FLOOD CONTROL DISTRICT
RECEIVED
APR 12 1990

	CH ENG		P & PM
	DEP		HYDRO
	ADMIN		LMGT
	FINANCE		FILE
	O & O		
	MGR		

REMARKS

CAVE CREEK/CAREFREE
FLOOD DELINEATION STUDY

APPENDIX C
3 of 3

CH2M HILL
Project No. RDD27815.H3

PHXR4.222.50

Registered Professional Engineer
CERTIFICATE NO. 20361
STEVEN R. WALKER
Date Signed 3-27-90
ARIZONA, U.S.A.

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     2/26/90    TIME    15:54:12         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
****************************************
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OCEAST.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 15:54:13

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH           (OCEAST.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                                                       2242.66

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      2274      3445      4047      5109

NC     .05       .05       .04        .1        .3

       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
X1    2030       18    9874.2   10067.5                                                  -2
GR  2252.8   9793.7    2252.5    9830.5    2246.7    9853.0    2241.3    9874.2    2242.9    9900.3
GR  2244.0   9926.2    2242.1    9957.7    2242.5    9966.4    2241.6    9999.3    2242.0   10000.0
GR  2241.0  10018.4    2242.1   10044.1    2242.3   10067.5    2245.7   10093.3    2254.9   10121.7
GR  2256.9  10157.9    2256.5   10178.3    2255.4   10187.7
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```
NC    .045     .045     .035

X1    2070       19   9943.5  10069.5      210      210      210
GR  2251.0   9688.1   2251.0   9778.4   2251.0   9831.4   2251.0   9874.2   2250.4   9898.2
GR  2250.4   9923.7   2246.5   9943.5   2245.8   9962.9   2246.3  10000.0   2245.5  10021.6
GR  2246.7  10025.5   2249.5  10039.2   2246.6  10053.8   2248.5  10069.5   2256.2  10088.3
GR  2259.0  10113.5   2260.3  10163.3   2262.0  10215.1   2264.4  10249.6

NH       3     .045   9955.2     .035  10070.2     .045  10390.0

X1    2170       23   9986.5  10355.2      520      480      530
GR  2275.4   9886.0   2274.5   9895.8   2258.2   9933.0   2261.4   9938.9   2262.4   9955.2
GR  2262.0   9966.8   2259.7   9979.0   2256.6   9986.5   2256.6  10000.0   2258.5  10031.4
GR  2257.6  10050.1   2258.7  10070.2   2258.6  10141.3   2255.9  10216.3   2255.3  10240.7
GR  2257.9  10257.8   2257.2  10275.7   2259.0  10288.9   2257.7  10332.0   2257.2  10354.4
GR  2257.4  10355.2   2258.7  10370.7   2261.6  10390.0

NH       3     .045   9915.0     .035  10022.5     .045    10410

X1    2260       25   9928.2  10010.6      470      480      480
GR  2286.5   9504.5   2284.0   9547.8   2279.0   9591.4   2272.8   9676.2   2269.4   9723.0
    2271.5   9733.2   2271.2   9826.7   2271.6   9915.0   2268.2   9928.2   2268.4   9967.0
    2268.3   9971.7   2267.6  10000.0   2266.8  10010.6   2276.7  10022.5   2277.1  10024.6
GR  2278.3  10061.3   2276.9  10093.0   2271.9  10116.9   2276.6  10142.2   2278.8  10173.0
GR  2278.4  10207.4   2277.8  10217.0   2280.0    10290     2276    10347   2280.0    10410

NH       3     .045   9943.1     .035  10110.1     .045  10790.4

X1    2310       30   9963.4  10110.1      260      260      260
GR  2294.0   9694.6   2286.6   9724.9   2279.8   9775.6   2278.8   9803.3   2279.9   9832.4
GR  2277.9   9885.7   2277.9   9935.4   2276.8   9943.1   2276.0   9963.4   2273.3  10000.0
GR  2273.2  10013.4   2274.8  10036.0   2274.2  10054.9   2273.7  10093.0   2273.6  10110.1
GR  2283.6  10126.1   2283.9  10162.2   2284.2  10194.7   2284.6  10231.8   2286.9  10283.2
GR  2286.3  10309.7   2284.3  10332.6   2286.6  10359.7   2290.0  10499.5   2291.4  10573.2
GR  2289.5  10623.7   2290.3  10668.1   2286.2  10716.7   2289.7  10752.7   2291.2  10790.4

QT       4      1652     2499     2992     3667

NH       3     .045   9962.2     .035  10033.3     .045  10220.2

         QT VALUES ARE FROM CP 35A.
X1    2400       23   9778.6  10014.9      490      470      480
GR  2305.0   9627.1   2303.2   9663.3   2299.0   9695.4   2291.3   9730.7   2289.1   9757.9
GR  2289.1   9759.2   2287.3   9778.6   2289.0   9795.9   2285.4   9817.6   2288.2   9844.7
GR  2290.4   9912.7   2290.8   9962.2   2288.2   9974.2   2287.4   9975.8   2287.4   9996.1
    2287.6  10000.0   2287.6  10014.9   2296.1  10033.3   2290.4  10062.9   2291.9  10094.6
    2290.2  10138.6   2292.2  10177.0   2292.1  10220.2
```

NH	3	.045	9904.6	.035	10061.2	.045	10861.4			
X1	2470	30	9916.2	10057.1	370	370	370			
GR	2305.0	9882.7	2304.7	9904.6	2301.0	9916.2	2298.2	9969.6	2298.2	9974.5
GR	2298.7	10000.0	2299.1	10020.8	2297.7	10036.5	2297.0	10057.1	2304.8	10061.2
GR	2303.6	10075.7	2304.2	10129.9	2304.0	10217.3	2302.6	10266.8	2300.4	10305.8
GR	2301.2	10355.4	2303.9	10373.5	2303.8	10392.7	2306.8	10422.6	2308.8	10465.6
GR	2308.5	10532.2	2309.1	10614.6	2308.6	10669.8	2307.6	10723.7	2305.8	10728.9
GR	2306.5	10741.7	2306.6	10756.9	2307.6	10761.6	2309.4	10813.5	2309.5	10861.4
NH	3	.045	9985.2	.040	10273.5	.045	10715.7			
X1	2580	29	9985.2	10162.9	580	580	580			
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7		
NH	3	.045	9883.1	.040	10196.5	.045	10457.2			
X1	2650	22	9903.4	10196.5	370	370	370			
GR	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
GR	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
GR	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
GR	2335.2	10436.7	2333.8	10457.2						
NH	3	.045	9982	.040	10038	.045	10353			
X1	2720	10	9982	10315	410	410	410			
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
NC	.045	.055	.035							
X1	2780	36	9960.7	10073.7	280	280	280			
GR	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7
GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								

NH	3	.035	9915.7	.03	10024.3	999	10889.3			
X1	2850	34	9946.7	10024.3	370	370	370			
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
GR	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
GR	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5
GR	2368.4	10294.6	2368.6	10370.3	2367.8	10463.0	2367.5	10531.7	2366.9	10583.5
GR	2366.4	10610.9	2367.9	10650.9	2368.9	10685.7	2365.6	10700.8	2365.8	10706.9
GR	2363.7	10715.9	2361.6	10757.6	2360.6	10771.0	2367.5	10784	2366.4	10793.5
GR	2365.9	10820.7	2366.3	10829.5	2366.4	10874.6	2365.8	10889.3		
NH	4	.035	10025.9	.045	10422.5	.035	10498.3	999	10696.7	
X1	2970	35	9700.0	10025.9	635	635	635			
GR	2389.5	9632	2388.0	9675	2386.4	9700	2388.0	9728	2389.7	9792.0
GR	2388.0	9850	2386.2	9908	2388.0	9965.6	2385.2	9997.4	2384.9	10000.0
GR	2387.6	10025.9	2390.0	10071.0	2390.5	10093.8	2389.8	10107.6	2391.4	10177.9
GR	2390.4	10234.1	2389.9	10282.8	2385.9	10296.3	2388.2	10321.9	2387.7	10348.8
GR	2386.4	10368.7	2384.9	10383.6	2386.7	10402.2	2385.7	10422.5	2382.5	10431.1
GR	2385.1	10454.9	2384.1	10476.9	2388.7	10498.3	2390.8	10543.9	2389.0	10547.2
GR	2388.4	10574.9	2390.6	10579.3	2392.4	10604.0	2395.5	10622.4	2394.3	10696.7
	4	.05	9908.3	.03	10030.6	.05	10049.5	999	10821.0	
X1	3090	36	9908.3	10049.5	635	635	635			
GR	2416.3	9714.3	2411.5	9775.9	2412.2	9823.6	2414.6	9874.7	2415.4	9908.3
GR	2413.8	9933.4	2415.0	9954.0	2415.3	9964.3	2410.9	9969.3	2410.9	10000.0
GR	2410.4	10019.7	2415.1	10030.6	2416.1	10049.5	2413.3	10083.3	2413.7	10136.8
GR	2413.1	10161.7	2414.4	10182.7	2413.4	10244.9	2413.3	10293.1	2409.3	10320.4
GR	2410.4	10349.4	2413.8	10372.6	2416.8	10410.9	2417.8	10461.6	2415.1	10490.5
GR	2412.7	10537.5	2410.5	10552.5	2416.0	10582.1	2416.9	10622.3	2416.8	10670.5
GR	2414.5	10692.6	2412.8	10700.9	2414.5	10718.2	2417.4	10754.4	2425.5	10811.7
GR	2424.6	10821								
NC	.05	.05	.035							
X1	3170	13	9962.0	10080.0	410	430	420			
GR	2448.0	9905.0	2440.0	9942.0	2432.0	9962.0	2427.0	9985.0	2426.0	10000.0
GR	2428.0	10018.0	2431.0	10080.0	2431.2	10118.0	2433.5	10147.0	2434.0	10215.0
GR	2438.0	10255.0	2442.5	10300.0	2448.0	10410.0				
QT	4	1029	1494	1714	2099					
NC	.045	.045	.045							

QT VALUES ARE FROM CP G1.

X1	3290	23	9829.6	10000.0	630	630	630			
GR	2476.0	9611.0	2470.8	9672.2	2466.6	9712.4	2464.1	9726.3	2461.9	9776.8
GR	2456.8	9829.6	2456.2	9866.9	2458.5	9891.0	2456.7	9914.8	2456.9	9936.1
GR	2457.3	9939.9	2454.3	9986.0	2452.1	10000.0	2460.3	10019.0	2462.7	10036.8
GR	2462.6	10073.4	2463.1	10107.5	2465.3	10171.9	2467.2	10225.2	2465.1	10278.5
GR	2463.5	10300.3	2467.0	10340.2	2468.8	10376.9				
X1	3390	23	9815.5	10032.6	530	530	530			
GR	2497.2	9774.1	2486.7	9805.0	2479.3	9815.5	2480.6	9830.3	2483.1	9863.8
GR	2481.4	9914.4	2478.9	9947.3	2481.5	9971.1	2476.4	9985.9	2475.6	9998.3
GR	2475.9	10000.0	2475.2	10008.0	2479.7	10016.3	2481.2	10032.6	2488.1	10051.3
GR	2487.7	10076.4	2483.7	10105.9	2489.1	10115.7	2486.1	10125.7	2485.4	10132.2
GR	2487.1	10167.3	2489.1	10213.7	2487.4	10235.0				
NC	.045	.045	.040							
X1	3490	16	9933.5	10015.6	460	490	530			
GR	2518.7	9876.6	2513.7	9903.1	2508.0	9918.7	2501.6	9933.5	2499.9	9945.9
GR	2502.2	9957.0	2501.3	9959.4	2499.2	9967.0	2496.7	9989.0	2497.0	10000.0
GR	2498.7	10012.5	2500.3	10015.6	2507.1	10041.8	2514.7	10065.3	2516.9	10097.8
GR	2516.8	10108.2								
NC	.045	.045	.035							
X1	3570	14	9968.3	10034.5	410	380	420			
GR	2537.0	9919.5	2526.5	9947.9	2519.2	9968.3	2520.8	9970.9	2515.8	9983.7
GR	2514.9	10000.0	2516.4	10011.0	2519.2	10034.5	2529.8	10064.4	2528.8	10092.1
GR	2530.3	10097.9	2534.0	10130.1	2536.5	10184.7	2535.7	10200.2		
X1	3650	14	9955.6	10039.8	400	440	420			
GR	2559.6	9898.9	2554.0	9913.7	2547.9	9932.1	2540.8	9945.9	2536.1	9955.6
GR	2534.5	9974.9	2534.4	9981.6	2535.1	10000.0	2537.0	10017.3	2537.0	10027.9
GR	2537.6	10039.8	2551.5	10065.6	2559.8	10108.1	2559.9	10120.2		
NC	.05	.05	.05							
X1	3740	13	9833.3	10035.6	480	480	480			
GR	2575.9	9782.5	2565.6	9809.8	2562.7	9833.3	2563.9	9859.3	2563.4	9888.2
GR	2563.8	9910.7	2563.8	9946.7	2563.2	9979.0	2562.1	10000.0	2562.4	10021.1
GR	2562.7	10035.6	2572.0	10056.1	2580.1	10067.1				
X1	3830	15	9933.1	10046.4	460	500	480			
GR	2610.7	9813.9	2610.9	9857.8	2613.5	9898.0	2583.0	9933.1	2582.1	9941.0
GR	2581.4	9949.9	2585.0	9960.0	2582.9	9978.0	2584.7	10000.0	2585.2	10020.6
GR	2587.0	10046.4	2586.7	10087.3	2591.9	10138.3	2598.9	10166.3	2606.7	10179.3

X1	3930	19	9904.7	10075.4	550	510	530			
GR	2639.8	9838.0	2624.9	9868.4	2615.8	9893.8	2613.6	9904.7	2612.6	9933.6
GR	2611.5	9938.5	2611.1	9953.7	2613.1	9973.8	2612.8	10000.0	2613.1	10013.5
GR	2614.0	10019.8	2609.8	10043.1	2611.8	10069.5	2609.5	10075.4	2615.6	10094.9
GR	2629.2	10123.2	2641.5	10147.4	2642.1	10187.3	2641.8	10195.9		
NC	.05	.05	.045							
X1	3990	10	10000.0	10026.7	280	320	320			
GR	2662.4	9938.9	2635.0	9983.7	2622.9	10000.0	2624.8	10013.6	2625.9	10015.0
GR	2627.2	10026.7	2639.1	10051.7	2641.4	10085.4	2645.5	10108.7	2643.3	10112.0
X1	4070	7	9985.9	10013.0	400	380	420			
GR	2677.7	9958.9	2658.7	9985.9	2652.0	10000.0	2648.4	10006.9	2658.3	10013.0
GR	2660.0	10016.3	2671.9	10065.8						
X1	4190	9	9988.7	10013.0	630	630	630			
GR	2726.6	9947.0	2697.9	9988.7	2695.1	9998.3	2695.7	10000.0	2695.3	10007.6
GR	2702.2	10013.0	2707.8	10029.7	2717.2	10097.9	2716.8	10098.4		
	4280	10	9983.7	10014.0	470	500	480			
GR	2794.4	9828.8	2761.7	9903.9	2738.3	9955.7	2729.6	9983.7	2729.4	9987.6
GR	2727.5	10000.0	2729.6	10014.0	2736.2	10027.0	2746.2	10042.3	2752.0	10063.8
NC	.06	.06	.055							
X1	4380	12	9984.2	10013.8	530	530	530			
GR	2775.8	9945.3	2773.4	9959.3	2761.0	9980.4	2759.1	9984.2	2755.2	10000.0
GR	2754.1	10007.9	2758.0	10013.8	2759.4	10017.7	2763.4	10044.1	2767.2	10055.5
GR	2778.0	10074.6	2782.3	10079.7						
X1	4420	10	9981.7	10011.0	230	200	210			
GR	2789.4	9937.9	2779.2	9965.6	2773.7	9981.7	2771.1	9985.9	2769.5	9998.3
GR	2770.4	10000.0	2771.1	10007.6	2775.9	10011.0	2785.7	10025.9	2796.3	10045.2
X1	4460	7	9988.3	10010.5	190	210	210			
GR	2815.8	9951.1	2784.8	9988.3	2783.2	10000.0	2783.1	10010.5	2785.5	10011.7
GR	2799.3	10033.8	2807.0	10055.9						
NC	.06	.06	.05							

	4610	10	9985.7	10012.4	790	790	790			
GR	2841.2	9933.9	2838.7	9959.8	2835.9	9985.7	2835.1	9987.8	2833.4	9998.7
GR	2833.4	10000.0	2835.6	10012.4	2844.1	10018.1	2858.6	10041.7	2864.0	10049.8
X1	4810	11	9952.3	9972.6	1090	1030	1060			
GR	2911.6	9867.8	2899.3	9925.7	2888.8	9952.3	2888.7	9959.7	2892.0	9972.6
GR	2894.7	9986.8	2894.1	10000.0	2892.8	10012.9	2894.5	10014.9	2918.7	10046.7
GR	2929.0	10063.6								
X1	4990	8	10000.0	10011.4	930	970	950			
GR	2981.0	9938.9	2972.8	9968.5	2965.2	9986.5	2952.7	10000.0	2950.3	10008.0
GR	2952.5	10011.4	2965.7	10030.8	2975.2	10047.0				
X1	5170	8	9994.5	10008.8	970	930	950			
GR	3078.9	9933.4	3050.7	9983.0	3043.9	9994.5	3042.7	10000.0	3044.9	10008.8
GR	3049.0	10011.2	3058.1	10031.7	3062.2	10053.3				
NC	.06	.06	.055							
X1	5350	12	9907.8	10016.6	960	940	950			
GR	3185.6	9858.0	3171.0	9887.0	3165.4	9907.8	3164.0	9952.0	3165.8	9977.2
	3162.1	9991.5	3161.7	10000.0	3161.3	10013.5	3161.4	10016.6	3167.1	10034.9
	3184.5	10061.5	3183.8	10062.0						
NC	.06	.06	.05							
X1	5510	8	9997.0	10023.2	840	840	840			
GR	3277.8	9984.0	3270.6	9997.0	3271.2	10000.0	3270.1	10018.7	3270.2	10023.2
GR	3281.7	10048.7	3288.9	10103.6	3289.5	10105.9				
X1	5610	7	9981.9	10000.0	520	540	530			
GR	3335.7	9939.2	3326.4	9967.9	3327.2	9981.9	3324.8	9991.1	3326.7	10000.0
GR	3327.9	10013.3	3332.2	10036.4						

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 2030.000     3.66  2242.66      .00  2242.66  2243.00      .34      .00      .00  2239.30
    2274.      66.    2157.      51.      22.     453.      21.       0.       0.   2240.30
      .00     2.99     4.76     2.40     .050     .040     .050     .000  2239.00  9861.01
  .005293       0.       0.       0.        0        0        0      .00   224.40 10085.41


*SECNO 2070.000

 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     3.25  2248.75  2248.75      .00  2249.84     1.08     1.69      .22  2246.50
    2274.      53.    2221.       0.      13.     263.       0.       2.       1.   2248.50
      .01     4.13     8.43      .04     .045     .035     .045     .000  2245.50  9932.07
  .013704     210.     210.     210.       20       11        0      .00   130.62 10070.12


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 2170.000     3.40  2258.70  2258.63      .00  2259.20      .50     9.31      .06  2256.60
    2274.      35.    2200.      39.       6.     388.      10.       6.       4.   2257.40
      .03     5.97     5.67     3.80     .035     .042     .045     .000  2255.30  9931.85
 .023360     520.     530.     480.       22        5        0      .00   379.48 10370.74
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     4.02  2270.82  2270.82      .00  2272.04     1.21     7.74      .22  2268.20
    2274.      126.    2088.      60.      32.     229.      10.      10.       7.   2266.80
      .05     3.91     9.12     6.17     .039     .035     .035     .000  2266.80  9703.44
  .011805     470.     480.     480.       16       11        0      .00   123.87 10015.43


1490 NH CARD USED
*SECNO 2310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     2.83  2276.03  2276.03      .00  2277.01      .98     3.41      .02  2276.00
    2274.        0.    2255.      19.       0.     283.       5.      11.       8.   2273.60
      .06      .05     7.97     4.09     .035     .035     .045     .000  2273.20  9962.57
  .014702     260.     260.     260.       14       19        0      .00   151.42 10113.99


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP 35A.
 2400.000     3.83  2289.23  2289.23      .00  2289.98      .74     8.25      .02  2287.30
    1652.       99.    1538.       15.      20.     218.       3.      14.       9.   2287.60
      .08     4.90     7.05     5.12     .045     .041     .035     .000  2285.40  9756.28
  .021731     490.     480.     470.       16       14        0      .00   169.29 10018.43


1490 NH CARD USED
*SECNO 2470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2470.000     3.27  2300.27  2300.27      .00  2301.16      .89     6.82      .04  2301.00
    1652.      0.    1639.      13.       0.     216.       3.      16.      11.   2297.00
      .09      .00     7.60     4.45     .000     .035     .035     .000  2297.00  9930.06
  .015813     370.     370.     370.       20       15        0      .00   128.76 10058.82


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2580.000     3.49  2317.19  2317.19      .00  2317.95      .76     9.86      .01  2317.00
    1652.      38.    1614.       0.      14.     228.       0.      19.      13.   2318.70
      .11     2.60     7.08      .00     .045     .040     .000     .000  2313.70  9952.45
  .018331     580.     580.     580.       10        8        0      .00   167.32 10143.31


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2650.000     3.76  2329.76  2329.76      .00  2330.41      .64     7.51      .01  2326.00
    1652.      97.    1555.       0.      12.     245.       0.      21.      14.   2332.00
      .13     7.76     6.34      .00     .040     .040     .000     .000  2326.00  9896.76
  .022625     370.     370.     370.       17        8        0      .00   207.99 10127.03


1490 NH CARD USED
*SECNO 2720.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2720.000     2.24  2344.04  2344.04      .00  2344.52      .48    10.73      .02  2344.00
    1652.       0.    1652.       0.       0.     297.       0.      24.      17.   2344.00
      .15      .06     5.57      .06     .000     .043     .045     .000  2341.80  9981.92
  .030641     410.     410.     410.       20       14        0      .00   334.32 10316.24
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2780.000	3.25	2354.05	2354.05	.00	2354.66	.61	7.61	.04	2355.80
1652.	0.	454.	1198.	0.	80.	186.	26.	18.	2354.10
.16	.00	5.68	6.44	.000	.035	.055	.000	2350.80	9970.16
.024283	280.	280.	280.	4	14	0	.00	219.55	10262.13

1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.000	4.62	2365.02	2365.02	.00	2366.03	1.02	5.23	.12	2364.60
1652.	177.	1475.	0.	35.	176.	205.	29.	21.	2366.50
.18	5.09	8.38	.00	.030	.030	999.000	.000	2360.40	9915.05
.009231	370.	370.	370.	5	14	0	.00	271.49	10779.32

1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2970.000	4.37	2386.87	2386.87	.00	2387.49	.62	6.05	.04	2386.40
1652.	3.	168.	1481.	2.	56.	225.	34.	24.	2387.60
.20	1.61	3.01	6.57	.035	.035	.036	.000	2382.50	9692.60
.009830	635.	635.	635.	20	12	0	.00	241.96	10489.80

1490 NH CARD USED
*SECNO 3090.000

```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     4.15  2413.45  2413.45      .00  2414.34      .89     6.02      .08  2415.40
    1652.     400.     1252.       0.     117.     148.     265.      40.      29.   2416.10
      .23     3.40     8.46      .00     .050     .030  999.000     .000  2409.30  9750.86
  .009139     635.     635.     635.        6       13        0      .00   385.95 10707.53


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     4.33  2430.33  2430.33      .00  2431.40     1.07     4.77      .05  2432.00
    1652.       0.     1652.       0.       0.     199.       0.      43.      31.   2431.00
      .24      .00     8.28      .00     .000     .035     .000     .000  2426.00  9969.66
  .014585     410.     420.     430.       20        8        0      .00    96.59 10066.25


*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     4.95  2457.05  2457.05      .00  2457.70      .65    10.99      .04  2456.80
    1029.       0.      777.     252.       0.     142.      28.      46.      33.   2452.10
      .27     1.28     5.45     8.87     .045     .045     .045     .000  2452.10  9827.02
  .024164     630.     630.     630.       20       11        0      .00   143.83 10011.47


*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     4.47  2479.67  2479.67      .00  2480.70     1.03    12.78      .11  2479.30
    1029.       0.     1029.       0.       0.     126.       0.      48.      34.   2481.20
      .29      .05     8.15      .00     .045     .045     .000     .000  2475.20  9814.98
  .024060     530.     530.     530.       12       11        0      .00    61.65 10016.24
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     3.54  2500.24  2500.24      .00  2501.34     1.10    11.17      .02  2501.60
    1029.       0.    1029.       0.       0.     122.       0.      49.      35.   2500.30
      .31      .00     8.42      .00     .000     .040     .000     .000  2496.70  9943.45
  .018610     460.     530.     490.        9       15        0      .00    56.29 10015.47


*SECNO 3570.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     3.78  2518.68  2518.68      .00  2519.82     1.14     6.79      .01  2519.20
    1029.       0.    1029.       0.       0.     120.       0.      50.      35.   2519.20
      .32      .00     8.55      .00     .000     .035     .000     .000  2514.90  9976.32
     4179     410.     420.     380.       20        8        0      .00    53.86 10030.18


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     2.99  2537.39  2537.39      .00  2538.25      .86     6.14      .03  2536.10
    1029.       5.    1024.       0.       2.     137.       0.      52.      36.   2537.60
      .33     2.82     7.47      .00     .045     .035     .000     .000  2534.40  9952.94
  .015104     400.     420.     440.       20       15        0      .00    82.63 10035.57


*SECNO 3740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.11  2564.21  2564.21      .00  2564.62      .41    10.36      .05  2562.70
    1029.      41.     977.      11.       9.     189.       3.      54.      38.   2562.70
      .36     4.47     5.18     4.22     .050     .050     .050     .000  2562.10  9821.09
  .033339     480.     480.     480.       20       14        0      .00   217.83 10038.92
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     3.89  2585.29  2585.29      .00  2586.12      .83    16.14      .12  2583.00
    1029.      15.     1014.      0.       3.     139.       0.      55.      39.   2587.00
      .38     4.98      7.32     .00     .050     .050     .000     .000  2581.40  9930.46
  .033993     460.      480.     500.       12       17        0      .00    91.48 10021.94


*SECNO 3930.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     3.28  2612.78  2612.78      .00  2613.54      .76    18.05      .01  2613.60
    1029.       0.      902.     127.       0.     130.      17.      57.      41.   2609.50
      .40      .00      6.93     7.41     .000     .050     .050     .000  2609.50  9928.45
     4274     550.      530.     510.       20       15        0      .00   101.42 10085.88


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     5.38  2628.28  2628.28      .00  2629.84     1.56     8.60      .24  2622.90
    1029.     144.      882.       3.     20.      85.       1.      58.      41.   2627.20
      .41     7.37     10.42     2.73     .050     .045     .050     .000  2622.90  9992.75
  .021982     280.      320.     320.       20       14        0      .00    36.23 10028.97


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000     8.27  2656.67  2656.67      .00  2658.76     2.09    10.18      .16  2658.70
    1029.       0.     1029.       0.       0.      89.       0.      59.      41.   2658.30
      .42      .00     11.61      .00     .000     .045     .000     .000  2648.40  9990.17
     7047     400.      420.     380.       20       14        0      .00    21.82 10012.00
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     5.19  2700.29  2700.29      .00  2702.19     1.89    15.00      .02  2697.90
    1029.      18.     1011.       0.       4.      91.       0.      60.      42.   2702.20
      .43     4.28     11.13      .00     .050     .045     .000     .000  2695.10  9985.22
  .021127     630.      630.     630.       20       14        0      .00    26.28 10011.51


*SECNO 4280.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     4.39  2731.89  2731.89      .00  2733.32     1.44     9.51      .05  2729.60
    1029.      36.      971.      21.       8.      99.       5.      62.      42.   2729.60
      .45     4.30      9.84     4.11     .050     .045     .050     .000  2727.50  9976.33
  .018633     470.      480.     500.       20       15        0      .00    42.18 10018.51


SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     5.54  2759.64  2759.64      .00  2761.22     1.57    12.33      .04  2759.10
    1029.       0.     1014.      15.       0.     100.       4.      63.      43.   2758.00
      .46     1.67     10.13     3.81     .060     .055     .060     .000  2754.10  9983.11
  .029874     530.      530.     530.       20       11        0      .00    36.20 10019.31


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     4.88  2774.38  2774.38      .00  2776.09     1.71     6.55      .04  2773.70
    1029.       1.     1028.       0.       1.      98.       0.      63.      43.   2775.90
      .47     2.10     10.50      .00     .060     .055     .000     .000  2769.50  9979.71
  .032619     230.      210.     200.       20       11        0      .00    30.22 10009.92


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 4460.000     4.49  2787.59  2787.59      .00  2789.39     1.80     6.13      .03  2784.80
    1029.      20.     976.      34.       5.      89.       7.      64.      43.   2783.10
      .47     4.21    11.00     4.50     .060     .055     .060     .000  2783.10  9984.95
  .026296     190.     210.     210.       20       11        0      .00    30.11 10015.05


*SECNO 4610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     4.63  2838.03  2838.03      .00  2839.43     1.40    18.18      .04  2835.90
    1029.      77.     947.       5.      21.      96.       2.      66.      44.   2835.60
      .50     3.66     9.84     2.72     .060     .050     .060     .000  2833.40  9966.03
  .020314     790.     790.     790.       13        8        0      .00    48.00 10014.03


*SECNO 4810.000

3645 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     4.95  2893.65  2893.65      .00  2895.08     1.43    21.71      .01  2888.80
    1029.     182.     817.      30.      30.      79.      11.      69.      45.   2892.00
      .53     6.10    10.37     2.68     .060     .050     .060     .000  2888.70  9940.02
  .020515    1090.    1060.    1030.       20        8        0      .00    50.67 10013.90


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000     7.14  2957.44  2957.44      .00  2959.65     2.22    18.81      .24  2952.70
    1029.      60.     870.      99.      12.      68.      18.      71.      46.   2952.50
      .55     4.96    12.80     5.52     .060     .050     .060     .000  2950.30  9994.89
  .019167     930.     950.     970.       20       11        0      .00    23.77 10018.65
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     6.00  3048.70  3048.70      .00  3050.85     2.15    18.88      .01  3043.90
    1029.      112.     902.      15.      19.      73.      4.      73.      46.   3044.90
      .57     5.77    12.39     3.46     .060     .050    .060     .000  3042.70  9986.39
  .020606     970.     950.     930.       20       15       0      .00    24.64 10011.02


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     3.69  3164.99  3164.99      .00  3165.78      .79    26.67      .14  3165.40
    1029.       0.     881.     148.       0.     123.     21.      76.      47.   3161.40
      .61      .00     7.14     7.14     .000     .055    .060     .000  3161.30  9920.66
  .040510     960.     950.     940.       20       14       0      .00    93.05 10028.13


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     3.82  3273.92  3273.92      .00  3275.40     1.48    25.79      .21  3270.60
    1029.      49.     896.      84.      10.      87.     15.      78.      49.   3270.20
      .64     4.93    10.26     5.47     .060     .050    .060     .000  3270.10  9991.00
  .024070     840.     840.     840.       20        8       0      .00    40.46 10031.46


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5610.000	4.41	3329.21	3329.21	.00	3330.29	1.08	12.36	.04	3327.20
1029.	281.	591.	158.	46.	60.	30.	80.	49.	3326.70
.65	6.11	9.80	5.27	.060	.050	.060	.000	3324.80	9959.23
.022655	520.	530.	540.	20	8	0	.00	61.09	10020.33

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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      50-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                       2243.47

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                -1
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 2030.000     4.47  2243.47      .00  2243.47  2243.89      .42      .00      .00  2239.30
    3445.     108.    3235.     102.      34.     609.      38.       0.       0.   2240.30
      .00     3.16     5.31     2.67     .050     .040     .050     .000  2239.00  9857.83
  .004425       0.       0.       0.        0        0        0      .00   233.73 10091.55


*SECNO 2070.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     3.97  2249.47  2249.47      .00  2250.84     1.37     1.47      .28  2246.50
    3445.     108.    3335.       3.      22.     351.       1.       3.       1.   2248.50
      .01     4.81     9.49     2.19     .045     .035     .045     .000  2245.50  9928.42
  .012818     210.     210.     210.       20       15        0      .00   143.17 10071.87


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 2170.000     3.75  2259.05  2259.05      .00  2259.69      .64     8.72      .07  2256.60
    3445.      53.    3316.      76.       9.     512.      16.       8.       4.   2257.40
      .03     6.10     6.48     4.78     .036     .042     .045     .000  2255.30  9931.07
  .021955     520.     530.     480.       15       10        0      .00   395.91 10373.00


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     5.20  2272.00  2272.00      .00  2272.94      .95     5.21      .09  2268.20
    3445.     573.    2784.      88.     203.     326.      16.      14.       8.   2266.80
      .05     2.82     8.54     5.40     .042     .035     .035     .000  2266.80  9687.26
  .006476     470.     480.     480.        3       12        0      .00   330.57 10117.42


1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     3.49  2276.69  2276.69      .00  2277.92     1.23     2.28      .09  2276.00
    3445.      14.    3397.      34.       6.     379.       8.      17.      10.   2273.60
      .05     2.34     8.96     4.43     .035     .035     .045     .000  2273.20  9945.93
  .012580     260.     260.     260.       20       14        0      .00   169.11 10115.04


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP 35A.
 2400.000     4.33  2289.73  2289.73      .00  2290.63      .89     7.29      .03  2287.30
    2499.     194.    2276.      29.      33.     295.       5.      21.      12.   2287.60
      .07     5.87     7.72     5.92     .045     .041     .035     .000  2285.40  9750.06
  .020295     490.     480.     470.       20       11        0      .00   194.47 10019.52
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2470.000	3.92	2300.92	2300.92	.00	2301.94	1.02	5.99	.04	2301.00
2499.	0.	2464.	35.	0.	302.	15.	24.	13.	2297.00
.09	.00	8.16	2.37	.000	.035	.040	.000	2297.00	9917.74
.013200	370.	370.	370.	20	11	0	.00	182.84	10338.01

1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2580.000	4.03	2317.73	2317.73	.00	2318.61	.87	8.82	.01	2317.00
2499.	138.	2361.	0.	35.	308.	0.	28.	16.	2318.70
.11	3.91	7.66	.00	.045	.040	.000	.000	2313.70	9941.32
.017695	580.	580.	580.	13	8	0	.00	201.50	10150.40

1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2650.000	4.17	2330.17	2330.17	.00	2330.96	.78	7.38	.01	2326.00
2499.	128.	2371.	0.	15.	337.	0.	31.	18.	2332.00
.12	8.32	7.03	.00	.040	.040	.000	.000	2326.00	9896.03
.022654	370.	370.	370.	18	8	0	.00	245.55	10141.59

1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2720.000	2.54	2344.34	2344.34	.00	2344.96	.62	10.17	.02	2344.00
2499.	0.	2496.	3.	0.	395.	2.	34.	20.	2344.00
.14	1.53	6.32	1.67	.045	.044	.045	.000	2341.80	9981.39
027301	410.	410.	410.	12	14	0	.00	343.48	10324.87

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     3.66  2354.46  2354.46      .00  2355.21      .75     7.08      .04  2355.80
    2499.       0.     869.    1630.       0.     122.     237.      37.      22.   2354.10
      .15      .00     7.14     6.88     .000     .035     .055     .000  2350.80  9967.99
  .023461     280.     280.     280.       12        8        0      .00   238.74 10264.09


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     5.25  2365.65  2365.65      .00  2366.96     1.31     5.06      .17  2364.60
    2499.     369.    2130.       0.      55.     223.     321.      41.      25.   2366.50
      .16     6.71     9.54      .00     .030     .030  999.000     .000  2360.40  9914.07
  .008958     370.     370.     370.       10       14        0      .00   313.33 10780.51


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     4.89  2387.39  2387.39      .00  2388.02      .63     5.72      .07  2386.40
    2499.      19.     411.    2068.       8.     117.     304.      48.      29.   2387.60
      .19     2.53     3.50     6.81     .035     .035     .037     .000  2382.50  9684.50
  .009068     635.     635.     635.       20       10        0      .00   321.17 10492.22
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     4.86  2414.16  2414.16      .00  2415.04      .88     5.74      .08  2415.40
    2499.      810.    1689.       0.     196.     194.     485.      58.      36.   2416.10
      .21     4.13     8.73      .00     .050     .030  999.000     .000  2409.30  9741.80
  .009012     635.     635.     635.        6        5        0      .00   566.87 10714.71


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.11  2431.11  2431.11      .00  2432.33     1.22     4.50      .10  2432.00
    2499.       0.    2498.       1.       0.     282.       1.      64.      39.   2431.00
      .23      .00     8.85      .51     .000     .035     .050     .000  2426.00  9966.07
  .013051     410.     420.     430.       20        8        0      .00   135.73 10101.81


*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.28  2457.38  2457.38      .00  2458.16      .77    10.27      .04  2456.80
    1494.       4.    1183.     307.       2.     189.      32.      67.      41.   2452.10
      .25     2.30     6.27     9.48     .045     .045     .045     .000  2452.10  9823.55
  .025257     630.     630.     630.       20        8        0      .00   162.27 10012.25


*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 3390.000     5.24  2480.44  2480.44      .00  2481.42      .99    13.34      .06  2479.30
    1494.       3.    1491.       0.       1.     187.       0.      70.      43.   2481.20
      .27     3.14     7.97      .00     .045     .045     .000     .000  2475.20  9813.89
  .025098     530.     530.     530.       14        5        0      .00    98.90 10024.29


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.26  2500.96  2500.96      .00  2502.19     1.24    11.09      .08  2501.60
    1494.       0.    1492.       2.       0.     167.       1.      72.      44.   2500.30
      .29      .00     8.93     2.05     .000     .040     .045     .000  2496.70  9938.18
  .017709     460.     530.     490.       11       15        0      .00    70.32 10018.14


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     4.47  2519.37  2519.37      .00  2520.73     1.36     6.48      .04  2519.20
    1494.       0.    1494.       0.       0.     160.       0.      73.      45.   2519.20
      .30      .04     9.36      .04     .045     .035     .045     .000  2514.90  9967.83
  .013545     410.     420.     380.       20        8        0      .00    61.16 10034.98


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     3.48  2537.88  2537.88      .00  2538.95     1.07     5.82      .03  2536.10
    1494.      11.    1483.       0.       3.     178.       0.      75.      45.   2537.60
      .31     3.39     8.32      .04     .045     .035     .045     .000  2534.40  9951.93
  .014198     400.     420.     440.       20       15        0      .00    88.39 10040.32


*SECNO 3740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.31  2564.41  2564.41      .00  2564.99      .58    10.36      .05  2562.70
    1494.      60.    1418.      15.      12.     229.       3.     77.      47.   2562.70
      .34     5.09     6.18     4.81     .050     .050     .050     .000  2562.10  9819.47
  .036647     480.     480.     480.      20       23        0      .00   219.90 10039.36


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.37  2585.77  2585.77      .00  2586.77      .99    16.20      .12  2583.00
    1494.      24.    1470.       0.       4.     183.       0.     80.      49.   2587.00
      .35     5.42     8.04      .00     .050     .050     .000     .000  2581.40  9929.91
  .031234     460.     480.     500.      16       17        0      .00    98.93 10028.83


*SECNO 3930.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     3.88  2613.38  2613.38      .00  2614.02      .64    16.14      .04  2613.60
    1494.       0.    1307.     187.       0.     210.      24.     82.      50.   2609.50
      .38      .00     6.22     7.75     .000     .050     .050     .000  2609.50  9910.97
  .029839     550.     530.     510.      14       10        0      .00   169.11 10087.81


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     6.30  2629.20  2629.20      .00  2631.12     1.92     7.57      .38  2622.90
    1494.     206.    1271.      16.      27.     109.       4.     84.      51.   2627.20
      .38     7.71    11.63     3.88     .050     .045     .050     .000  2622.90  9991.51
  .019512     280.     320.     320.      17       14        0      .00    39.40 10030.91


*SECNO 4070.000
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000     9.58  2657.98  2657.98      .00  2660.40     2.42     9.31      .15  2658.70
    1494.       0.    1494.       0.       0.     120.       0.      85.      51.   2658.30
      .39      .00    12.48      .00     .000     .045     .000     .000  2648.40  9987.41
  .025630     400.     420.     380.       20       14        0      .00    25.40 10012.80


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     6.34  2701.44  2701.44      .00  2703.72     2.29    14.09      .01  2697.90
    1494.      49.    1445.       0.       9.     118.       0.      87.      52.   2702.20
      .41     5.36    12.29      .00     .050     .045     .000     .000  2695.10  9983.56
     9696     630.     630.     630.       20       14        0      .00    28.85 10012.40


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     5.25  2732.75  2732.75      .00  2734.48     1.73     8.73      .06  2729.60
    1494.      81.    1366.      47.      16.     125.      10.      88.      52.   2729.60
      .42     5.07    10.95     4.84     .050     .045     .050     .000  2727.50  9973.56
  .016869     470.     480.     500.       20       15        0      .00    46.64 10020.20


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     6.53  2760.63  2760.63      .00  2762.46     1.82    10.82      .03  2759.10
    1494.       7.    1428.      58.       2.     129.      13.      90.      53.   2758.00
      .43     3.06    11.04     4.65     .060     .055     .060     .000  2754.10  9981.13
  .025216     530.     530.     530.       20       11        0      .00    44.71 10025.84
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     5.92  2775.42  2775.42      .00  2777.48     2.07     5.72      .07  2773.70
    1494.      16.    1478.       0.       4.     127.       0.      91.      53.   2775.90
      .44     3.70    11.60      .00     .060     .055     .000     .000  2769.50  9976.68
  .029536     230.     210.     200.       20       11        0      .00    33.98 10010.66


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     5.57  2788.67  2788.67      .00  2790.86     2.19     5.55      .04  2784.80
    1494.      45.    1381.      69.       9.     113.      13.      91.      53.   2783.10
      .44     4.98    12.27     5.18     .060     .055     .060     .000  2783.10  9983.66
  .023842     190.     210.     210.       20       11        0      .00    33.11 10016.77


*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.60  2839.00  2839.00      .00  2840.51     1.50    15.65      .07  2835.90
    1494.     201.    1281.      12.      45.     122.       4.      94.      54.   2835.60
      .47     4.51    10.47     3.09     .060     .050     .060     .000  2833.40  9956.66
  .016718     790.     790.     790.       20        5        0      .00    58.02 10014.68


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.08  2894.78  2894.78      .00  2896.13     1.35    16.79      .02  2888.80
    1494.     271.    1069.     154.      45.     102.      45.      99.      56.   2892.00
      .50     5.99    10.50     3.44     .060     .050     .060     .000  2888.70  9937.15
  .014950    1090.    1060.    1030.       20        8        0      .00    78.12 10015.27
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000     8.53  2958.83  2958.83      .00  2961.45     2.63    15.51      .38  2952.70
    1494.     115.    1193.     185.      20.      84.      29.     102.      57.   2952.50
      .52     5.69    14.23     6.29     .060     .050     .060     .000  2950.30  9993.38
  .017909     930.     950.     970.       20       11        0      .00    27.32 10020.70


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     7.32  3050.02  3050.02      .00  3052.56     2.53    17.27      .01  3043.90
    1494.     203.    1255.      36.      32.      92.       9.     105.      57.   3044.90
      .54     6.42    13.68     4.17     .060     .050     .060     .000  3042.70  9984.14
    18434     970.     950.     930.       20       11        0      .00    29.36 10013.50


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.22  3165.52  3165.52      .00  3166.38      .86    24.40      .17  3165.40
    1494.       0.    1286.     208.       0.     173.      27.     109.      59.   3161.40
      .58      .05     7.41     7.61     .060     .055     .060     .000  3161.30  9907.34
  .038251     960.     950.     940.       20       11        0      .00   117.59 10029.84


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     4.71  3274.81  3274.81      .00  3276.61     1.80    23.80      .28  3270.60
    1494.      88.     1264.     142.      16.     111.      24.     112.      61.   3270.20
      .60     5.50     11.44     6.00     .060     .050     .060     .000  3270.10  9989.40
  .021832     840.      840.     840.       20        8        0      .00    44.03 10033.43


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.04  3329.84  3329.84      .00  3331.18     1.34    11.85      .05  3327.20
    1494.     429.      793.     272.      61.      72.      44.     114.      61.   3326.70
      .62     7.07     11.07     6.20     .060     .050     .060     .000  3324.80  9957.29
  .022953     520.      530.     540.       20        8        0      .00    66.42 10023.71
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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                                                      2243.70

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                -1
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 2030.000     4.70  2243.70      .00  2243.70  2244.20      .50      .00      .00  2239.30
    4047.     130.    3789.     128.      38.     654.      44.       0.       0.   2240.30
      .00     3.41     5.79     2.92     .050     .040     .050     .000  2239.00  9856.93
  .004801       0.       0.       0.        0        0        0      .00   236.37 10093.30


*SECNO 2070.000

3   HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     4.30  2249.80  2249.80      .00  2251.29     1.49     1.52      .30  2246.50
    4047.     139.    3903.       5.      28.     392.       2.       3.       1.   2248.50
      .01     5.02     9.94     2.59     .045     .035     .045     .000  2245.50  9926.76
  .012175     210.     210.     210.       20       12        0      .00   145.91 10072.67


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     3.91  2259.21  2259.21      .00  2259.92      .71     8.28      .08  2256.60
    4047.      63.    3888.      96.      10.     572.      19.       9.       4.   2257.40
      .03     6.10     6.80     5.09     .036     .042     .045     .000  2255.30  9930.70
  .020843     520.     530.     480.       16       10        0      .00   398.06 10374.09
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```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     5.44  2272.24  2272.24      .00  2273.25     1.01     5.19      .09  2268.20
    4047.     832.    3114.     101.     263.     346.      18.      16.       8.   2266.80
      .05     3.16     8.99     5.49     .043     .035     .035     .000  2266.80  9683.86
  .006621     470.     480.     480.        7       11        0      .00   336.77 10118.75


1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     3.81  2277.01  2277.01      .00  2278.33     1.32     2.23      .09  2276.00
    4047.       41.    3964.       42.      13.     426.       9.      19.      10.   2273.60
      .05     3.26     9.30     4.54     .035     .035     .045     .000  2273.20  9941.63
  .011580     260.     260.     260.       20       16        0      .00   173.93 10115.56


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE FROM CP 35A.
 2400.000     4.56  2289.96  2289.96      .00  2290.95      .99     6.94      .03  2287.30
    2992.     252.    2702.       38.      40.     333.       6.      24.      12.   2287.60
      .07     6.31     8.12     6.35     .045     .041     .035     .000  2285.40  9747.23
  .020407     490.     480.     470.       20       11        0      .00   205.91 10020.01


1490 NH CARD USED
*SECNO 2470.000
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:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2470.000	4.25	2301.25	2301.25	.00	2302.31	1.06	5.58	.02	2301.00
2992.	0.	2911.	81.	0.	348.	34.	27.	14.	2297.00
.08	.05	8.35	2.42	.035	.035	.042	.000	2297.00	9915.42
.011588	370.	370.	370.	18	11	0	.00	208.94	10355.74

1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.000	4.29	2317.99	2317.99	.00	2318.92	.93	8.16	.01	2317.00
.992.	209.	2783.	0.	48.	351.	0.	32.	16.	2318.70
.10	4.40	7.93	.00	.045	.040	.000	.000	2313.70	9936.02
.017439	580.	580.	580.	20	5	0	.00	217.59	10153.78

1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2650.000	4.38	2330.38	2330.38	.00	2331.23	.85	7.15	.01	2326.00
2992.	142.	2850.	0.	17.	387.	0.	35.	18.	2332.00
.12	8.38	7.36	.00	.040	.040	.000	.000	2326.00	9895.67
.021536	370.	370.	370.	19	8	0	.00	253.20	10148.87

1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2720.000	2.70	2344.50	2344.50	.00	2345.18	.69	9.62	.02	2344.00
2992.	0.	2984.	8.	0.	448.	4.	39.	21.	2344.00
.13	1.92	6.65	2.09	.045	.044	.045	.000	2341.80	9981.10
.025670	410.	410.	410.	13	14	0	.00	348.46	10329.56

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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     3.82  2354.62  2354.62      .00  2355.50      .88     7.01      .06  2355.80
    2992.       0.     1104.    1888.       0.     139.     259.      42.      23.   2354.10
      .14      .00      7.92     7.28     .000     .035     .055     .000  2350.80  9967.09
  .024435     280.     280.     280.       14       14        0      .00   246.59 10264.90


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .18 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     5.58  2365.98  2365.98      .00  2367.44     1.45     5.06      .17  2364.60
    2992.     491.     2501.       0.     66.     249.     396.      47.      26.   2366.50
      .16     7.42     10.05      .00    .030     .030  999.000     .000  2360.40  9913.54
  .008731     370.     370.     370.        2       14        0      .00   351.15 10889.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     5.14  2387.64  2387.64      .00  2388.27      .63     5.54      .08  2386.40
    2992.      34.      583.    2375.      12.     156.     344.      56.      31.   2387.60
      .18     2.87      3.74     6.90    .035     .035     .037     .000  2382.50  9680.69
  .008722     635.     635.     635.       20       10        0      .00   358.76 10493.35
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     5.13  2414.43  2414.43      .00  2415.36      .92     5.86      .09  2415.40
    2992.     1057.    1935.       0.     231.     215.     591.      67.      38.   2416.10
      .21      4.57     8.98      .00     .050     .030  999.000     .000  2409.30  9738.27
  .009772     635.     635.     635.       20        5        0      .00   623.05 10717.51


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.50  2431.50  2431.50      .00  2432.77     1.27     4.45      .10  2432.00
     992.       0.    2966.      26.       0.     326.      16.      74.      42.   2431.00
      .22      .00     9.10     1.70     .000     .035     .050     .000  2426.00  9964.32
  .011624     410.     420.     430.       20        8        0      .00   157.40 10121.72


*SECNO 3290.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.46  2457.56  2457.56      .00  2458.34      .77     9.18      .05  2456.80
    1714.       8.    1384.     322.       3.     215.      35.      78.      44.   2452.10
      .25     2.64     6.44     9.30     .045     .045     .045     .000  2452.10  9821.68
  .023252     630.     630.     630.       20        5        0      .00   168.82 10012.66


*SECNO 3390.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     5.50  2480.70  2480.70      .00  2481.68      .98    12.63      .06  2479.30
    1714.       5.    1709.       0.       1.     215.       0.      81.      46.  2481.20
      .26     3.57     7.95      .00     .045     .045     .000     .000  2475.20  9813.51
  .024446     530.     530.     530.       15        5        0      .00   112.27 10027.22


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.55  2501.25  2501.25      .00  2502.54     1.29    10.82      .09  2501.60
    1714.       0.    1710.       4.       0.     187.       2.      83.      47.  2500.30
      .28      .00     9.12     2.58     .000     .040     .045     .000  2496.70  9936.07
  .017314     460.     530.     490.       11       15        0      .00    75.99 10019.25


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     4.75  2519.65  2519.65      .00  2521.11     1.46     6.28      .05  2519.20
    1714.       0.    1713.       0.       0.     177.       0.      85.      48.  2519.20
      .29     1.34     9.70     1.34     .045     .035     .045     .000  2514.90  9967.04
  .013060     410.     420.     380.       20        8        0      .00    63.91 10035.77


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     3.68  2538.08  2538.08      .00  2539.25     1.17     5.62      .03  2536.10
    1714.      15.    1699.       0.       4.     195.       0.      87.      48.  2537.60
      .31     3.58     8.70     1.38     .045     .035     .045     .000  2534.40  9951.51
  .013727     400.     420.     440.       20       15        0      .00    89.18 10040.69
```

```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 W       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.42  2564.52  2564.52      .00  2565.15      .64    10.02      .05  2562.70
    1714.      70.    1626.      18.      13.      251.      4.      89.      50.   2562.70
      .33     5.23     6.47     4.93     .050     .050     .050     .000  2562.10  9818.59
  .035533     480.     480.     480.       20       23        0      .00   221.01 10039.60


*SECNO 3830.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.58  2585.98  2585.98      .00  2587.04     1.06    15.64      .13  2583.00
    1714.      29.    1685.       0.       5.      203.      0.      92.      52.   2587.00
      .34     5.58     8.29      .00     .050     .050     .000     .000  2581.40  9929.67
     0040     460.     480.     500.       20       17        0      .00   102.18 10031.85


*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     4.02  2613.52  2613.52      .00  2614.22      .69    15.82      .04  2613.60
    1714.       0.    1509.      205.       0.      233.     26.      95.      54.   2609.50
      .36      .00     6.48     7.92     .000     .050     .050     .000  2609.50  9906.90
  .029763     550.     530.     510.       14       10        0      .00   175.39 10088.26


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     6.72  2629.62  2629.62      .00  2631.66     2.05     7.33      .41  2622.90
    1714.     238.    1450.       26.      30.      120.      6.      96.      54.   2627.20
      .37     7.82    12.06     4.28     .050     .045     .050     .000  2622.90  9990.95
    18449     280.     320.     320.       18       14        0      .00    40.82 10031.78
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4070.000	10.11	2658.51	2658.51	.00	2661.07	2.57	8.94	.16	2658.70
1714.	0.	1714.	0.	0.	133.	0.	98.	55.	2658.30
.38	.00	12.85	.05	.000	.045	.050	.000	2648.40	9986.30
.025042	400.	420.	380.	20	14	0	.00	27.10	10013.40

*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4190.000	6.83	2701.93	2701.93	.00	2704.37	2.44	13.75	.01	2697.90
1714.	68.	1646.	0.	12.	129.	0.	100.	55.	2702.20
.40	5.77	12.73	.00	.050	.045	.000	.000	2695.10	9982.85
.019181	630.	630.	630.	20	14	0	.00	29.94	10012.79

*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4280.000	5.61	2733.11	2733.11	.00	2734.97	1.86	8.47	.06	2729.60
1714.	106.	1545.	62.	20.	136.	12.	102.	56.	2729.60
.41	5.36	11.38	5.12	.050	.045	.050	.000	2727.50	9972.39
.016291	470.	480.	500.	20	15	0	.00	48.53	10020.92

*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4380.000	6.97	2761.07	2761.07	.00	2762.96	1.89	10.25	.01	2759.10
1714.	14.	1610.	90.	4.	142.	18.	104.	56.	2758.00
.42	3.55	11.32	4.90	.060	.055	.060	.000	2754.10	9980.28
.023338	530.	530.	530.	20	11	0	.00	48.43	10028.71

```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 W       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     6.34  2775.84  2775.84      .00  2778.06     2.22     5.42      .10  2773.70
    1714.      29.    1685.       0.       7.     140.       0.     104.      56.   2775.90
      .43     4.24    12.04      .00     .060     .055     .000     .000  2769.50  9975.42
  .028729     230.     210.     200.       20       11        0      .00    35.54 10010.96


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     6.05  2789.15  2789.15      .00  2791.47     2.32     5.32      .03  2784.80
    1714.      60.    1565.      90.      11.     123.      16.     105.      57.   2783.10
      .43     5.24    12.69     5.43     .060     .055     .060     .000  2783.10  9983.08
  .022589     190.     210.     210.       20        8        0      .00    34.47 10017.55

 .O 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.94  2839.34  2839.34      .00  2840.93     1.59    15.12      .07  2835.90
    1714.     271.    1428.      15.      55.     131.       5.     108.      57.   2835.60
      .45     4.94    10.88     3.26     .060     .050     .060     .000  2833.40  9953.21
  .016433     790.     790.     790.       20        8        0      .00    61.70 10014.91


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.38  2895.08  2895.08      .00  2896.50     1.42    16.72      .02  2888.80
    1714.     310.    1180.     224.      50.     108.      57.     113.      59.   2892.00
      .49     6.21    10.95     3.90     .060     .050     .060     .000  2888.70  9936.40
  .015063    1090.    1060.    1030.       20        8        0      .00    79.26 10015.66
```

:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4990.000	9.12	2959.42	2959.42	.00	2962.19	2.78	15.36	.41	2952.70
1714.	145.	1337.	231.	24.	91.	35.	117.	60.	2952.50
.51	5.96	14.76	6.58	.060	.050	.060	.000	2950.30	9992.75
.017401	930.	950.	970.	20	11	0	.00	28.82	10021.57

*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5170.000	8.06	3050.76	3050.76	.00	3053.25	2.49	15.86	.03	3043.90
1714.	258.	1402.	54.	40.	102.	13.	120.	61.	3044.90
.53	6.49	13.70	4.26	.060	.050	.060	.000	3042.70	9982.89
.6003	970.	950.	930.	20	11	0	.00	32.28	10015.17

*SECNO 5350.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5350.000	4.39	3165.69	3165.69	.00	3166.63	.94	22.45	.16	3165.40
1714.	0.	1483.	231.	0.	191.	30.	124.	63.	3161.40
.56	1.31	7.77	7.82	.060	.055	.060	.000	3161.30	9906.72
.038366	960.	950.	940.	20	11	0	.00	121.69	10030.37

*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

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 :NO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     5.09  3275.19  3275.19      .00  3277.12     1.93    23.31      .30  3270.60
    1714.     109.     1433.     172.      19.     121.      28.     128.      64.   3270.20
      .58     5.72     11.89     6.21     .060     .050     .060     .000  3270.10  9988.70
  .020996     840.      840.     840.       20        8        0      .00    45.57 10034.28


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.31  3330.11  3330.11      .00  3331.55     1.44    11.58      .05  3327.20
    1714.     501.      884.     330.      68.      77.      51.     130.      65.   3326.70
      .60     7.41     11.53     6.53     .060     .050     .060     .000  3324.80  9956.45
  .022797     520.      530.     540.       20        8        0      .00    68.73 10025.18
```

T1 FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2 500-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH (OCEAST.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		5							2244.50	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 2030.000     5.50  2244.50      .00  2244.50  2245.00      .50      .00      .00  2239.30
    5109.     177.    4719.     214.      53.     809.      65.       0.       0.   2240.30
      .00     3.33     5.84     3.26     .050     .040     .050     .000  2239.00  9853.79
  .003668       0.       0.       0.        0        0        0      .00   241.98 10095.77


*SECNO 2070.000

 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     4.84  2250.34  2250.34      .00  2252.04     1.70     1.25      .36  2246.50
    5109.     200.    4896.      13.      37.     461.       4.       3.       1.   2248.50
      .01     5.34    10.63     3.14     .045     .035     .045     .000  2245.50  9924.01
  .011240     210.     210.     210.       20        8        0      .00   149.97 10073.99


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     4.16  2259.46  2259.46      .00  2260.29      .83     7.79      .09  2256.60
    5109.      82.    4894.     133.      13.     663.      24.      11.       4.   2257.40
      .03     6.25     7.38     5.60     .036     .042     .045     .000  2255.30  9930.13
  .020145     520.     530.     480.       16       10        0      .00   401.34 10375.74
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     5.84  2272.64  2272.64      .00  2273.73     1.09     5.18      .08  2268.20
    5109.    1337.    3646.     126.     360.     379.      23.      19.       8.   2266.80
      .04     3.71     9.63     5.42     .043     .035     .035     .000  2266.80  9678.45
  .006733     470.     480.     480.       12       11        0      .00   346.66 10120.87


1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     4.26  2277.46  2277.46      .00  2278.99     1.53     2.22      .13  2276.00
     109.      103.    4948.      58.      23.     492.      12.      23.      10.   2273.60
      .05     4.46    10.05     4.85     .035     .035     .045     .000  2273.20  9938.47
  .011162     260.     260.     260.       20       15        0      .00   177.80 10116.28


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE FROM CP 35A.
 2400.000     4.94  2290.34  2290.34      .00  2291.34     1.00     6.47      .05  2287.30
    3667.     343.    3270.      54.      53.     398.       9.      28.      12.   2287.60
      .07     6.54     8.21     6.31     .045     .041     .035     .000  2285.40  9742.61
  .018094     490.     480.     470.       20       11        0      .00   230.81 10141.23
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2470.000     4.59  2301.59  2301.59      .00  2302.75     1.16     5.12      .05  2301.00
    3667.       1.    3495.     171.       1.     396.      58.      32.      14.   2297.00
      .08     1.90     8.83     2.98     .035     .035     .044     .000  2297.00  9914.36
  .010918     370.     370.     370.       20       11        0      .00   218.39 10357.99


1490 NH CARD USED
*SECNO 2580.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     4.57  2318.27  2318.27      .00  2319.32     1.05     7.87      .01  2317.00
    3667.     302.    3365.       0.      62.     398.       0.      38.      17.   2318.70
      .10     4.88     8.47      .00     .045     .040     .000     .000  2313.70  9930.46
  .017313     580.     580.     580.       20        5        0      .00   226.86 10157.32


1490 NH CARD USED
*SECNO 2650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2650.000     4.68  2330.68  2330.68      .00  2331.58      .90     6.73      .01  2326.00
    3667.     159.    3508.       0.      19.     462.       0.      42.      19.   2332.00
      .11     8.26     7.59      .00     .040     .040     .000     .000  2326.00  9895.14
  .019156     370.     370.     370.       20        5        0      .00   264.27 10159.42


1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2720.000     2.90  2344.70  2344.70      .00  2345.47      .78     8.81      .01  2344.00
    3667.       1.    3648.       18.      0.     515.       7.      47.      22.   2344.00
      .13     2.33     7.08     2.55     .045     .044     .045     .000  2341.80  9980.74
  .024296     410.     410.     410.       14       14        0      .00   354.65 10335.39
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 -        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     4.08  2354.88  2354.88      .00  2355.86      .98     6.64      .06  2355.80
    3667.       0.     1447.     2220.       0.      167.     297.      50.      24.   2354.10
      .14      .00      8.64      7.46     .000      .035     .055     .000  2350.80  9965.67
  .023177     280.      280.      280.       17        14        0      .00   259.07 10266.18


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .60 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     6.00  2366.40  2366.40      .00  2368.05     1.65     4.91      .20  2364.60
    3667.     661.     3006.       0.      80.      281.     512.      56.      27.   2366.50
      .15     8.26     10.71      .00     .030      .030  999.000     .000  2360.40  9912.90
  .008577     370.      370.      370.       11        14        0      .00   462.76 10889.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     5.29  2387.79  2387.79      .00  2388.55      .76     5.95      .09  2386.40
    3667.      51.      783.     2833.      15.      183.     371.      66.      33.   2387.60
      .17     3.37      4.28      7.64     .035      .035     .037     .000  2382.50  9678.30
  .010273     635.      635.      635.       20         9        0      .00   386.98 10494.06
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     5.44  2414.74  2414.74      .00  2415.73      .99     6.61      .07  2415.40
    3667.    1396.    2271.       0.     275.     244.     721.      79.      41.   2416.10
      .20     5.08     9.33      .00     .050     .030  999.000     .000  2409.30  9734.27
  .010564     635.     635.     635.        5        8        0      .00   669.92 10721.24


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.91  2431.91  2431.91      .00  2433.30     1.39     4.49      .12  2432.00
    3667.       0.    3579.      88.       0.     374.      34.      87.      45.   2431.00
      .21      .00     9.56     2.59     .000     .035     .050     .000  2426.00  9962.42
  .010925     410.     420.     430.       20        8        0      .00   164.52 10126.94


*SECNO 3290.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.79  2457.89  2457.89      .00  2458.64      .76     8.37      .06  2456.80
    2099.      19.    1735.     345.       6.     264.      39.      92.      48.   2452.10
      .23     3.08     6.58     8.90     .045     .045     .045     .000  2452.10  9818.36
  .019758     630.     630.     630.       20        6        0      .00   180.48 10013.41


*SECNO 3390.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     5.88  2481.08  2481.08      .00  2482.08     1.00    11.49      .07  2479.30
    2099.       9.    2090.       0.       2.     260.       0.      96.      49.   2481.20
      .25     4.13     8.05      .00     .045     .045     .000     .000  2475.20  9812.98
  .023885     530.     530.     530.       20        5        0      .00   131.31 10031.28


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.97  2501.67  2501.67      .00  2503.07     1.40    10.59      .12  2501.60
    2099.       0.    2087.      12.       0.     219.       4.      99.      51.   2500.30
      .27      .04     9.52     3.27     .045     .040     .045     .000  2496.70  9933.34
  .016968     460.     530.     490.       12       15        0      .00    83.55 10020.87


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     5.20  2520.10  2520.10      .00  2521.72     1.62     6.06      .06  2519.20
    2099.       2.    2094.       2.       1.     205.       1.     101.      51.   2519.20
      .28     2.08    10.21     2.08     .045     .035     .045     .000  2514.90  9965.77
  .012416     410.     420.     380.       20        8        0      .00    68.37 10037.05


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     4.02  2538.42  2538.42      .00  2539.75     1.32     5.33      .03  2536.10
    2099.      22.    2076.       1.       6.     224.       1.     103.      52.   2537.60
      .29     3.88     9.27     1.91     .045     .035     .045     .000  2534.40  9950.81
  .012993     400.     420.     440.       20       15        0      .00    90.52 10041.33
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3740.000	2.61	2564.71	2564.71	.00	2565.42	.71	9.40	.06	2562.70
2099.	88.	1989.	23.	16.	290.	4.	106.	54.	2562.70
.31	5.37	6.85	5.07	.050	.050	.050	.000	2562.10	9817.02
.032801	480.	480.	480.	20	14	0	.00	223.01	10040.03

*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3830.000	4.90	2586.30	2586.30	.00	2587.48	1.18	14.87	.14	2583.00
2099.	37.	2062.	0.	6.	235.	0.	109.	56.	2587.00
.33	5.90	8.76	.00	.050	.050	.000	.000	2581.40	9929.30
[illegible]9355	460.	480.	500.	14	17	0	.00	107.08	10036.38

*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3930.000	4.23	2613.73	2613.73	.00	2614.52	.79	15.62	.04	2613.60
2099.	0.	1864.	235.	0.	268.	29.	112.	58.	2609.50
.35	.05	6.97	8.18	.050	.050	.050	.000	2609.50	9904.04
.029687	550.	530.	510.	15	10	0	.00	181.56	10088.94

*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3990.000	7.33	2630.23	2630.23	.00	2632.53	2.31	7.16	.46	2622.90
2099.	294.	1758.	47.	36.	137.	10.	114.	58.	2627.20
.35	8.13	12.87	4.87	.050	.045	.050	.000	2622.90	9990.13
[illegible]17727	280.	320.	320.	20	17	0	.00	42.93	10033.06

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4070.000	10.86	2659.26	2659.26	.00	2662.15	2.88	8.53	.17	2658.70
2099.	0.	2096.	2.	0.	154.	1.	116.	59.	2658.30
.36	1.72	13.64	2.60	.050	.045	.050	.000	2648.40	9985.10
.023727	400.	420.	380.	20	14	0	.00	29.76	10014.87

*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4190.000	7.57	2702.67	2702.67	.00	2705.40	2.73	13.15	.02	2697.90
2099.	105.	1994.	0.	17.	147.	0.	118.	59.	2702.20
.38	6.34	13.53	1.49	.050	.045	.050	.000	2695.10	9981.77
.018501	630.	630.	630.	20	19	0	.00	32.64	10014.41

*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4280.000	6.20	2733.70	2733.70	.00	2735.75	2.05	8.12	.07	2729.60
2099.	157.	1851.	92.	27.	153.	17.	120.	60.	2729.60
.39	5.79	12.06	5.53	.050	.045	.050	.000	2727.50	9970.51
.015532	470.	480.	500.	20	15	0	.00	51.56	10022.07

*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4380.000	7.60	2761.70	2761.70	.00	2763.74	2.04	9.69	.00	2759.10
2099.	30.	1913.	155.	7.	161.	29.	122.	60.	2758.00
.40	4.55	11.89	5.32	.060	.055	.060	.000	2754.10	9979.21
.021816	530.	530.	530.	20	11	0	.00	53.69	10032.89

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     7.05  2776.55  2776.55     .00  2778.99     2.44     5.05      .12  2773.70
    2099.      59.     2040.      1.     12.     161.      0.     123.      60.   2775.90
      .41     4.93     12.69     1.70   .060     .055    .060     .000  2769.50  9973.35
  .026596     230.      210.     200.     20       11       0      .00    38.65 10011.99


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     6.79  2789.89  2789.89     .00  2792.47     2.58     5.00      .04  2784.80
    2099.      88.     1881.    130.     16.     140.     22.     124.      61.   2783.10
      .41     5.68     13.47     5.86   .060     .055    .060     .000  2783.10  9982.20
  .021560     190.      210.     210.     20        8       0      .00    36.53 10018.73


*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     6.45  2839.85  2839.85     .00  2841.60     1.75    14.73      .08  2835.90
    2099.     402.     1676.     21.     73.     145.      6.     128.      62.   2835.60
      .43     5.53     11.57     3.53   .060     .050    .060     .000  2833.40  9947.93
  .016293     790.      790.     790.     20       11       0      .00    67.32 10015.25


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.82  2895.52  2895.52     .00  2897.08     1.56    16.83      .02  2888.80
    2099.     377.     1366.    356.     57.     117.     77.     134.      63.   2892.00
      .46     6.57     11.69     4.63   .060     .050    .060     .000  2888.70  9935.26
  .015401    1090.     1060.    1030.     20        8       0      .00    80.98 10016.25
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000    10.00  2960.30  2960.30      .00  2963.37     3.07    15.44      .45  2952.70
    2099.     200.    1582.     316.      31.     101.      45.     138.      65.   2952.50
      .48     6.43    15.72     7.08     .060     .050     .060     .000  2950.30  9991.79
  .017167     930.     950.     970.       20       14        0      .00    31.06 10022.86


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     8.88  3051.58  3051.58      .00  3054.29     2.71    15.46      .04  3043.90
    2099.     363.    1650.      86.      50.     114.      19.     142.      65.   3044.90
      .50     7.26    14.47     4.62     .060     .050     .060     .000  3042.70  9981.45
    .5431     970.     950.     930.       20       11        0      .00    35.57 10017.02


*SECNO 5350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.64  3165.94  3165.94      .00  3167.02     1.08    21.92      .16  3165.40
    2099.       1.    1829.     269.       1.     218.      33.     147.      67.   3161.40
      .53     1.99     8.37     8.11     .060     .055     .060     .000  3161.30  9905.78
  .038193     960.     950.     940.       20       11        0      .00   125.41 10031.19


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 5510.000     5.68  3275.78  3275.78      .00  3277.95     2.17    22.87      .33  3270.60
    2099.     148.     1724.     227.     24.     136.     35.     151.     69.   3270.20
      .55     6.10     12.68     6.59    .060     .050    .060     .000  3270.10  9987.65
  .020378     840.      840.     840.      20       11       0      .00    47.93 10035.57


*SECNO 5610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.79  3330.59  3330.59      .00  3332.15     1.56    11.14      .06  3327.20
    2099.     628.     1032.     439.     80.      85.     63.     154.     70.   3326.70
      .57     7.83     12.09     6.93    .060     .050    .060     .000  3324.80  9954.96
  .021722     520.      530.     540.      20        5       0      .00    72.81 10027.77
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THIS RUN EXECUTED 2/26/90 15:57:47

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -

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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2030.000	2242.66	2274.00	3.66	2.99	4.76	2.40	66.31	2156.97	50.72	224.40	52.93	.00
	2030.000	2243.47	3445.00	4.47	3.16	5.31	2.67	107.85	3235.27	101.88	233.73	44.25	.00
	2030.000	2243.70	4047.00	4.70	3.41	5.79	2.92	129.64	3789.45	127.91	236.37	48.01	.00
	2030.000	2244.50	5109.00	5.50	3.33	5.84	3.26	176.92	4718.50	213.58	241.98	36.68	.00
*	2070.000	2248.75	2274.00	3.25	4.13	8.43	.04	53.18	2220.81	.00	130.62	137.04	6.09
*	2070.000	2249.47	3445.00	3.97	4.81	9.49	2.19	107.69	3334.79	2.52	143.17	128.18	6.00
*	2070.000	2249.80	4047.00	4.30	5.02	9.94	2.59	138.61	3903.06	5.33	145.91	121.75	6.10
*	2070.000	2250.34	5109.00	4.84	5.34	10.63	3.14	199.63	4896.40	12.96	149.97	112.40	5.84
*	2170.000	2258.70	2274.00	3.40	5.97	5.67	3.80	35.15	2200.25	38.59	379.48	233.60	9.95
*	2170.000	2259.05	3445.00	3.75	6.10	6.48	4.78	53.19	3316.05	75.76	395.91	219.55	9.57
*	2170.000	2259.21	4047.00	3.91	6.10	6.80	5.09	63.08	3887.99	95.92	398.06	208.43	9.41
*	2170.000	2259.46	5109.00	4.16	6.25	7.38	5.60	82.05	4894.24	132.70	401.34	201.45	9.12
*	2260.000	2270.82	2274.00	4.02	3.91	9.12	6.17	125.57	2088.49	59.93	123.87	118.05	12.12
*	2260.000	2272.00	3445.00	5.20	2.82	8.54	5.40	572.73	2784.31	87.96	330.57	64.76	12.95
*	2260.000	2272.24	4047.00	5.44	3.16	8.99	5.49	831.65	3114.21	101.13	336.77	66.21	13.03
*	2260.000	2272.64	5109.00	5.84	3.71	9.63	5.42	1337.18	3645.75	126.06	346.66	67.33	13.18
*	2310.000	2276.03	2274.00	2.83	.05	7.97	4.09	.00	2254.65	19.35	151.42	147.02	5.21
*	2310.000	2276.69	3445.00	3.49	2.34	8.96	4.43	14.06	3397.11	33.83	169.11	125.80	4.69
*	2310.000	2277.01	4047.00	3.81	3.26	9.30	4.54	40.85	3963.87	42.28	173.93	115.80	4.77
*	2310.000	2277.46	5109.00	4.26	4.46	10.05	4.85	102.97	4948.23	57.79	177.80	111.62	4.82
*	2400.000	2289.23	1652.00	3.83	4.90	7.05	5.12	99.40	1537.85	14.75	169.29	217.31	13.20
*	2400.000	2289.73	2499.00	4.33	5.87	7.72	5.92	194.03	2275.77	29.20	194.47	202.95	13.05
*	2400.000	2289.96	2992.00	4.56	6.31	8.12	6.35	251.91	2701.70	38.40	205.91	204.07	12.95
*	2400.000	2290.34	3667.00	4.94	6.54	8.21	6.31	343.26	3269.92	53.81	230.81	180.94	12.88
*	2470.000	2300.27	1652.00	3.27	.00	7.60	4.45	.00	1639.46	12.54	128.76	158.13	11.04
*	2470.000	2300.92	2499.00	3.92	.00	8.16	2.37	.00	2463.86	35.14	182.84	132.00	11.19
*	2470.000	2301.25	2992.00	4.25	.05	8.35	2.42	.00	2910.89	81.10	208.94	115.88	11.29
*	2470.000	2301.59	3667.00	4.59	1.90	8.83	2.98	1.02	3494.59	171.39	218.39	109.18	11.25

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2580.000	2317.19	1652.00	3.49	2.60	7.08	.00	37.54	1614.46	.00	167.32	183.31	16.91
*	2580.000	2317.73	2499.00	4.03	3.91	7.66	.00	138.40	2360.59	.00	201.50	176.95	16.81
*	2580.000	2317.99	2992.00	4.29	4.40	7.93	.00	209.30	2782.70	.00	217.59	174.39	16.74
*	2580.000	2318.27	3667.00	4.57	4.88	8.47	.00	301.54	3365.46	.00	226.86	173.13	16.68
*	2650.000	2329.76	1652.00	3.76	7.76	6.34	.00	96.97	1555.03	.00	207.99	226.25	12.58
*	2650.000	2330.17	2499.00	4.17	8.32	7.03	.00	127.94	2371.06	.00	245.55	226.54	12.44
*	2650.000	2330.38	2992.00	4.38	8.38	7.36	.00	141.83	2850.17	.00	253.20	215.36	12.39
*	2650.000	2330.68	3667.00	4.68	8.26	7.59	.00	159.43	3507.56	.00	264.27	191.56	12.41
*	2720.000	2344.04	1652.00	2.24	.06	5.57	.06	.00	1652.00	.00	334.32	306.41	14.28
*	2720.000	2344.34	2499.00	2.54	1.53	6.32	1.67	.16	2496.06	2.78	343.48	273.01	14.16
*	2720.000	2344.50	2992.00	2.70	1.92	6.65	2.09	.43	2983.98	7.59	348.46	256.70	14.12
*	2720.000	2344.70	3667.00	2.90	2.33	7.08	2.55	1.03	3647.84	18.13	354.65	242.96	14.02
*	2780.000	2354.05	1652.00	3.25	.00	5.68	6.44	.00	454.18	1197.82	219.55	242.83	10.01
*	2780.000	2354.46	2499.00	3.66	.00	7.14	6.88	.00	869.37	1629.63	238.74	234.61	10.12
*	2780.000	2354.62	2992.00	3.82	.00	7.92	7.28	.00	1103.61	1888.38	246.59	244.35	10.12
*	2780.000	2354.88	3667.00	4.08	.00	8.64	7.46	.00	1447.02	2219.98	259.07	231.77	10.19
*	2850.000	2365.02	1652.00	4.62	5.09	8.38	.00	176.91	1475.04	.05	271.49	92.31	10.96
*	2850.000	2365.65	2499.00	5.25	6.71	9.54	.00	369.25	2129.67	.08	313.33	89.58	11.19
*	2850.000	2365.98	2992.00	5.58	7.42	10.05	.00	490.59	2501.31	.10	351.15	87.31	11.36
*	2850.000	2366.40	3667.00	6.00	8.26	10.71	.00	661.26	3005.61	.13	462.76	85.77	11.52
*	2970.000	2386.87	1652.00	4.37	1.61	3.01	6.57	2.82	168.22	1480.96	241.96	98.30	21.86
*	2970.000	2387.39	2499.00	4.89	2.53	3.50	6.81	19.46	411.21	2068.33	321.17	90.68	21.75
*	2970.000	2387.64	2992.00	5.14	2.87	3.74	6.90	34.29	582.68	2375.03	358.76	87.22	21.65
*	2970.000	2387.79	3667.00	5.29	3.37	4.28	7.64	50.81	783.02	2833.17	386.98	102.73	21.39
*	3090.000	2413.45	1652.00	4.15	3.40	8.46	.00	399.73	1252.20	.07	385.95	91.39	26.58
*	3090.000	2414.16	2499.00	4.86	4.13	8.73	.00	809.64	1689.25	.11	566.87	90.12	26.77
*	3090.000	2414.43	2992.00	5.13	4.57	8.98	.00	1057.10	1934.75	.15	623.05	97.72	26.80
*	3090.000	2414.74	3667.00	5.44	5.08	9.33	.00	1395.68	2271.13	.19	669.92	105.64	26.95
*	3170.000	2430.33	1652.00	4.33	.00	8.28	.00	.00	1652.00	.00	96.59	145.85	16.88
*	3170.000	2431.11	2499.00	5.11	.00	8.85	.51	.00	2498.37	.63	135.73	130.51	16.96
*	3170.000	2431.50	2992.00	5.50	.00	9.10	1.70	.00	2965.60	26.40	157.40	116.24	17.06
*	3170.000	2431.91	3667.00	5.91	.00	9.56	2.59	.00	3579.17	87.83	164.52	109.25	17.17
*	3290.000	2457.05	1029.00	4.95	1.28	5.45	8.87	.41	776.82	251.77	143.83	241.64	26.71
*	3290.000	2457.38	1494.00	5.28	2.30	6.27	9.48	4.08	1183.33	306.59	162.27	252.57	26.27
*	3290.000	2457.56	1714.00	5.46	2.64	6.44	9.30	8.01	1384.32	321.67	168.82	232.52	26.07
*	3290.000	2457.89	2099.00	5.79	3.08	6.58	8.90	18.78	1735.01	345.21	180.48	197.58	25.98
*	3390.000	2479.67	1029.00	4.47	.05	8.15	.00	.00	1028.99	.00	61.65	240.60	22.62
*	3390.000	2480.44	1494.00	5.24	3.14	7.97	.00	2.87	1491.13	.00	98.90	250.98	23.05
*	3390.000	2480.70	1714.00	5.50	3.57	7.95	.00	4.99	1709.01	.00	112.27	244.46	23.14
*	3390.000	2481.08	2099.00	5.88	4.13	8.05	.00	9.26	2089.74	.00	131.31	238.85	23.19

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3490.000	2500.24	1029.00	3.54	.00	8.42	.00	.00	1029.00	.00	56.29	186.10	20.57
*	3490.000	2500.96	1494.00	4.26	.00	8.93	2.05	.00	1492.29	1.71	70.32	177.09	20.52
*	3490.000	2501.25	1714.00	4.55	.00	9.12	2.58	.00	1709.53	4.47	75.99	173.14	20.54
*	3490.000	2501.67	2099.00	4.97	.04	9.52	3.27	.00	2087.20	11.80	83.55	169.68	20.59
*	3570.000	2518.68	1029.00	3.78	.00	8.55	.00	.00	1029.00	.00	53.86	141.79	18.45
*	3570.000	2519.37	1494.00	4.47	.04	9.36	.04	.00	1494.00	.00	61.16	135.45	18.41
*	3570.000	2519.65	1714.00	4.75	1.34	9.70	1.34	.38	1713.24	.38	63.91	130.60	18.40
*	3570.000	2520.10	2099.00	5.20	2.08	10.21	2.08	2.38	2094.21	2.41	68.37	124.16	18.44
*	3650.000	2537.39	1029.00	2.99	2.82	7.47	.00	4.82	1024.18	.00	82.63	151.04	18.70
*	3650.000	2537.88	1494.00	3.48	3.39	8.32	.04	11.07	1482.93	.00	88.39	141.98	18.51
*	3650.000	2538.08	1714.00	3.68	3.58	8.70	1.38	14.53	1699.17	.30	89.18	137.27	18.43
*	3650.000	2538.42	2099.00	4.02	3.88	9.27	1.91	21.55	2076.25	1.20	90.52	129.93	18.32
*	3740.000	2564.21	1029.00	2.11	4.47	5.18	4.22	41.09	977.35	10.55	217.83	333.39	26.82
*	3740.000	2564.41	1494.00	2.31	5.09	6.18	4.81	60.16	1418.39	15.45	219.90	366.47	26.53
*	3740.000	2564.52	1714.00	2.42	5.23	6.47	4.93	69.80	1626.26	17.93	221.01	355.33	26.43
*	3740.000	2564.71	2099.00	2.61	5.37	6.85	5.07	87.84	1988.59	22.57	223.01	328.01	26.29
*	3830.000	2585.29	1029.00	3.89	4.98	7.32	.00	15.07	1013.93	.00	91.48	339.93	21.09
*	3830.000	2585.77	1494.00	4.37	5.42	8.04	.00	23.98	1470.01	.00	98.93	312.34	21.37
*	3830.000	2585.98	1714.00	4.58	5.58	8.29	.00	28.59	1685.41	.00	102.18	300.40	21.47
*	3830.000	2586.30	2099.00	4.90	5.90	8.76	.00	36.96	2062.04	.00	107.08	293.55	21.59
*	3930.000	2612.78	1029.00	3.28	.00	6.93	7.41	.00	901.63	127.37	101.42	342.74	27.48
*	3930.000	2613.38	1494.00	3.88	.00	6.22	7.75	.00	1307.30	186.70	169.11	298.39	27.61
*	3930.000	2613.52	1714.00	4.02	.00	6.48	7.92	.00	1508.99	205.01	175.39	297.63	27.54
*	3930.000	2613.73	2099.00	4.23	.05	6.97	8.18	.00	1864.48	234.52	181.56	296.87	27.43
*	3990.000	2628.28	1029.00	5.38	7.37	10.42	2.73	143.74	881.89	3.37	36.23	219.82	15.50
*	3990.000	2629.20	1494.00	6.30	7.71	11.63	3.88	206.40	1271.21	16.39	39.40	195.12	15.82
*	3990.000	2629.62	1714.00	6.72	7.82	12.06	4.28	237.58	1450.19	26.22	40.82	184.49	16.09
*	3990.000	2630.23	2099.00	7.33	8.13	12.87	4.87	293.92	1758.11	46.96	42.93	177.27	16.49
*	4070.000	2656.67	1029.00	8.27	.00	11.61	.00	.00	1029.00	.00	21.82	270.47	28.39
*	4070.000	2657.98	1494.00	9.58	.00	12.48	.00	.00	1494.00	.00	25.40	256.30	28.78
*	4070.000	2658.51	1714.00	10.11	.00	12.85	.05	.00	1714.00	.00	27.10	250.42	28.89
*	4070.000	2659.26	2099.00	10.86	1.72	13.64	2.60	.38	2096.29	2.33	29.76	237.27	29.03
*	4190.000	2700.29	1029.00	5.19	4.28	11.13	.00	17.78	1011.22	.00	26.28	211.27	43.62
*	4190.000	2701.44	1494.00	6.34	5.36	12.29	.00	48.78	1445.22	.00	28.85	196.96	43.46
*	4190.000	2701.93	1714.00	6.83	5.77	12.73	.00	68.05	1645.95	.00	29.94	191.81	43.42
*	4190.000	2702.67	2099.00	7.57	6.34	13.53	1.49	104.99	1993.51	.50	32.64	185.01	43.41
*	4280.000	2731.89	1029.00	4.39	4.30	9.84	4.11	36.31	971.46	21.23	42.18	186.33	31.60
*	4280.000	2732.75	1494.00	5.25	5.07	10.95	4.84	80.87	1365.85	47.28	46.64	168.69	31.31
*	4280.000	2733.11	1714.00	5.61	5.36	11.38	5.12	106.34	1545.47	62.18	48.53	162.91	31.18
*	4280.000	2733.70	2099.00	6.20	5.79	12.06	5.53	156.51	1850.98	91.51	51.56	155.32	31.02

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	4380.000	2759.64	1029.00	5.54	1.67	10.13	3.81	.49	1013.72	14.78	36.20	298.74	27.75
*	4380.000	2760.63	1494.00	6.53	3.06	11.04	4.65	7.19	1428.41	58.40	44.71	252.16	27.88
*	4380.000	2761.07	1714.00	6.97	3.55	11.32	4.90	13.77	1609.97	90.26	48.43	233.38	27.96
*	4380.000	2761.70	2099.00	7.60	4.55	11.89	5.32	30.48	1913.18	155.34	53.69	218.16	28.00
*	4420.000	2774.38	1029.00	4.88	2.10	10.50	.00	1.43	1027.57	.00	30.22	326.19	14.74
*	4420.000	2775.42	1494.00	5.92	3.70	11.60	.00	15.96	1478.04	.00	33.98	295.36	14.78
*	4420.000	2775.84	1714.00	6.34	4.24	12.04	.00	28.55	1685.45	.00	35.54	287.29	14.78
*	4420.000	2776.55	2099.00	7.05	4.93	12.69	1.70	58.83	2039.62	.55	38.65	265.96	14.85
*	4460.000	2787.59	1029.00	4.49	4.21	11.00	4.50	19.73	975.68	33.59	30.11	262.96	13.21
*	4460.000	2788.67	1494.00	5.57	4.98	12.27	5.18	44.65	1380.66	68.69	33.11	238.42	13.25
*	4460.000	2789.15	1714.00	6.05	5.24	12.69	5.43	59.56	1564.92	89.52	34.47	225.89	13.31
*	4460.000	2789.89	2099.00	6.79	5.68	13.47	5.86	88.25	1881.07	129.68	36.53	215.60	13.33
*	4610.000	2838.03	1029.00	4.63	3.66	9.84	2.72	76.65	946.98	5.37	48.00	203.14	50.43
*	4610.000	2839.00	1494.00	5.60	4.51	10.47	3.09	201.09	1280.92	11.99	58.02	167.18	50.34
*	4610.000	2839.34	1714.00	5.94	4.94	10.88	3.26	271.06	1427.69	15.25	61.70	164.33	50.18
*	4610.000	2839.85	2099.00	6.45	5.53	11.57	3.53	401.93	1675.71	21.36	67.32	162.93	49.96
*	4810.000	2893.65	1029.00	4.95	6.10	10.37	2.68	181.65	817.48	29.87	50.67	205.15	55.62
*	4810.000	2894.78	1494.00	6.08	5.99	10.50	3.44	271.28	1068.79	153.92	78.12	149.50	55.78
*	4810.000	2895.08	1714.00	6.38	6.21	10.95	3.90	309.70	1180.30	224.01	79.26	150.63	55.74
*	4810.000	2895.52	2099.00	6.82	6.57	11.69	4.63	376.54	1366.49	355.97	80.98	154.01	55.68
*	4990.000	2957.44	1029.00	7.14	4.96	12.80	5.52	60.01	870.24	98.75	23.77	191.67	63.79
*	4990.000	2958.83	1494.00	8.53	5.69	14.23	6.29	115.39	1193.41	185.21	27.32	179.09	64.05
*	4990.000	2959.42	1714.00	9.12	5.96	14.76	6.58	145.25	1337.33	231.42	28.82	174.01	64.34
*	4990.000	2960.30	2099.00	10.00	6.43	15.72	7.08	200.32	1582.36	316.32	31.06	171.67	64.77
*	5170.000	3048.70	1029.00	6.00	5.77	12.39	3.46	112.22	902.17	14.60	24.64	206.06	91.26
*	5170.000	3050.02	1494.00	7.32	6.42	13.68	4.17	203.42	1254.93	35.65	29.36	184.34	91.19
*	5170.000	3050.76	1714.00	8.06	6.49	13.70	4.26	258.23	1401.93	53.84	32.28	160.03	91.34
*	5170.000	3051.58	2099.00	8.88	7.26	14.47	4.62	362.74	1650.12	86.13	35.57	154.31	91.29
*	5350.000	3164.99	1029.00	3.69	.00	7.14	7.14	.00	880.99	148.00	93.05	405.10	116.29
*	5350.000	3165.52	1494.00	4.22	.05	7.41	7.61	.00	1286.14	207.86	117.59	382.51	115.50
*	5350.000	3165.69	1714.00	4.39	1.31	7.77	7.82	.20	1482.61	231.18	121.69	383.66	114.93
*	5350.000	3165.94	2099.00	4.64	1.99	8.37	8.11	1.09	1829.03	268.88	125.41	381.93	114.36
*	5510.000	3273.92	1029.00	3.82	4.93	10.26	5.47	49.20	895.71	84.10	40.46	240.70	108.93
*	5510.000	3274.81	1494.00	4.71	5.50	11.44	6.00	88.06	1264.36	141.58	44.03	218.32	109.29
*	5510.000	3275.19	1714.00	5.09	5.72	11.89	6.21	108.92	1433.29	171.78	45.57	209.96	109.50
*	5510.000	3275.78	2099.00	5.68	6.10	12.68	6.59	147.74	1723.85	227.42	47.93	203.78	109.84
*	5610.000	3329.21	1029.00	4.41	6.11	9.80	5.27	280.56	590.53	157.91	61.09	226.55	55.28
*	5610.000	3329.84	1494.00	5.04	7.07	11.07	6.20	429.27	793.16	271.57	66.42	229.53	55.03
*	5610.000	3330.11	1714.00	5.31	7.41	11.53	6.53	500.77	883.58	329.65	68.73	227.97	54.92
*	5610.000	3330.59	2099.00	5.79	7.83	12.09	6.93	627.94	1032.34	438.72	72.81	217.22	54.81

.LO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2030.000	.00	.00	.00	2239.00	2274.00	2242.66	.00	2243.00	52.93	4.76	496.18	312.57
	2030.000	.00	.00	.00	2239.00	3445.00	2243.47	.00	2243.89	44.25	5.31	681.73	517.87
	2030.000	.00	.00	.00	2239.00	4047.00	2243.70	.00	2244.20	48.01	5.79	735.79	584.07
	2030.000	.00	.00	.00	2239.00	5109.00	2244.50	.00	2245.00	36.68	5.84	927.14	843.52
*	2070.000	210.00	.00	.00	2245.50	2274.00	2248.75	2248.75	2249.84	137.04	8.43	276.44	194.26
*	2070.000	210.00	.00	.00	2245.50	3445.00	2249.47	2249.47	2250.84	128.18	9.49	374.87	304.29
*	2070.000	210.00	.00	.00	2245.50	4047.00	2249.80	2249.80	2251.29	121.75	9.94	422.12	366.78
*	2070.000	210.00	.00	.00	2245.50	5109.00	2250.34	2250.34	2252.04	112.40	10.63	502.09	481.90
*	2170.000	530.00	.00	.00	2255.30	2274.00	2258.70	2258.63	2259.20	233.60	5.67	404.00	148.78
*	2170.000	530.00	.00	.00	2255.30	3445.00	2259.05	2259.05	2259.69	219.55	6.48	536.32	232.50
*	2170.000	530.00	.00	.00	2255.30	4047.00	2259.21	2259.21	2259.92	208.43	6.80	601.06	280.32
*	2170.000	530.00	.00	.00	2255.30	5109.00	2259.46	2259.46	2260.29	201.45	7.38	700.20	359.96
*	2260.000	480.00	.00	.00	2266.80	2274.00	2270.82	2270.82	2272.04	118.05	9.12	270.92	209.29
*	2260.000	480.00	.00	.00	2266.80	3445.00	2272.00	2272.00	2272.94	64.76	8.54	545.19	428.10
*	2260.000	480.00	.00	.00	2266.80	4047.00	2272.24	2272.24	2273.25	66.21	8.99	627.55	497.37
	2260.000	480.00	.00	.00	2266.80	5109.00	2272.64	2272.64	2273.73	67.33	9.63	762.04	622.65
*	2310.000	260.00	.00	.00	2273.20	2274.00	2276.03	2276.03	2277.01	147.02	7.97	287.65	187.54
*	2310.000	260.00	.00	.00	2273.20	3445.00	2276.69	2276.69	2277.92	125.80	8.96	392.74	307.15
*	2310.000	260.00	.00	.00	2273.20	4047.00	2277.01	2277.01	2278.33	115.80	9.30	448.19	376.08
*	2310.000	260.00	.00	.00	2273.20	5109.00	2277.46	2277.46	2278.99	111.62	10.05	527.41	483.57
*	2400.000	480.00	.00	.00	2285.40	1652.00	2289.23	2289.23	2289.98	217.31	7.05	241.24	112.06
*	2400.000	480.00	.00	.00	2285.40	2499.00	2289.73	2289.73	2290.63	202.95	7.72	332.76	175.42
*	2400.000	480.00	.00	.00	2285.40	2992.00	2289.96	2289.96	2290.95	204.07	8.12	378.51	209.45
*	2400.000	480.00	.00	.00	2285.40	3667.00	2290.34	2290.34	2291.34	180.94	8.21	459.44	272.61
*	2470.000	370.00	.00	.00	2297.00	1652.00	2300.27	2300.27	2301.16	158.13	7.60	218.64	131.37
*	2470.000	370.00	.00	.00	2297.00	2499.00	2300.92	2300.92	2301.94	132.00	8.16	316.70	217.51
*	2470.000	370.00	.00	.00	2297.00	2992.00	2301.25	2301.25	2302.31	115.88	8.35	382.11	277.94
*	2470.000	370.00	.00	.00	2297.00	3667.00	2301.59	2301.59	2302.75	109.18	8.83	453.99	350.95
*	2580.000	580.00	.00	.00	2313.70	1652.00	2317.19	2317.19	2317.95	183.31	7.08	242.58	122.02
*	2580.000	580.00	.00	.00	2313.70	2499.00	2317.73	2317.73	2318.61	176.95	7.66	343.72	187.87
*	2580.000	580.00	.00	.00	2313.70	2992.00	2317.99	2317.99	2318.92	174.39	7.93	398.41	226.57
*	2580.000	580.00	.00	.00	2313.70	3667.00	2318.27	2318.27	2319.32	173.13	8.47	459.31	278.69
*	2650.000	370.00	.00	.00	2326.00	1652.00	2329.76	2329.76	2330.41	226.25	6.34	257.59	109.83
*	2650.000	370.00	.00	.00	2326.00	2499.00	2330.17	2330.17	2330.96	226.54	7.03	352.75	166.03
*	2650.000	370.00	.00	.00	2326.00	2992.00	2330.38	2330.38	2331.23	215.36	7.36	404.08	203.88
*	2650.000	370.00	.00	.00	2326.00	3667.00	2330.68	2330.68	2331.58	191.56	7.59	481.15	264.95

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2720.000	410.00	.00	.00	2341.80	1652.00	2344.04	2344.04	2344.52	306.41	5.57	296.82	94.37
*	2720.000	410.00	.00	.00	2341.80	2499.00	2344.34	2344.34	2344.96	273.01	6.32	396.85	151.24
*	2720.000	410.00	.00	.00	2341.80	2992.00	2344.50	2344.50	2345.18	256.70	6.65	452.35	186.74
*	2720.000	410.00	.00	.00	2341.80	3667.00	2344.70	2344.70	2345.47	242.96	7.08	522.47	235.26
*	2780.000	280.00	.00	.00	2350.80	1652.00	2354.05	2354.05	2354.66	242.83	5.68	265.85	106.01
*	2780.000	280.00	.00	.00	2350.80	2499.00	2354.46	2354.46	2355.21	234.61	7.14	358.57	163.15
*	2780.000	280.00	.00	.00	2350.80	2992.00	2354.62	2354.62	2355.50	244.35	7.92	398.62	191.41
*	2780.000	280.00	.00	.00	2350.80	3667.00	2354.88	2354.88	2355.86	231.77	8.64	464.86	240.87
*	2850.000	370.00	.00	.00	2360.40	1652.00	2365.02	2365.02	2366.03	92.31	8.38	415.35	171.95
*	2850.000	370.00	.00	.00	2360.40	2499.00	2365.65	2365.65	2366.96	89.58	9.54	599.27	264.03
*	2850.000	370.00	.00	.00	2360.40	2992.00	2365.98	2365.98	2367.44	87.31	10.05	710.53	320.20
*	2850.000	370.00	.00	.00	2360.40	3667.00	2366.40	2366.40	2368.05	85.77	10.71	873.04	395.96
*	2970.000	635.00	.00	.00	2382.50	1652.00	2386.87	2386.87	2387.49	98.30	3.01	282.99	166.62
*	2970.000	635.00	.00	.00	2382.50	2499.00	2387.39	2387.39	2388.02	90.68	3.50	429.00	262.42
*	2970.000	635.00	.00	.00	2382.50	2992.00	2387.64	2387.64	2388.27	87.22	3.74	511.88	320.38
*	2970.000	635.00	.00	.00	2382.50	3667.00	2387.79	2387.79	2388.55	102.73	4.28	568.85	361.79
*	3090.000	635.00	.00	.00	2409.30	1652.00	2413.45	2413.45	2414.34	91.39	8.46	530.50	172.80
*	3090.000	635.00	.00	.00	2409.30	2499.00	2414.16	2414.16	2415.04	90.12	8.73	874.42	263.24
*	3090.000	635.00	.00	.00	2409.30	2992.00	2414.43	2414.43	2415.36	97.72	8.98	1038.14	302.68
*	3090.000	635.00	.00	.00	2409.30	3667.00	2414.74	2414.74	2415.73	105.64	9.33	1239.38	356.77
*	3170.000	420.00	.00	.00	2426.00	1652.00	2430.33	2430.33	2431.40	145.85	8.28	199.45	136.79
*	3170.000	420.00	.00	.00	2426.00	2499.00	2431.11	2431.11	2432.33	130.51	8.85	283.59	218.75
*	3170.000	420.00	.00	.00	2426.00	2992.00	2431.50	2431.50	2432.77	116.24	9.10	341.58	277.52
*	3170.000	420.00	.00	.00	2426.00	3667.00	2431.91	2431.91	2433.30	109.25	9.56	408.18	350.83
*	3290.000	630.00	.00	.00	2452.10	1029.00	2457.05	2457.05	2457.70	241.64	5.45	171.16	66.20
*	3290.000	630.00	.00	.00	2452.10	1494.00	2457.38	2457.38	2458.16	252.57	6.27	222.76	94.01
*	3290.000	630.00	.00	.00	2452.10	1714.00	2457.56	2457.56	2458.34	232.52	6.44	252.59	112.40
*	3290.000	630.00	.00	.00	2452.10	2099.00	2457.89	2457.89	2458.64	197.58	6.58	308.58	149.33
*	3390.000	530.00	.00	.00	2475.20	1029.00	2479.67	2479.67	2480.70	240.60	8.15	126.41	66.34
*	3390.000	530.00	.00	.00	2475.20	1494.00	2480.44	2480.44	2481.42	250.98	7.97	187.94	94.30
*	3390.000	530.00	.00	.00	2475.20	1714.00	2480.70	2480.70	2481.68	244.46	7.95	216.36	109.62
*	3390.000	530.00	.00	.00	2475.20	2099.00	2481.08	2481.08	2482.08	238.85	8.05	261.91	135.82
*	3490.000	530.00	.00	.00	2496.70	1029.00	2500.24	2500.24	2501.34	186.10	8.42	122.25	75.43
*	3490.000	530.00	.00	.00	2496.70	1494.00	2500.96	2500.96	2502.19	177.09	8.93	167.96	112.27
*	3490.000	530.00	.00	.00	2496.70	1714.00	2501.25	2501.25	2502.54	173.14	9.12	189.11	130.26
*	3490.000	530.00	.00	.00	2496.70	2099.00	2501.67	2501.67	2503.07	169.68	9.52	222.81	161.14
*	3570.000	420.00	.00	.00	2514.90	1029.00	2518.68	2518.68	2519.82	141.79	8.55	120.30	86.42
*	3570.000	420.00	.00	.00	2514.90	1494.00	2519.37	2519.37	2520.73	135.45	9.36	159.69	128.37
*	3570.000	420.00	.00	.00	2514.90	1714.00	2519.65	2519.65	2521.11	130.60	9.70	177.24	149.98
*	3570.000	420.00	.00	.00	2514.90	2099.00	2520.10	2520.10	2521.72	124.16	10.21	207.35	188.37

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3650.000	420.00	.00	.00	2534.40	1029.00	2537.39	2537.39	2538.25	151.04	7.47	138.90	83.73
*	3650.000	420.00	.00	.00	2534.40	1494.00	2537.88	2537.88	2538.95	141.98	8.32	181.48	125.38
*	3650.000	420.00	.00	.00	2534.40	1714.00	2538.08	2538.08	2539.25	137.27	8.70	199.53	146.29
*	3650.000	420.00	.00	.00	2534.40	2099.00	2538.42	2538.42	2539.75	129.93	9.27	230.07	184.15
*	3740.000	480.00	.00	.00	2562.10	1029.00	2564.21	2564.21	2564.62	333.39	5.18	200.40	56.36
*	3740.000	480.00	.00	.00	2562.10	1494.00	2564.41	2564.41	2564.99	366.47	6.18	244.37	78.04
*	3740.000	480.00	.00	.00	2562.10	1714.00	2564.52	2564.52	2565.15	355.33	6.47	268.27	90.93
*	3740.000	480.00	.00	.00	2562.10	2099.00	2564.71	2564.71	2565.42	328.01	6.85	311.20	115.90
*	3830.000	480.00	.00	.00	2581.40	1029.00	2585.29	2585.29	2586.12	339.93	7.32	141.56	55.81
*	3830.000	480.00	.00	.00	2581.40	1494.00	2585.77	2585.77	2586.77	312.34	8.04	187.35	84.54
*	3830.000	480.00	.00	.00	2581.40	1714.00	2585.98	2585.98	2587.04	300.40	8.29	208.51	98.89
*	3830.000	480.00	.00	.00	2581.40	2099.00	2586.30	2586.30	2587.48	293.55	8.76	241.57	122.51
*	3930.000	530.00	.00	.00	2609.50	1029.00	2612.78	2612.78	2613.54	342.74	6.93	147.22	55.58
*	3930.000	530.00	.00	.00	2609.50	1494.00	2613.38	2613.38	2614.02	298.39	6.22	234.38	86.49
*	3930.000	530.00	.00	.00	2609.50	1714.00	2613.52	2613.52	2614.22	297.63	6.48	258.60	99.35
*	3930.000	530.00	.00	.00	2609.50	2099.00	2613.73	2613.73	2614.52	296.87	6.97	296.24	121.82
*	3990.000	320.00	.00	.00	2622.90	1029.00	2628.28	2628.28	2629.84	219.82	10.42	105.41	69.40
*	3990.000	320.00	.00	.00	2622.90	1494.00	2629.20	2629.20	2631.12	195.12	11.63	140.26	106.95
*	3990.000	320.00	.00	.00	2622.90	1714.00	2629.62	2629.62	2631.66	184.49	12.06	156.77	126.19
*	3990.000	320.00	.00	.00	2622.90	2099.00	2630.23	2630.23	2632.53	177.27	12.87	182.43	157.65
*	4070.000	420.00	.00	.00	2648.40	1029.00	2656.67	2656.67	2658.76	270.47	11.61	88.65	62.57
*	4070.000	420.00	.00	.00	2648.40	1494.00	2657.98	2657.98	2660.40	256.30	12.48	119.67	93.32
*	4070.000	420.00	.00	.00	2648.40	1714.00	2658.51	2658.51	2661.07	250.42	12.85	133.40	108.31
*	4070.000	420.00	.00	.00	2648.40	2099.00	2659.26	2659.26	2662.15	237.27	13.64	154.84	136.27
*	4190.000	630.00	.00	.00	2695.10	1029.00	2700.29	2700.29	2702.19	211.27	11.13	95.04	70.79
*	4190.000	630.00	.00	.00	2695.10	1494.00	2701.44	2701.44	2703.72	196.96	12.29	126.65	106.45
*	4190.000	630.00	.00	.00	2695.10	1714.00	2701.93	2701.93	2704.37	191.81	12.73	141.06	123.76
*	4190.000	630.00	.00	.00	2695.10	2099.00	2702.67	2702.67	2705.40	185.01	13.53	164.20	154.32
*	4280.000	480.00	.00	.00	2727.50	1029.00	2731.89	2731.89	2733.32	186.33	9.84	112.31	75.38
*	4280.000	480.00	.00	.00	2727.50	1494.00	2732.75	2732.75	2734.48	168.69	10.95	150.51	115.03
*	4280.000	480.00	.00	.00	2727.50	1714.00	2733.11	2733.11	2734.97	162.91	11.38	167.81	134.29
*	4280.000	480.00	.00	.00	2727.50	2099.00	2733.70	2733.70	2735.75	155.32	12.06	197.04	168.42
*	4380.000	530.00	.00	.00	2754.10	1029.00	2759.64	2759.64	2761.22	298.74	10.13	104.25	59.53
*	4380.000	530.00	.00	.00	2754.10	1494.00	2760.63	2760.63	2762.46	252.16	11.04	144.26	94.08
*	4380.000	530.00	.00	.00	2754.10	1714.00	2761.07	2761.07	2762.96	233.38	11.32	164.54	112.20
*	4380.000	530.00	.00	.00	2754.10	2099.00	2761.70	2761.70	2763.74	218.16	11.89	196.87	142.11
*	4420.000	210.00	.00	.00	2769.50	1029.00	2774.38	2774.38	2776.09	326.19	10.50	98.56	56.97
*	4420.000	210.00	.00	.00	2769.50	1494.00	2775.42	2775.42	2777.48	295.36	11.60	131.75	86.93
*	4420.000	210.00	.00	.00	2769.50	1714.00	2775.84	2775.84	2778.06	287.29	12.04	146.67	101.12
*	4420.000	210.00	.00	.00	2769.50	2099.00	2776.55	2776.55	2778.99	265.96	12.69	172.96	128.71

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	4460.000	210.00	.00	.00	2783.10	1029.00	2787.59	2787.59	2789.39	262.96	11.00	100.87	63.46
*	4460.000	210.00	.00	.00	2783.10	1494.00	2788.67	2788.67	2790.86	238.42	12.27	134.76	96.76
*	4460.000	210.00	.00	.00	2783.10	1714.00	2789.15	2789.15	2791.47	225.89	12.69	151.15	114.04
*	4460.000	210.00	.00	.00	2783.10	2099.00	2789.89	2789.89	2792.47	215.60	13.47	177.26	142.95
*	4610.000	790.00	.00	.00	2833.40	1029.00	2838.03	2838.03	2839.43	203.14	9.84	119.12	72.20
*	4610.000	790.00	.00	.00	2833.40	1494.00	2839.00	2839.00	2840.51	167.18	10.47	170.75	115.55
*	4610.000	790.00	.00	.00	2833.40	1714.00	2839.34	2839.34	2840.93	164.33	10.88	190.70	133.71
*	4610.000	790.00	.00	.00	2833.40	2099.00	2839.85	2839.85	2841.60	162.93	11.57	223.57	164.44
*	4810.000	1060.00	.00	.00	2888.70	1029.00	2893.65	2893.65	2895.08	205.15	10.37	119.73	71.84
*	4810.000	1060.00	.00	.00	2888.70	1494.00	2894.78	2894.78	2896.13	149.50	10.50	191.86	122.19
*	4810.000	1060.00	.00	.00	2888.70	1714.00	2895.08	2895.08	2896.50	150.63	10.95	215.12	139.66
*	4810.000	1060.00	.00	.00	2888.70	2099.00	2895.52	2895.52	2897.08	154.01	11.69	251.11	169.14
*	4990.000	950.00	.00	.00	2950.30	1029.00	2957.44	2957.44	2959.65	191.67	12.80	98.02	74.33
*	4990.000	950.00	.00	.00	2950.30	1494.00	2958.83	2958.83	2961.45	179.09	14.23	133.60	111.64
*	4990.000	950.00	.00	.00	2950.30	1714.00	2959.42	2959.42	2962.19	174.01	14.76	150.13	129.94
*	4990.000	950.00	.00	.00	2950.30	2099.00	2960.30	2960.30	2963.37	171.67	15.72	176.47	160.20
*	5170.000	950.00	.00	.00	3042.70	1029.00	3048.70	3048.70	3050.85	206.06	12.39	96.48	71.68
*	5170.000	950.00	.00	.00	3042.70	1494.00	3050.02	3050.02	3052.56	184.34	13.68	132.00	110.04
*	5170.000	950.00	.00	.00	3042.70	1714.00	3050.76	3050.76	3053.25	160.03	13.70	154.75	135.49
*	5170.000	950.00	.00	.00	3042.70	2099.00	3051.58	3051.58	3054.29	154.31	14.47	182.62	168.97
*	5350.000	950.00	.00	.00	3161.30	1029.00	3164.99	3164.99	3165.78	405.10	7.14	144.07	51.13
*	5350.000	950.00	.00	.00	3161.30	1494.00	3165.52	3165.52	3166.38	382.51	7.41	200.84	76.39
*	5350.000	950.00	.00	.00	3161.30	1714.00	3165.69	3165.69	3166.63	383.66	7.77	220.61	87.51
*	5350.000	950.00	.00	.00	3161.30	2099.00	3165.94	3165.94	3167.02	381.93	8.37	252.13	107.40
*	5510.000	840.00	.00	.00	3270.10	1029.00	3273.92	3273.92	3275.40	240.70	10.26	112.64	66.32
*	5510.000	840.00	.00	.00	3270.10	1494.00	3274.81	3274.81	3276.61	218.32	11.44	150.12	101.11
*	5510.000	840.00	.00	.00	3270.10	1714.00	3275.19	3275.19	3277.12	209.96	11.89	167.29	118.29
*	5510.000	840.00	.00	.00	3270.10	2099.00	3275.78	3275.78	3277.95	203.78	12.68	194.65	147.04
*	5610.000	530.00	.00	.00	3324.80	1029.00	3329.21	3329.21	3330.29	226.55	9.80	136.14	68.36
*	5610.000	530.00	.00	.00	3324.80	1494.00	3329.84	3329.84	3331.18	229.53	11.07	176.27	98.61
*	5610.000	530.00	.00	.00	3324.80	1714.00	3330.11	3330.11	3331.55	227.97	11.53	194.76	113.52
*	5610.000	530.00	.00	.00	3324.80	2099.00	3330.59	3330.59	3332.15	217.22	12.09	228.89	142.42

.LO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2030.000	2274.00	2242.66	.00	.00	.00	224.40	.00
	2030.000	3445.00	2243.47	.81	.00	.00	233.73	.00
	2030.000	4047.00	2243.70	.23	.00	.00	236.37	.00
	2030.000	5109.00	2244.50	.80	.00	.00	241.98	.00
*	2070.000	2274.00	2248.75	.00	6.09	.00	130.62	210.00
*	2070.000	3445.00	2249.47	.72	6.00	.00	143.17	210.00
*	2070.000	4047.00	2249.80	.33	6.10	.00	145.91	210.00
*	2070.000	5109.00	2250.34	.54	5.84	.00	149.97	210.00
*	2170.000	2274.00	2258.70	.00	9.95	.00	379.48	530.00
*	2170.000	3445.00	2259.05	.34	9.57	.00	395.91	530.00
*	2170.000	4047.00	2259.21	.16	9.41	.00	398.06	530.00
*	2170.000	5109.00	2259.46	.25	9.12	.00	401.34	530.00
*	2260.000	2274.00	2270.82	.00	12.12	.00	123.87	480.00
*	2260.000	3445.00	2272.00	1.18	12.95	.00	330.57	480.00
*	2260.000	4047.00	2272.24	.25	13.03	.00	336.77	480.00
*	2260.000	5109.00	2272.64	.39	13.18	.00	346.66	480.00
*	2310.000	2274.00	2276.03	.00	5.21	.00	151.42	260.00
*	2310.000	3445.00	2276.69	.66	4.69	.00	169.11	260.00
*	2310.000	4047.00	2277.01	.32	4.77	.00	173.93	260.00
*	2310.000	5109.00	2277.46	.45	4.82	.00	177.80	260.00
*	2400.000	1652.00	2289.23	.00	13.20	.00	169.29	480.00
*	2400.000	2499.00	2289.73	.50	13.05	.00	194.47	480.00
*	2400.000	2992.00	2289.96	.23	12.95	.00	205.91	480.00
*	2400.000	3667.00	2290.34	.37	12.88	.00	230.81	480.00
*	2470.000	1652.00	2300.27	.00	11.04	.00	128.76	370.00
*	2470.000	2499.00	2300.92	.65	11.19	.00	182.84	370.00
*	2470.000	2992.00	2301.25	.33	11.29	.00	208.94	370.00
*	2470.000	3667.00	2301.59	.34	11.25	.00	218.39	370.00
*	2580.000	1652.00	2317.19	.00	16.91	.00	167.32	580.00
*	2580.000	2499.00	2317.73	.55	16.81	.00	201.50	580.00
*	2580.000	2992.00	2317.99	.26	16.74	.00	217.59	580.00
*	2580.000	3667.00	2318.27	.27	16.68	.00	226.86	580.00
*	2650.000	1652.00	2329.76	.00	12.58	.00	207.99	370.00
*	2650.000	2499.00	2330.17	.41	12.44	.00	245.55	370.00
*	2650.000	2992.00	2330.38	.21	12.39	.00	253.20	370.00
*	2650.000	3667.00	2330.68	.30	12.41	.00	264.27	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2720.000	1652.00	2344.04	.00	14.28	.00	334.32	410.00
*	2720.000	2499.00	2344.34	.30	14.16	.00	343.48	410.00
*	2720.000	2992.00	2344.50	.16	14.12	.00	348.46	410.00
*	2720.000	3667.00	2344.70	.20	14.02	.00	354.65	410.00
*	2780.000	1652.00	2354.05	.00	10.01	.00	219.55	280.00
*	2780.000	2499.00	2354.46	.40	10.12	.00	238.74	280.00
*	2780.000	2992.00	2354.62	.17	10.12	.00	246.59	280.00
*	2780.000	3667.00	2354.88	.26	10.19	.00	259.07	280.00
*	2850.000	1652.00	2365.02	.00	10.96	.00	271.49	370.00
*	2850.000	2499.00	2365.65	.63	11.19	.00	313.33	370.00
*	2850.000	2992.00	2365.98	.34	11.36	.00	351.15	370.00
*	2850.000	3667.00	2366.40	.42	11.52	.00	462.76	370.00
*	2970.000	1652.00	2386.87	.00	21.86	.00	241.96	635.00
*	2970.000	2499.00	2387.39	.52	21.75	.00	321.17	635.00
*	2970.000	2992.00	2387.64	.24	21.65	.00	358.76	635.00
*	2970.000	3667.00	2387.79	.15	21.39	.00	386.98	635.00
*	3090.000	1652.00	2413.45	.00	26.58	.00	385.95	635.00
*	3090.000	2499.00	2414.16	.71	26.77	.00	566.87	635.00
*	3090.000	2992.00	2414.43	.27	26.80	.00	623.05	635.00
*	3090.000	3667.00	2414.74	.31	26.95	.00	669.92	635.00
*	3170.000	1652.00	2430.33	.00	16.88	.00	96.59	420.00
*	3170.000	2499.00	2431.11	.78	16.96	.00	135.73	420.00
*	3170.000	2992.00	2431.50	.38	17.06	.00	157.40	420.00
*	3170.000	3667.00	2431.91	.41	17.17	.00	164.52	420.00
*	3290.000	1029.00	2457.05	.00	26.71	.00	143.83	630.00
*	3290.000	1494.00	2457.38	.34	26.27	.00	162.27	630.00
*	3290.000	1714.00	2457.56	.18	26.07	.00	168.82	630.00
*	3290.000	2099.00	2457.89	.32	25.98	.00	180.48	630.00
*	3390.000	1029.00	2479.67	.00	22.62	.00	61.65	530.00
*	3390.000	1494.00	2480.44	.77	23.05	.00	98.90	530.00
*	3390.000	1714.00	2480.70	.27	23.14	.00	112.27	530.00
*	3390.000	2099.00	2481.08	.37	23.19	.00	131.31	530.00
*	3490.000	1029.00	2500.24	.00	20.57	.00	56.29	530.00
*	3490.000	1494.00	2500.96	.72	20.52	.00	70.32	530.00
*	3490.000	1714.00	2501.25	.29	20.54	.00	75.99	530.00
*	3490.000	2099.00	2501.67	.42	20.59	.00	83.55	530.00
*	3570.000	1029.00	2518.68	.00	18.45	.00	53.86	420.00
*	3570.000	1494.00	2519.37	.68	18.41	.00	61.16	420.00
*	3570.000	1714.00	2519.65	.28	18.40	.00	63.91	420.00
*	3570.000	2099.00	2520.10	.46	18.44	.00	68.37	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3650.000	1029.00	2537.39	.00	18.70	.00	82.63	420.00
*	3650.000	1494.00	2537.88	.49	18.51	.00	88.39	420.00
*	3650.000	1714.00	2538.08	.20	18.43	.00	89.18	420.00
*	3650.000	2099.00	2538.42	.34	18.32	.00	90.52	420.00
*	3740.000	1029.00	2564.21	.00	26.82	.00	217.83	480.00
*	3740.000	1494.00	2564.41	.20	26.53	.00	219.90	480.00
*	3740.000	1714.00	2564.52	.11	26.43	.00	221.01	480.00
*	3740.000	2099.00	2564.71	.19	26.29	.00	223.01	480.00
*	3830.000	1029.00	2585.29	.00	21.09	.00	91.48	480.00
*	3830.000	1494.00	2585.77	.48	21.37	.00	98.93	480.00
*	3830.000	1714.00	2585.98	.21	21.47	.00	102.18	480.00
*	3830.000	2099.00	2586.30	.32	21.59	.00	107.08	480.00
*	3930.000	1029.00	2612.78	.00	27.48	.00	101.42	530.00
*	3930.000	1494.00	2613.38	.60	27.61	.00	169.11	530.00
*	3930.000	1714.00	2613.52	.14	27.54	.00	175.39	530.00
*	3930.000	2099.00	2613.73	.21	27.43	.00	181.56	530.00
*	3990.000	1029.00	2628.28	.00	15.50	.00	36.23	320.00
*	3990.000	1494.00	2629.20	.92	15.82	.00	39.40	320.00
*	3990.000	1714.00	2629.62	.41	16.09	.00	40.82	320.00
*	3990.000	2099.00	2630.23	.61	16.49	.00	42.93	320.00
*	4070.000	1029.00	2656.67	.00	28.39	.00	21.82	420.00
*	4070.000	1494.00	2657.98	1.31	28.78	.00	25.40	420.00
*	4070.000	1714.00	2658.51	.52	28.89	.00	27.10	420.00
*	4070.000	2099.00	2659.26	.75	29.03	.00	29.76	420.00
*	4190.000	1029.00	2700.29	.00	43.62	.00	26.28	630.00
*	4190.000	1494.00	2701.44	1.15	43.46	.00	28.85	630.00
*	4190.000	1714.00	2701.93	.49	43.42	.00	29.94	630.00
*	4190.000	2099.00	2702.67	.74	43.41	.00	32.64	630.00
*	4280.000	1029.00	2731.89	.00	31.60	.00	42.18	480.00
*	4280.000	1494.00	2732.75	.86	31.31	.00	46.64	480.00
*	4280.000	1714.00	2733.11	.36	31.18	.00	48.53	480.00
*	4280.000	2099.00	2733.70	.58	31.02	.00	51.56	480.00
*	4380.000	1029.00	2759.64	.00	27.75	.00	36.20	530.00
*	4380.000	1494.00	2760.63	.99	27.88	.00	44.71	530.00
*	4380.000	1714.00	2761.07	.44	27.96	.00	48.43	530.00
*	4380.000	2099.00	2761.70	.63	28.00	.00	53.69	530.00
*	4420.000	1029.00	2774.38	.00	14.74	.00	30.22	210.00
*	4420.000	1494.00	2775.42	1.03	14.78	.00	33.98	210.00
*	4420.000	1714.00	2775.84	.43	14.78	.00	35.54	210.00
*	4420.000	2099.00	2776.55	.71	14.85	.00	38.65	210.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4460.000	1029.00	2787.59	.00	13.21	.00	30.11	210.00
*	4460.000	1494.00	2788.67	1.07	13.25	.00	33.11	210.00
*	4460.000	1714.00	2789.15	.48	13.31	.00	34.47	210.00
*	4460.000	2099.00	2789.89	.74	13.33	.00	36.53	210.00
*	4610.000	1029.00	2838.03	.00	50.43	.00	48.00	790.00
*	4610.000	1494.00	2839.00	.98	50.34	.00	58.02	790.00
*	4610.000	1714.00	2839.34	.33	50.18	.00	61.70	790.00
*	4610.000	2099.00	2839.85	.51	49.96	.00	67.32	790.00
*	4810.000	1029.00	2893.65	.00	55.62	.00	50.67	1060.00
*	4810.000	1494.00	2894.78	1.13	55.78	.00	78.12	1060.00
*	4810.000	1714.00	2895.08	.30	55.74	.00	79.26	1060.00
*	4810.000	2099.00	2895.52	.45	55.68	.00	80.98	1060.00
*	4990.000	1029.00	2957.44	.00	63.79	.00	23.77	950.00
*	4990.000	1494.00	2958.83	1.39	64.05	.00	27.32	950.00
*	4990.000	1714.00	2959.42	.59	64.34	.00	28.82	950.00
*	4990.000	2099.00	2960.30	.88	64.77	.00	31.06	950.00
*	5170.000	1029.00	3048.70	.00	91.26	.00	24.64	950.00
*	5170.000	1494.00	3050.02	1.33	91.19	.00	29.36	950.00
*	5170.000	1714.00	3050.76	.74	91.34	.00	32.28	950.00
*	5170.000	2099.00	3051.58	.82	91.29	.00	35.57	950.00
*	5350.000	1029.00	3164.99	.00	116.29	.00	93.05	950.00
*	5350.000	1494.00	3165.52	.53	115.50	.00	117.59	950.00
*	5350.000	1714.00	3165.69	.17	114.93	.00	121.69	950.00
*	5350.000	2099.00	3165.94	.25	114.36	.00	125.41	950.00
*	5510.000	1029.00	3273.92	.00	108.93	.00	40.46	840.00
*	5510.000	1494.00	3274.81	.89	109.29	.00	44.03	840.00
*	5510.000	1714.00	3275.19	.38	109.50	.00	45.57	840.00
*	5510.000	2099.00	3275.78	.59	109.84	.00	47.93	840.00
*	5610.000	1029.00	3329.21	.00	55.28	.00	61.09	530.00
*	5610.000	1494.00	3329.84	.63	55.03	.00	66.42	530.00
*	5610.000	1714.00	3330.11	.27	54.92	.00	68.73	530.00
*	5610.000	2099.00	3330.59	.48	54.81	.00	72.81	530.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   2070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2170.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2170.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   2310.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2310.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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ION SECNO=   2400.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2400.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   2580.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2580.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2650.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2780.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  5510.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5510.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5510.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5510.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5510.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  5610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

Stop - Program terminated.

Stop - Program terminated.
```

```
1*****************************************************
 *  WATER SURFACE PROFILES                           *
 *  VERSION OF SEPTEMBER 1988                        *
 *  ERROR: 01,02,03                                  *
 *  UPDATED:  SEPTEMBER 1989                         *
 *  RUN DATE     3/11/90   TIME   15:25:40           *
 *****************************************************
```

```
*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
```

OCEAST 1
Method
checked w/Natural
3-11-90
JAM

```
X     X  XXXXXXX   XXXXX            XXXXX
X     X  X        X     X          X     X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

END OF BANNER

1

3/11/90 15:25:40 PAGE 1

THIS RUN EXECUTED 3/11/90 15:25:40

```
*************************************************
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
*************************************************
```

```
T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL    ENCROACHMENT CONDITIONS
T3      OCOTILLO WASH           (OCEAST.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                                                          2243.70

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43       26        8       42       39        1       34        4       53
    21       22       54        0       38       43        1       50       51        7
    28        4        5        7        3       61      200

QT       2     4047     4047
NC     .05      .05      .04       .1       .3
ET                       4.1   9874.2  10067.5
```

```
******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
  THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
  COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
  ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
  STRT W.S. ELEV. IS NORMAL DEPTH.
  QT VALUES ARE FROM CP 35.
X1    2030       18     9874.2   10067.5                                      -2
GR   2252.8   9793.7   2252.5    9830.5   2246.7    9853.0   2241.3    9874.2   2242.9    9900.3
GR   2244.0   9926.2   2242.1    9957.7   2242.5    9966.4   2241.6    9999.3   2242.0   10000.0
GR   2241.0  10018.4   2242.1   10044.1   2242.3   10067.5   2245.7   10093.3   2254.9   10121.7
GR   2256.9  10157.9   2256.5   10178.3   2255.4   10187.7

NC    .045     .045     .035
ET                     4.1    9943.5   10069.5
X1    2070       19    9943.5   10069.5     210       210       210
GR   2251.0   9688.1   2251.0    9778.4   2251.0    9831.4   2251.0    9874.2   2250.4    9898.2
GR   2250.4   9923.7   2246.5    9943.5   2245.8    9962.9   2246.3   10000.0   2245.5   10021.6
GR   2246.7  10025.5   2249.5   10039.2   2246.6   10053.8   2248.5   10069.5   2256.2   10088.3
GR   2259.0  10113.5   2260.3   10163.3   2262.0   10215.1   2264.4   10249.6
1
    3/11/90     15:25:40                                                                    PAGE    2


NH       3     .045    9955.2     .035   10070.2     .045   10390.0
ET                     4.1    9986.5   10355.2
X1    2170       23    9986.5   10355.2     520       480       530
GR   2275.4   9886.0   2274.5    9895.8   2258.2    9933.0   2261.4    9938.9   2262.4    9955.2
GR   2262.0   9966.8   2259.7    9979.0   2256.6    9986.5   2256.6   10000.0   2258.5   10031.4
GR   2257.6  10050.1   2258.7   10070.2   2258.6   10141.3   2255.9   10216.3   2255.3   10240.7
GR   2257.9  10257.8   2257.2   10275.7   2259.0   10288.9   2257.7   10332.0   2257.2   10354.4
GR   2257.4  10355.2   2258.7   10370.7   2261.6   10390.0

NH       3     .045    9915.0     .035   10022.5     .045   10410
ET                     4.1    9924.9   10010.6
X1    2260       25    9928.2   10010.6     470       480       480
GR   2286.5   9504.5   2284.0    9547.8   2279.0    9591.4   2272.8    9676.2   2269.4    9723.0
GR   2271.5   9733.2   2271.2    9826.7   2271.6    9915.0   2268.2    9928.2   2268.4    9967.0
GR   2268.3   9971.7   2267.6   10000.0   2266.8   10010.6   2276.7   10022.5   2277.1   10024.6
GR   2278.3  10061.3   2276.9   10093.0   2271.9   10116.9   2276.6   10142.2   2278.8   10173.0
GR   2278.4  10207.4   2277.8   10217.0   2280.0     10290      2276     10347   2280.0     10410

NH       3     .045    9943.1     .035   10110.1     .045   10790.4
ET                     4.1    9963.4   10110.1
X1    2310       30    9963.4   10110.1     260       260       260
GR   2294.0   9694.6   2286.6    9724.9   2279.8    9775.6   2278.8    9803.3   2279.9    9832.4
GR   2277.9   9885.7   2277.9    9935.4   2276.8    9943.1   2276.0    9963.4   2273.3   10000.0
GR   2273.2  10013.4   2274.8   10036.0   2274.2   10054.9   2273.7   10093.0   2273.6   10110.1
GR   2283.6  10126.1   2283.9   10162.2   2284.2   10194.7   2284.6   10231.8   2286.9   10283.2
GR   2286.3  10309.7   2284.3   10332.6   2286.6   10359.7   2290.0   10499.5   2291.4   10573.2
GR   2289.5  10623.7   2290.3   10668.1   2286.2   10716.7   2289.7   10752.7   2291.2   10790.4

QT       2       2992     2992
NH       3     .045    9962.2     .035   10033.3     .045   10220.2
ET                     4.1    9778.6   10014.9
  QT VALUES ARE FROM CP 35A.
X1    2400       23    9778.6   10014.9     490       470       480
GR   2305.0   9627.1   2303.2    9663.3   2299.0    9695.4   2291.3    9730.7   2289.1    9757.9
GR   2289.1   9759.2   2287.3    9778.6   2289.0    9795.9   2285.4    9817.6   2288.2    9844.7
GR   2290.4   9912.7   2290.8    9962.2   2288.2    9974.2   2287.4    9975.8   2287.4    9996.1
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GR	2287.6	10000.0	2287.6	10014.9	2296.1	10033.3	2290.4	10062.9	2291.9	10094.6
GR	2290.2	10138.6	2292.2	10177.0	2292.1	10220.2				
	3	.045	9904.6	.035	10061.2	.045	10861.4			
			4.1	9916.2	10057.1					
X1	2470	30	9916.2	10057.1	370	370	370			
GR	2305.0	9882.7	2304.7	9904.6	2301.0	9916.2	2298.2	9969.6	2298.2	9974.5
GR	2298.7	10000.0	2299.1	10020.8	2297.7	10036.5	2297.0	10057.1	2304.8	10061.2
GR	2303.6	10075.7	2304.2	10129.9	2304.0	10217.3	2302.6	10266.8	2300.4	10305.8
GR	2301.2	10355.4	2303.9	10373.5	2303.8	10392.7	2306.8	10422.6	2308.8	10465.6
GR	2308.5	10532.2	2309.1	10614.6	2308.6	10669.8	2307.6	10723.7	2305.8	10728.9
GR	2306.5	10741.7	2306.6	10756.9	2307.6	10761.6	2309.4	10813.5	2309.5	10861.4

NH	3	.045	9985.2	.040	10273.5	.045	10715.7			
ET			4.1	9985.2	10152.0					
X1	2580	29	9985.2	10162.9	580	580	580			
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7		
NH	3	.045	9883.1	.040	10196.5	.045	10457.2			
ET			4.1	9903.4	10147.0					
	2650	22	9903.4	10196.5	370	370	370			
	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
GR	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
GR	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
GR	2335.2	10436.7	2333.8	10457.2						
NH	3	.045	9982	.040	10038	.045	10353			
ET			4.1	9982.0	10315.0					
X1	2720	10	9982	10315	410	410	410			
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
NC	.045	.055	.035							
ET			4.1	9969.0	10132.0					
X1	2780	36	9960.7	10073.7	280	280	280			
GR	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7
GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								
	3	.035	9915.7	.03	10024.3	999	10889.3			
			4.1	9946.7	10024.3					
X1	2850	34	9946.7	10024.3	370	370	370			
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
GR	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
GR	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5

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GR   2368.4    10294.6    2368.6    10370.3    2367.8    10463.0    2367.5    10531.7    2366.9    10583.5
GR   2366.4    10610.9    2367.9    10650.9    2368.9    10685.7    2365.6    10700.8    2365.8    10706.9
GR   2363.7    10715.9    2361.6    10757.6    2360.6    10771.0    2367.5     10784     2366.4    10793.5
     2365.9    10820.7    2366.3    10829.5    2366.4    10874.6    2365.8    10889.3
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NH      4       .035    10025.9      .045    10422.5      .035    10498.3      999    10696.7
ET                        4.1     9700.0    10370.0
X1   2970         35    9700.0    10025.9       635       635       635
GR   2389.5     9632    2388.0      9675     2386.4      9700    2388.0      9728    2389.7     9792.0
GR   2388.0     9850    2386.2      9908     2388.0    9965.6    2385.2    9997.4    2384.9    10000.0
GR   2387.6  10025.9    2390.0    10071.0    2390.5   10093.8    2389.8   10107.6    2391.4    10177.9
GR   2390.4  10234.1    2389.9    10282.8    2385.9   10296.3    2388.2   10321.9    2387.7    10348.8
GR   2386.4  10368.7    2384.9    10383.6    2386.7   10402.2    2385.7   10422.5    2382.5    10431.1
GR   2385.1  10454.9    2384.1    10476.9    2388.7   10498.3    2390.8   10543.9    2389.0    10547.2
GR   2388.4  10574.9    2390.6    10579.3    2392.4   10604.0    2395.5   10622.4    2394.3    10696.7

NH      4        .05    9908.3       .03    10030.6       .05    10049.5      999    10821.0
ET                        4.1     9827.8    10049.5
X1   3090         36    9908.3    10049.5       635       635       635
GR   2416.3   9714.3    2411.5     9775.9    2412.2    9823.6    2414.6    9874.7    2415.4     9908.3
GR   2413.8   9933.4    2415.0     9954.0    2415.3    9964.3    2410.9    9969.3    2410.9    10000.0
GR   2410.4  10019.7    2415.1    10030.6    2416.1   10049.5    2413.3   10083.3    2413.7    10136.8
GR   2413.1  10161.7    2414.4    10182.7    2413.4   10244.9    2413.3   10293.1    2409.3    10320.4
GR   2410.4  10349.4    2413.8    10372.6    2416.8   10410.9    2417.8   10461.6    2415.1    10490.5
GR   2412.7  10537.5    2410.5    10552.5    2416.0   10582.1    2416.9   10622.3    2416.8    10670.5
     2414.5  10692.6    2412.8    10700.9    2414.5   10718.2    2417.4   10754.4    2425.5    10811.7
     2424.6    10821

NC      .05      .05      .035
ET                        4.1     9966.0    10080.0
X1   3170         13    9962.0    10080.0       410       430       420
GR   2448.0   9905.0    2440.0     9942.0    2432.0    9962.0    2427.0    9985.0    2426.0    10000.0
GR   2428.0  10018.0    2431.0    10080.0    2431.2   10118.0    2433.5   10147.0    2434.0    10215.0
GR   2438.0  10255.0    2442.5    10300.0    2448.0   10410.0

QT       2     1714      1714
NC    .045     .045      .045
ET                        4.1     9829.6    10000.0
         QT VALUES ARE FROM CP G1.
X1   3290         23    9829.6    10000.0       630       630       630
GR   2476.0   9611.0    2470.8     9672.2    2466.6    9712.4    2464.1    9726.3    2461.9     9776.8
GR   2456.8   9829.6    2456.2     9866.9    2458.5    9891.0    2456.7    9914.8    2456.9     9936.1
GR   2457.3   9939.9    2454.3     9986.0    2452.1   10000.0    2460.3   10019.0    2462.7    10036.8
GR   2462.6  10073.4    2463.1    10107.5    2465.3   10171.9    2467.2   10225.2    2465.1    10278.5
GR   2463.5  10300.3    2467.0    10340.2    2468.8   10376.9

ET                        4.1     9815.5    10026.0
X1   3390         23    9815.5    10032.6       530       530       530
GR   2497.2   9774.1    2486.7     9805.0    2479.3    9815.5    2480.6    9830.3    2483.1     9863.8
GR   2481.4   9914.4    2478.9     9947.3    2481.5    9971.1    2476.4    9985.9    2475.6     9998.3
GR   2475.9  10000.0    2475.2    10008.0    2479.7   10016.3    2481.2   10032.6    2488.1    10051.3
     2487.7  10076.4    2483.7    10105.9    2489.1   10115.7    2486.1   10125.7    2485.4    10132.2
GR   2487.1  10167.3    2489.1    10213.7    2487.4   10235.0
1
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NC	.045	.045	.040							
			4.1	9938.0	10015.6					
	3490	16	9933.5	10015.6	460	490	530			
GR	2518.7	9876.6	2513.7	9903.1	2508.0	9918.7	2501.6	9933.5	2499.9	9945.9
GR	2502.2	9957.0	2501.3	9959.4	2499.2	9967.0	2496.7	9989.0	2497.0	10000.0
GR	2498.7	10012.5	2500.3	10015.6	2507.1	10041.8	2514.7	10065.3	2516.9	10097.8
GR	2516.8	10108.2								
NC	.045	.045	.035							
ET			4.1	9968.3	10034.5					
X1	3570	14	9968.3	10034.5	410	380	420			
GR	2537.0	9919.5	2526.5	9947.9	2519.2	9968.3	2520.8	9970.9	2515.8	9983.7
GR	2514.9	10000.0	2516.4	10011.0	2519.2	10034.5	2529.8	10064.4	2528.8	10092.1
GR	2530.3	10097.9	2534.0	10130.1	2536.5	10184.7	2535.7	10200.2		
ET			4.1	9955.6	10039.8					
X1	3650	14	9955.6	10039.8	400	440	420			
GR	2559.6	9898.9	2554.0	9913.7	2547.9	9932.1	2540.8	9945.9	2536.1	9955.6
GR	2534.5	9974.9	2534.4	9981.6	2535.1	10000.0	2537.0	10017.3	2537.0	10027.9
GR	2537.6	10039.8	2551.5	10065.6	2559.8	10108.1	2559.9	10120.2		
NC	.05	.05	.05							
ET			4.1	9833.3	10035.6					
X1	3740	13	9833.3	10035.6	480	480	480			
GR	2575.9	9782.5	2565.6	9809.8	2562.7	9833.3	2563.9	9859.3	2563.4	9888.2
GR	2563.8	9910.7	2563.8	9946.7	2563.2	9979.0	2562.1	10000.0	2562.4	10021.1
GR	2562.7	10035.6	2572.0	10056.1	2580.1	10067.1				
			4.1	9933.1	10030.0					
X1	3830	15	9933.1	10046.4	460	500	480			
GR	2610.7	9813.9	2610.9	9857.8	2613.5	9898.0	2583.0	9933.1	2582.1	9941.0
GR	2581.4	9949.9	2585.0	9960.0	2582.9	9978.0	2584.7	10000.0	2585.2	10020.6
GR	2587.0	10046.4	2586.7	10087.3	2591.9	10138.3	2598.9	10166.3	2606.7	10179.3
ET			4.1	9908.0	10075.4					
X1	3930	19	9904.7	10075.4	550	510	530			
GR	2639.8	9838.0	2624.9	9868.4	2615.8	9893.8	2613.6	9904.7	2612.6	9933.6
GR	2611.5	9938.5	2611.1	9953.7	2613.1	9973.8	2612.8	10000.0	2613.1	10013.5
GR	2614.0	10019.8	2609.8	10043.1	2611.8	10069.5	2609.5	10075.4	2615.6	10094.9
GR	2629.2	10123.2	2641.5	10147.4	2642.1	10187.3	2641.8	10195.9		
NC	.05	.05	.045							
ET			4.1	9999.8	10026.7					
X1	3990	10	10000.0	10026.7	280	320	320			
GR	2662.4	9938.9	2635.0	9983.7	2622.9	10000.0	2624.8	10013.6	2625.9	10015.0
GR	2627.2	10026.7	2639.1	10051.7	2641.4	10085.4	2645.5	10108.7	2643.3	10112.0
ET			4.1	9988.0	10013.0					
X1	4070	7	9985.9	10013.0	400	380	420			
GR	2677.7	9958.9	2658.7	9985.9	2652.0	10000.0	2648.4	10006.9	2658.3	10013.0
GR	2660.0	10016.3	2671.9	10065.8						

ET			4.1	9988.7	10011.0		
X1	4190	9	9988.7	10013.0	630	630	630

GR	2726.6	9947.0	2697.9	9988.7	2695.1	9998.3	2695.7	10000.0	2695.3	10007.6
GR	2702.2	10013.0	2707.8	10029.7	2717.2	10097.9	2716.8	10098.4		
			4.1	9983.7	10014.0					
	4280	10	9983.7	10014.0	470	500	480			
GR	2794.4	9828.8	2761.7	9903.9	2738.3	9955.7	2729.6	9983.7	2729.4	9987.6
GR	2727.5	10000.0	2729.6	10014.0	2736.2	10027.0	2746.2	10042.3	2752.0	10063.8
NC	.06	.06	.055							
ET			4.1	9984.2	10013.8					
X1	4380	12	9984.2	10013.8	530	530	530			
GR	2775.8	9945.3	2773.4	9959.3	2761.0	9980.4	2759.1	9984.2	2755.2	10000.0
GR	2754.1	10007.9	2758.0	10013.8	2759.4	10017.7	2763.4	10044.1	2767.2	10055.5
GR	2778.0	10074.6	2782.3	10079.7						
ET			4.1	9981.7	10009.0					
X1	4420	10	9981.7	10011.0	230	200	210			
GR	2789.4	9937.9	2779.2	9965.6	2773.7	9981.7	2771.1	9985.9	2769.5	9998.3
GR	2770.4	10000.0	2771.1	10007.6	2775.9	10011.0	2785.7	10025.9	2796.3	10045.2
ET			4.1	9988.3	10010.5					
X1	4460	7	9988.3	10010.5	190	210	210			
GR	2815.8	9951.1	2784.8	9988.3	2783.2	10000.0	2783.1	10010.5	2785.5	10011.7
GR	2799.3	10033.8	2807.0	10055.9						
NC	.06	.06	.05							
ET			4.1	9984.7	10012.4					
X1	4610	10	9985.7	10012.4	790	790	790			
GR	2841.2	9933.9	2838.7	9959.8	2835.9	9985.7	2835.1	9987.8	2833.4	9998.7
	2833.4	10000.0	2835.6	10012.4	2844.1	10018.1	2858.6	10041.7	2864.0	10049.8
ET			4.1	9947.6	9980.1					
X1	4810	11	9952.3	9972.6	1090	1030	1060			
GR	2911.6	9867.8	2899.3	9925.7	2888.8	9952.3	2888.7	9959.7	2892.0	9972.6
GR	2894.7	9986.8	2894.1	10000.0	2892.8	10012.9	2894.5	10014.9	2918.7	10046.7
GR	2929.0	10063.6								
ET			4.1	9998.0	10015.7					
X1	4990	8	10000.0	10011.4	930	970	950			
GR	2981.0	9938.9	2972.8	9968.5	2965.2	9986.5	2952.7	10000.0	2950.3	10008.0
GR	2952.5	10011.4	2965.7	10030.8	2975.2	10047.0				
ET			4.1	9991.5	10008.8					
X1	5170	8	9994.5	10008.8	970	930	950			
GR	3078.9	9933.4	3050.7	9983.0	3043.9	9994.5	3042.7	10000.0	3044.9	10008.8
GR	3049.0	10011.2	3058.1	10031.7	3062.2	10053.3				

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NC	.06	.06	.055							
ET			4.1	9907.8	10016.6					
X1	5350	12	9907.8	10016.6	960	940	950			
	3185.6	9858.0	3171.0	9887.0	3165.4	9907.8	3164.0	9952.0	3165.8	9977.2
	3162.1	9991.5	3161.7	10000.0	3161.3	10013.5	3161.4	10016.6	3167.1	10034.9
GR	3184.5	10061.5	3183.8	10062.0						
NC	.06	.06	.05							
ET			4.1	9997.0	10024.5					

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 X1     5510         8     9997.0    10023.2        840        840        840
 GR   3277.8    9984.0     3270.6     9997.0     3271.2    10000.0     3270.1    10018.7     3270.2    10023.2
 GR   3281.7   10048.7     3288.9    10103.6     3289.5    10105.9
                                 4.1     9968.0    10008.0
 X1     5610         7     9981.9    10000.0        520        540        530
 GR   3335.7    9939.2     3326.4     9967.9     3327.2     9981.9     3324.8     9991.1     3326.7    10000.0
 GR   3327.9   10013.3     3332.2    10036.4
1
    3/11/90      15:25:40                                                                                    PAGE    8


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *PROF 1
0

 CCHV=     .100 CEHV=     .300
 *SECNO 2030.000
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
     0.000     4.70  2243.70      .00  2243.70  2244.20      .50      .00      .00  2239.30
     4047.     130.    3789.     128.      38.     654.      44.       0.       0.   2240.30
       .00     3.41     5.79     2.92     .050     .040     .050     .000  2239.00  9856.93
   .004801       0.       0.       0.        0        0        0      .00   236.37 10093.30
0
 *SECNO 2070.000

 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
  2070.000     4.30  2249.80  2249.80      .00  2251.29     1.49     1.52      .30  2246.50
     4047.     139.    3903.       5.      28.     392.       2.       3.       1.   2248.50
       .01     5.02     9.94     2.59     .045     .035     .045     .000  2245.50  9926.76
   .012175     210.     210.     210.       20       12        0      .00   145.91 10072.67
0
 1490 NH CARD USED
 *SECNO 2170.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

 3685 MINIMUM SPECIFIC ENERGY
      CRITICAL DEPTH ASSUMED
  2170.000     3.91  2259.21  2259.21      .00  2259.92      .71     8.28      .08  2256.60
     4047.      63.    3888.      96.      10.     572.      19.       9.       4.   2257.40
       .03     6.10     6.80     5.09     .036     .042     .045     .000  2255.30  9930.70
   .020843     520.     530.     480.       16       10        0      .00   398.06 10374.09
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0
1


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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 1490 NH CARD USED
 *SECNO 2260.000

 3265 DIVIDED FLOW

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
  2260.000     5.44  2272.24  2272.24      .00  2273.25      1.01      5.19       .09  2268.20
     4047.     832.    3114.     101.     263.     346.       18.       16.        8.   2266.80
       .05     3.16     8.99     5.49     .043     .035      .035      .000   2266.80  9683.86
   .006621     470.     480.     480.        7       11         0       .00    336.77 10118.75
0
 1490 NH CARD USED
 *SECNO 2310.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
  2310.000     3.81  2277.01  2277.01      .00  2278.33      1.32      2.23       .09  2276.00
     4047.      41.    3964.      42.      13.     426.       9.       19.       10.   2273.60
       .05     3.26     9.30     4.54     .035     .035      .045      .000   2273.20  9941.63
   .011580     260.     260.     260.       20       16         0       .00    173.93 10115.56
0
 1490 NH CARD USED
 *SECNO 2400.000

 3265 DIVIDED FLOW

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP 35A.
  2400.000     4.56  2289.96  2289.96      .00  2290.95       .99      6.94       .03  2287.30
     2992.     252.    2702.      38.      40.     333.       6.       24.       12.   2287.60
       .07     6.31     8.12     6.35     .045     .041      .035      .000   2285.40  9747.23
   .020407     490.     480.     470.       20       11         0       .00    205.91 10020.01
0
 1490 NH CARD USED
 *SECNO 2470.000
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   ME        VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST
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3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
[illegible]0 CRITICAL DEPTH ASSUMED
[illegible]0.000     4.25  2301.25  2301.25      .00  2302.31     1.06     5.58      .02  2301.00
   2992.       0.    2911.      81.       0.     348.      34.      27.      14.   2297.00
     .08      .05     8.35     2.42     .035     .035     .042     .000  2297.00  9915.42
  .011588     370.     370.     370.      18       11        0      .00   208.94 10355.74
0
1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2580.000     4.29  2317.99  2317.99      .00  2318.92      .93     8.16      .01  2317.00
   2992.     209.    2783.       0.      48.     351.       0.      32.      16.   2318.70
     .10     4.40     7.93      .00     .045     .040     .000     .000  2313.70  9936.02
  .017439     580.     580.     580.      20        5        0      .00   217.59 10153.78
0
1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2650.000     4.38  2330.38  2330.38      .00  2331.23      .85     7.15      .01  2326.00
   2992.     142.    2850.       0.      17.     387.       0.      35.      18.   2332.00
     .12     8.38     7.36      .00     .040     .040     .000     .000  2326.00  9895.67
[illegible]21536     370.     370.     370.      19        8        0      .00   253.20 10148.87

1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2720.000     2.70  2344.50  2344.50      .00  2345.18      .69     9.62      .02  2344.00
   2992.       0.    2984.       8.       0.     448.       4.      39.      21.   2344.00
     .13     1.92     6.65     2.09     .045     .044     .045     .000  2341.80  9981.10
  .025670     410.     410.     410.      13       14        0      .00   348.46 10329.56
0
1
   3/11/90      15:25:40                                                                    PAGE   11


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
[illegible] CRITICAL DEPTH ASSUMED
 2780.000     3.82  2354.62  2354.62      .00  2355.50      .88     7.01      .06  2355.80
   2992.       0.    1104.    1888.       0.     139.     259.      42.      23.   2354.10
     .14      .00     7.92     7.28     .000     .035     .055     .000  2350.80  9967.09
  .024435     280.     280.     280.      14       14        0      .00   246.59 10264.90
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0
 1490 NH CARD USED
 *SECNO 2850.000

    DIVIDED FLOW

 3280 CROSS SECTION   2850.00 EXTENDED       .18 FEET


 3301 HV CHANGED MORE THAN HVINS

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
  2850.000     5.58  2365.98  2365.98      .00  2367.44     1.45     5.06      .17  2364.60
     2992.     491.    2501.       0.      66.     249.     396.      47.      26.   2366.50
       .16     7.42    10.05      .00     .030     .030  999.000     .000  2360.40  9913.54
   .008731     370.     370.     370.       2       14        0      .00   351.15 10889.30
0
 1490 NH CARD USED
 *SECNO 2970.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
    70.000     5.14  2387.64  2387.64      .00  2388.27      .63     5.54      .08  2386.40
     2992.      34.     583.    2375.      12.     156.     344.      56.      31.   2387.60
       .18     2.87     3.74     6.90     .035     .035     .037     .000  2382.50  9680.69
   .008722     635.     635.     635.      20       10        0      .00   358.76 10493.35
0
1
    3/11/90      15:25:40                                                                          PAGE   12


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 1490 NH CARD USED
 *SECNO 3090.000

 3265 DIVIDED FLOW

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
  3090.000     5.13  2414.43  2414.43      .00  2415.36      .92     5.86      .09  2415.40
     2992.    1057.    1935.       0.     231.     215.     591.      67.      38.   2416.10
       .21     4.57     8.98      .00     .050     .030  999.000     .000  2409.30  9738.27
    09772     635.     635.     635.      20        5        0      .00   623.05 10717.51
0
 *SECNO 3170.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED
 3170.000     5.50  2431.50  2431.50      .00  2432.77     1.27     4.45      .10  2432.00
    2992.       0.    2966.      26.       0.     326.      16.      74.      42.   2431.00
      .22      .00     9.10     1.70     .000     .035     .050     .000  2426.00  9964.32
    11624     410.     420.     430.       20        8        0      .00   157.40 10121.72
0
*SECNO 3290.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.46  2457.56  2457.56      .00  2458.34      .77     9.18      .05  2456.80
    1714.       8.    1384.     322.       3.     215.      35.      78.      44.   2452.10
      .25     2.64     6.44     9.30     .045     .045     .045     .000  2452.10  9821.68
  .023252     630.     630.     630.       20        5        0      .00   168.82 10012.66
0
*SECNO 3390.000
1
    3/11/90      15:25:40                                                                    PAGE   13


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   LOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST



3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     5.50  2480.70  2480.70      .00  2481.68      .98    12.63      .06  2479.30
    1714.       5.    1709.       0.       1.     215.       0.      81.      46.   2481.20
      .26     3.57     7.95      .00     .045     .045     .000     .000  2475.20  9813.51
  .024446     530.     530.     530.       15        5        0      .00   112.27 10027.22
0
*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.55  2501.25  2501.25      .00  2502.54     1.29    10.82      .09  2501.60
    1714.       0.    1710.       4.       0.     187.       2.      83.      47.   2500.30
      .28      .00     9.12     2.58     .000     .040     .045     .000  2496.70  9936.07
  .017314     460.     530.     490.       11       15        0      .00    75.99 10019.25
0
*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED
 3570.000     4.75  2519.65  2519.65      .00  2521.11     1.46     6.28      .05  2519.20
    1714.       0.     1713.       0.       0.     177.       0.      85.      48.   2519.20
      .29     1.34      9.70     1.34     .045     .035     .045     .000  2514.90  9967.04
    13060     410.      420.     380.       20        8        0      .00    63.91 10035.77
0
*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     3.68  2538.08  2538.08      .00  2539.25     1.17     5.62      .03  2536.10
    1714.       15.     1699.       0.       4.     195.       0.      87.      48.   2537.60
      .31     3.58      8.70     1.38     .045     .035     .045     .000  2534.40  9951.51
   .013727    400.      420.     440.       20       15        0      .00    89.18 10040.69
0
1
    3/11/90      15:25:40                                                                    PAGE    14


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN        SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID       ENDST


*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

[illegible] 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible] PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.42  2564.52  2564.52      .00  2565.15      .64    10.02      .05  2562.70
    1714.       70.     1626.      18.      13.     251.       4.      89.      50.   2562.70
      .33     5.23      6.47     4.93     .050     .050     .050     .000  2562.10  9818.59
   .035533    480.      480.     480.       20       23        0      .00   221.01 10039.60
0
*SECNO 3830.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.58  2585.98  2585.98      .00  2587.04     1.06    15.64      .13  2583.00
    1714.       29.     1685.       0.       5.     203.       0.      92.      52.   2587.00
      .34     5.58      8.29      .00     .050     .050     .000     .000  2581.40  9929.67
   .030040    460.      480.     500.       20       17        0      .00   102.18 10031.85
0
*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     4.02  2613.52  2613.52      .00  2614.22      .69    15.82      .04  2613.60
    1714.       0.     1509.     205.       0.     233.      26.      95.      54.   2609.50
      .36      .00      6.48     7.92     .000     .050     .050     .000  2609.50  9906.90
    29763     550.      530.     510.       14       10        0      .00   175.39 10088.26
0
*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS
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7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 [illegible]90.000     6.72  2629.62  2629.62      .00  2631.66     2.05     7.33      .41  2622.90
    1714.     238.    1450.      26.      30.     120.      6.      96.      54.   2627.20
      .37     7.82    12.06     4.28     .050     .045    .050     .000  2622.90  9990.95
  .018449     280.     320.     320.      18       14       0      .00    40.82 10031.78
0
1
   3/11/90      15:25:40                                                                          PAGE   15


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000    10.11  2658.51  2658.51      .00  2661.07     2.57     8.94      .16  2658.70
    1714.       0.    1714.       0.       0.     133.      0.      98.      55.   2658.30
      .38      .00    12.85      .05     .000     .045    .050     .000  2648.40  9986.30
 [illegible].025042     400.     420.     380.      20       14       0      .00    27.10 10013.40

 [illegible]NO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     6.83  2701.93  2701.93      .00  2704.37     2.44    13.75      .01  2697.90
    1714.      68.    1646.       0.      12.     129.      0.     100.      55.   2702.20
      .40     5.77    12.73      .00     .050     .045    .000     .000  2695.10  9982.85
  .019181     630.     630.     630.      20       14       0      .00    29.94 10012.79
0
*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     5.61  2733.11  2733.11      .00  2734.97     1.86     8.47      .06  2729.60
    1714.     106.    1545.      62.      20.     136.     12.     102.      56.   2729.60
      .41     5.36    11.38     5.12     .050     .045    .050     .000  2727.50  9972.39
  .016291     470.     480.     500.      20       15       0      .00    48.53 10020.92
0
*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
 [illegible]0 CRITICAL DEPTH ASSUMED
 [illegible]).000     6.97  2761.07  2761.07      .00  2762.96     1.89    10.25      .01  2759.10
    1714.      14.    1610.      90.       4.     142.     18.     104.      56.   2758.00
      .42     3.55    11.32     4.90     .060     .055    .060     .000  2754.10  9980.28
  .023338     530.     530.     530.      20       11       0      .00    48.43 10028.71
0
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 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     6.34  2775.84  2775.84      .00  2778.06     2.22     5.42      .10  2773.70
    1714.      29.    1685.       0.       7.     140.       0.     104.      56.   2775.90
      .43     4.24    12.04      .00     .060     .055     .000     .000  2769.50  9975.42
  .028729     230.     210.     200.       20       11        0      .00    35.54 10010.96
0
*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     6.05  2789.15  2789.15      .00  2791.47     2.32     5.32      .03  2784.80
    1714.      60.    1565.      90.      11.     123.      16.     105.      57.   2783.10
      .43     5.24    12.69     5.43     .060     .055     .060     .000  2783.10  9983.08
  .022589     190.     210.     210.       20        8        0      .00    34.47 10017.55
0
*SECNO 4610.000

 . HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.94  2839.34  2839.34      .00  2840.93     1.59    15.12      .07  2835.90
    1714.     271.    1428.      15.      55.     131.       5.     108.      57.   2835.60
      .45     4.94    10.88     3.26     .060     .050     .060     .000  2833.40  9953.21
  .016433     790.     790.     790.       20        8        0      .00    61.70 10014.91
0
*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.38  2895.08  2895.08      .00  2896.50     1.42    16.72      .02  2888.80
    1714.     310.    1180.     224.      50.     108.      57.     113.      59.   2892.00
      .49     6.21    10.95     3.90     .060     .050     .060     .000  2888.70  9936.40
  .015063    1090.    1060.    1030.       20        8        0      .00    79.26 10015.66
0
```



```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 IME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4990.000
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3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000     9.12  2959.42  2959.42      .00  2962.19     2.78    15.36      .41  2952.70
    1714.     145.    1337.     231.      24.      91.      35.     117.      60.   2952.50
      .51     5.96    14.76     6.58     .060     .050     .060     .000  2950.30  9992.75
  .017401     930.     950.     970.       20       11        0      .00    28.82 10021.57
0
*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     8.06  3050.76  3050.76      .00  3053.25     2.49    15.86      .03  3043.90
    1714.     258.    1402.      54.      40.     102.      13.     120.      61.   3044.90
      .53     6.49    13.70     4.26     .060     .050     .060     .000  3042.70  9982.89
  .016003     970.     950.     930.       20       11        0      .00    32.28 10015.17
0
*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.39  3165.69  3165.69      .00  3166.63      .94    22.45      .16  3165.40
    1714.       0.    1483.     231.       0.     191.      30.     124.      63.   3161.40
      .56     1.31     7.77     7.82     .060     .055     .060     .000  3161.30  9906.72
  .038366     960.     950.     940.       20       11        0      .00   121.69 10030.37
0
*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

1
    3/11/90      15:25:40                                                                  PAGE   18


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     5.09  3275.19  3275.19      .00  3277.12     1.93    23.31      .30  3270.60
    1714.     109.    1433.     172.      19.     121.      28.     128.      64.   3270.20
      .58     5.72    11.89     6.21     .060     .050     .060     .000  3270.10  9988.70
  .020996     840.     840.     840.       20        8        0      .00    45.57 10034.28
0
*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED
 5610.000     5.31  3330.11  3330.11      .00  3331.55     1.44    11.58      .05  3327.20
    1714.     501.     884.     330.      68.      77.      51.     130.      65.   3326.70
      .60     7.41    11.53     6.53     .060     .050     .060     .000  3324.80  9956.45
    22797     520.     530.     540.       20        8        0      .00    68.73 10025.18
0
1
    3/11/90      15:25:40                                                                          PAGE   19


T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL   ENCROACHMENT CONDITIONS
T3      OCOTILLO WASH           (OCEAST.DAT)

J1  ICHECK    INQ      NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                                  2244.70

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15         0        -1         0         0         0         0         0         0         15

1
    3/11/90      15:25:40                                                                          PAGE   20


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2
0

CCHV=     .100 CEHV=     .300
*SECNO 2030.000

3470 ENCROACHMENT STATIONS=     9874.2   10067.5  TYPE=      1  TARGET=      193.300
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 2030.000     5.70  2244.70      .00  2243.70  2245.05      .35      .00      .00  2239.30
    4047.       0.    4047.       0.       0.     847.       0.       0.       0. 100000.00
      .00      .00     4.78      .00     .000     .040     .000     .000  2239.00  9874.20
  .002467       0.       0.       0.        0        0        0      .00   193.30 10067.50
0
FLOW DISTRIBUTION FOR SECNO=   2030.00          CWSEL=   2244.70

STA=    9874.   10068.
  PER Q=    100.0
  AREA=     847.2
  VEL=        4.8
  DEPTH=      4.4

*SECNO 2070.000
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3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
     3 PROBABLE MINIMUM SPECIFIC ENERGY
       CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9943.5   10069.5  TYPE=      1  TARGET=      126.000
 2070.000     4.34  2249.84  2249.84  2249.80  2251.45     1.60     1.01      .37  2246.50
    4047.       0.    4047.       0.       0.     398.       0.       3.       1. 100000.00
      .01      .00    10.16      .00     .000     .035     .000     .000  2245.50  9943.50
  .013088     210.     210.     210.       20       15        0      .00   126.00 10069.50
0
1
    3/11/90      15:25:40                                                                    PAGE   21


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=   2070.00          CWSEL=   2249.84

STA=    9944.   10070.
  PER Q=    100.0
   AREA=    398.2
    VEL=     10.2
  DEPTH=      3.2

   0 NH CARD USED
*SECNO 2170.000

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9986.5   10355.2  TYPE=      1  TARGET=      368.700
 2170.000     3.99  2259.29  2259.25  2259.21  2259.99      .70     8.46      .09  2256.60
    4047.       0.    4047.       0.       0.     602.       0.       9.       4. 100000.00
      .03      .00     6.72      .00     .000     .043     .000     .000  2255.30  9986.50
  .019879     520.     530.     480.       15       10        0      .00   368.70 10355.20
0
FLOW DISTRIBUTION FOR SECNO=   2170.00          CWSEL=   2259.29

STA=    9987.   10355.
  PER Q=    100.0
   AREA=    602.2
    VEL=      6.7
  DEPTH=      1.6

1490 NH CARD USED
*SECNO 2260.000

3301 HV CHANGED MORE THAN HVINS

     20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9924.9   10010.6  TYPE=      1  TARGET=       85.699
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 2260.000     5.37  2272.17  2272.17  2272.24  2274.25     2.09     7.44      .42  2268.20
    4047.      82.    3965.       0.      12.     340.       0.      14.       6. 100000.00
      .04     6.98    11.66      .00     .035     .035     .000     .000  2266.80  9924.90
   012414     470.     480.     480.       20       11        0      .00    85.70 10010.60
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=   2260.00          CWSEL=   2272.17

STA=    9925.    9928.   10011.
  PER Q=      2.0     98.0
   AREA=     11.7    340.0
    VEL=      7.0     11.7
  DEPTH=      3.5      4.1

1490 NH CARD USED
*SECNO 2310.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9963.4   10110.1  TYPE=      1  TARGET=      146.699
 2310.000     3.76  2276.96  2276.96  2277.01  2278.41     1.45     3.35      .06  2276.00
    4047.       0.    4047.       0.       0.     418.       0.      17.       7. 100000.00
      .05      .00     9.67      .00     .000     .035     .000     .000  2273.20  9963.40
  .013366     260.     260.     260.        4       19        0      .00   146.70 10110.10
0
FLOW DISTRIBUTION FOR SECNO=   2310.00          CWSEL=   2276.96

STA=    9963.   10110.
  PER Q=    100.0
   AREA=    418.3
    VEL=      9.7
  DEPTH=      2.9

1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9778.6   10014.9  TYPE=      1  TARGET=      236.301
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        QT VALUES ARE FROM CP 35A.
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 2400.000     4.71  2290.11  2290.11  2289.96  2291.20     1.08     7.71      .04  2287.30
    2992.       0.    2992.       0.       0.     358.       0.      21.       9. 100000.00
      .06      .00     8.35      .00     .000     .041     .000     .000  2285.40  9778.60
  .021261     490.     480.     470.       20       11        0      .00   174.73 10014.90

FLOW DISTRIBUTION FOR SECNO=   2400.00          CWSEL=   2290.11

STA=    9779.    9965.   10015.
  PER Q=     59.9     40.1
   AREA=    243.4    114.8
    VEL=      7.4     10.4
  DEPTH=      1.9      2.3

1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9916.2   10057.1  TYPE=      1  TARGET=      140.899
 2470.000     4.16  2301.16  2301.16  2301.25  2302.39     1.23     6.42      .05  2301.00
    2992.       0.    2992.       0.       0.     336.       0.      24.      10. 100000.00
      .07      .00     8.91      .00     .000     .035     .000     .000  2297.00  9916.20
  .014443     370.     370.     370.       14       15        0      .00   140.90 10057.10
0
FLOW DISTRIBUTION FOR SECNO=   2470.00          CWSEL=   2301.16

STA=    9916.   10057.
  PER Q=    100.0
   AREA=    335.7
    VEL=      8.9
  DEPTH=      2.4

1490 NH CARD USED
*SECNO 2580.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9985.2   10152.0  TYPE=      1  TARGET=      166.800
 2580.000     4.31  2318.01  2318.01  2317.99  2319.12     1.11     9.69      .01  2317.00
    2992.       0.    2992.       0.       0.     354.       0.      28.      12. 100000.00
      .09      .00     8.46      .00     .000     .040     .000     .000  2313.70  9985.20
  .019562     580.     580.     580.       13        8        0      .00   166.80 10152.00
0
1
   3/11/90      15:25:40                                                                  PAGE   24


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=   2580.00          CWSEL=   2318.01

     9985.   10152.
  PER Q=    100.0
   AREA=    353.7
    VEL=      8.5
  DEPTH=      2.1
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1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9903.4   10147.0  TYPE=      1  TARGET=      243.600
 2650.000     4.41  2330.41  2330.41  2330.38  2331.30      .89     7.73      .02  2326.00
    2992.       0.    2992.       0.       0.     396.       0.      32.      14. 100000.00
      .11      .00     7.56      .00     .000     .040     .000     .000  2326.00  9903.40
  .022375     370.     370.     370.       19        8        0      .00   243.60 10147.00
0
 FLOW DISTRIBUTION FOR SECNO=   2650.00          CWSEL=   2330.41

 STA=    9903.   10147.
   PER Q=    100.0
    AREA=    395.7
     VEL=      7.6
   DEPTH=      1.6

 1490 NH CARD USED
 *SECNO 2720.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9982.0   10315.0  TYPE=      1  TARGET=      333.000
  2720.000     2.69  2344.49  2344.49  2344.50  2345.19      .70    10.08      .02  2344.00
     2992.       0.    2992.       0.       0.     446.       0.      36.      17. 100000.00
       .12      .00     6.71      .00     .000     .044     .000     .000  2341.80  9982.00
   027162     410.     410.     410.       13       14        0      .00   333.00 10315.00
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 FLOW DISTRIBUTION FOR SECNO=   2720.00          CWSEL=   2344.49

 STA=    9982.   10315.
   PER Q=    100.0
    AREA=    445.6
     VEL=      6.7
   DEPTH=      1.3

 *SECNO 2780.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9969.0   10132.0  TYPE=      1  TARGET=      163.000
  2780.000     4.60  2355.41  2355.41  2354.62  2356.55     1.15     6.19      .13100000.00
     2992.       0.    2075.     917.       0.     221.     143.      38.      18.   2354.10
       .13      .00     9.38     6.43     .000     .035     .055     .000  2350.80  9969.00
  .018355     280.     280.     280.       16       17        0      .00   163.00 10132.00
0
 FLOW DISTRIBUTION FOR SECNO=   2780.00          CWSEL=   2355.41
```

```
 STA=    9969.   10074.   10114.   10132.
   PER Q=     69.4     17.2     13.4
    AREA=    221.1     85.7     56.8
     VEL=      9.4      6.0      7.1
   DEPTH=      2.1      2.1      3.2

 1490 NH CARD USED
 *SECNO 2850.000
 3280 CROSS SECTION   2850.00 EXTENDED       .54 FEET


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9946.7   10024.3  TYPE=      1  TARGET=       77.600
  2850.000     5.94  2366.34  2366.34  2365.98  2368.16     1.82     4.67      .20  2364.60
     2992.       0.    2992.       0.       0.     276.       0.      41.      19. 100000.00
       .14      .00    10.82      .00     .000     .030     .000     .000  2360.40  9946.70
   .009194     370.     370.     370.       20       11        0      .00    77.24 10023.94
0
1
    3/11/90      15:25:40                                                                          PAGE   26


    SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
    Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
    TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
    SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=   2850.00          CWSEL=   2366.34

 STA=    9947.   10024.
   PER Q=    100.0
    AREA=    276.4
     VEL=     10.8
   DEPTH=      3.6

 1490 NH CARD USED
 *SECNO 2970.000

 3265 DIVIDED FLOW


 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9700.0   10370.0  TYPE=      1  TARGET=      670.000
  0.000     6.00  2388.50  2388.50  2387.64  2389.26      .76     8.21      .11  2386.40
     2992.       0.    2464.     528.       0.     335.     103.      46.      22.  2387.60
       .17      .00     7.35     5.14     .000     .035     .045     .000  2382.50  9700.00
   .019482     635.     635.     635.       20        8        0      .00   339.24 10370.00
0
```

```
FLOW DISTRIBUTION FOR SECNO=   2970.00          CWSEL=   2388.50

STA=    9700.   10026.   10043.   10296.   10322.   10349.   10369.   10370.
 PER Q=     82.4       .7      2.0      7.3      1.5      5.7       .4
 AREA=     335.1      7.6     11.4     37.1     14.8     28.9      2.8
  VEL=       7.4      2.7      5.3      5.9      3.1      5.9      4.0
DEPTH=       1.4       .5       .0      1.5       .6      1.5      2.2

1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
1
   3/11/90      15:25:40                                                                                    PAGE   27


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9827.8   10049.5  TYPE=      1  TARGET=      221.700
 3090.000      6.03  2415.33  2415.33  2414.43  2416.34      1.01      8.45       .07  2415.40
    2992.      378.    2614.       0.      97.     308.       0.       52.       26. 100000.00
      .19      3.89     8.50      .00     .050     .031     .000      .000  2409.30  9827.80
  .009660      635.     635.     635.      20        5        0       .00   203.29 10034.99
0
FLOW DISTRIBUTION FOR SECNO=   3090.00          CWSEL=   2415.33

STA=    9828.    9875.    9905.   10049.
 PER Q=     12.1       .6     87.4
 AREA=      86.0     11.3    307.6
  VEL=       4.2      1.5      8.5
DEPTH=       1.8       .4      2.4

*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9966.0   10080.0  TYPE=      1  TARGET=      114.000
 3170.000      5.37  2431.37  2431.37  2431.50  2432.80      1.43      4.76      .13100000.00
    2992.        0.    2992.       0.       0.     312.       0.       56.       28. 100000.00
      .20       .00     9.60      .00     .000     .035     .000      .000  2426.00  9966.00
  .013551      410.     420.     430.      20       15        0       .00   114.00 10080.00
0
FLOW DISTRIBUTION FOR SECNO=   3170.00          CWSEL=   2431.37

STA=    9966.   10080.
 PER Q=    100.0
 AREA=     311.8
  VEL=       9.6
DEPTH=       2.7
```

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*SECNO 3290.000
1
   3/11/90      15:25:40                                                                                    PAGE   28

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9829.6   10000.0  TYPE=      1  TARGET=      170.400
         QT VALUES ARE FROM CP G1.
 3290.000     5.55  2457.65  2457.56  2457.53      .88    11.18      .05  2456.80
    1714.       0.    1714.       0.       0.     228.       0.      60.      30. 100000.00
      .23      .00     7.53      .00     .000     .045     .000     .000  2452.10  9829.60
  .031725     630.     630.     630.       20        8        0      .00   150.24 10000.00
0
FLOW DISTRIBUTION FOR SECNO=   3290.00          CWSEL=   2457.65

  .4    9830.   10000.
  PER Q=    100.0
   AREA=    227.6
    VEL=      7.5
  DEPTH=      1.5

*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9815.5   10026.0  TYPE=      1  TARGET=      210.500
 3390.000     5.46  2480.66  2480.66  2480.70  2481.69     1.04    15.25      .05  2479.30
    1714.       0.    1714.       0.       0.     210.       0.      62.      31. 100000.00
      .24      .00     8.18      .00     .000     .045     .000     .000  2475.20  9815.50
  .026228     530.     530.     530.       13        5        0      .00   107.15 10026.00
0
FLOW DISTRIBUTION FOR SECNO=   3390.00          CWSEL=   2480.66

1
   3/11/90      15:25:40                                                                                    PAGE   29

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST
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 STA=    9816.   10033.
   PER Q=    100.0
    AREA=    209.5
     VEL=      8.2
   DEPTH=      2.0

 *SECNO 3490.000

 3265 DIVIDED FLOW

 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9938.0   10015.6  TYPE=      1  TARGET=       77.600
  3490.000     4.50  2501.20  2501.20  2501.25  2502.55     1.35    11.43      .09100000.00
     1714.       0.    1714.       0.       0.     184.       0.      65.      32. 100000.00
       .26      .00     9.31      .00     .000     .040     .000     .000  2496.70  9938.00
   .018050     460.     530.     490.       11       15        0      .00    70.05 10015.60
0
 FLOW DISTRIBUTION FOR SECNO=   3490.00          CWSEL=   2501.20

 STA=    9938.   10016.
   PER Q=    100.0
    AREA=    184.1
     VEL=      9.3
   DEPTH=      2.6

 *SECNO 3570.000

 3[illegible] DIVIDED FLOW

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9968.3   10034.5  TYPE=      1  TARGET=       66.200
  3570.000     4.74  2519.64  2519.64  2519.65  2521.11     1.47     6.52       .04  2519.20
     1714.       0.    1714.       0.       0.     176.       0.      66.      33. 100000.00
       .27      .00     9.74      .00     .000     .035     .000     .000  2514.90  9968.30
   .013497     410.     420.     380.       20        8        0      .00    61.33 10034.50
0
1
    3/11/90      15:25:40                                                                          PAGE   30


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 FLOW DISTRIBUTION FOR SECNO=   3570.00          CWSEL=   2519.64

 STA=    9968.   10035.
   PER Q=    100.0
    AREA=    175.9
     VEL=      9.7
   DEPTH=      2.9
```

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*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9955.6   10039.8  TYPE=      1  TARGET=       84.200
 3650.000     3.69  2538.08  2538.08  2538.08  2539.28     1.19     5.86      .03  2536.10
    1714.       0.    1714.       0.       0.     196.       0.      68.      34. 100000.00
      .28      .00     8.77      .00     .000     .035     .000     .000  2534.40  9955.60
  .014455     400.     420.     440.       20       15        0      .00    84.20 10039.80
0
 FLOW DISTRIBUTION FOR SECNO=   3650.00          CWSEL=   2538.08

 STA=    9956.   10040.
   PER Q=    100.0
    AREA=    195.5
     VEL=      8.8
   DEPTH=      2.3

*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9833.3   10035.6  TYPE=      1  TARGET=      202.300
 3740.000     2.46  2564.56  2564.56  2564.52  2565.23      .67    10.35      .05  2562.70
    1714.       0.    1714.       0.       0.     261.       0.      71.      35. 100000.00
      .30      .00     6.56      .00     .000     .050     .000     .000  2562.10  9833.30
  .035588     480.     480.     480.       20       23        0      .00   202.30 10035.60
0
1
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

 FLOW DISTRIBUTION FOR SECNO=   3740.00          CWSEL=   2564.56

 STA=    9833.   10036.
   PER Q=    100.0
    AREA=    261.1
     VEL=      6.6
   DEPTH=      1.3

*SECNO 3830.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9933.1   10030.0  TYPE=      1  TARGET=       96.900
 3830.000     4.59  2585.99  2585.99  2585.98  2587.09     1.10    16.08      .13  2583.00
    1714.       0.    1714.       0.       0.     203.       0.      73.      37. 100000.00
      .32      .00     8.43      .00     .000     .050     .000     .000  2581.40  9933.10
```

```
  .031606     460.     480.     500.       20       17        0      .00    96.90 10030.00
0
 FLOW DISTRIBUTION FOR SECNO=   3830.00          CWSEL=   2585.99

      9933.   10046.
  PER Q=    100.0
   AREA=    203.4
    VEL=      8.4
  DEPTH=      2.1

*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9908.0   10075.4  TYPE=      1  TARGET=      167.400
 3930.000     4.14  2613.64  2613.64  2613.52  2614.36      .72    16.50      .04100000.00
    1714.       0.    1714.       0.       0.     252.       0.      76.      38. 100000.00
      .34      .00     6.81      .00     .000     .050     .000     .000  2609.50  9908.00
  .030687     550.     530.     510.       15       10        0      .00   162.90 10075.40
0
1
    3/11/90      15:25:40                                                                                PAGE   32


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=   3930.00          CWSEL=   2613.64

STA=    9908.   10075.
  PER Q=    100.0
   AREA=    251.7
    VEL=      6.8
  DEPTH=      1.5

*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9999.8   10026.7  TYPE=      1  TARGET=       26.900
 3990.000     7.20  2630.10  2630.10  2629.62  2632.66     2.56     8.03      .55  2622.90
    1714.       2.    1712.       0.       1.     133.       0.      77.      39. 100000.00
      .35     1.45    12.84      .00     .050     .045     .000     .000  2622.90  9999.80
  .020882     280.     320.     320.       20       17        0      .00    26.90 10026.70
0
   DISTRIBUTION FOR SECNO=   3990.00          CWSEL=   2630.10

STA=   10000.   10000.   10027.
  PER Q=      .1     99.9
   AREA=      1.4    133.3
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    VEL=      1.4      12.8
  DEPTH=      7.1       5.0

 SECNO 4070.000
    20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.0   10013.0  TYPE=      1  TARGET=       25.000
 4070.000    10.06  2658.46  2658.46  2658.51  2661.10     2.64     9.63      .02100000.00
    1714.       0.    1714.       0.       0.     131.       0.      79.      39. 100000.00
      .36      .00    13.04      .00     .000     .045     .000     .000  2648.40  9988.00
  .025307     400.     420.     380.       20       11        0      .00    25.00 10013.00
0
1
   3/11/90      15:25:40                                                                    PAGE   33


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=   4070.00          CWSEL=   2658.46

STA=    9988.   10013.
  PER Q=    100.0
   AREA=    131.4
    VEL=     13.0
  DEPTH=      5.3

*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.7   10011.0  TYPE=      1  TARGET=       22.300
 4190.000     6.79  2701.89  2701.89  2701.93  2704.75     2.86    16.20      .07  2697.90
    1714.       0.    1714.       0.       0.     126.       0.      81.      40. 100000.00
      .37      .00    13.57      .00     .000     .045     .000     .000  2695.10  9988.70
  .026125     630.     630.     630.       20       14        0      .00    22.30 10011.00
0
FLOW DISTRIBUTION FOR SECNO=   4190.00          CWSEL=   2701.89

STA=    9989.   10013.
  PER Q=    100.0
   AREA=    126.3
    VEL=     13.6
  DEPTH=      5.7

*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

    20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9983.7   10014.0  TYPE=      1  TARGET=       30.300
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```
 4280.000     5.73  2733.23  2733.23  2733.11  2735.58     2.35    12.11      .05  2729.60
    1714.       0.    1714.       0.       0.     139.       0.      82.      40. 100000.00
      .38      .00    12.29      .00     .000     .045     .000     .000  2727.50  9983.70
   024363     470.     480.     500.       20       15        0      .00    30.30 10014.00

1
    3/11/90      15:25:40                                                                    PAGE   34


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 FLOW DISTRIBUTION FOR SECNO=   4280.00          CWSEL=   2733.23

 STA=    9984.   10014.
   PER Q=    100.0
    AREA=    139.5
     VEL=     12.3
   DEPTH=      4.6

 *SECNO 4380.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9984.2   10013.8  TYPE=      1  TARGET=       29.600
 4380.000     6.83  2760.93  2760.93  2761.07  2763.32     2.39    15.39      .01  2759.10
    1714.       0.    1714.       0.       0.     138.       0.      84.      40. 100000.00
      .39      .00    12.41      .00     .000     .055     .000     .000  2754.10  9984.20
  .035199     530.     530.     530.       17       11        0      .00    29.60 10013.80
0
 FLOW DISTRIBUTION FOR SECNO=   4380.00          CWSEL=   2760.93

 STA=    9984.   10014.
   PER Q=    100.0
    AREA=    138.2
     VEL=     12.4
   DEPTH=      4.7

 *SECNO 4420.000
 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9981.7   10009.0  TYPE=      1  TARGET=       27.300
 4420.000     6.25  2775.75  2775.75  2775.84  2778.27     2.51     7.43      .04  2773.70
    1714.       0.    1714.       0.       0.     135.       0.      84.      40. 100000.00
      .40      .00    12.72      .00     .000     .055     .000     .000  2769.50  9981.70
  .035556     230.     210.     200.       20       11        0      .00    27.30 10009.00
0
 FLOW DISTRIBUTION FOR SECNO=   4420.00          CWSEL=   2775.75


    3/11/90      15:25:40                                                                    PAGE   35


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
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   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


      9982.   10011.
  PER Q=    100.0
   AREA=    134.7
    VEL=     12.7
  DEPTH=      4.9

 *SECNO 4460.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9988.3   10010.5  TYPE=      1  TARGET=       22.200
  4460.000     6.16  2789.26  2789.26  2789.15  2792.15     2.89     8.16      .11  2784.80
     1714.      0.    1714.      0.       0.     126.       0.      85.      41. 100000.00
       .40     .00    13.64     .00     .000     .055     .000     .000  2783.10  9988.30
   .042693     190.     210.     210.       17        5        0      .00    22.20 10010.50
0
 FLOW DISTRIBUTION FOR SECNO=   4460.00          CWSEL=   2789.26

 STA=    9988.   10011.
   PER Q=    100.0
    AREA=    125.7
     VEL=     13.6
   DEPTH=      5.7

 *SECNO 4610.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

 3470 ENCROACHMENT STATIONS=     9984.7   10012.4  TYPE=      1  TARGET=       27.700
  4610.000     6.02  2839.42  2839.42  2839.34  2841.93     2.51    26.09      .04  2835.90
     1714.      12.    1702.      0.       3.     133.       0.      87.      41. 100000.00
       .42     3.42    12.76     .00     .060     .050     .000     .000  2833.40  9984.70
   .026314     790.     790.     790.       12        8        0      .00    27.70 10012.40
0
 FLOW DISTRIBUTION FOR SECNO=   4610.00          CWSEL=   2839.42

 STA=    9985.    9986.   10012.
   PER Q=       .7     99.3
    AREA=      3.5    133.4
     VEL=      3.4     12.8
   DEPTH=      3.5      5.0

1
    3/11/90      15:25:40                                                                  PAGE   36


   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 *SECNO 4810.000
 7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
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3470 ENCROACHMENT STATIONS=     9947.6    9980.1  TYPE=      1  TARGET=       32.500
 4810.000     6.34  2895.04  2895.04  2895.08  2897.49     2.46    25.99      .01  2888.80
    1714.     179.    1436.     100.      25.     107.      17.      91.      42.   2892.00
      .44     7.16    13.42     5.71     .060     .050     .060     .000  2888.70  9947.60
    22860    1090.    1060.    1030.       12        8        0      .00    32.50  9980.10
0
FLOW DISTRIBUTION FOR SECNO=   4810.00          CWSEL=   2895.04

STA=    9948.    9952.    9973.    9980.
  PER Q=     10.4     83.8      5.8
   AREA=     24.9    107.0     17.4
    VEL=      7.2     13.4      5.7
  DEPTH=      5.3      5.3      2.3

*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9998.0   10015.7  TYPE=      1  TARGET=       17.700
 4990.000     9.07  2959.37  2959.37  2959.42  2963.20     3.84    21.45      .41  2952.70
    1714.      56.    1498.     160.      11.      90.      23.      94.      42.   2952.50
      .46     4.89    16.64     6.89     .060     .050     .060     .000  2950.30  9998.00
  .022294     930.     950.     970.       20       11        0      .00    17.70 10015.70
0
FLOW DISTRIBUTION FOR SECNO=   4990.00          CWSEL=   2959.37

STA=    9998.   10000.   10011.   10016.
  PER Q=      3.3     87.4      9.3
   AREA=     11.5     90.0     23.2
    VEL=      4.9     16.6      6.9
  DEPTH=      5.7      7.9      5.4

1
    3/11/90      15:25:40                                                                                                PAGE   37

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST

*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9991.5   10008.8  TYPE=      1  TARGET=       17.300
 5170.000     8.00  3050.70  3050.70  3050.76  3054.27     3.57    25.46      .03  3043.90
    1714.     130.    1584.       0.      18.     101.       0.      97.      43. 100000.00
      .48     7.32    15.63      .00     .060     .050     .000     .000  3042.70  9991.50
    32817     970.     950.     930.       20       11        0      .00    17.30 10008.80
0
FLOW DISTRIBUTION FOR SECNO=   5170.00          CWSEL=   3050.70

STA=    9992.    9995.   10009.
```

```
  PER Q=      7.6     92.4
   AREA=     17.7    101.4
    VEL=      7.3     15.6
  DEPTH=      5.9      7.1

*SECNO 5350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9907.8   10016.6  TYPE=      1  TARGET=      108.800
 5350.000     4.62  3165.92  3165.92  3165.69  3166.90      .98    33.22      .26  3165.40
    1714.       0.    1714.       0.       0.     215.       0.     100.      44. 100000.00
      .51      .00     7.96      .00     .000     .055     .000     .000  3161.30  9907.80
  .037297     960.     950.     940.       20       11        0      .00   108.80 10016.60
0
FLOW DISTRIBUTION FOR SECNO=   5350.00          CWSEL=   3165.92

STA=    9908.   10017.
  PER Q=    100.0
   AREA=    215.4
    VEL=      8.0
  DEPTH=      2.0

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   3/11/90      15:25:40                                                                    PAGE   38

   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9997.0   10024.5  TYPE=      1  TARGET=       27.500
 5510.000     5.48  3275.58  3275.58  3275.19  3278.13     2.55    27.02      .47  3270.60
    1714.       0.    1685.      29.       0.     131.       7.     104.      45.   3270.20
      .53      .00    12.91     4.32     .000     .050     .060     .000  3270.10  9997.00
  .028035     840.     840.     840.       20       11        0      .00    27.50 10024.50
0
FLOW DISTRIBUTION FOR SECNO=   5510.00          CWSEL=   3275.58

STA=    9997.   10023.   10024.
  PER Q=     98.3      1.7
   AREA=    130.6      6.6
    VEL=     12.9      4.3
  DEPTH=      5.0      5.1

*SECNO 5610.000
```

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ENCROACHMENT STATIONS= 9968.0 10008.0 TYPE= 1 TARGET= 40.000

5610.000	5.66	3330.46	3330.46	3330.11	3332.55	2.09	14.55	.05	3327.20
1714.	414.	1098.	202.	51.	83.	27.	105.	46.	3326.70
.54	8.14	13.23	7.41	.060	.050	.060	.000	3324.80	9968.00
.026954	520.	530.	540.	20	8	0	.00	40.00	10008.00

0

FLOW DISTRIBUTION FOR SECNO= 5610.00 CWSEL= 3330.46

STA=	9968.	9982.	10000.	10008.
PER Q=	24.2	64.1	11.8	
AREA=	50.9	83.0	27.2	
VEL=	8.1	13.2	7.4	
DEPTH=	3.7	4.6	3.4	

1

THIS RUN EXECUTED 3/11/90 15:26:55

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ROR CORR - 01,02,03
ODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	2030.000	4047.00	5.79	4.70	2239.00	.00	2243.70	584.07	236.37	9856.93	9874.20	10067.50	10093.30
	2030.000	4047.00	4.78	5.70	2239.00	.00	2244.70	814.82	193.30	9874.20	9874.20	10067.50	10067.50
*	2070.000	4047.00	9.94	4.30	2245.50	210.00	2249.80	366.78	145.91	9926.76	9943.50	10069.50	10072.67
*	2070.000	4047.00	10.16	4.34	2245.50	210.00	2249.84	353.76	126.00	9943.50	9943.50	10069.50	10069.50
*	2170.000	4047.00	6.80	3.91	2255.30	530.00	2259.21	280.32	398.06	9930.70	9986.50	10355.20	10374.09
	2170.000	4047.00	6.72	3.99	2255.30	530.00	2259.29	287.04	368.70	9986.50	9986.50	10355.20	10355.20
*	2260.000	4047.00	8.99	5.44	2266.80	480.00	2272.24	497.37	336.77	9683.86	9928.20	10010.60	10118.75
*	2260.000	4047.00	11.66	5.37	2266.80	480.00	2272.17	363.23	85.70	9924.90	9928.20	10010.60	10010.60
*	2310.000	4047.00	9.30	3.81	2273.20	260.00	2277.01	376.08	173.93	9941.63	9963.40	10110.10	10115.56
*	2310.000	4047.00	9.67	3.76	2273.20	260.00	2276.96	350.06	146.70	9963.40	9963.40	10110.10	10110.10
*	2400.000	2992.00	8.12	4.56	2285.40	480.00	2289.96	209.45	205.91	9747.23	9778.60	10014.90	10020.01

*	2400.000	2992.00	8.35	4.71	2285.40	480.00	2290.11	205.20	174.73	9778.60	9778.60	10014.90	10014.90
*	2470.000	2992.00	8.35	4.25	2297.00	370.00	2301.25	277.94	208.94	9915.42	9916.20	10057.10	10355.74
	2470.000	2992.00	8.91	4.16	2297.00	370.00	2301.16	248.96	140.90	9916.20	9916.20	10057.10	10057.10
*	2580.000	2992.00	7.93	4.29	2313.70	580.00	2317.99	226.57	217.59	9936.02	9985.20	10162.90	10153.78
*	2580.000	2992.00	8.46	4.31	2313.70	580.00	2318.01	213.92	166.80	9985.20	9985.20	10162.90	10152.00
*	2650.000	2992.00	7.36	4.38	2326.00	370.00	2330.38	203.88	253.20	9895.67	9903.40	10196.50	10148.87
*	2650.000	2992.00	7.56	4.41	2326.00	370.00	2330.41	200.02	243.60	9903.40	9903.40	10196.50	10147.00
*	2720.000	2992.00	6.65	2.70	2341.80	410.00	2344.50	186.74	348.46	9981.10	9982.00	10315.00	10329.56
*	2720.000	2992.00	6.71	2.69	2341.80	410.00	2344.49	181.54	333.00	9982.00	9982.00	10315.00	10315.00
*	2780.000	2992.00	7.92	3.82	2350.80	280.00	2354.62	191.41	246.59	9967.09	9960.70	10073.70	10264.90
*	2780.000	2992.00	9.38	4.60	2350.80	280.00	2355.41	220.84	163.00	9969.00	9960.70	10073.70	10132.00

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	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	2850.000	2992.00	10.05	5.58	2360.40	370.00	2365.98	320.20	351.15	9913.54	9946.70	10024.30	10889.30
*	2850.000	2992.00	10.82	5.94	2360.40	370.00	2366.34	312.04	77.24	9946.70	9946.70	10024.30	10023.94
*	2970.000	2992.00	3.74	5.14	2382.50	635.00	2387.64	320.38	358.76	9680.69	9700.00	10025.90	10493.35
*	2970.000	2992.00	7.35	6.00	2382.50	635.00	2388.50	214.36	339.24	9700.00	9700.00	10025.90	10370.00
	3090.000	2992.00	8.98	5.13	2409.30	635.00	2414.43	302.68	623.05	9738.27	9908.30	10049.50	10717.51
	3090.000	2992.00	8.50	6.03	2409.30	635.00	2415.33	304.43	203.29	9827.80	9908.30	10049.50	10034.99
*	3170.000	2992.00	9.10	5.50	2426.00	420.00	2431.50	277.52	157.40	9964.32	9962.00	10080.00	10121.72
*	3170.000	2992.00	9.60	5.37	2426.00	420.00	2431.37	257.02	114.00	9966.00	9962.00	10080.00	10080.00
*	3290.000	1714.00	6.44	5.46	2452.10	630.00	2457.56	112.40	168.82	9821.68	9829.60	10000.00	10012.66
*	3290.000	1714.00	7.53	5.55	2452.10	630.00	2457.65	96.23	150.24	9829.60	9829.60	10000.00	10000.00
*	3390.000	1714.00	7.95	5.50	2475.20	530.00	2480.70	109.62	112.27	9813.51	9815.50	10032.60	10027.22
*	3390.000	1714.00	8.18	5.46	2475.20	530.00	2480.66	105.84	107.15	9815.50	9815.50	10032.60	10026.00
*	3490.000	1714.00	9.12	4.55	2496.70	530.00	2501.25	130.26	75.99	9936.07	9933.50	10015.60	10019.25
*	3490.000	1714.00	9.31	4.50	2496.70	530.00	2501.20	127.58	70.05	9938.00	9933.50	10015.60	10015.60
*	3570.000	1714.00	9.70	4.75	2514.90	420.00	2519.65	149.98	63.91	9967.04	9968.30	10034.50	10035.77
*	3570.000	1714.00	9.74	4.74	2514.90	420.00	2519.64	147.53	61.33	9968.30	9968.30	10034.50	10034.50
*	3650.000	1714.00	8.70	3.68	2534.40	420.00	2538.08	146.29	89.18	9951.51	9955.60	10039.80	10040.69
*	3650.000	1714.00	8.77	3.69	2534.40	420.00	2538.08	142.56	84.20	9955.60	9955.60	10039.80	10039.80
*	3740.000	1714.00	6.47	2.42	2562.10	480.00	2564.52	90.93	221.01	9818.59	9833.30	10035.60	10039.60
*	3740.000	1714.00	6.56	2.46	2562.10	480.00	2564.56	90.86	202.30	9833.30	9833.30	10035.60	10035.60
*	3830.000	1714.00	8.29	4.58	2581.40	480.00	2585.98	98.89	102.18	9929.67	9933.10	10046.40	10031.85
	3830.000	1714.00	8.43	4.59	2581.40	480.00	2585.99	96.41	96.90	9933.10	9933.10	10046.40	10030.00
*	3930.000	1714.00	6.48	4.02	2609.50	530.00	2613.52	99.35	175.39	9906.90	9904.70	10075.40	10088.26
*	3930.000	1714.00	6.81	4.14	2609.50	530.00	2613.64	97.84	162.90	9908.00	9904.70	10075.40	10075.40
*	3990.000	1714.00	12.06	6.72	2622.90	320.00	2629.62	126.19	40.82	9990.95	10000.00	10026.70	10031.78

*	3990.000	1714.00	12.84	7.20	2622.90	320.00	2630.10	118.61	26.90	9999.80	10000.00	10026.70	10026.70
*	4070.000	1714.00	12.85	10.11	2648.40	420.00	2658.51	108.31	27.10	9986.30	9985.90	10013.00	10013.40
	4070.000	1714.00	13.04	10.06	2648.40	420.00	2658.46	107.74	25.00	9988.00	9985.90	10013.00	10013.00
*	4190.000	1714.00	12.73	6.83	2695.10	630.00	2701.93	123.76	29.94	9982.85	9988.70	10013.00	10012.79
*	4190.000	1714.00	13.57	6.79	2695.10	630.00	2701.89	106.04	22.30	9988.70	9988.70	10013.00	10011.00
*	4280.000	1714.00	11.38	5.61	2727.50	480.00	2733.11	134.29	48.53	9972.39	9983.70	10014.00	10020.92
*	4280.000	1714.00	12.29	5.73	2727.50	480.00	2733.23	109.81	30.30	9983.70	9983.70	10014.00	10014.00
*	4380.000	1714.00	11.32	6.97	2754.10	530.00	2761.07	112.20	48.43	9980.28	9984.20	10013.80	10028.71
*	4380.000	1714.00	12.41	6.83	2754.10	530.00	2760.93	91.36	29.60	9984.20	9984.20	10013.80	10013.80

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	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	4420.000	1714.00	12.04	6.34	2769.50	210.00	2775.84	101.12	35.54	9975.42	9981.70	10011.00	10010.96
*	4420.000	1714.00	12.72	6.25	2769.50	210.00	2775.75	90.90	27.30	9981.70	9981.70	10011.00	10009.00
*	4460.000	1714.00	12.69	6.05	2783.10	210.00	2789.15	114.04	34.47	9983.08	9988.30	10010.50	10017.55
*	4460.000	1714.00	13.64	6.16	2783.10	210.00	2789.26	82.95	22.20	9988.30	9988.30	10010.50	10010.50
*	4610.000	1714.00	10.88	5.94	2833.40	790.00	2839.34	133.71	61.70	9953.21	9985.70	10012.40	10014.91
*	4610.000	1714.00	12.76	6.02	2833.40	790.00	2839.42	105.66	27.70	9984.70	9985.70	10012.40	10012.40
	4810.000	1714.00	10.95	6.38	2888.70	1060.00	2895.08	139.66	79.26	9936.40	9952.30	9972.60	10015.66
	4810.000	1714.00	13.42	6.34	2888.70	1060.00	2895.04	113.36	32.50	9947.60	9952.30	9972.60	9980.10
*	4990.000	1714.00	14.76	9.12	2950.30	950.00	2959.42	129.94	28.82	9992.75	10000.00	10011.40	10021.57
*	4990.000	1714.00	16.64	9.07	2950.30	950.00	2959.37	114.79	17.70	9998.00	10000.00	10011.40	10015.70
*	5170.000	1714.00	13.70	8.06	3042.70	950.00	3050.76	135.49	32.28	9982.89	9994.50	10008.80	10015.17
*	5170.000	1714.00	15.63	8.00	3042.70	950.00	3050.70	94.61	17.30	9991.50	9994.50	10008.80	10008.80
*	5350.000	1714.00	7.77	4.39	3161.30	950.00	3165.69	87.51	121.69	9906.72	9907.80	10016.60	10030.37
*	5350.000	1714.00	7.96	4.62	3161.30	950.00	3165.92	88.75	108.80	9907.80	9907.80	10016.60	10016.60
*	5510.000	1714.00	11.89	5.09	3270.10	840.00	3275.19	118.29	45.57	9988.70	9997.00	10023.20	10034.28
*	5510.000	1714.00	12.91	5.48	3270.10	840.00	3275.58	102.37	27.50	9997.00	9997.00	10023.20	10024.50
*	5610.000	1714.00	11.53	5.31	3324.80	530.00	3330.11	113.52	68.73	9956.45	9981.90	10000.00	10025.18
*	5610.000	1714.00	13.23	5.66	3324.80	530.00	3330.46	104.40	40.00	9968.00	9981.90	10000.00	10008.00

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OCOTILLO WASH

SUMMARY PRINTOUT

SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
2030.000	4047.00	2243.70	.00	.00	.00	.00	236.37	48.01	.00	2244.20	.00
2030.000	4047.00	2244.70	1.00	.00	.00	10067.50	193.30	24.67	.00	2245.05	.86

*	2070.000	4047.00	2249.80	.00	6.10	2.79	.00	145.91	121.75	2.79	2251.29	.00
*	2070.000	4047.00	2249.84	.05	5.14	3.00	10069.50	126.00	130.88	3.00	2251.45	.15
	2170.000	4047.00	2259.21	.00	9.41	9.00	.00	398.06	208.43	9.00	2259.92	.00
	2170.000	4047.00	2259.29	.08	9.45	9.09	10355.20	368.70	198.79	9.09	2259.99	.08
*	2260.000	4047.00	2272.24	.00	13.03	15.74	.00	336.77	66.21	15.74	2273.25	.00
*	2260.000	4047.00	2272.17	-.08	12.88	14.34	10010.60	85.70	124.14	14.34	2274.25	1.00
*	2310.000	4047.00	2277.01	.00	4.77	18.95	.00	173.93	115.80	18.95	2278.33	.00
*	2310.000	4047.00	2276.96	-.05	4.79	16.64	10110.10	146.70	133.66	16.64	2278.41	.08
*	2400.000	2992.00	2289.96	.00	12.95	23.51	.00	205.91	204.07	23.51	2290.95	.00
*	2400.000	2992.00	2290.11	.15	13.16	20.92	10014.90	174.73	212.61	20.92	2291.20	.25
*	2470.000	2992.00	2301.25	.00	11.29	26.74	.00	208.94	115.88	26.74	2302.31	.00
*	2470.000	2992.00	2301.16	-.09	11.05	23.87	10057.10	140.90	144.43	23.87	2302.39	.09
*	2580.000	2992.00	2317.99	.00	16.74	31.93	.00	217.59	174.39	31.93	2318.92	.00
*	2580.000	2992.00	2318.01	.02	16.85	28.45	10152.00	166.80	195.62	28.45	2319.12	.20
*	2650.000	2992.00	2330.38	.00	12.39	35.34	.00	253.20	215.36	35.34	2331.23	.00
*	2650.000	2992.00	2330.41	.04	12.40	31.64	10147.00	243.60	223.75	31.64	2331.30	.07
*	2720.000	2992.00	2344.50	.00	14.12	39.37	.00	348.46	256.70	39.37	2345.18	.00
*	2720.000	2992.00	2344.49	-.01	14.07	35.60	10315.00	333.00	271.62	35.60	2345.19	.01
*	2780.000	2992.00	2354.62	.00	10.12	42.11	.00	246.59	244.35	42.11	2355.50	.00
	2780.000	2992.00	2355.41	.78	10.92	38.20	10132.00	163.00	183.55	38.20	2356.55	1.05
*	2850.000	2992.00	2365.98	.00	11.36	46.82	.00	351.15	87.31	46.82	2367.44	.00
*	2850.000	2992.00	2366.34	.36	10.94	40.92	10024.30	77.24	91.94	40.92	2368.16	.73
*	2970.000	2992.00	2387.64	.00	21.65	55.73	.00	358.76	87.22	55.73	2388.27	.00
*	2970.000	2992.00	2388.50	.86	22.16	46.12	10370.00	339.24	194.82	46.12	2389.26	1.00
*	3090.000	2992.00	2414.43	.00	26.80	67.03	.00	623.05	97.72	67.03	2415.36	.00
*	3090.000	2992.00	2415.33	.90	26.83	52.26	10049.50	203.29	96.60	52.26	2416.34	.99
*	3170.000	2992.00	2431.50	.00	17.06	73.72	.00	157.40	116.24	73.72	2432.77	.00
*	3170.000	2992.00	2431.37	-.12	16.04	55.71	10080.00	114.00	135.51	55.71	2432.80	.03
*	3290.000	1714.00	2457.56	.00	26.07	78.02	.00	168.82	232.52	78.02	2458.34	.00
*	3290.000	1714.00	2457.65	.08	26.28	59.61	10000.00	150.24	317.25	59.61	2458.53	.19

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	SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
*	3390.000	1714.00	2480.70	.00	23.14	80.87	.00	112.27	244.46	80.87	2481.68	.00
*	3390.000	1714.00	2480.66	-.05	23.01	62.27	10026.00	107.15	262.28	62.27	2481.69	.01
	3490.000	1714.00	2501.25	.00	20.54	83.33	.00	75.99	173.14	83.33	2502.54	.00
*	3490.000	1714.00	2501.20	-.04	20.55	64.66	10015.60	70.05	180.50	64.66	2502.55	.01
*	3570.000	1714.00	2519.65	.00	18.40	85.10	.00	63.91	130.60	85.10	2521.11	.00
*	3570.000	1714.00	2519.64	-.01	18.43	66.40	10034.50	61.33	134.97	66.40	2521.11	.00

*	3650.000	1714.00	2538.08	.00	18.43	86.91	.00	89.18	137.27	86.91	2539.25	.00
*	3650.000	1714.00	2538.08	.00	18.45	68.19	10039.80	84.20	144.55	68.19	2539.28	.03
	3740.000	1714.00	2564.52	.00	26.43	89.49	.00	221.01	355.33	89.49	2565.15	.00
*	3740.000	1714.00	2564.56	.05	26.48	70.70	10035.60	202.30	355.88	70.70	2565.23	.08
*	3830.000	1714.00	2585.98	.00	21.47	92.12	.00	102.18	300.40	92.12	2587.04	.00
*	3830.000	1714.00	2585.99	.00	21.42	73.26	10030.00	96.90	316.06	73.26	2587.09	.05
*	3930.000	1714.00	2613.52	.00	27.54	94.95	.00	175.39	297.63	94.95	2614.22	.00
*	3930.000	1714.00	2613.64	.12	27.66	76.03	10075.40	162.90	306.87	76.03	2614.36	.15
*	3990.000	1714.00	2629.62	.00	16.09	96.46	.00	40.82	184.49	96.46	2631.66	.00
*	3990.000	1714.00	2630.10	.49	16.46	77.45	10026.70	26.90	208.82	77.45	2632.66	1.00
*	4070.000	1714.00	2658.51	.00	28.89	97.85	.00	27.10	250.42	97.85	2661.07	.00
*	4070.000	1714.00	2658.46	-.05	28.35	78.73	10013.00	25.00	253.07	78.73	2661.10	.03
*	4190.000	1714.00	2701.93	.00	43.42	99.84	.00	29.94	191.81	99.84	2704.37	.00
*	4190.000	1714.00	2701.89	-.04	43.43	80.60	10011.00	22.30	261.25	80.60	2704.75	.38
*	4280.000	1714.00	2733.11	.00	31.18	101.54	.00	48.53	162.91	101.54	2734.97	.00
*	4280.000	1714.00	2733.23	.12	31.35	82.06	10014.00	30.30	243.63	82.06	2735.58	.61
*	4380.000	1714.00	2761.07	.00	27.96	103.56	.00	48.43	233.38	103.56	2762.96	.00
*	4380.000	1714.00	2760.93	-.14	27.70	83.75	10013.80	29.60	351.99	83.75	2763.32	.36
*	4420.000	1714.00	2775.84	.00	14.78	104.31	.00	35.54	287.29	104.31	2778.06	.00
	4420.000	1714.00	2775.75	-.09	14.82	84.41	10009.00	27.30	355.56	84.41	2778.27	.20
*	4460.000	1714.00	2789.15	.00	13.31	105.03	.00	34.47	225.89	105.03	2791.47	.00
*	4460.000	1714.00	2789.26	.11	13.51	85.04	10010.50	22.20	426.93	85.04	2792.15	.67
*	4610.000	1714.00	2839.34	.00	50.18	108.13	.00	61.70	164.33	108.13	2840.93	.00
*	4610.000	1714.00	2839.42	.08	50.16	87.42	10012.40	27.70	263.14	87.42	2841.93	1.00
*	4810.000	1714.00	2895.08	.00	55.74	113.08	.00	79.26	150.63	113.08	2896.50	.00
*	4810.000	1714.00	2895.04	-.04	55.62	90.90	9980.10	32.50	228.60	90.90	2897.49	1.00
*	4990.000	1714.00	2959.42	.00	64.34	117.06	.00	28.82	174.01	117.06	2962.19	.00
*	4990.000	1714.00	2959.37	-.05	64.33	93.89	10015.70	17.70	222.94	93.89	2963.20	1.01

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
*	5170.000	1714.00	3050.76	.00	91.34	120.39	.00	32.28	160.03	120.39	3053.25	.00
*	5170.000	1714.00	3050.70	-.06	91.33	96.55	10008.80	17.30	328.17	96.55	3054.27	1.01
*	5350.000	1714.00	3165.69	.00	114.93	124.49	.00	121.69	383.66	124.49	3166.63	.00
*	5350.000	1714.00	3165.92	.23	115.22	100.20	10016.60	108.80	372.97	100.20	3166.90	.27
	5510.000	1714.00	3275.19	.00	109.50	128.23	.00	45.57	209.96	128.23	3277.12	.00
	5510.000	1714.00	3275.58	.38	109.66	103.60	10024.50	27.50	280.35	103.60	3278.13	1.00
*	5610.000	1714.00	3330.11	.00	54.92	130.43	.00	68.73	227.97	130.43	3331.55	.00
*	5610.000	1714.00	3330.46	.35	54.89	105.41	10008.00	40.00	269.54	105.41	3332.55	1.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   4420.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4420.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4460.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4460.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4460.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4460.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4460.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   4610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4610.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   4810.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4810.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4810.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4810.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4810.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   4990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4990.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4990.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4990.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4990.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   5170.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5170.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5170.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   5170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5170.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5170.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   5350.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5350.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5350.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   5350.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5350.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5350.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   5510.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5510.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   5510.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   5510.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5510.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5510.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

 ION SECNO=   5610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   5610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, OCOTILLO WASH
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
2030.000	193.	847.	4.8	2244.7	2243.7	1.0
2070.000	126.	398.	10.2	2249.8	2249.8	.0
2170.000	369.	602.	6.7	2259.3	2259.2	.1
2260.000	86.	352.	11.5	2272.2	2272.2	.0
710.000	147.	418.	9.7	2277.0	2277.0	.0
00.000	236.	358.	8.4	2290.1	2290.0	.1
2470.000	141.	336.	8.9	2301.2	2301.3	-.1
2580.000	167.	354.	8.5	2318.0	2318.0	.0
2650.000	244.	396.	7.6	2330.4	2330.4	.0
2720.000	333.	446.	6.7	2344.5	2344.5	.0
2780.000	163.	364.	8.2	2355.4	2354.6	.8
2850.000	77.	276.	10.8	2366.3	2366.0	.3
2970.000	670.	438.	6.8	2388.5	2387.6	.9
3090.000	207.	405.	7.4	2415.3	2414.4	.9
3170.000	114.	312.	9.6	2431.4	2431.5	-.1
3290.000	170.	228.	7.5	2457.6	2457.6	.0
3390.000	210.	210.	8.2	2480.7	2480.7	.0
3490.000	78.	184.	9.3	2501.2	2501.2	.0
3570.000	66.	176.	9.7	2519.6	2519.6	.0
3650.000	84.	196.	8.8	2538.1	2538.1	.0
3740.000	202.	261.	6.6	2564.6	2564.5	.1
3830.000	97.	203.	8.4	2586.0	2586.0	.0
3930.000	167.	252.	6.8	2613.6	2613.5	.1
3990.000	27.	135.	12.7	2630.1	2629.6	.5
4070.000	25.	131.	13.0	2658.5	2658.5	.0
4190.000	22.	126.	13.6	2701.9	2701.9	.0
4280.000	30.	139.	12.3	2733.2	2733.1	.1
4380.000	30.	138.	12.4	2760.9	2761.1	-.2
4420.000	27.	135.	12.7	2775.8	2775.8	.0
460.000	22.	126.	13.6	2789.3	2789.2	.1
10.000	28.	137.	12.5	2839.4	2839.3	.1
4810.000	32.	149.	11.5	2895.0	2895.1	-.1
4990.000	18.	125.	13.7	2959.4	2959.4	.0
5170.000	17.	119.	14.4	3050.7	3050.8	-.1
5350.000	109.	215.	8.0	3165.9	3165.7	.2

5510.000	27.	137.	12.5	3275.6	3275.2	.4
5610.000	40.	161.	10.6	3330.5	3330.1	.4

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ROR: 01,02,03                                    *
*  ATED:  SEPTEMBER 1989                            *
*  RUN DATE     2/26/90    TIME    16:13:56         *
*****************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

OCT1.OUT

100 YR CWSEL 2-27-90

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X    X            X     X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX   XXXXX
X     X  X        X                 X
X     X  X        X    X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:13:56

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 1  (OCT1.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .0185                                2275.01

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150



QT       4      802     1201     1397     1743

NC     .045     .045     .035       .1       .3

       ******REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 2310 OF OCOTILLO WASH (OCEAST)
         SEC. 000 = SEC. 2.35 OF OCOTILLO WASH (OCEAST)
         QT VALUES FROM PC "36"
X1     2310       21  10000.0  10110.1
GR   2294.0   9694.6   2286.6   9724.9   2279.8   9775.6   2278.8   9803.3   2279.9   9832.4
GR   2277.9   9885.7   2277.9   9935.4   2276.8   9943.1   2276.0   9963.4   2273.3  10000.0
GR   2273.2  10013.4   2274.8  10036.0   2274.2  10054.9   2273.7  10093.0   2273.6  10110.1
GR   2283.6  10126.1   2283.9  10162.2   2284.2  10194.7   2284.6  10231.8   2286.9  10283.2
GR   2286.3  10309.7
```

```
NC     .045      .045      .040

X1      90        21    9879.4   10015.0     670     710     690
GR    2300.8    9792.8  2301.1    9834.3  2299.3  9852.3  2291.3  9879.4  2289.9  9887.4
GR    2290.0    9905.2  2287.7    9923.9  2289.5  9940.0  2288.4  9957.1  2290.1  9976.0
GR    2290.6    9986.6  2289.4   10000.0  2288.5 10012.4  2290.7 10015.0  2292.0 10028.1
GR    2291.8   10061.3  2293.7   10073.2  2293.3 10090.7  2299.6 10120.4  2306.7 10150.4
GR    2306.7   10181.7

X1     160        19    9992.8   10009.7     390     400     390
GR    2313.1    9845.5  2314.1    9882.1  2302.0  9916.1  2300.6  9947.5  2300.4  9947.6
GR    2299.7    9957.8  2297.5    9992.8  2296.9 10000.0  2298.1 10009.7  2301.3 10012.2
GR    2300.6   10016.1  2299.3   10021.4  2302.3 10024.9  2302.4 10044.7  2304.5 10073.4
GR    2307.4   10101.7  2309.7   10148.1  2314.1 10183.2  2320.2 10216.1

X1     240        15    9941.6   10000.0     420     390     420
GR    2323.6    9863.7  2323.7    9890.9  2320.8  9905.0  2315.9  9924.9  2308.1  9941.6
GR    2309.1    9978.0  2308.5   10000.0  2309.3 10017.7  2308.8 10047.9  2309.8 10062.4
GR    2310.5   10097.1  2313.2   10151.6  2317.4 10175.1  2321.3 10206.2  2322.0 10227.5

QT       4       126       190       223     283

         QT VALUES FROM SUBWTRSHD "G2B"
         CONFLUENCE WITH OCT1A
X1     300        14    9986.7   10008.6     330     310     320
GR    2333.5    9930.6  2332.3    9970.8  2315.7  9986.7  2314.0  9998.1  2314.3 10000.0
GR    2316.3   10008.6  2316.7   10018.0  2317.8 10053.4  2318.8 10085.0  2319.5 10111.3
GR    2317.8   10128.5  2320.1   10135.7  2321.5 10182.6  2321.5 10186.9

X1     370        20    9995.5   10004.8     360     380     370
GR    2343.0    9789.3  2343.4    9809.3  2341.2  9832.5  2330.8  9872.1  2326.2  9896.2
GR    2326.0    9926.2  2322.5    9972.9  2322.7  9974.5  2319.9  9995.5  2319.5 10000.0
GR    2321.4   10004.8  2328.2   10022.6  2332.8 10034.8  2334.9 10062.2  2338.1 10094.9
GR    2343.1   10121.5  2347.9   10151.6  2351.6 10187.5  2353.9 10245.1  2353.1 10247.0

X1     420        13    9990.8   10038.4     230     250     260
GR    2347.2    9924.2  2346.8    9943.3  2343.9  9967.6  2340.2  9980.0  2338.8  9980.2
GR    2327.8    9990.8  2327.9   10000.0  2331.8 10038.4  2334.3 10072.5  2334.7 10113.1
GR    2341.2   10154.6  2344.5   10194.1  2345.2 10220.8

NC     .045      .045      .04

X1     510        14    9978.7   10000.0     470     490     480
GR    2360.1    9900.3  2359.5    9928.1  2358.2  9943.0  2350.3  9961.9  2343.7  9978.7
GR    2342.1    9997.9  2342.7   10000.0  2345.7 10015.4  2346.1 10016.8  2347.8 10048.8
GR    2350.3   10071.5  2356.6   10092.4  2361.1 10109.6  2361.4 10117.4
```

X1	630	10	9995.0	10000.0	630	630	630			
GR	2383.7	9908.0	2374.8	9952.8	2372.2	9969.5	2371.5	9970.0	2364.1	9995.0
GR	2365.4	10000.0	2371.8	10023.0	2381.4	10041.6	2383.2	10061.0	2383.2	10087.0
X1	730	14	9973.5	10016.9	530	530	530			
GR	2397.1	9874.8	2397.4	9902.7	2392.3	9921.1	2387.9	9948.8	2386.6	9968.1
GR	2385.5	9973.5	2380.6	10000.0	2385.8	10016.9	2388.5	10029.4	2395.5	10049.7
GR	2400.6	10074.0	2403.4	10100.1	2405.6	10170.8	2405.8	10184.4		
X1	810	15	10000.0	10019.5	420	420	420			
GR	2411.9	9871.6	2412.3	9933.4	2409.5	9953.0	2403.0	9987.0	2403.0	9987.5
GR	2399.1	10000.0	2400.6	10019.5	2402.0	10026.4	2402.6	10049.1	2405.0	10072.3
GR	2411.2	10101.3	2411.9	10122.3	2414.6	10152.7	2417.5	10195.3	2416.6	10236.6
X1	910	11	9990.6	10000.0	530	530	530			
GR	2428.6	9902.3	2430.1	9951.4	2428.6	9959.7	2421.7	9980.0	2414.3	9990.6
GR	2415.4	10000.0	2417.8	10024.2	2421.4	10049.5	2425.0	10085.6	2431.9	10122.6
GR	2434.7	10164.4								
X1	1000	13	9981.0	10018.7	490	470	480			
GR	2444.8	9852.7	2444.2	9885.7	2442.1	9906.6	2435.9	9930.4	2434.6	9961.2
GR	2431.4	9981.0	2427.3	10000.0	2430.6	10018.7	2431.8	10023.1	2440.3	10050.1
GR	2443.5	10070.1	2445.7	10132.5	2445.2	10160.8				
X1	1100	10	9982.0	10025.1	530	530	530			
GR	2457.6	9909.5	2458.2	9944.4	2455.4	9964.8	2452.1	9982.0	2447.0	9998.4
GR	2448.7	10000.0	2450.4	10025.1	2458.1	10067.7	2461.2	10098.4	2463.4	10157.5

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 2310.000
       ******REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 2310 OF OCOTILLO WASH (OCEAST)
         SEC. 000 = SEC. 2.35 OF OCOTILLO WASH (OCEAST)
         QT VALUES FROM PC "36"
 2310.000     1.79  2274.99  2274.99  2275.01  2275.54      .54      .00      .00  2273.30
    802.     79.     718.       5.      19.     118.       2.       0.       0.   2273.60
     .00     4.05     6.09     3.19     .045     .035     .045     .000  2273.20  9977.04
  .018833     0.       0.       0.        0        5        0      .00   135.28 10112.33


*SECNO 90.000

3265 DIVIDED FLOW

 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
   90.000     2.65  2290.35  2290.35      .00  2290.91      .56    14.44      .01  2291.30
    802.       0.     802.       0.       0.     133.       0.       2.       2.   2290.70
     .03      .00     6.02      .00     .000     .040     .000     .000  2287.70  9884.85
  .023474    670.     690.     710.       20       11        0      .00   121.52 10014.58


*SECNO 160.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     3.42  2300.32  2300.32      .00  2301.22      .90     6.95      .10  2297.50
    802.     342.     448.      12.      63.      50.       5.       3.       3.   2298.10
     .05     5.43     9.00     2.64     .045     .040     .045     .000  2296.90  9948.78
  .013990    390.     390.     400.        4        8        0      .00    68.00 10022.59


*SECNO 240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  240.000     1.92  2310.02  2310.02      .00  2310.55      .53     6.94      .04  2308.10
    802.      17.     508.     277.       4.      79.      61.       5.       4.   2308.50
     .07     4.30     6.46     4.56     .045     .040     .045     .000  2308.10  9937.49
   1376     420.     420.     390.        5       11        0      .00   135.87 10073.35
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```
 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .21

         QT VALUES FROM SUBWTRSHD "G2B"
         CONFLUENCE WITH OCT1A
 300.000     2.20  2316.20      .00      .00  2316.53      .34     5.96      .02  2315.70
    126.       0.     126.       0.       0.      27.       0.       5.       4.   2316.30
     .09     1.11     4.65      .00     .045     .040     .000     .000  2314.00  9986.22
 .011765     330.     320.     310.        3        0        0      .00    21.96 10008.17


*SECNO 370.000
 370.000     2.03  2321.53  2321.48      .00  2322.05      .51     5.46      .05  2319.90
    126.      40.      86.       0.      10.      13.       0.       5.       5.   2321.40
     .10     3.98     6.41      .05     .045     .040     .045     .000  2319.50  9983.25
 .019236     360.     370.     380.        7       11        0      .00    21.89 10005.15


 ) 420.000
7.. MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 420.000     1.44  2329.24  2329.24      .00  2329.73      .49     5.49      .00  2327.80
    126.       3.     123.       0.       1.      22.       0.       5.       5.   2331.80
     .12     3.25     5.66      .00     .045     .040     .000     .000  2327.80  9989.41
 .024318     230.     260.     250.        4       19        0      .00    23.82 10013.23


*SECNO 510.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 510.000     1.71  2343.81  2343.81      .00  2344.28      .47    11.80      .00  2343.70
    126.       0.     115.      11.       0.      20.       3.       6.       5.   2342.70
     .14      .05     5.65     3.46     .045     .040     .045     .000  2342.10  9978.43
 .024827     470.     480.     490.        3       11        0      .00    27.25 10005.68


*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 630.000     2.44  2366.54  2366.54      .00  2367.18      .65    13.92      .05  2364.10
    126.      52.      67.       7.      10.       9.       2.       6.       5.   2365.40
     .17     5.15     7.53     3.11     .045     .040     .045     .000  2364.10  9986.77
 .019784     630.     630.     630.        5       11        0      .00    17.31 10004.08
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  730.000     2.20  2382.80  2382.80      .00  2383.36      .56    11.54      .01  2385.50
     126.       0.     126.       0.       0.      21.       0.       6.       6.   2385.80
      .19      .00     6.03      .00     .000     .040     .000     .000  2380.60  9988.11
  .024070     530.     530.     530.        5       15        0      .00    19.03 10007.14


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     1.69  2400.79  2400.79      .00  2401.27      .48    10.56      .01  2399.10
     126.      21.     105.       0.       5.      18.       0.       7.       6.   2400.60
      .21     4.63     5.75      .05     .045     .040     .045     .000  2399.10  9994.60
  .026267     420.     420.     420.        2       19        0      .00    25.82 10020.42


*SECNO 910.000
 3720 TRIALS ATTEMPTED WSEL,CWSEL
3720 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  910.000     2.14  2416.44  2416.44      .00  2417.00      .56    11.12      .02  2414.30
     126.      13.      98.      15.       3.      15.       5.       7.       6.   2415.40
      .24     3.96     6.58     2.78     .045     .040     .045     .000  2414.30  9987.54
  .017140     530.     530.     530.       20       11        0      .00    22.90 10010.44


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     2.06  2429.36  2429.36      .00  2429.88      .52     9.60      .00  2431.40
     126.       0.     126.       0.       0.      22.       0.       7.       6.   2430.60
      .26      .00     5.76      .00     .000     .040     .000     .000  2427.30  9990.45
  .023670     490.     480.     470.        5        8        0      .00    21.23 10011.68


*SECNO 1100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1100.000     2.75  2449.75  2449.75      .00  2450.20      .46    13.15      .01  2452.10
     126.       0.     126.       0.       0.      23.       0.       7.       7.   2450.40
      .29      .00     5.42      .00     .000     .040     .000     .000  2447.00  9989.57
  .026050     530.     530.     530.       10       11        0      .00    25.89 10015.46
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T      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2     50-YR FLOOD FREQUENCY MODEL
T3     OCOTILLO WASH, TRIB. 1 (OCT1.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .0185                              2275.34

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 2310.000
3720 CRITICAL DEPTH ASSUMED
       ******REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 2310 OF OCOTILLO WASH (OCEAST)
         SEC. 000 = SEC. 2.35 OF OCOTILLO WASH (OCEAST)
         QT VALUES FROM PC "36"
 2310.000     2.13  2275.33  2275.33  2275.34  2276.02      .69      .00      .00  2273.30
    1201.     121.    1072.       8.      28.     155.       2.       0.       0.   2273.60
      .00     4.32     6.91     3.48     .045     .035     .045     .000  2273.20  9972.46
  .016795       0.       0.       0.        0        5        0      .00   140.41 10112.87


*SECNO 90.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     3.00  2290.70  2290.70      .00  2291.40      .70    13.26      .00  2291.30
    1201.       0.    1201.       0.       0.     178.       0.       3.       2.   2290.70
      .03      .00     6.73      .00     .000     .040     .000     .000  2287.70  9882.83
  .022282     670.     690.     710.       12       11        0      .00   132.17 10015.00


*SECNO 160.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.06  2300.96  2300.96      .00  2301.97     1.01     6.39      .09  2297.50
    1201.     576.     590.      35.      94.      61.      11.       4.       3.   2298.10
      .04     6.16     9.72     3.35     .045     .040     .045     .000  2296.90  9939.37
  .012544     390.     390.     400.        3       11        0      .00    81.83 10023.34


*SECNO 240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  240.000     2.27  2310.37  2310.37      .00  2311.02      .65     6.29      .04  2308.10
    1201.      25.     717.     459.       6.      99.      90.       6.       4.   2308.50
      .06     4.61     7.24     5.12     .045     .040     .045     .000  2308.10  9936.74
  .018775     420.     420.     390.       10       11        0      .00   153.97 10090.71
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   :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .16

         QT VALUES FROM SUBWTRSHD "G2B"
         CONFLUENCE WITH OCT1A
  300.000     2.37  2316.37      .00      .00  2316.96      .59     5.94      .01  2315.70
     190.       0.     190.       0.       0.      31.       0.       7.       5.   2316.30
      .07     1.67     6.16      .04     .045     .040     .045     .000  2314.00  9986.06
  .017900     330.     320.     310.        1        0        0      .00    24.21 10010.26


*SECNO 370.000
  370.000     2.56  2322.06      .00      .00  2322.57      .50     5.60      .01  2319.90
     190.      69.     120.       1.      18.      18.       1.       7.       5.   2321.40
      .09     3.95     6.51     1.73     .045     .040     .045     .000  2319.50  9979.28
  .013071     360.     370.     380.        5        0        0      .00    27.26 10006.54


  ) 420.000
7 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     1.78  2329.58  2329.58      .00  2330.16      .58     4.31      .02  2327.80
     190.       6.     184.       0.       2.      30.       0.       7.       5.   2331.80
      .10     3.62     6.18      .00     .045     .040     .000     .000  2327.80  9989.08
  .022879     230.     260.     250.        2       19        0      .00    27.46 10016.55


*SECNO 510.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  510.000     2.02  2344.12  2344.12      .00  2344.69      .58    10.57      .00  2343.70
     190.       0.     170.      19.       0.      27.       5.       8.       6.   2342.70
      .13     1.61     6.30     3.78     .045     .040     .045     .000  2342.10  9977.64
  .021198     470.     480.     490.        5        8        0      .00    29.64 10007.28


*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  630.000     2.89  2366.99  2366.99      .00  2367.76      .77    12.48      .06  2364.10
     190.      78.      95.      17.      14.      11.       5.       8.       6.   2365.40
      .15     5.58     8.46     3.76     .045     .040     .045     .000  2364.10  9985.25
  .018540     630.     630.     630.        9       14        0      .00    20.44 10005.70
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  730.000     2.59  2383.19  2383.19      .00  2383.85      .67    10.90      .01  2385.50
     190.       0.     190.       0.       0.      29.       0.       9.       6.   2385.80
      .17      .00     6.56      .00     .000     .040     .000     .000  2380.60  9986.01
  .022929     530.     530.     530.        6       15        0      .00    22.40 10008.41


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     2.00  2401.10  2401.10      .00  2401.70      .60     9.55      .01  2399.10
     190.      31.     158.       1.       6.      24.       1.       9.       6.   2400.60
      .19     4.81     6.47     1.95     .045     .040     .045     .000  2399.10  9993.58
  .022549     420.     420.     420.        3       15        0      .00    28.39 10021.97


*SECNO 910.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  910.000     2.53  2416.83  2416.83      .00  2417.49      .65     9.89      .02  2414.30
     190.      19.     136.      34.       5.      19.      10.       9.       7.   2415.40
      .22     4.24     7.31     3.30     .045     .040     .045     .000  2414.30  9986.97
  .015694     530.     530.     530.       10       11        0      .00    27.48 10014.45


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     2.42  2429.72  2429.72      .00  2430.34      .62     9.03      .00  2431.40
     190.       0.     190.       0.       0.      30.       0.      10.       7.   2430.60
      .24      .00     6.31      .00     .000     .040     .000     .000  2427.30  9988.80
  .023000     490.     480.     470.        3       11        0      .00    24.90 10013.70


*SECNO 1100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1100.000     3.06  2450.06  2450.06      .00  2450.60      .53    12.80      .01  2452.10
     190.       0.     190.       0.       0.      32.       0.      10.       7.   2450.40
      .26      .00     5.87      .00     .000     .040     .000     .000  2447.00  9988.54
  .025395     530.     530.     530.       11       11        0      .00    31.61 10020.15
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 1  (OCT1.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                         .0185                              2275.49

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 2310.000
3720 CRITICAL DEPTH ASSUMED
       ******REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 2310 OF OCOTILLO WASH (OCEAST)
         SEC. 000 = SEC. 2.35 OF OCOTILLO WASH (OCEAST)
         QT VALUES FROM PC "36"
 2310.000     2.28  2275.48  2275.48  2275.49  2276.24      .76      .00      .00  2273.30
    1397.     143.    1244.      10.      32.     171.       3.       0.       0.   2273.60
      .00     4.45     7.26     3.62     .045     .035     .045     .000  2273.20  9970.47
  .016251       0.       0.       0.        0        5        0      .00   142.63 10113.10


*SECNO 90.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     3.14  2290.84  2290.84      .00  2291.62      .78    12.88      .00  2291.30
    1397.       0.    1397.       0.       0.     197.       0.       3.       2.   2290.70
      .03      .00     7.08      .83     .000     .040     .045     .000  2287.70  9882.02
  .021729     670.     690.     710.       12       14        0      .00   134.41 10016.43


*SECNO 160.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.33  2301.23  2301.23      .00  2302.28     1.05     6.20      .08  2297.50
    1397.     693.     654.      50.     109.      65.      14.       5.       3.   2298.10
      .04     6.38    10.03     3.63     .045     .040     .045     .000  2296.90  9933.39
  .012138     390.     390.     400.        3       11        0      .00    89.81 10023.65


*SECNO 240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  240.000     2.43  2310.53  2310.53      .00  2311.22      .69     6.03      .04  2308.10
    1397.      30.     813.     555.       6.     108.     105.       7.       4.   2308.50
      .06     4.70     7.49     5.29     .045     .040     .045     .000  2308.10  9936.39
  .017816     420.     420.     390.       11       11        0      .00   161.37 10097.76
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM SUBWTRSHD "G28"
        CONFLUENCE WITH OCT1A
 300.000     2.46  2316.46  2316.46      .00  2317.17      .72     5.76      .01  2315.70
    223.       1.     222.       0.       0.      33.       0.       8.       5.   2316.30
     .07     1.92     6.80      .86     .045     .040     .045     .000  2314.00  9985.97
 .020111     330.     320.     310.        2        5        0      .00    26.34 10012.31


*SECNO 370.000
 370.000     2.78  2322.28      .00      .00  2322.79      .52     5.60      .02  2319.90
    223.      85.     136.       2.      21.      20.       1.       8.       5.   2321.40
     .09     4.02     6.66     1.99     .045     .040     .045     .000  2319.50  9977.66
 .011896     360.     370.     380.        5        0        0      .00    29.44 10007.10


*SECNO 420.000
 720 TRIALS ATTEMPTED WSEL,CWSEL
3C. PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 420.000     1.93  2329.73  2329.73      .00  2330.35      .62     4.04      .03  2327.80
    223.       7.     216.       0.       2.      34.       0.       8.       5.   2331.80
     .10     3.78     6.40      .00     .045     .040     .000     .000  2327.80  9988.94
 .022386     230.     260.     250.       20       19        0      .00    29.07 10018.01


*SECNO 510.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 510.000     2.16  2344.26  2344.26      .00  2344.88      .63    10.23      .00  2343.70
    223.       1.     198.      24.       0.      30.       6.       9.       6.   2342.70
     .12     1.91     6.61     3.93     .045     .040     .045     .000  2342.10  9977.28
 .020291     470.     480.     490.        6        8        0      .00    30.70 10007.99


*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 630.000     3.09  2367.19  2367.19      .00  2368.01      .82    12.03      .06  2364.10
    223.      93.     108.      23.      16.      12.       6.       9.       6.   2365.40
     .15     5.75     8.83     4.01     .045     .040     .045     .000  2364.10  9984.58
 .018014     630.     630.     630.       10       14        0      .00    21.84 10006.42
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  730.000     2.76  2383.36  2383.36      .00  2384.07      .71    10.60      .01  2385.50
     223.       0.     223.       0.       0.      33.       0.      10.       6.   2385.80
      .17      .00     6.76      .00     .000     .040     .000     .000  2380.60  9985.07
  .022327     530.     530.     530.        9       15        0      .00    23.91 10008.97


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     2.15  2401.25  2401.25      .00  2401.90      .65     9.17      .01  2399.10
     223.      36.     184.       2.       7.      27.       1.      10.       7.   2400.60
      .19     4.91     6.77     2.24     .045     .040     .045     .000  2399.10  9993.12
  .021368     420.     420.     420.        4       15        0      .00    29.57 10022.69


*SECNO 910.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  910.000     2.70  2417.00  2417.00      .00  2417.70      .70     9.52      .01  2414.30
     223.      23.     154.      46.       5.      20.      13.      10.       7.   2415.40
      .21     4.37     7.63     3.51     .045     .040     .045     .000  2414.30  9986.73
  .015296     530.     530.     530.        9       11        0      .00    29.45 10016.18


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     2.57  2429.87  2429.87      .00  2430.54      .66     8.84      .00  2431.40
     223.       0.     223.       0.       0.      34.       0.      11.       7.   2430.60
      .23      .00     6.53      .00     .000     .040     .000     .000  2427.30  9988.07
  .022628     490.     480.     470.        9       11        0      .00    26.52 10014.59


*SECNO 1100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1100.000     3.21  2450.21  2450.21      .00  2450.77      .56    12.54      .01  2452.10
     223.       0.     223.       0.       0.      37.       0.      11.       8.   2450.40
      .25      .00     6.02      .00     .000     .040     .000     .000  2447.00  9988.09
  .024781     530.     530.     530.       12       11        0      .00    34.13 10022.23
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB.1  (OCT1.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .0185                              2275.72

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 2310.000
3720 CRITICAL DEPTH ASSUMED
       ******REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 2310 OF OCOTILLO WASH (OCEAST)
         SEC. 000 = SEC. 2.35 OF OCOTILLO WASH (OCEAST)
         QT VALUES FROM PC "36"
 2310.000     2.53  2275.73  2275.73  2275.72  2276.60      .86      .00      .00  2273.30
    1743.     185.    1544.      14.      40.     199.       4.       0.       0.   2273.60
      .00     4.62     7.76     3.80     .045     .035     .045     .000  2273.20  9967.05
  .015170       0.       0.       0.        0        5        0      .00   146.46 10113.51


*SECNO 90.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   90.000     3.42  2291.12  2291.12      .00  2291.98      .86    11.79      .00  2291.30
    1743.       0.    1742.       1.       0.     234.       1.       4.       2.   2290.70
      .03      .00     7.44     1.61     .000     .040     .045     .000  2287.70  9880.45
  .019448     670.     690.     710.       13       11        0      .00   138.74 10019.19


*SECNO 160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.73  2301.63  2301.63      .00  2302.76     1.13     5.81      .08  2297.50
    1743.     902.     760.      82.     134.      72.      20.       6.       3.   2298.10
      .04     6.71    10.55     4.16     .045     .040     .045     .000  2296.90  9924.33
  .011761     390.     390.     400.       10       11        0      .00    99.79 10024.12


*SECNO 240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  240.000     2.66  2310.76  2310.76      .00  2311.54      .78     5.87      .03  2308.10
    1743.      38.     978.     728.       8.     122.     128.       8.       5.   2308.50
      .06     4.95     8.02     5.70     .045     .040     .045     .000  2308.10  9935.90
  .017512     420.     420.     390.       12       11        0      .00   166.48 10102.38
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM SUBWTRSHD "G2B"
        CONFLUENCE WITH OCT1A
 300.000    2.78  2316.78  2316.78     .00  2317.52     .74     5.50     .00  2315.70
    283.      1.     277.      5.      1.      40.      3.       9.      5.  2316.30
     .07    2.18     6.95     1.76    .045     .040    .045     .000  2314.00  9985.66
 .016143    330.     320.     310.       2        8       0      .00    35.06 10020.72


*SECNO 370.000
 370.000    2.94  2322.44      .00     .00  2323.11     .67     5.59     .01  2319.90
    283.    112.     168.      3.     24.      22.      1.      10.      6.  2321.40
     .08    4.61     7.66     2.44    .045     .040    .045     .000  2319.50  9976.43
 .014300    360.     370.     380.       4        0       0      .00    31.10 10007.53


*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 420.000    2.17  2329.97  2329.97     .00  2330.66     .69     4.42     .01  2327.80
    283.      9.     274.      0.      2.      41.      0.      10.      6.  2331.80
     .09    4.03     6.74      .00    .045     .040    .000     .000  2327.80  9988.71
 .021707    230.     260.     250.       4       19       0      .00    31.67 10020.38


*SECNO 510.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 510.000    2.38  2344.48  2344.48     .00  2345.20     .72     9.79     .01  2343.70
    283.      2.     247.     34.      1.      35.      8.      10.      6.  2342.70
     .11    2.33     7.10     4.18    .045     .040    .045     .000  2342.10  9976.70
 .019162    470.     480.     490.      10        8       0      .00    32.46 10009.16


*SECNO 630.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 630.000    3.41  2367.51  2367.51     .00  2368.41     .90    11.46     .06  2364.10
    283.    118.     130.     35.     20.      14.      8.      11.      7.  2365.40
     .14    6.02     9.40     4.39    .045     .040    .045     .000  2364.10  9983.48
 .017277    630.     630.     630.      11       14       0      .00    24.10 10007.58
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 SECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 730.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  730.000     3.04  2383.64  2383.64      .00  2384.42      .78    10.23      .01  2385.50
     283.       0.     283.       0.       0.      40.       0.      11.       7.   2385.80
      .16      .00     7.10      .00     .000     .040     .000     .000  2380.60  9983.58
 .021704     530.     530.     530.       10       15        0      .00    26.28 10009.86


*SECNO 810.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  810.000     2.38  2401.48  2401.48      .00  2402.22      .74     8.73      .00  2399.10
     283.      46.     232.       5.       9.      32.       2.      12.       7.   2400.60
      .18     5.08     7.27     2.67     .045     .040     .045     .000  2399.10  9992.36
 .019946     420.     420.     420.        9       15        0      .00    31.50 10023.86


*SECNO 910.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  910.000     2.98  2417.28  2417.28      .00  2418.04      .76     9.07      .01  2414.30
     283.      29.     186.      68.       6.      23.      18.      12.       7.   2415.40
      .20     4.59     8.14     3.84     .045     .040     .045     .000  2414.30  9986.34
 .014837     530.     530.     530.        9       11        0      .00    32.59 10018.92


*SECNO 1000.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1000.000     2.83  2430.13  2430.13      .00  2430.86      .73     8.55      .00  2431.40
     283.       0.     283.       0.       0.      41.       0.      13.       8.   2430.60
      .22      .00     6.85      .00     .000     .040     .000     .000  2427.30  9986.87
 .021876     490.     480.     470.       10       11        0      .00    29.18 10016.05


*SECNO 1100.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1100.000     3.40  2450.40  2450.40      .00  2451.04      .64    12.44      .01  2452.10
     283.       0.     283.       0.       0.      44.       0.      13.       8.   2450.40
      .24      .00     6.42      .00     .000     .040     .000     .000  2447.00  9987.46
 .025269     530.     530.     530.       12       11        0      .00    37.66 10025.12
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THIS RUN EXECUTED 2/26/90 16:14:27

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH, TRIB. 1

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2310.000	2274.99	802.00	1.79	4.05	6.09	3.19	78.68	718.36	4.96	135.28	188.33	.00
*	2310.000	2275.33	1201.00	2.13	4.32	6.91	3.48	120.74	1071.91	8.35	140.41	167.95	.00
*	2310.000	2275.48	1397.00	2.28	4.45	7.26	3.62	143.04	1243.75	10.21	142.63	162.51	.00
	2310.000	2275.73	1743.00	2.53	4.62	7.76	3.80	185.15	1544.04	13.80	146.46	151.70	.00
*	90.000	2290.35	802.00	2.65	.00	6.02	.00	.00	802.00	.00	121.52	234.74	15.35
*	90.000	2290.70	1201.00	3.00	.00	6.73	.00	.00	1201.00	.00	132.17	222.82	15.37
*	90.000	2290.84	1397.00	3.14	.00	7.08	.83	.00	1396.91	.08	134.41	217.29	15.36
*	90.000	2291.12	1743.00	3.42	.00	7.44	1.61	.00	1741.60	1.40	138.74	194.48	15.39
*	160.000	2300.32	802.00	3.42	5.43	9.00	2.64	341.72	448.03	12.25	68.00	139.90	9.97
*	160.000	2300.96	1201.00	4.06	6.16	9.72	3.35	575.94	589.73	35.33	81.83	125.44	10.26
*	160.000	2301.23	1397.00	4.33	6.38	10.03	3.63	693.09	653.60	50.32	89.81	121.38	10.39
*	160.000	2301.63	1743.00	4.73	6.71	10.55	4.16	901.84	759.59	81.57	99.79	117.61	10.52
*	240.000	2310.02	802.00	1.92	4.30	6.46	4.56	16.97	507.78	277.25	135.87	203.76	9.70
*	240.000	2310.37	1201.00	2.27	4.61	7.24	5.12	25.46	716.63	458.91	153.97	187.75	9.41
*	240.000	2310.53	1397.00	2.43	4.70	7.49	5.29	29.80	812.65	554.55	161.37	178.16	9.30
*	240.000	2310.76	1743.00	2.66	4.95	8.02	5.70	37.54	977.77	727.69	166.48	175.12	9.13
*	300.000	2316.20	126.00	2.20	1.11	4.65	.00	.13	125.86	.00	21.96	117.65	6.18
*	300.000	2316.37	190.00	2.37	1.67	6.16	.04	.36	189.64	.00	24.21	179.00	6.00
*	300.000	2316.46	223.00	2.46	1.92	6.80	.86	.53	222.22	.25	26.34	201.11	5.93
*	300.000	2316.78	283.00	2.78	2.18	6.95	1.76	1.23	276.86	4.91	35.06	161.43	6.02
	370.000	2321.53	126.00	2.03	3.98	6.41	.05	39.76	86.23	.00	21.89	192.36	5.33
	370.000	2322.06	190.00	2.56	3.95	6.51	1.73	69.37	119.64	.99	27.26	130.71	5.69
	370.000	2322.28	223.00	2.78	4.02	6.66	1.99	85.30	135.68	2.01	29.44	118.96	5.82
	370.000	2322.44	283.00	2.94	4.61	7.66	2.44	111.73	167.79	3.48	31.10	143.00	5.66
*	420.000	2329.24	126.00	1.44	3.25	5.66	.00	3.26	122.74	.00	23.82	243.18	7.71
*	420.000	2329.58	190.00	1.78	3.62	6.18	.00	5.53	184.46	.00	27.46	228.79	7.52
*	420.000	2329.73	223.00	1.93	3.78	6.40	.00	6.78	216.22	.00	29.07	223.86	7.45
*	420.000	2329.97	283.00	2.17	4.03	6.74	.00	9.13	273.86	.00	31.67	217.07	7.53

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	510.000	2343.81	126.00	1.71	.05	5.65	3.46	.00	115.11	10.89	27.25	248.27	14.56
*	510.000	2344.12	190.00	2.02	1.61	6.30	3.78	.36	170.15	19.49	29.64	211.98	14.54
*	510.000	2344.26	223.00	2.16	1.91	6.61	3.93	.75	197.82	24.43	30.70	202.91	14.53
*	510.000	2344.48	283.00	2.38	2.33	7.10	4.18	1.83	246.99	34.19	32.46	191.62	14.51
*	630.000	2366.54	126.00	2.44	5.15	7.53	3.11	51.61	67.19	7.20	17.31	197.84	22.73
*	630.000	2366.99	190.00	2.89	5.58	8.46	3.76	78.48	94.56	16.96	20.44	185.40	22.87
*	630.000	2367.19	223.00	3.09	5.75	8.83	4.01	92.51	107.53	22.96	21.84	180.14	22.93
*	630.000	2367.51	283.00	3.41	6.02	9.40	4.39	118.25	129.68	35.07	24.10	172.77	23.03
*	730.000	2382.80	126.00	2.20	.00	6.03	.00	.00	126.00	.00	19.03	240.70	16.26
*	730.000	2383.19	190.00	2.59	.00	6.56	.00	.00	190.00	.00	22.40	229.29	16.20
*	730.000	2383.36	223.00	2.76	.00	6.76	.00	.00	223.00	.00	23.91	223.27	16.18
*	730.000	2383.64	283.00	3.04	.00	7.10	.00	.00	283.00	.00	26.28	217.04	16.13
*	810.000	2400.79	126.00	1.69	4.63	5.75	.05	21.09	104.91	.00	25.82	262.67	17.99
*	810.000	2401.10	190.00	2.00	4.81	6.47	1.95	30.90	157.89	1.21	28.39	225.49	17.91
*	810.000	2401.25	223.00	2.15	4.91	6.77	2.24	36.24	184.45	2.31	29.57	213.68	17.89
*	810.000	2401.48	283.00	2.38	5.08	7.27	2.67	46.32	231.54	5.15	31.50	199.46	17.85
*	910.000	2416.44	126.00	2.14	3.96	6.58	2.78	12.92	98.08	15.01	22.90	171.40	15.65
*	910.000	2416.83	190.00	2.53	4.24	7.31	3.30	19.49	136.32	34.19	27.48	156.94	15.73
	910.000	2417.00	223.00	2.70	4.37	7.63	3.51	22.91	154.49	45.60	29.45	152.96	15.76
	910.000	2417.28	283.00	2.98	4.59	8.14	3.84	29.15	185.59	68.25	32.59	148.37	15.79
*	1000.000	2429.36	126.00	2.06	.00	5.76	.00	.00	126.00	.00	21.23	236.70	12.93
*	1000.000	2429.72	190.00	2.42	.00	6.31	.00	.00	190.00	.00	24.90	230.00	12.88
*	1000.000	2429.87	223.00	2.57	.00	6.53	.00	.00	223.00	.00	26.52	226.28	12.87
*	1000.000	2430.13	283.00	2.83	.00	6.85	.00	.00	283.00	.00	29.18	218.76	12.86
*	1100.000	2449.75	126.00	2.75	.00	5.42	.00	.00	126.00	.00	25.89	260.50	20.39
*	1100.000	2450.06	190.00	3.06	.00	5.87	.00	.00	190.00	.00	31.61	253.95	20.35
*	1100.000	2450.21	223.00	3.21	.00	6.02	.00	.00	223.00	.00	34.13	247.81	20.33
*	1100.000	2450.40	283.00	3.40	.00	6.42	.00	.00	283.00	.00	37.66	252.69	20.27

C[illegible]LO WASH, TRIB. 1

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2310.000	.00	.00	.00	2273.20	802.00	2274.99	2274.99	2275.54	188.33	6.09	138.85	58.44
*	2310.000	.00	.00	.00	2273.20	1201.00	2275.33	2275.33	2276.02	167.95	6.91	185.46	92.67
*	2310.000	.00	.00	.00	2273.20	1397.00	2275.48	2275.48	2276.24	162.51	7.26	206.23	109.59
*	2310.000	.00	.00	.00	2273.20	1743.00	2275.73	2275.73	2276.60	151.70	7.76	242.72	141.51
*	90.000	690.00	.00	.00	2287.70	802.00	2290.35	2290.35	2290.91	234.74	6.02	133.31	52.35
*	90.000	690.00	.00	.00	2287.70	1201.00	2290.70	2290.70	2291.40	222.82	6.73	178.46	80.46
*	90.000	690.00	.00	.00	2287.70	1397.00	2290.84	2290.84	2291.62	217.29	7.08	197.47	94.77
*	90.000	690.00	.00	.00	2287.70	1743.00	2291.12	2291.12	2291.98	194.48	7.44	234.88	124.99
*	160.000	390.00	.00	.00	2296.90	802.00	2300.32	2300.32	2301.22	139.90	9.00	117.40	67.81
*	160.000	390.00	.00	.00	2296.90	1201.00	2300.96	2300.96	2301.97	125.44	9.72	164.75	107.23
*	160.000	390.00	.00	.00	2296.90	1397.00	2301.23	2301.23	2302.28	121.38	10.03	187.61	126.80
*	160.000	390.00	.00	.00	2296.90	1743.00	2301.63	2301.63	2302.76	117.61	10.55	225.99	160.72
*	240.000	420.00	.00	.00	2308.10	802.00	2310.02	2310.02	2310.55	203.76	6.46	143.36	56.18
*	240.000	420.00	.00	.00	2308.10	1201.00	2310.37	2310.37	2311.02	187.75	7.24	194.10	87.65
*	240.000	420.00	.00	.00	2308.10	1397.00	2310.53	2310.53	2311.22	178.16	7.49	219.68	104.66
*	240.000	420.00	.00	.00	2308.10	1743.00	2310.76	2310.76	2311.54	175.12	8.02	257.18	131.71
*	300.000	320.00	.00	.00	2314.00	126.00	2316.20	.00	2316.53	117.65	4.65	27.19	11.62
*	300.000	320.00	.00	.00	2314.00	190.00	2316.37	.00	2316.96	179.00	6.16	31.04	14.20
*	300.000	320.00	.00	.00	2314.00	223.00	2316.46	2316.46	2317.17	201.11	6.80	33.24	15.72
*	300.000	320.00	.00	.00	2314.00	283.00	2316.78	2316.78	2317.52	161.43	6.95	43.17	22.27
	370.000	370.00	.00	.00	2319.50	126.00	2321.53	2321.48	2322.05	192.36	6.41	23.47	9.08
	370.000	370.00	.00	.00	2319.50	190.00	2322.06	.00	2322.57	130.71	6.51	36.49	16.62
	370.000	370.00	.00	.00	2319.50	223.00	2322.28	.00	2322.79	118.96	6.66	42.62	20.45
	370.000	370.00	.00	.00	2319.50	283.00	2322.44	.00	2323.11	143.00	7.66	47.58	23.67
*	420.000	260.00	.00	.00	2327.80	126.00	2329.24	2329.24	2329.73	243.18	5.66	22.70	8.08
*	420.000	260.00	.00	.00	2327.80	190.00	2329.58	2329.58	2330.16	228.79	6.18	31.35	12.56
*	420.000	260.00	.00	.00	2327.80	223.00	2329.73	2329.73	2330.35	223.86	6.40	35.56	14.90
*	420.000	260.00	.00	.00	2327.80	283.00	2329.97	2329.97	2330.66	217.07	6.74	42.88	19.21
*	510.000	480.00	.00	.00	2342.10	126.00	2343.81	2343.81	2344.28	248.27	5.65	23.52	8.00
*	510.000	480.00	.00	.00	2342.10	190.00	2344.12	2344.12	2344.69	211.98	6.30	32.37	13.05
*	510.000	480.00	.00	.00	2342.10	223.00	2344.26	2344.26	2344.88	202.91	6.61	36.54	15.66
*	510.000	480.00	.00	.00	2342.10	283.00	2344.48	2344.48	2345.20	191.62	7.10	43.74	20.44
*	630.000	630.00	.00	.00	2364.10	126.00	2366.54	2366.54	2367.18	197.84	7.53	21.27	8.96
*	630.000	630.00	.00	.00	2364.10	190.00	2366.99	2366.99	2367.76	185.40	8.46	29.75	13.95
*	630.000	630.00	.00	.00	2364.10	223.00	2367.19	2367.19	2368.01	180.14	8.83	33.98	16.62
*	630.000	630.00	.00	.00	2364.10	283.00	2367.51	2367.51	2368.41	172.77	9.40	41.42	21.53

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	730.000	530.00	.00	.00	2380.60	126.00	2382.80	2382.80	2383.36	240.70	6.03	20.91	8.12
*	730.000	530.00	.00	.00	2380.60	190.00	2383.19	2383.19	2383.85	229.29	6.56	28.98	12.55
*	730.000	530.00	.00	.00	2380.60	223.00	2383.36	2383.36	2384.07	223.27	6.76	33.00	14.92
*	730.000	530.00	.00	.00	2380.60	283.00	2383.64	2383.64	2384.42	217.04	7.10	39.88	19.21
*	810.000	420.00	.00	.00	2399.10	126.00	2400.79	2400.79	2401.27	262.67	5.75	22.89	7.77
*	810.000	420.00	.00	.00	2399.10	190.00	2401.10	2401.10	2401.70	225.49	6.47	31.46	12.65
*	810.000	420.00	.00	.00	2399.10	223.00	2401.25	2401.25	2401.90	213.68	6.77	35.65	15.26
*	810.000	420.00	.00	.00	2399.10	283.00	2401.48	2401.48	2402.22	199.46	7.27	42.91	20.04
*	910.000	530.00	.00	.00	2414.30	126.00	2416.44	2416.44	2417.00	171.40	6.58	23.57	9.62
*	910.000	530.00	.00	.00	2414.30	190.00	2416.83	2416.83	2417.49	156.94	7.31	33.59	15.17
*	910.000	530.00	.00	.00	2414.30	223.00	2417.00	2417.00	2417.70	152.96	7.63	38.46	18.03
*	910.000	530.00	.00	.00	2414.30	283.00	2417.28	2417.28	2418.04	148.37	8.14	46.92	23.23
*	1000.000	480.00	.00	.00	2427.30	126.00	2429.36	2429.36	2429.88	236.70	5.76	21.88	8.19
*	1000.000	480.00	.00	.00	2427.30	190.00	2429.72	2429.72	2430.34	230.00	6.31	30.09	12.53
*	1000.000	480.00	.00	.00	2427.30	223.00	2429.87	2429.87	2430.54	226.28	6.53	34.14	14.82
*	1000.000	480.00	.00	.00	2427.30	283.00	2430.13	2430.13	2430.86	218.76	6.85	41.34	19.13
*	1100.000	530.00	.00	.00	2447.00	126.00	2449.75	2449.75	2450.20	260.50	5.42	23.26	7.81
*	1100.000	530.00	.00	.00	2447.00	190.00	2450.06	2450.06	2450.60	253.95	5.87	32.39	11.92
*	1100.000	530.00	.00	.00	2447.00	223.00	2450.21	2450.21	2450.77	247.81	6.02	37.02	14.17
*	1100.000	530.00	.00	.00	2447.00	283.00	2450.40	2450.40	2451.04	252.69	6.42	44.11	17.80

LO WASH, TRIB. 1

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2310.000	802.00	2274.99	.00	.00	-.02	135.28	.00
*	2310.000	1201.00	2275.33	.34	.00	-.01	140.41	.00
*	2310.000	1397.00	2275.48	.15	.00	-.01	142.63	.00
*	2310.000	1743.00	2275.73	.25	.00	.01	146.46	.00
*	90.000	802.00	2290.35	.00	15.35	.00	121.52	690.00
*	90.000	1201.00	2290.70	.35	15.37	.00	132.17	690.00
*	90.000	1397.00	2290.84	.14	15.36	.00	134.41	690.00
*	90.000	1743.00	2291.12	.27	15.39	.00	138.74	690.00
*	160.000	802.00	2300.32	.00	9.97	.00	68.00	390.00
*	160.000	1201.00	2300.96	.64	10.26	.00	81.83	390.00
*	160.000	1397.00	2301.23	.27	10.39	.00	89.81	390.00
*	160.000	1743.00	2301.63	.40	10.52	.00	99.79	390.00
*	240.000	802.00	2310.02	.00	9.70	.00	135.87	420.00
*	240.000	1201.00	2310.37	.35	9.41	.00	153.97	420.00
*	240.000	1397.00	2310.53	.16	9.30	.00	161.37	420.00
*	240.000	1743.00	2310.76	.23	9.13	.00	166.48	420.00
*	300.000	126.00	2316.20	.00	6.18	.00	21.96	320.00
*	300.000	190.00	2316.37	.17	6.00	.00	24.21	320.00
*	300.000	223.00	2316.46	.09	5.93	.00	26.34	320.00
*	300.000	283.00	2316.78	.33	6.02	.00	35.06	320.00
	370.000	126.00	2321.53	.00	5.33	.00	21.89	370.00
	370.000	190.00	2322.06	.53	5.69	.00	27.26	370.00
	370.000	223.00	2322.28	.21	5.82	.00	29.44	370.00
	370.000	283.00	2322.44	.17	5.66	.00	31.10	370.00
*	420.000	126.00	2329.24	.00	7.71	.00	23.82	260.00
*	420.000	190.00	2329.58	.34	7.52	.00	27.46	260.00
*	420.000	223.00	2329.73	.15	7.45	.00	29.07	260.00
*	420.000	283.00	2329.97	.24	7.53	.00	31.67	260.00
*	510.000	126.00	2343.81	.00	14.56	.00	27.25	480.00
*	510.000	190.00	2344.12	.31	14.54	.00	29.64	480.00
*	510.000	223.00	2344.26	.14	14.53	.00	30.70	480.00
*	510.000	283.00	2344.48	.23	14.51	.00	32.46	480.00
*	630.000	126.00	2366.54	.00	22.73	.00	17.31	630.00
*	630.000	190.00	2366.99	.45	22.87	.00	20.44	630.00
*	630.000	223.00	2367.19	.20	22.93	.00	21.84	630.00
*	630.000	283.00	2367.51	.32	23.03	.00	24.10	630.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	730.000	126.00	2382.80	.00	16.26	.00	19.03	530.00
*	730.000	190.00	2383.19	.39	16.20	.00	22.40	530.00
*	730.000	223.00	2383.36	.17	16.18	.00	23.91	530.00
*	730.000	283.00	2383.64	.27	16.13	.00	26.28	530.00
*	810.000	126.00	2400.79	.00	17.99	.00	25.82	420.00
*	810.000	190.00	2401.10	.32	17.91	.00	28.39	420.00
*	810.000	223.00	2401.25	.14	17.89	.00	29.57	420.00
*	810.000	283.00	2401.48	.24	17.85	.00	31.50	420.00
*	910.000	126.00	2416.44	.00	15.65	.00	22.90	530.00
*	910.000	190.00	2416.83	.40	15.73	.00	27.48	530.00
*	910.000	223.00	2417.00	.17	15.76	.00	29.45	530.00
*	910.000	283.00	2417.28	.27	15.79	.00	32.59	530.00
*	1000.000	126.00	2429.36	.00	12.93	.00	21.23	480.00
*	1000.000	190.00	2429.72	.36	12.88	.00	24.90	480.00
*	1000.000	223.00	2429.87	.16	12.87	.00	26.52	480.00
*	1000.000	283.00	2430.13	.26	12.86	.00	29.18	480.00
*	1100.000	126.00	2449.75	.00	20.39	.00	25.89	530.00
*	1100.000	190.00	2450.06	.32	20.35	.00	31.61	530.00
*	1100.000	223.00	2450.21	.14	20.33	.00	34.13	530.00
	1100.000	283.00	2450.40	.20	20.27	.00	37.66	530.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   2310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  4  CRITICAL DEPTH ASSUMED

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CAUTION SECNO=     90.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     90.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     90.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     90.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     90.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
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WARNING SECNO=    300.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=    300.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    300.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    300.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    420.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    420.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=   910.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   910.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   910.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   910.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  1000.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1000.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1000.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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[illegible]N SECNO=  1000.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1100.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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1*****************************************************
 *  WATER SURFACE PROFILES                           *
 *  VERSION OF SEPTEMBER 1988                        *
 *  ERROR: 01,02,03                                  *
 *  UPDATED:  SEPTEMBER 1989                         *
 *  RUN DATE     3/13/90   TIME   14: 9:14           *
*****************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  THE HYDROLOGIC ENGINEERING CENTER   *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*            (916) 756-1104            *
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

1

3/13/90 14: 9:15 PAGE 1

THIS RUN EXECUTED 3/13/90 14: 9:15

```
*************************************************
.2 RELEASE DATED SEP 88 UPDATED SEPT 1989


 ERROR CORR -  01,02,03
 MODIFICATION -
*************************************************
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```
T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2       100-YR FLOOD FREQUENCY MODEL  (NATURAL CONDITIONS)
T3       OCOTILLO TRIB. 1       (OCT1.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                                                     2275.48

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       43       26       8        42       39       1        34       4        53
    21       22       54       0        38       43       1        50       51       27
    21       22       28       5        3        61       200

J5  LPRNT    NUMSEC                 ********REQUESTED SECTION NUMBERS********

    -10      -10
```

```
QT       2       1397       1397
NC    .045       .045       .035         .1         .3
                            4.1    10000.0    10110.1
          THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
          NATURAL CONDITIONS.  REFER TO FILE OCT1.OUT (CH2M HILL, 1990)

X1    2310         21    10000.0    10110.1
GR  2294.0     9694.6     2286.6     9724.9     2279.8     9775.6     2278.8     9803.3     2279.9     9832.4
GR  2277.9     9885.7     2277.9     9935.4     2276.8     9943.1     2276.0     9963.4     2273.3    10000.0
GR  2273.2    10013.4     2274.8    10036.0     2274.2    10054.9     2273.7    10093.0     2273.6    10110.1
GR  2283.6    10126.1     2283.9    10162.2     2284.2    10194.7     2284.6    10231.8     2286.9    10283.2
GR  2286.3    10309.7

NC    .045       .045       .040
ET                            4.1     9879.4    10015.0
X1      90         21     9879.4    10015.0       670       710       690
GR  2300.8     9792.8     2301.1     9834.3     2299.3     9852.3     2291.3     9879.4     2289.9     9887.4
GR  2290.0     9905.2     2287.7     9923.9     2289.5     9940.0     2288.4     9957.1     2290.1     9976.0
GR  2290.6     9986.6     2289.4    10000.0     2288.5    10012.4     2290.7    10015.0     2292.0    10028.1
GR  2291.8    10061.3     2293.7    10073.2     2293.3    10090.7     2299.6    10120.4     2306.7    10150.4
1
    3/13/90      14: 9:15                                                                                PAGE    2


GR  2306.7    10181.7

ET                            4.1     9974.4    10009.7
X1     160         19     9992.8    10009.7       390       400       390
    2313.1     9845.5     2314.1     9882.1     2302.0     9916.1     2300.6     9947.5     2300.4     9947.6
    2299.7     9957.8     2297.5     9992.8     2296.9    10000.0     2298.1    10009.7     2301.3    10012.2
GR  2300.6    10016.1     2299.3    10021.4     2302.3    10024.9     2302.4    10044.7     2304.5    10073.4
GR  2307.4    10101.7     2309.7    10148.1     2314.1    10183.2     2320.2    10216.1

ET                            4.1     9941.6    10010.3
X1     240         15     9941.6    10000.0       420       390       420
GR  2323.6     9863.7     2323.7     9890.9     2320.8     9905.0     2315.9     9924.9     2308.1     9941.6
GR  2309.1     9978.0     2308.5    10000.0     2309.3    10017.7     2308.8    10047.9     2309.8    10062.4
GR  2310.5    10097.1     2313.2    10151.6     2317.4    10175.1     2321.3    10206.2     2322.0    10227.5

QT       2        223        223
ET                            4.1     9986.0    10012.3
          FLOODWAY LIMITS SET TO 100 YEAR FLOOD PLAIN BOUNDARY
X1     300         14     9986.7    10008.6       330       310       320
GR  2333.5     9930.6     2332.3     9970.8     2315.7     9986.7     2314.0     9998.1     2314.3    10000.0
GR  2316.3    10008.6     2316.7    10018.0     2317.8    10053.4     2318.8    10085.0     2319.5    10111.3
GR  2317.8    10128.5     2320.1    10135.7     2321.5    10182.6     2321.5    10186.9

ET                            4.1     9977.7    10007.1
X1     370         20     9995.5    10004.8       360       380       370
GR  2343.0     9789.3     2343.4     9809.3     2341.2     9832.5     2330.8     9872.1     2326.2     9896.2
GR  2326.0     9926.2     2322.5     9972.9     2322.7     9974.5     2319.9     9995.5     2319.5    10000.0
GR  2321.4    10004.8     2328.2    10022.6     2332.8    10034.8     2334.9    10062.2     2338.1    10094.9
GR  2343.1    10121.5     2347.9    10151.6     2351.6    10187.5     2353.9    10245.1     2353.1    10247.0

                              9.1                                                             9988.9    10018.0
X1     420         13     9990.8    10038.4       230       250       260
GR  2347.2     9924.2     2346.8     9943.3     2343.9     9967.6     2340.2     9980.0     2338.8     9980.2
GR  2327.8     9990.8     2327.9    10000.0     2331.8    10038.4     2334.3    10072.5     2334.7    10113.1
GR  2341.2    10154.6     2344.5    10194.1     2345.2    10220.8
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NC     .045      .045      .04
ET                         4.1     9977.3    10008.0
X1      510        14     9978.7   10000.0      470       490       480
GR   2360.1    9900.3    2359.5    9928.1    2358.2    9943.0    2350.3    9961.9    2343.7    9978.7
GR   2342.1    9997.9    2342.7   10000.0    2345.7   10015.4    2346.1   10016.8    2347.8   10048.8
GR   2350.3   10071.5    2356.6   10092.4    2361.1   10109.6    2361.4   10117.4

ET                         4.1     9984.6    10006.4
X1      630        10     9995.0   10000.0      630       630       630
GR   2383.7    9908.0    2374.8    9952.8    2372.2    9969.5    2371.5    9970.0    2364.1    9995.0
GR   2365.4   10000.0    2371.8   10023.0    2381.4   10041.6    2383.2   10061.0    2383.2   10087.0

ET                         9.1                                                          9985.1   10009.0
X1      730        14     9973.5   10016.9      530       530       530
GR   2397.1    9874.8    2397.4    9902.7    2392.3    9921.1    2387.9    9948.8    2386.6    9968.1
GR   2385.5    9973.5    2380.6   10000.0    2385.8   10016.9    2388.5   10029.4    2395.5   10049.7
GR   2400.6   10074.0    2403.4   10100.1    2405.6   10170.8    2405.8   10184.4
1
    3/13/90      14: 9:15                                                                                PAGE    3


ET                         4.1     9993.1    10022.7
X1      810        15    10000.0   10019.5      420       420       420
GR   2411.9    9871.6    2412.3    9933.4    2409.5    9953.0    2403.0    9987.0    2403.0    9987.5
GR   2399.1   10000.0    2400.6   10019.5    2402.0   10026.4    2402.6   10049.1    2405.0   10072.3
GR   2411.2   10101.3    2411.9   10122.3    2414.6   10152.7    2417.5   10195.3    2416.6   10236.6

                           4.1     9986.7    10016.2
X1      910        11     9990.6   10000.0      530       530       530
GR   2428.6    9902.3    2430.1    9951.4    2428.6    9959.7    2421.7    9980.0    2414.3    9990.6
GR   2415.4   10000.0    2417.8   10024.2    2421.4   10049.5    2425.0   10085.6    2431.9   10122.6
GR   2434.7   10164.4

ET                         4.1     9988.1    10014.6
X1     1000        13     9981.0   10018.7      490       470       480
GR   2444.8    9852.7    2444.2    9885.7    2442.1    9906.6    2435.9    9930.4    2434.6    9961.2
GR   2431.4    9981.0    2427.3   10000.0    2430.6   10018.7    2431.8   10023.1    2440.3   10050.1
GR   2443.5   10070.1    2445.7   10132.5    2445.2   10160.8

ET                         4.1     9988.1    10022.2
X1     1100        10     9982.0   10025.1      530       530       530
GR   2457.6    9909.5    2458.2    9944.4    2455.4    9964.8    2452.1    9982.0    2447.0    9998.4
GR   2448.7   10000.0    2450.4   10025.1    2458.1   10067.7    2461.2   10098.4    2463.4   10157.5
1
    3/13/90      14: 9:15                                                                                PAGE    4


T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2        100-YR FLOOD FREQUENCY MODEL (ENCROACHMENT CONDITIONS)
T3        OCOTILLO TRIB. 1       (OCT1.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                                 2276.48

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15                  -1
```

THIS RUN EXECUTED 3/13/90 14: 9:30

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO TRIB. 1

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	310.000	1397.00	7.24	2.28	2273.20	.00	2275.48	110.14	142.70	9970.41	10000.00	10110.10	10113.11
	310.000	1397.00	4.96	3.28	2273.20	.00	2276.48	215.60	110.10	10000.00	10000.00	10110.10	10110.10
*	90.000	1397.00	7.07	3.14	2287.70	690.00	2290.84	95.05	134.45	9882.00	9879.40	10015.00	10016.46
*	90.000	1397.00	7.08	3.14	2287.70	690.00	2290.84	94.57	132.97	9882.03	9879.40	10015.00	10015.00
*	160.000	1397.00	10.03	4.33	2296.90	390.00	2301.23	126.84	89.82	9933.38	9992.80	10009.70	10023.65
*	160.000	1397.00	11.79	4.54	2296.90	390.00	2301.44	99.06	35.30	9974.40	9992.80	10009.70	10009.70
*	240.000	1397.00	7.50	2.43	2308.10	420.00	2310.53	104.45	161.33	9936.40	9941.60	10000.00	10097.73
*	240.000	1397.00	8.96	2.92	2308.10	420.00	2311.02	98.91	68.70	9941.60	9941.60	10000.00	10010.30
*	300.000	223.00	6.78	2.46	2314.00	320.00	2316.46	15.79	26.43	9985.97	9986.70	10008.60	10012.40
*	300.000	223.00	4.67	3.09	2314.00	320.00	2317.09	29.01	26.30	9986.00	9986.70	10008.60	10012.30
	370.000	223.00	6.67	2.77	2319.50	370.00	2322.27	20.38	29.41	9977.68	9995.50	10004.80	10007.09
*	370.000	223.00	7.74	2.54	2319.50	370.00	2322.04	16.30	27.06	9979.42	9995.50	10004.80	10006.48
*	420.000	223.00	6.40	1.93	2327.80	260.00	2329.73	14.90	29.07	9988.94	9990.80	10038.40	10018.01
*	420.000	223.00	6.42	1.93	2327.80	260.00	2329.73	14.84	29.03	9988.94	9990.80	10038.40	10017.97
*	510.000	223.00	6.61	2.16	2342.10	480.00	2344.26	15.66	30.70	9977.28	9978.70	10000.00	10007.99
*	510.000	223.00	6.51	2.18	2342.10	480.00	2344.28	16.05	30.70	9977.30	9978.70	10000.00	10008.00
*	630.000	223.00	8.83	3.09	2364.10	630.00	2367.19	16.62	21.84	9984.58	9995.00	10000.00	10006.42
*	630.000	223.00	8.59	3.13	2364.10	630.00	2367.23	17.27	21.80	9984.60	9995.00	10000.00	10006.40
*	730.000	223.00	6.76	2.76	2380.60	530.00	2383.36	14.92	23.91	9985.07	9973.50	10016.90	10008.97
*	730.000	223.00	6.80	2.75	2380.60	530.00	2383.35	14.80	23.83	9985.11	9973.50	10016.90	10008.95
*	810.000	223.00	6.77	2.15	2399.10	420.00	2401.25	15.26	29.57	9993.12	10000.00	10019.50	10022.69

*	810.000	223.00	6.70	2.16	2399.10	420.00	2401.26	15.54	29.60	9993.10	10000.00	10019.50	10022.70

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	910.000	223.00	7.63	2.70	2414.30	530.00	2417.00	18.03	29.45	9986.73	9990.60	10000.00	10016.18
*	910.000	223.00	7.38	2.75	2414.30	530.00	2417.05	18.89	29.50	9986.70	9990.60	10000.00	10016.20
*	1000.000	223.00	6.53	2.57	2427.30	480.00	2429.87	14.82	26.52	9988.07	9981.00	10018.70	10014.59
*	1000.000	223.00	6.56	2.57	2427.30	480.00	2429.87	14.75	26.46	9988.10	9981.00	10018.70	10014.56
*	1100.000	223.00	6.02	3.21	2447.00	530.00	2450.21	14.17	34.13	9988.09	9982.00	10025.10	10022.23
*	1100.000	223.00	6.12	3.19	2447.00	530.00	2450.19	13.89	33.83	9988.15	9982.00	10025.10	10021.98

OCOTILLO TRIB. 1

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	2310.000	1397.00	2275.48	.00	.00	.00	10000.00	10110.10	.00	160.88	2276.24	.00
	2310.000	1397.00	2276.48	1.00	.00	10000.00	10000.00	10110.10	10110.10	41.99	2276.86	.62
*	90.000	1397.00	2290.84	.00	15.36	.00	9879.40	10015.00	.00	216.01	2291.62	.00
*	90.000	1397.00	2290.84	-.00	14.36	9879.40	9879.40	10015.00	10015.00	218.20	2291.62	.00
*	160.000	1397.00	2301.23	.00	10.39	.00	9992.80	10009.70	.00	121.31	2302.28	.00
*	160.000	1397.00	2301.44	.21	10.60	9974.40	9992.80	10009.70	10009.70	198.88	2303.28	1.00
*	240.000	1397.00	2310.53	.00	9.30	.00	9941.60	10000.00	.00	178.90	2311.22	.00
*	240.000	1397.00	2311.02	.49	9.58	9941.60	9941.60	10000.00	10010.30	199.50	2312.21	1.00
*	300.000	223.00	2316.46	.00	5.93	.00	9986.70	10008.60	.00	199.44	2317.17	.00
*	300.000	223.00	2317.09	.63	6.07	9986.00	9986.70	10008.60	10012.30	59.08	2317.42	.25
	370.000	223.00	2322.27	.00	5.81	.00	9995.50	10004.80	.00	119.71	2322.79	.00
*	370.000	223.00	2322.04	-.23	4.95	9977.70	9995.50	10004.80	10007.10	187.18	2322.76	-.03
*	420.000	223.00	2329.73	.00	7.46	.00	9990.80	10038.40	.00	223.86	2330.35	.00
*	420.000	223.00	2329.73	-.00	7.68	9988.90	9990.80	10038.40	10018.00	225.82	2330.35	.00
*	510.000	223.00	2344.26	.00	14.53	.00	9978.70	10000.00	.00	202.91	2344.88	.00
*	510.000	223.00	2344.28	.02	14.55	9977.30	9978.70	10000.00	10008.00	193.11	2344.88	.00
*	630.000	223.00	2367.19	.00	22.93	.00	9995.00	10000.00	.00	180.14	2368.01	.00
*	630.000	223.00	2367.23	.04	22.95	9984.60	9995.00	10000.00	10006.40	166.74	2368.00	-.00
	730.000	223.00	2383.36	.00	16.18	.00	9973.50	10016.90	.00	223.27	2384.07	.00
*	730.000	223.00	2383.35	-.01	16.13	9985.10	9973.50	10016.90	10009.00	226.92	2384.07	.00
*	810.000	223.00	2401.25	.00	17.89	.00	10000.00	10019.50	.00	213.68	2401.90	.00
*	810.000	223.00	2401.26	.01	17.91	9993.10	10000.00	10019.50	10022.70	205.98	2401.90	.00

*	910.000	223.00	2417.00	.00	15.76	.00	9990.60	10000.00	.00	152.96	2417.70	.00
*	910.000	223.00	2417.05	.04	15.79	9986.70	9990.60	10000.00	10016.20	139.42	2417.70	-.00
	000.000	223.00	2429.87	.00	12.87	.00	9981.00	10018.70	.00	226.28	2430.54	.00
*	1000.000	223.00	2429.87	-.00	12.82	9988.10	9981.00	10018.70	10014.60	228.50	2430.54	.00
*	1100.000	223.00	2450.21	.00	20.33	.00	9982.00	10025.10	.00	247.81	2450.77	.00
*	1100.000	223.00	2450.19	-.02	20.32	9988.10	9982.00	10025.10	10022.20	257.90	2450.77	.00

1

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 2310.000 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 90.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 90.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 90.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 90.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 90.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 160.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 160.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 160.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 160.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 240.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 240.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 240.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 240.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 300.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 300.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
WARNING SECNO= 300.000 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO= 370.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 370.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 420.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 420.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 420.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO= 420.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 420.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 510.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 510.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 510.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 510.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

ON SECNO= 630.000 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 630.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 630.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 630.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    730.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    730.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    730.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    730.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    810.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    810.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    810.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
1
   3/13/90      14: 9:15                                                    PAGE    9


CAUTION SECNO=    910.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    910.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    910.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    910.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1000.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1000.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1000.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1100.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1100.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1100.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1100.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

   ./13/90      14: 9:15                                                    PAGE   10


FLOODWAY DATA,     OCOTILLO TRIB. 1
PROFILE NO.  2
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STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
2310.000	110.	282.	5.0	2276.5	2275.5	1.0
90.000	133.	197.	7.1	2290.8	2290.8	.0
160.000	35.	130.	10.7	2301.4	2301.2	.2
240.000	69.	161.	8.7	2311.0	2310.5	.5
300.000	26.	50.	4.5	2317.1	2316.5	.6
370.000	27.	36.	6.2	2322.0	2322.3	-.3
420.000	29.	35.	6.3	2329.7	2329.7	.0
510.000	31.	37.	6.0	2344.3	2344.3	.0
630.000	22.	35.	6.4	2367.2	2367.2	.0
730.000	24.	33.	6.8	2383.4	2383.4	.0
810.000	30.	36.	6.2	2401.3	2401.2	.1
910.000	29.	40.	5.6	2417.0	2417.0	.0
0.000	26.	34.	6.6	2429.9	2429.9	.0
1100.000	34.	36.	6.1	2450.2	2450.2	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ROR: 01,02,03                                    *
*  DATED:  SEPTEMBER 1989                           *
*  RUN DATE     3/14/90    TIME    14:10:41         *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*            (916) 756-1104
*************************************
```

OCTIA.007

100 YR CWSEL 3-15-90 DCS

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 3/14/90 14:10:41

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 1A


J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                           .0085                                   2310.10

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    1                   -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38        1        43        8        55        26        56        13        14        15
      4        5        51
    150


QT       4       693      1030      1206      1517

NC     .04       .04      .032

       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 240 FROM OCOTILLO WASH TRIB.1.
         SEC. 000 = SEC. 0.28 OF OCOTILLO WASH TRIB.1.
         QT FROM SUBWATERSHED "G2A"
         BEGIN AT SEC. .30 OCT1.  GR POINTS ON SEC. .30 ARE MODIFIED TO CONTAIN
         FLOW IN OCT1A.
X1     240        15    9941.6   10000.0
GR   2323.6    9863.7   2323.7    9890.9    2320.8    9905.0    2315.9    9924.9    2308.1    9941.6
GR   2309.1    9978.0   2308.5   10000.0    2309.3   10017.7    2308.8   10047.9    2309.8   10062.4
GR   2310.5   10097.1   2313.2   10151.6    2317.4   10175.1    2321.3   10206.2    2322.0   10227.5
```

X1	20	9	9985	10007.2	340	300	320			
GR	2332	9650	2320	9760	2321	9832	2320	9900	2320.5	9950
GR	2321	9985	2317.8	10000.0	2320.1	10007.2	2321.5	10054.1	2321.5	10058.4
X1	120	18	9975.2	10009.6	460	460	460			
GR	2351.2	9913.4	2350.2	9933.4	2345.1	9956.5	2340.8	9963.6	2336.2	9975.2
GR	2335.2	9992.6	2333.7	10000.0	2336.7	10009.6	2337.0	10030.4	2336.2	10060.2
GR	2338.4	10079.4	2339.9	10093.1	2339.1	10107.4	2341.5	10131.8	2346.6	10157.6
GR	2349.4	10170.7	2350.1	10207.8	2350.3	10224.6				
X1	180	14	9983.0	10024.2	320	320	320			
GR	2364.0	9905.0	2364.0	9936.6	2363.1	9955.3	2348.5	9983.0	2346.4	9994.7
GR	2346.1	10000.0	2348.3	10024.2	2351.3	10062.7	2353.0	10113.7	2357.0	10142.6
GR	2360.9	10161.7	2362.2	10187.0	2364.3	10277.3	2364.7	10304.9		
X1	270	14	9978.1	10021.5	480	480	480			
GR	2384.4	9774.0	2381.1	9788.2	2372.7	9832.5	2370.0	9854.6	2369.4	9892.2
GR	2367.0	9929.0	2366.2	9953.0	2365.3	9978.1	2364.3	10000.0	2364.2	10013.0
GR	2365.0	10021.5	2376.3	10033.2	2376.8	10057.1	2377.7	10062.2		
	350	15	9984.7	10014.3	430	410	420			
GR	2395.9	9859.9	2395.8	9943.1	2393.9	9958.6	2379.6	9984.7	2379.6	9985.2
GR	2378.6	9997.1	2378.4	10000.0	2379.5	10014.3	2381.7	10042.2	2380.5	10068.3
GR	2383.0	10094.5	2384.8	10118.4	2391.8	10152.8	2395.0	10193.7	2396.2	10209.4
NC	.045	.045	.035							
X1	420	13	9980.6	10017.5	370	370	370			
GR	2409.5	9850.1	2409.7	9873.2	2398.3	9904.7	2397.2	9916.6	2396.5	9937.0
GR	2397.4	9972.0	2396.2	9980.6	2395.5	9995.6	2396.0	10000.0	2396.0	10017.5
GR	2409.6	10046.6	2414.1	10079.7	2415.1	10113.9				
X1	470	17	10060.0	10074.3	320	240	280			
GR	2427.4	9814.7	2423.3	9846.5	2424.1	9876.5	2424.7	9902.9	2422.1	9925.2
GR	2414.1	9947.3	2410.1	9959.6	2411.3	9978.1	2409.6	9982.3	2407.5	9989.9
GR	2408.4	10000.0	2408.1	10025.5	2407.0	10060.0	2406.1	10074.3	2420.9	10093.0
GR	2425.7	10105.8	2427.6	10122.3						
X1	540	11	9977.0	10000.0	370	370	370			
GR	2438.7	9812.9	2437.6	9843.7	2433.3	9884.0	2428.3	9913.1	2426.1	9933.0
GR	2424.9	9977.0	2422.2	9995.6	2424.0	10000.0	2438.1	10013.2	2443.0	10031.7
GR	2444.6	10068.0								

X1	620	12	9976.7	10012.1	430	390	410			
GR	2452.3	9873.1	2453.1	9918.0	2451.6	9931.6	2440.4	9960.9	2437.7	9976.7
GR	2437.7	10000.0	2437.4	10012.1	2441.9	10026.2	2453.1	10050.0	2458.3	10063.7
GR	2457.6	10122.4	2456.6	10133.9						

X1	690	15	9961.2	10007.2	380	360	370			
GR	2480.8	9859.5	2474.2	9886.0	2460.8	9924.8	2454.0	9943.3	2450.1	9961.2
GR	2450.0	9980.1	2449.8	9993.5	2449.0	10000.0	2449.5	10007.2	2458.7	10016.5
GR	2465.1	10034.7	2466.1	10053.0	2463.4	10070.0	2466.0	10101.0	2469.2	10145.5

```
 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

*SECNO 240.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 240 FROM OCOTILLO WASH TRIB.1.
         SEC. 000 = SEC. 0.28 OF OCOTILLO WASH TRIB.1.
         QT FROM SUBWATERSHED "G2A"
         BEGIN AT SEC. .30 OCT1.  GR POINTS ON SEC. .30 ARE MODIFIED TO CONTAIN
         FLOW IN OCT1A.
  240.000     2.00  2310.10      .00  2310.10  2310.46      .36      .00      .00  2308.10
     693.      14.     449.     230.       4.      83.      67.       0.       0.   2308.50
      .00     3.20     5.40     3.44     .040     .032     .040     .000  2308.10  9937.32
  .008444       0.       0.       0.        0        0        0      .00   139.96 10077.28


*SECNO 20.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.32  2321.12  2321.12      .00  2321.43      .31     2.74      .00  2321.00
     693.     390.     264.      38.     149.      41.      17.       1.       2.   2320.10
      .02     2.62     6.38     2.19     .040     .032     .040     .000  2317.80  9749.73
  .008559     340.     320.     300.       20       18        0      .00   291.67 10041.40


*SECNO 120.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     3.80  2337.50  2337.50      .00  2338.17      .66     3.94      .00  2336.20
     693.       5.     548.     140.       2.      76.      48.       3.       4.   2336.70
      .04     2.46     7.20     2.93     .040     .032     .040     .000  2333.70  9971.92
  .008560     460.     460.     460.       20       11        0      .00    99.64 10071.56


*SECNO 180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  180.000     3.14  2349.24  2349.24      .00  2350.19      .95     3.08      .00  2348.50
     693.       1.     679.      13.       1.      86.       6.       4.       4.   2348.30
      .05     1.84     7.88     2.34     .040     .032     .040     .000  2346.10  9981.60
  .010889     320.     320.     320.       20       15        0      .00    54.65 10036.25
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

270.000	2.39	2366.59	2366.59	.00	2367.31	.72	4.85	.00	2365.30
693.	71.	619.	3.	23.	87.	1.	5.	5.	2365.00
.07	3.02	7.14	2.49	.040	.032	.040	.000	2364.20	9941.19
.009411	480.	480.	480.	20	16	0	.00	81.96	10023.15

*SECNO 350.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

350.000	3.05	2381.45	2381.45	.00	2382.26	.81	3.76	.00	2379.60
693.	9.	572.	111.	3.	73.	39.	6.	6.	2379.50
.09	2.98	7.83	2.88	.040	.032	.040	.000	2378.40	9981.33
.008535	430.	420.	410.	20	11	0	.00	88.25	10078.24

*SECNO 420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	2.30	2397.80	2397.80	.00	2398.38	.58	3.66	.00	2396.20
693.	195.	487.	11.	60.	70.	3.	7.	7.	2396.00
.11	3.27	6.99	3.10	.045	.035	.045	.000	2395.50	9910.11
.011598	370.	370.	370.	20	19	0	.00	111.24	10021.35

*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

470.000	2.98	2409.08	2409.08	.00	2409.70	.63	3.39	.00	2407.00
693.	368.	303.	22.	90.	36.	6.	8.	7.	2406.10
.12	4.11	8.40	3.91	.045	.035	.045	.000	2406.10	9984.20
.011397	320.	280.	240.	20	11	0	.00	93.86	10078.06

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 540.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

540.000	4.33	2426.53	2426.53	.00	2427.30	.78	3.47	.00	2424.90
693.	135.	550.	8.	46.	70.	3.	9.	8.	2424.00
.14	2.94	7.80	2.65	.045	.035	.045	.000	2422.20	9929.13
.007832	370.	370.	370.	20	12	0	.00	73.23	10002.37

*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

620.000	2.37	2439.77	2439.77	.00	2440.69	.93	4.15	.00	2437.70
693.	48.	608.	36.	13.	75.	9.	10.	9.	2437.40
.15	3.87	8.11	4.14	.045	.035	.045	.000	2437.40	9964.60
.013397	430.	410.	390.	20	11	0	.00	54.92	10019.52

*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

690.000	2.67	2451.67	2451.67	.00	2452.56	.89	5.09	.00	2450.10
693.	19.	666.	8.	6.	87.	2.	11.	9.	2449.50
.17	3.29	7.69	3.30	.045	.035	.045	.000	2449.00	9953.98
.014129	380.	370.	360.	20	8	0	.00	55.42	10009.40

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 1A  (OCT1A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .0085                              2310.43

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    2                  -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

*SECNO 240.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 240 FROM OCOTILLO WASH TRIB.1.
         SEC. 000 = SEC. 0.28 OF OCOTILLO WASH TRIB.1.
         QT FROM SUBWATERSHED "G2A"
         BEGIN AT SEC. .30 OCT1.  GR POINTS ON SEC. .30 ARE MODIFIED TO CONTAIN
         FLOW IN OCT1A.
  240.000     2.33  2310.43      .00  2310.43  2310.89      .46      .00      .00  2308.10
   1030.       21.     635.     375.       6.     102.      95.       0.       0.   2308.50
     .00     3.53     6.20     3.94     .040     .032     .040     .000  2308.10  9936.61
 .008419       0.       0.       0.        0        0        0      .00   157.01 10093.63


*SECNO 20.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .000     3.51  2321.31  2321.31      .00  2321.68      .37     2.91      .00  2321.00
   1030.      634.     331.      64.     194.      46.      25.       2.       2.   2320.10
     .02     3.27     7.26     2.62     .040     .032     .040     .000  2317.80  9747.98
 .009727      340.     320.     300.       20       12        0      .00   299.78 10047.76


*SECNO 120.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     4.20  2337.90  2337.90      .00  2338.72      .81     4.28      .00  2336.20
   1030.       11.     738.     281.       4.      90.      73.       4.       4.   2336.70
     .04     3.00     8.22     3.84     .040     .032     .040     .000  2333.70  9970.91
 .008923      460.     460.     460.       20       11        0      .00   104.15 10075.05


*SECNO 180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  180.000     3.76  2349.86  2349.86      .00  2351.00     1.13     2.94      .00  2348.50
   1030.        5.     977.      48.       2.     112.      16.       5.       4.   2348.30
     .05     2.58     8.74     3.06     .040     .032     .040     .000  2346.10  9980.41
 .009433      320.     320.     320.       20       11        0      .00    63.86 10044.27
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

270.000	2.88	2367.08	2367.08	.00	2367.94	.85	4.35	.00	2365.30
1030.	165.	858.	6.	45.	108.	2.	7.	5.	2365.00
.07	3.66	7.94	2.86	.040	.032	.040	.000	2364.20	9927.70
.008695	480.	480.	480.	20	15	0	.00	95.96	10023.66

*SECNO 350.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

350.000	3.63	2382.03	2382.03	.00	2382.85	.83	3.32	.00	2379.60
1030.	18.	749.	264.	5.	90.	76.	8.	6.	2379.50
.08	3.30	8.30	3.46	.040	.032	.040	.000	2378.40	9980.27
.007247	430.	420.	410.	20	11	0	.00	104.02	10084.29

*SECNO 420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	2.66	2398.16	2398.16	.00	2398.88	.73	3.40	.00	2396.20
1030.	351.	661.	18.	86.	83.	5.	10.	7.	2396.00
.10	4.10	7.98	3.56	.045	.035	.045	.000	2395.50	9906.25
.012006	370.	370.	370.	20	19	0	.00	115.86	10022.11

*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

470.000	3.35	2409.45	2409.45	.00	2410.25	.80	3.65	.00	2407.00
1030.	598.	401.	31.	118.	42.	7.	11.	8.	2406.10
.11	5.05	9.65	4.43	.045	.035	.045	.000	2406.10	9982.83
.012514	320.	280.	240.	20	11	0	.00	95.70	10078.54

*SECNO 540.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  540.000     4.80  2427.00  2427.00      .00  2428.00     1.00     3.87      .00  2424.90
    1030.     275.     742.      13.      69.      81.      4.      12.       9.   2424.00
      .12     3.95     9.14     3.16     .045     .035     .045     .000  2422.20  9924.89
  .008881     370.     370.     370.       20       14        0      .00    77.91 10002.80


*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  620.000     3.00  2440.40  2440.40      .00  2441.51     1.11     4.17      .00  2437.70
    1030.      92.     874.      64.      21.      97.      14.      14.       9.   2437.40
      .14     4.30     8.98     4.51     .045     .035     .045     .000  2437.40  9960.90
  .011585     430.     410.     390.       20       14        0      .00    60.61 10021.50


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
     PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
  690.000     3.22  2452.22  2452.22      .00  2453.35     1.14     4.55      .00  2450.10
    1030.      40.     977.      14.      10.     112.      4.      15.      10.   2449.50
      .15     3.85     8.75     3.68     .045     .035     .045     .000  2449.00  9951.48
  .013031     380.     370.     360.       20        8        0      .00    58.46 10009.95
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 1A  (OCT1A.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

              4                    .0085                           2310.58

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

     3               -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

*SECNO 240.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 240 FROM OCOTILLO WASH TRIB.1.
         SEC. 000 = SEC. 0.28 OF OCOTILLO WASH TRIB.1.
         QT FROM SUBWATERSHED "G2A"
         BEGIN AT SEC. .30 OCT1.  GR POINTS ON SEC. .30 ARE MODIFIED TO CONTAIN
         FLOW IN OCT1A.
  240.000     2.48  2310.58      .00  2310.58  2311.08      .50      .00      .00  2308.10
    1206.      24.     727.     455.       7.     111.     109.       0.       0.   2308.50
      .00     3.68     6.53     4.16     .040     .032     .040     .000  2308.10  9936.29
  .008390       0.       0.       0.        0        0        0      .00   162.43 10098.72


*SECNO 20.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.58  2321.38  2321.38      .00  2321.80      .42     3.05      .00  2321.00
    1206.     760.     368.      78.     210.      47.      27.       2.       2.   2320.10
      .02     3.61     7.80     2.86     .040     .032     .040     .000  2317.80  9747.36
  .010770     340.     320.     300.       20       14        0      .00   302.68 10050.04


*SECNO 120.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  120.000     4.39  2338.09  2338.09      .00  2338.97      .88     4.52      .00  2336.20
    1206.      15.     831.     361.       4.      96.      86.       4.       4.   2336.70
      .04     3.23     8.63     4.21     .040     .032     .040     .000  2333.70  9970.44
  .008986     460.     460.     460.       20       11        0      .00   106.25 10076.68


*SECNO 180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  180.000     4.04  2350.14  2350.14      .00  2351.36     1.22     2.89      .00  2348.50
    1206.       7.    1126.      73.       3.     123.      22.       6.       5.   2348.30
      .05     2.86     9.13     3.34     .040     .032     .040     .000  2346.10  9979.89
  .009055     320.     320.     320.       20       11        0      .00    67.94 10047.83
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     3.09  2367.29  2367.29      .00  2368.21      .91     4.22      .00  2365.30
    1206.     224.     974.       8.      56.     117.       3.       7.       5.   2365.00
      .06     3.98     8.32     3.02     .040     .032     .040     .000  2364.20  9924.48
  .008556     480.     480.     480.       20       15        0      .00    99.39 10023.88


*SECNO 350.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  350.000     3.83  2382.23  2382.23      .00  2383.11      .89     3.31      .00  2379.60
    1206.      22.     838.     346.       6.      96.      91.       9.       6.   2379.50
      .08     3.49     8.70     3.82     .040     .032     .040     .000  2378.40  9979.90
  .007314     430.     420.     410.       20        8        0      .00   106.53 10086.43


SECNO 420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     2.83  2398.33  2398.33      .00  2399.12      .79     3.42      .00  2396.20
    1206.     437.     747.      22.      98.      89.       6.      11.       7.   2396.00
      .10     4.44     8.38     3.75     .045     .035     .045     .000  2395.50  9904.63
  .012013     370.     370.     370.       20       19        0      .00   117.85 10022.48


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  470.000     3.53  2409.64  2409.64      .00  2410.51      .88     3.69      .00  2407.00
    1206.     722.     447.      37.     133.      44.       8.      12.       8.   2406.10
      .11     5.45    10.14     4.63     .045     .035     .045     .000  2406.10  9982.21
  .012735     320.     280.     240.       20       11        0      .00    96.55 10078.77


*SECNO 540.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  540.000     5.03  2427.23  2427.23      .00  2428.31     1.08     3.94      .00  2424.90
    1206.     357.     833.      16.      82.      87.       5.      14.       9.   2424.00
      .12     4.35     9.61     3.35     .045     .035     .045     .000  2422.20  9922.77
 .009019     370.     370.     370.       20       14        0      .00    80.26 10003.03


*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  620.000     3.26  2440.66  2440.66      .00  2441.87     1.21     4.17      .00  2437.70
    1206.     122.    1006.      79.      25.     106.      17.      15.      10.   2437.40
      .13     4.77     9.45     4.72     .045     .035     .045     .000  2437.40  9960.23
 .011397     430.     410.     390.       20       14        0      .00    62.08 10022.31


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     3.48  2452.48  2452.48      .00  2453.73     1.25     4.43      .00  2450.10
    1206.      53.    1136.      17.      13.     124.       4.      16.      10.   2449.50
      .14     4.09     9.19     3.84     .045     .035     .045     .000  2449.00  9950.30
 .012575     380.     370.     360.       20        8        0      .00    59.91 10010.21
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   500-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 1A  (OCT1A.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .0085                              2310.81

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

*SECNO 240.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT**********
         COMMON SECTION IS SEC. 240 FROM OCOTILLO WASH TRIB.1.
         SEC. 000 = SEC. 0.28 OF OCOTILLO WASH TRIB.1.
         QT FROM SUBWATERSHED "G2A"
         BEGIN AT SEC. .30 OCT1.  GR POINTS ON SEC. .30 ARE MODIFIED TO CONTAIN
         FLOW IN OCT1A.
 240.000     2.71  2310.81      .00  2310.81  2311.40      .59      .00      .00  2308.10
   1517.      31.     884.     602.       8.     125.     133.       0.       0.   2308.50
     .00     3.92     7.09     4.54     .040     .032     .040     .000  2308.10  9935.80
 .008489       0.       0.       0.        0        0        0      .00   167.56 10103.36


*SECNO 20.000
3280 CROSS SECTION     20.00 EXTENDED       .02 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
     PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
  20.000     3.72  2321.52  2321.52      .00  2322.00      .47     3.13      .00  2321.00
   1517.     991.     419.     107.     244.      50.      34.       2.       2.   2320.10
     .02     4.05     8.32     3.17     .040     .032     .040     .000  2317.80  9746.04
 .011225     340.     320.     300.       20       14        0      .00   308.06 10054.10


*SECNO 120.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 120.000     4.73  2338.43  2338.43      .00  2339.38      .95     4.50      .00  2336.20
   1517.      22.     982.     513.       6.     108.     109.       5.       4.   2336.70
     .03     3.52     9.11     4.71     .040     .032     .040     .000  2333.70  9969.59
 .008595     460.     460.     460.       20       11        0      .00   110.05 10079.64


*SECNO 180.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 180.000     4.49  2350.59  2350.59      .00  2351.94     1.35     2.73      .00  2348.50
   1517.      13.    1377.     126.       4.     142.      34.       7.       5.   2348.30
     .04     3.25     9.71     3.74     .040     .032     .040     .000  2346.10  9979.03
 .008484     320.     320.     320.       20       11        0      .00    74.59 10053.62
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 _CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 270.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  270.000     3.42  2367.62  2367.62      .00  2368.65     1.03     4.06      .00  2365.30
    1517.     333.    1172.      12.      74.     131.      4.       9.       6.   2365.00
      .06     4.47     8.92     3.28     .040     .032     .040     .000  2364.20  9919.46
  .008453     480.     480.     480.       20       19        0      .00   104.75 10024.21


*SECNO 350.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  350.000     4.13  2382.53  2382.53      .00  2383.54     1.00     3.36      .00  2379.60
    1517.      30.     991.     495.       8.     105.     113.      11.       7.   2379.50
      .08     3.83     9.42     4.38     .040     .032     .040     .000  2378.40  9979.35
  .007613     430.     420.     410.       20       11        0      .00   110.26 10089.61


*SECNO 420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     3.09  2398.59  2398.59      .00  2399.50      .91     3.52      .00  2396.20
    1517.     593.     895.      29.     118.      99.      7.      13.       8.   2396.00
      .09     5.01     9.04     4.06     .045     .035     .045     .000  2395.50  9903.90
  .012198     370.     370.     370.       20       19        0      .00   119.14 10023.04


*SECNO 470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  470.000     3.82  2409.92  2409.92      .00  2410.94     1.02     3.80      .00  2407.00
    1517.     944.     528.      46.     155.      48.      9.      14.       8.   2406.10
      .10     6.10    10.96     4.97     .045     .035     .045     .000  2406.10  9981.52
  .013227     320.     280.     240.       20       11        0      .00    97.61 10079.12


*SECNO 540.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  540.000     5.41  2427.61  2427.61      .00  2428.82     1.21     4.05      .00  2424.90
    1517.     509.     986.      22.     103.      95.      6.      16.       9.   2424.00
      .11     4.95    10.35     3.64     .045     .035     .045     .000  2422.20  9919.38
 .009213      370.     370.     370.       20       14        0      .00    84.00 10003.38


*SECNO 620.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  620.000     3.68  2441.08  2441.08      .00  2442.46     1.38     4.17      .00  2437.70
    1517.     178.     1232.     107.     33.      121.     21.      18.      10.   2437.40
      .13     5.44    10.15     5.05     .045     .035     .045     .000  2437.40  9959.13
 .011050      430.     410.     390.       20       14        0      .00    64.50 10023.63


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     3.90  2452.90  2452.90      .00  2454.33     1.43     4.25      .00  2450.10
    1517.      80.     1413.      24.     18.      143.      6.      19.      10.   2449.50
      .14     4.44     9.87     4.09     .045     .035     .045     .000  2449.00  9948.34
 .011908      380.     370.     360.       20        8        0      .00    62.30 10010.64
```

THIS RUN EXECUTED 3/14/90 14:11:40

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH, TRIB. 1A

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	240.000	2310.10	693.00	2.00	3.20	5.40	3.44	13.69	449.42	229.89	139.96	84.44	.00
	240.000	2310.43	1030.00	2.33	3.53	6.20	3.94	20.53	634.94	374.52	157.01	84.19	.00
	240.000	2310.58	1206.00	2.48	3.68	6.53	4.16	24.21	726.84	454.95	162.43	83.90	.00
	240.000	2310.81	1517.00	2.71	3.92	7.09	4.54	30.85	884.07	602.08	167.56	84.89	.00
*	20.000	2321.12	693.00	3.32	2.62	6.38	2.19	390.27	264.43	38.30	291.67	85.59	11.02
*	20.000	2321.31	1030.00	3.51	3.27	7.26	2.62	634.32	331.32	64.36	299.78	97.27	10.88
*	20.000	2321.38	1206.00	3.58	3.61	7.80	2.86	759.57	368.07	78.36	302.68	107.70	10.80
*	20.000	2321.52	1517.00	3.72	4.05	8.32	3.17	990.53	419.11	107.36	308.06	112.25	10.71
*	120.000	2337.50	693.00	3.80	2.46	7.20	2.93	5.25	547.53	140.21	99.64	85.60	16.38
*	120.000	2337.90	1030.00	4.20	3.00	8.22	3.84	10.96	737.69	281.35	104.15	89.23	16.59
*	120.000	2338.09	1206.00	4.39	3.23	8.63	4.21	14.52	830.67	360.81	106.25	89.86	16.71
*	120.000	2338.43	1517.00	4.73	3.52	9.11	4.71	22.01	982.04	512.95	110.05	85.95	16.90
*	180.000	2349.24	693.00	3.14	1.84	7.88	2.34	.95	678.84	13.21	54.65	108.89	11.74
*	180.000	2349.86	1030.00	3.76	2.58	8.74	3.06	4.55	977.46	47.99	63.86	94.33	11.96
*	180.000	2350.14	1206.00	4.04	2.86	9.13	3.34	7.30	1126.06	72.64	67.94	90.55	12.05
*	180.000	2350.59	1517.00	4.49	3.25	9.71	3.74	13.50	1377.37	126.13	74.59	84.84	12.17
*	270.000	2366.59	693.00	2.39	3.02	7.14	2.49	70.92	618.81	3.27	81.96	94.11	17.35
*	270.000	2367.08	1030.00	2.88	3.66	7.94	2.86	165.48	858.08	6.43	95.96	86.95	17.22
*	270.000	2367.29	1206.00	3.09	3.98	8.32	3.02	223.52	974.24	8.24	99.39	85.56	17.15
*	270.000	2367.62	1517.00	3.42	4.47	8.92	3.28	333.32	1171.99	11.69	104.75	84.53	17.03
*	350.000	2381.45	693.00	3.05	2.98	7.83	2.88	9.30	572.45	111.25	88.25	85.35	14.85
*	350.000	2382.03	1030.00	3.63	3.30	8.30	3.46	17.70	748.56	263.74	104.02	72.47	14.94
*	350.000	2382.23	1206.00	3.83	3.49	8.70	3.82	22.05	837.66	346.29	106.53	73.14	14.94
*	350.000	2382.53	1517.00	4.13	3.83	9.42	4.38	30.09	991.46	495.44	110.26	76.13	14.91
	420.000	2397.80	693.00	2.30	3.27	6.99	3.10	194.91	487.33	10.75	111.24	115.98	16.35
*	420.000	2398.16	1030.00	2.66	4.10	7.98	3.56	350.78	661.49	17.73	115.86	120.06	16.13
*	420.000	2398.33	1206.00	2.83	4.44	8.38	3.75	437.01	747.27	21.71	117.85	120.13	16.10
*	420.000	2398.59	1517.00	3.09	5.01	9.04	4.06	593.23	894.65	29.12	119.14	121.98	16.06

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	470.000	2409.08	693.00	2.98	4.11	8.40	3.91	367.83	303.30	21.87	93.86	113.97	11.28
*	470.000	2409.45	1030.00	3.35	5.05	9.65	4.43	597.98	400.56	31.47	95.70	125.14	11.30
*	470.000	2409.64	1206.00	3.53	5.45	10.14	4.63	722.09	447.34	36.57	96.55	127.35	11.31
*	470.000	2409.92	1517.00	3.82	6.10	10.96	4.97	943.67	527.58	45.75	97.61	132.27	11.33
*	540.000	2426.53	693.00	4.33	2.94	7.80	2.65	135.32	549.75	7.92	73.23	78.32	17.45
*	540.000	2427.00	1030.00	4.80	3.95	9.14	3.16	274.50	742.21	13.28	77.91	88.81	17.54
*	540.000	2427.23	1206.00	5.03	4.35	9.61	3.35	356.79	832.83	16.38	80.26	90.19	17.60
*	540.000	2427.61	1517.00	5.41	4.95	10.35	3.64	509.14	985.69	22.17	84.00	92.13	17.69
*	620.000	2439.77	693.00	2.37	3.87	8.11	4.14	48.43	608.19	36.38	54.92	133.97	13.24
*	620.000	2440.40	1030.00	3.00	4.30	8.98	4.51	91.86	874.49	63.66	60.61	115.85	13.41
*	620.000	2440.66	1206.00	3.26	4.77	9.45	4.72	121.64	1005.83	78.53	62.08	113.97	13.43
*	620.000	2441.08	1517.00	3.68	5.44	10.15	5.05	177.58	1232.44	106.98	64.50	110.50	13.47
*	690.000	2451.67	693.00	2.67	3.29	7.69	3.30	18.70	666.41	7.89	55.42	141.29	11.91
*	690.000	2452.22	1030.00	3.22	3.85	8.75	3.68	39.64	976.62	13.74	58.46	130.31	11.82
*	690.000	2452.48	1206.00	3.48	4.09	9.19	3.84	52.96	1135.84	17.20	59.91	125.75	11.82
*	690.000	2452.90	1517.00	3.90	4.44	9.87	4.09	80.05	1413.02	23.93	62.30	119.08	11.82

.LLO WASH, TRIB. 1A

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	240.000	.00	.00	.00	2308.10	693.00	2310.10	.00	2310.46	84.44	5.40	154.27	75.41
	240.000	.00	.00	.00	2308.10	1030.00	2310.43	.00	2310.89	84.19	6.20	203.24	112.26
	240.000	.00	.00	.00	2308.10	1206.00	2310.58	.00	2311.08	83.90	6.53	227.31	131.66
	240.000	.00	.00	.00	2308.10	1517.00	2310.81	.00	2311.40	84.89	7.09	265.25	164.65
*	20.000	320.00	.00	.00	2317.80	693.00	2321.12	2321.12	2321.43	85.59	6.38	208.10	74.91
*	20.000	320.00	.00	.00	2317.80	1030.00	2321.31	2321.31	2321.68	97.27	7.26	264.27	104.43
*	20.000	320.00	.00	.00	2317.80	1206.00	2321.38	2321.38	2321.80	107.70	7.80	284.78	116.21
*	20.000	320.00	.00	.00	2317.80	1517.00	2321.52	2321.52	2322.00	112.25	8.32	328.74	143.18
*	120.000	460.00	.00	.00	2333.70	693.00	2337.50	2337.50	2338.17	85.60	7.20	125.99	74.90
*	120.000	460.00	.00	.00	2333.70	1030.00	2337.90	2337.90	2338.72	89.23	8.22	166.76	109.04
*	120.000	460.00	.00	.00	2333.70	1206.00	2338.09	2338.09	2338.97	89.86	8.63	186.41	127.22
*	120.000	460.00	.00	.00	2333.70	1517.00	2338.43	2338.43	2339.38	85.95	9.11	222.87	163.63
*	180.000	320.00	.00	.00	2346.10	693.00	2349.24	2349.24	2350.19	108.89	7.88	92.28	66.41
*	180.000	320.00	.00	.00	2346.10	1030.00	2349.86	2349.86	2351.00	94.33	8.74	129.34	106.05
*	180.000	320.00	.00	.00	2346.10	1206.00	2350.14	2350.14	2351.36	90.55	9.13	147.60	126.74
	180.000	320.00	.00	.00	2346.10	1517.00	2350.59	2350.59	2351.94	84.84	9.71	179.76	164.70
*	270.000	480.00	.00	.00	2364.20	693.00	2366.59	2366.59	2367.31	94.11	7.14	111.50	71.44
*	270.000	480.00	.00	.00	2364.20	1030.00	2367.08	2367.08	2367.94	86.95	7.94	155.45	110.46
*	270.000	480.00	.00	.00	2364.20	1206.00	2367.29	2367.29	2368.21	85.56	8.32	175.95	130.38
*	270.000	480.00	.00	.00	2364.20	1517.00	2367.62	2367.62	2368.65	84.53	8.92	209.37	165.00
*	350.000	420.00	.00	.00	2378.40	693.00	2381.45	2381.45	2382.26	85.35	7.83	114.84	75.01
*	350.000	420.00	.00	.00	2378.40	1030.00	2382.03	2382.03	2382.85	72.47	8.30	171.76	120.99
*	350.000	420.00	.00	.00	2378.40	1206.00	2382.23	2382.23	2383.11	73.14	8.70	193.22	141.02
*	350.000	420.00	.00	.00	2378.40	1517.00	2382.53	2382.53	2383.54	76.13	9.42	226.09	173.87
*	420.000	370.00	.00	.00	2395.50	693.00	2397.80	2397.80	2398.38	115.98	6.99	132.90	64.35
*	420.000	370.00	.00	.00	2395.50	1030.00	2398.16	2398.16	2398.88	120.06	7.98	173.43	94.00
*	420.000	370.00	.00	.00	2395.50	1206.00	2398.33	2398.33	2399.12	120.13	8.38	193.33	110.03
*	420.000	370.00	.00	.00	2395.50	1517.00	2398.59	2398.59	2399.50	121.98	9.04	224.54	137.35
*	470.000	280.00	.00	.00	2406.10	693.00	2409.08	2409.08	2409.70	113.97	8.40	131.31	64.91
*	470.000	280.00	.00	.00	2406.10	1030.00	2409.45	2409.45	2410.25	125.14	9.65	166.97	92.08
*	470.000	280.00	.00	.00	2406.10	1206.00	2409.64	2409.64	2410.51	127.35	10.14	184.52	106.87
*	470.000	280.00	.00	.00	2406.10	1517.00	2409.92	2409.92	2410.94	132.27	10.96	211.95	131.90
*	540.000	370.00	.00	.00	2422.20	693.00	2426.53	2426.53	2427.30	78.32	7.80	119.48	78.31
*	540.000	370.00	.00	.00	2422.20	1030.00	2427.00	2427.00	2428.00	88.81	9.14	154.90	109.29
*	540.000	370.00	.00	.00	2422.20	1206.00	2427.23	2427.23	2428.31	90.19	9.61	173.52	126.99
*	540.000	370.00	.00	.00	2422.20	1517.00	2427.61	2427.61	2428.82	92.13	10.35	204.25	158.04

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	620.000	410.00	.00	.00	2437.40	693.00	2439.77	2439.77	2440.69	133.97	8.11	96.31	59.87
*	620.000	410.00	.00	.00	2437.40	1030.00	2440.40	2440.40	2441.51	115.85	8.98	132.90	95.69
*	620.000	410.00	.00	.00	2437.40	1206.00	2440.66	2440.66	2441.87	113.97	9.45	148.59	112.97
*	620.000	410.00	.00	.00	2437.40	1517.00	2441.08	2441.08	2442.46	110.50	10.15	175.28	144.31
*	690.000	370.00	.00	.00	2449.00	693.00	2451.67	2451.67	2452.56	141.29	7.69	94.72	58.30
*	690.000	370.00	.00	.00	2449.00	1030.00	2452.22	2452.22	2453.35	130.31	8.75	125.68	90.23
*	690.000	370.00	.00	.00	2449.00	1206.00	2452.48	2452.48	2453.73	125.75	9.19	141.00	107.54
*	690.000	370.00	.00	.00	2449.00	1517.00	2452.90	2452.90	2454.33	119.08	9.87	167.06	139.02

LLO WASH, TRIB. 1A

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	240.000	693.00	2310.10	.00	.00	.00	139.96	.00
	240.000	1030.00	2310.43	.33	.00	.00	157.01	.00
	240.000	1206.00	2310.58	.15	.00	.00	162.43	.00
	240.000	1517.00	2310.81	.23	.00	.00	167.56	.00
*	20.000	693.00	2321.12	.00	11.02	.00	291.67	320.00
*	20.000	1030.00	2321.31	.19	10.88	.00	299.78	320.00
*	20.000	1206.00	2321.38	.07	10.80	.00	302.68	320.00
*	20.000	1517.00	2321.52	.14	10.71	.00	308.06	320.00
*	120.000	693.00	2337.50	.00	16.38	.00	99.64	460.00
*	120.000	1030.00	2337.90	.40	16.59	.00	104.15	460.00
*	120.000	1206.00	2338.09	.19	16.71	.00	106.25	460.00
*	120.000	1517.00	2338.43	.34	16.90	.00	110.05	460.00
*	180.000	693.00	2349.24	.00	11.74	.00	54.65	320.00
*	180.000	1030.00	2349.86	.63	11.96	.00	63.86	320.00
*	180.000	1206.00	2350.14	.28	12.05	.00	67.94	320.00
	180.000	1517.00	2350.59	.45	12.17	.00	74.59	320.00
*	270.000	693.00	2366.59	.00	17.35	.00	81.96	480.00
*	270.000	1030.00	2367.08	.49	17.22	.00	95.96	480.00
*	270.000	1206.00	2367.29	.21	17.15	.00	99.39	480.00
*	270.000	1517.00	2367.62	.33	17.03	.00	104.75	480.00
*	350.000	693.00	2381.45	.00	14.85	.00	88.25	420.00
*	350.000	1030.00	2382.03	.58	14.94	.00	104.02	420.00
*	350.000	1206.00	2382.23	.20	14.94	.00	106.53	420.00
*	350.000	1517.00	2382.53	.30	14.91	.00	110.26	420.00
*	420.000	693.00	2397.80	.00	16.35	.00	111.24	370.00
*	420.000	1030.00	2398.16	.36	16.13	.00	115.86	370.00
*	420.000	1206.00	2398.33	.17	16.10	.00	117.85	370.00
*	420.000	1517.00	2398.59	.26	16.06	.00	119.14	370.00
*	470.000	693.00	2409.08	.00	11.28	.00	93.86	280.00
*	470.000	1030.00	2409.45	.38	11.30	.00	95.70	280.00
*	470.000	1206.00	2409.64	.18	11.31	.00	96.55	280.00
*	470.000	1517.00	2409.92	.28	11.33	.00	97.61	280.00
*	540.000	693.00	2426.53	.00	17.45	.00	73.23	370.00
*	540.000	1030.00	2427.00	.47	17.54	.00	77.91	370.00
*	540.000	1206.00	2427.23	.24	17.60	.00	80.26	370.00
*	540.000	1517.00	2427.61	.37	17.69	.00	84.00	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	620.000	693.00	2439.77	.00	13.24	.00	54.92	410.00
*	620.000	1030.00	2440.40	.63	13.41	.00	60.61	410.00
*	620.000	1206.00	2440.66	.26	13.43	.00	62.08	410.00
*	620.000	1517.00	2441.08	.42	13.47	.00	64.50	410.00
*	690.000	693.00	2451.67	.00	11.91	.00	55.42	370.00
*	690.000	1030.00	2452.22	.54	11.82	.00	58.46	370.00
*	690.000	1206.00	2452.48	.26	11.82	.00	59.91	370.00
*	690.000	1517.00	2452.90	.43	11.82	.00	62.30	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     20.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    120.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    120.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    180.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    180.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    180.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    180.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    180.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    180.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    180.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=    270.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    270.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    270.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    270.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=    350.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    350.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    350.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    350.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=    420.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    420.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    420.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    420.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    540.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    540.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    540.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    540.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    540.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    540.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    540.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    540.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    620.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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[illegible]ON SECNO=    620.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    620.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    690.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    690.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    690.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    690.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    690.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

[illegible] - Program terminated.

C:\27815\NATURAL>cd..

C:\27815>cd encro

C:\27815\ENCRO>dir a:

 Volume in drive A has no label
 Directory of  A:\

CC        MCE    19550   3-06-90  11:19a
CH2MACCT  HLP     3906  12-09-88  11:50a
CW        MCE    21457   3-06-90   2:00p
CWT1      MCE     4132   3-06-90   3:31p
CWT2      DAT     2484   2-12-90   4:29p
CWT2      MCE     2421   3-06-90   5:10p
FS        MCE     5336   3-08-90   6:20p
GA        MCE    17586   3-15-90  10:33a
GR        MCE     7162   3-15-90   5:22p
OCEAST    MCE    16774   3-11-90   3:17p
OCT1      MCE     6092   3-13-90   2:09p
OCT1A     MCE     4661   3-14-90   2:14p
OCT1A     MCX    24425   3-14-90   2:14p
OCT2      MCE     5693   3-13-90   7:35p
[illegible]       MCE     9382   2-23-90   3:14p
[illegible]       DFT       62   3-08-90  11:07a
RO        MCE    12954   3-13-90   4:03p
ROT1      MCE     3776   2-22-90   2:41p
ROT2      MCE     2668   2-22-90   4:50p
```

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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     3/14/90    TIME    14:14:30         *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
*************************************
```

OCT 1A.MCX

100 YR CWSEL 3-16-90 DI

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 3/14/90 14:14:31

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2        100-YR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3        OCOTILLO TRIB. 1A      (OCT1A.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2310.58

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT     NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT        2      1206      1206
NC      .04       .04      .032
ET                          4.1    9936.3    10098.7
          THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
          NATURAL CONDITIONS.  REFER TO FILE OCT1A.OUT (CH2M HILL, 1990)

X1      240        15    9941.6   10000.0
GR   2323.6    9863.7    2323.7    9890.9    2320.8    9905.0    2315.9    9924.9    2308.1    9941.6
GR   2309.1    9978.0    2308.5   10000.0    2309.3   10017.7    2308.8   10047.9    2309.8   10062.4
GR   2310.5   10097.1    2313.2   10151.6    2317.4   10175.1    2321.3   10206.2    2322.0   10227.5

ET                          4.1    9902.4   10007.2
X1      020         9      9985   10007.2       340       300       320
GR     2332      9650      2320      9760      2321      9832      2320      9900    2320.5      9950
GR     2321      9985    2317.8   10000.0    2320.1   10007.2    2321.5   10054.1    2321.5   10058.4
```

ET			4.1	9975.2	10020.7					
X1	120	18	9975.2	10009.6	460	460	460			
GR	2351.2	9913.4	2350.2	9933.4	2345.1	9956.5	2340.8	9963.6	2336.2	9975.2
GR	2335.2	9992.6	2333.7	10000.0	2336.7	10009.6	2337.0	10030.4	2336.2	10060.2
GR	2338.4	10079.4	2339.9	10093.1	2339.1	10107.4	2341.5	10131.8	2346.6	10157.6
GR	2349.4	10170.7	2350.1	10207.8	2350.3	10224.6				
ET			4.1	9983.0	10024.2					
X1	180	14	9983.0	10024.2	320	320	320			
GR	2364.0	9905.0	2364.0	9936.6	2363.1	9955.3	2348.5	9983.0	2346.4	9994.7
GR	2346.1	10000.0	2348.3	10024.2	2351.3	10062.7	2353.0	10113.7	2357.0	10142.6
GR	2360.9	10161.7	2362.2	10187.0	2364.3	10277.3	2364.7	10304.9		
ET			4.1	9978.1	10021.5					
X1	270	14	9978.1	10021.5	480	480	480			
GR	2384.4	9774.0	2381.1	9788.2	2372.7	9832.5	2370.0	9854.6	2369.4	9892.2
GR	2367.0	9929.0	2366.2	9953.0	2365.3	9978.1	2364.3	10000.0	2364.2	10013.0
GR	2365.0	10021.5	2376.3	10033.2	2376.8	10057.1	2377.7	10062.2		
ET			4.1	9984.7	10020.9					
X1	350	15	9984.7	10014.3	430	410	420			
GR	2395.9	9859.9	2395.8	9943.1	2393.9	9958.6	2379.6	9984.7	2379.6	9985.2
GR	2378.6	9997.1	2378.4	10000.0	2379.5	10014.3	2381.7	10042.2	2380.5	10068.3
GR	2383.0	10094.5	2384.8	10118.4	2391.8	10152.8	2395.0	10193.7	2396.2	10209.4
	.045	.045	.035							
ET			4.1	9962.8	10017.5					
X1	420	13	9980.6	10017.5	370	370	370			
GR	2409.5	9850.1	2409.7	9873.2	2398.3	9904.7	2397.2	9916.6	2396.5	9937.0
GR	2397.4	9972.0	2396.2	9980.6	2395.5	9995.6	2396.0	10000.0	2396.0	10017.5
GR	2409.6	10046.6	2414.1	10079.7	2415.1	10113.9				
ET			4.1	10028.8	10074.3					
X1	470	17	10060.0	10074.3	320	240	280			
GR	2427.4	9814.7	2423.3	9846.5	2424.1	9876.5	2424.7	9902.9	2422.1	9925.2
GR	2414.1	9947.3	2410.1	9959.6	2411.3	9978.1	2409.6	9982.3	2407.5	9989.9
GR	2408.4	10000.0	2408.1	10025.5	2407.0	10060.0	2406.1	10074.3	2420.9	10093.0
GR	2425.7	10105.8	2427.6	10122.3						
ET			4.1	9966.8	10000.0					
X1	540	11	9977.0	10000.0	370	370	370			
GR	2438.7	9812.9	2437.6	9843.7	2433.3	9884.0	2428.3	9913.1	2426.1	9933.0
GR	2424.9	9977.0	2422.2	9995.6	2424.0	10000.0	2438.1	10013.2	2443.0	10031.7
GR	2444.6	10068.0								
ET			4.1	9976.7	10012.1					
X1	620	12	9976.7	10012.1	430	390	410			
GR	2452.3	9873.1	2453.1	9918.0	2451.6	9931.6	2440.4	9960.9	2437.7	9976.7
GR	2437.7	10000.0	2437.4	10012.1	2441.9	10026.2	2453.1	10050.0	2458.3	10063.7
GR	2457.6	10122.4	2456.6	10133.9						

ET			4.1	9961.2	10007.2					
X1	690	15	9961.2	10007.2	380	360	370			
GR	2480.8	9859.5	2474.2	9886.0	2460.8	9924.8	2454.0	9943.3	2450.1	9961.2
GR	2450.0	9980.1	2449.8	9993.5	2449.0	10000.0	2449.5	10007.2	2458.7	10016.5
GR	2465.1	10034.7	2466.1	10053.0	2463.4	10070.0	2466.0	10101.0	2469.2	10145.5

```
      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    100-YR FLOOD FREQUENCY MODEL (ENCROACHMENT CONDITIONS)
T3    OCOTILLO TRIB. 1A      (OCT1A.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                     2311.58

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
```

THIS RUN EXECUTED 3/14/90 14:14:57

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO TRIB. 1A

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	240.000	1206.00	6.53	2.48	2308.10	.00	2310.58	131.66	162.43	9936.29	9941.60	10000.00	10098.72
	240.000	1206.00	3.82	3.48	2308.10	.00	2311.58	298.48	162.40	9936.30	9941.60	10000.00	10098.70
	20.000	1206.00	7.80	3.58	2317.80	320.00	2321.38	116.21	302.68	9747.36	9985.00	10007.20	10050.04
	20.000	1206.00	9.19	4.16	2317.80	320.00	2321.96	110.17	104.80	9902.40	9985.00	10007.20	10007.20
*	120.000	1206.00	8.63	4.39	2333.70	460.00	2338.09	127.22	106.25	9970.44	9975.20	10009.60	10076.68
*	120.000	1206.00	10.01	4.81	2333.70	460.00	2338.51	115.54	45.50	9975.20	9975.20	10009.60	10020.70
*	180.000	1206.00	9.13	4.04	2346.10	320.00	2350.14	126.74	67.94	9979.89	9983.00	10024.20	10047.83
*	180.000	1206.00	9.87	4.01	2346.10	320.00	2350.11	110.52	41.20	9983.00	9983.00	10024.20	10024.20
*	270.000	1206.00	8.32	3.09	2364.20	480.00	2367.29	130.38	99.39	9924.48	9978.10	10021.50	10023.88
*	270.000	1206.00	9.69	3.26	2364.20	480.00	2367.46	108.92	43.40	9978.10	9978.10	10021.50	10021.50
*	350.000	1206.00	8.70	3.83	2378.40	420.00	2382.23	141.02	106.53	9979.90	9984.70	10014.30	10086.43
*	350.000	1206.00	10.75	4.02	2378.40	420.00	2382.42	111.55	36.20	9984.70	9984.70	10014.30	10020.90
*	420.000	1206.00	8.38	2.83	2395.50	370.00	2398.33	110.03	117.85	9904.63	9980.60	10017.50	10022.48
*	420.000	1206.00	9.56	3.34	2395.50	370.00	2398.84	104.36	54.70	9962.80	9980.60	10017.50	10017.50
*	470.000	1206.00	10.14	3.53	2406.10	280.00	2409.64	106.87	96.55	9982.21	10060.00	10074.30	10078.77
*	470.000	1206.00	11.07	4.01	2406.10	280.00	2410.11	91.32	45.50	10028.80	10060.00	10074.30	10074.30
*	540.000	1206.00	9.61	5.03	2422.20	370.00	2427.23	126.99	80.26	9922.77	9977.00	10000.00	10003.03
*	540.000	1206.00	11.25	5.32	2422.20	370.00	2427.52	103.89	33.20	9966.80	9977.00	10000.00	10000.00
*	620.000	1206.00	9.45	3.26	2437.40	410.00	2440.66	112.97	62.08	9960.23	9976.70	10012.10	10022.31
*	620.000	1206.00	10.35	3.54	2437.40	410.00	2440.94	97.41	35.40	9976.70	9976.70	10012.10	10012.10
	690.000	1206.00	9.19	3.48	2449.00	370.00	2452.48	107.54	59.91	9950.30	9961.20	10007.20	10010.21
*	690.000	1206.00	9.48	3.55	2449.00	370.00	2452.55	98.52	46.00	9961.20	9961.20	10007.20	10007.20

TILLO TRIB. 1A

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	240.000	1206.00	2310.58	.00	.00	.00	9941.60	10000.00	.00	83.90	2311.08	.00
	240.000	1206.00	2311.58	1.00	.00	9936.30	9941.60	10000.00	10098.70	16.33	2311.75	.66
*	20.000	1206.00	2321.38	.00	10.80	.00	9985.00	10007.20	.00	107.70	2321.80	.00
*	20.000	1206.00	2321.96	.58	10.38	9902.40	9985.00	10007.20	10007.20	119.83	2322.80	1.00
*	120.000	1206.00	2338.09	.00	16.71	.00	9975.20	10009.60	.00	89.86	2338.97	.00
*	120.000	1206.00	2338.51	.42	16.55	9975.20	9975.20	10009.60	10020.70	108.96	2339.97	1.00
*	180.000	1206.00	2350.14	.00	12.05	.00	9983.00	10024.20	.00	90.55	2351.36	.00
*	180.000	1206.00	2350.11	-.03	11.60	9983.00	9983.00	10024.20	10024.20	119.08	2351.63	.27
*	270.000	1206.00	2367.29	.00	17.15	.00	9978.10	10021.50	.00	85.56	2368.21	.00
*	270.000	1206.00	2367.46	.17	17.35	9978.10	9978.10	10021.50	10021.50	122.59	2368.92	.71
*	350.000	1206.00	2382.23	.00	14.94	.00	9984.70	10014.30	.00	73.14	2383.11	.00
*	350.000	1206.00	2382.42	.19	14.96	9984.70	9984.70	10014.30	10020.90	116.89	2384.11	.99
	420.000	1206.00	2398.33	.00	16.10	.00	9980.60	10017.50	.00	120.13	2399.12	.00
	420.000	1206.00	2398.84	.51	16.42	9962.80	9980.60	10017.50	10017.50	133.55	2400.12	1.00
*	470.000	1206.00	2409.64	.00	11.31	.00	10060.00	10074.30	.00	127.35	2410.51	.00
*	470.000	1206.00	2410.11	.47	11.27	10028.80	10060.00	10074.30	10074.30	174.41	2411.51	1.00
*	540.000	1206.00	2427.23	.00	17.60	.00	9977.00	10000.00	.00	90.19	2428.31	.00
*	540.000	1206.00	2427.52	.29	17.42	9966.80	9977.00	10000.00	10000.00	134.75	2429.31	1.00
*	620.000	1206.00	2440.66	.00	13.43	.00	9976.70	10012.10	.00	113.97	2441.87	.00
*	620.000	1206.00	2440.94	.28	13.42	9976.70	9976.70	10012.10	10012.10	153.28	2442.60	.73
*	690.000	1206.00	2452.48	.00	11.82	.00	9961.20	10007.20	.00	125.75	2453.73	.00
*	690.000	1206.00	2452.55	.08	11.61	9961.20	9961.20	10007.20	10007.20	149.84	2453.95	.22

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     20.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    120.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    120.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    180.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    180.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    180.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    180.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    180.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    270.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    270.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    270.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    270.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    350.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    350.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    350.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    350.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    420.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    420.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    540.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    540.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    540.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    540.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    540.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    620.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    620.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    620.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    620.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    690.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    690.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    690.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    690.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    690.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

FLOODWAY DATA, OCOTILLO TRIB. 1A
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
240.000	162.	390.	3.1	2311.6	2310.6	1.0
20.000	105.	184.	6.6	2322.0	2321.4	.6
120.000	45.	130.	9.3	2338.5	2338.1	.4
180.000	41.	122.	9.9	2350.1	2350.1	.0
270.000	43.	124.	9.7	2367.5	2367.3	.2
350.000	36.	119.	10.1	2382.4	2382.2	.2
420.000	55.	140.	8.6	2398.8	2398.3	.5
470.000	45.	132.	9.1	2410.1	2409.6	.5
540.000	33.	119.	10.2	2427.5	2427.2	.3
620.000	35.	117.	10.3	2440.9	2440.7	.2
690.000	46.	127.	9.5	2452.6	2452.5	.1

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     2/26/90    TIME    16:16:10           *
*******************************************************
```

```
*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
```

OCT2.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:16:10

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 2  (OCT2.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .020                                2215.89

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150


QT       4       145       222       260       330

NC     .048      .048      .042        .1        .3
       *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
         SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
         FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
         QT VALUES ARE 22% OF SUBWTRSHD G3
X1     1830        15      9980     10020
GR   2240.0      9740    2236.0      9780    2232.0      9820    2228.0      9960    2220.0      9970
GR   2216.0      9980    2215.0      9985    2215.0     10015    2216.0     10020    2220.0     10140
GR   2224.0     10290    2228.0     10310    2229.0     10350    2229.0     10450    2230.0     10470


NC      .05       .05       .04        .1        .3

X1       70        22    9963.7   10000.0       720       760       740
GR   2241.5    9822.3    2249.1    9855.5    2246.3    9865.3    2245.2    9889.8    2237.4    9905.9
GR   2233.4    9932.1    2235.2    9940.5    2235.6    9947.0    2233.9    9963.7    2231.7    9985.2
GR   2234.1    9998.7    2234.3   10000.0    2233.7   10024.7    2235.1   10052.6    2236.7   10088.8
GR   2238.6   10114.5    2237.9   10150.4    2240.9   10180.3    2241.7   10204.1    2242.6   10223.7
```

	2247.0	10261.1	2247.0	10282.2						
NH	4	.05	9852.2	.04	9923.6	.05	9957.8	999	10175.7	
X1	150	14	9852.2	9923.6	400	360	420			
GR	2258.2	9772.3	2257.1	9797.4	2246.4	9829.8	2244.7	9852.2	2241.9	9870.6
GR	2244.0	9889.6	2244.0	9923.6	2244.8	9957.8	2243.9	10000.0	2244.8	10035.6
GR	2243.1	10090.7	2245.8	10117.5	2252.1	10150.0	2253.2	10175.7		
NC	.045	.045	.045							
X1	230	14	9978.9	10014.0	410	440	420			
GR	2270.4	9853.6	2262.2	9915.7	2256.2	9939.3	2257.4	9959.6	2256.6	9978.9
GR	2253.4	9997.9	2253.2	10000.0	2257.8	10014.0	2259.3	10016.5	2265.9	10039.5
GR	2269.0	10058.0	2270.0	10065.4	2273.6	10132.2	2274.1	10138.8		
X1	310	12	9981.0	10008.1	440	450	420			
GR	2281.4	9895.5	2282.4	9927.5	2276.4	9945.4	2270.5	9966.4	2268.9	9981.0
GR	2267.8	9994.6	2266.3	10000.0	2268.4	10008.1	2271.5	10022.8	2276.9	10065.7
GR	2283.8	10101.7	2285.6	10130.5						
X1	420	15	10000.0	10024.2	570	560	580			
	2302.0	9907.0	2299.8	9928.2	2292.7	9949.8	2291.3	9958.0	2288.1	9981.0
	2284.9	10000.0	2284.5	10009.2	2286.2	10024.2	2286.1	10026.1	2291.1	10044.0
GR	2296.2	10070.0	2299.6	10098.6	2300.5	10128.2	2301.5	10187.1	2301.6	10215.3
NC	.04	.04	.04							
X1	480	11	9997.6	10024.7	320	340	320			
GR	2311.5	9855.4	2309.4	9966.2	2308.2	9973.0	2300.6	9984.0	2294.9	9997.6
GR	2295.1	10000.0	2298.1	10007.0	2297.6	10024.7	2298.0	10031.1	2298.7	10047.0
GR	2312.0	10170.0								
X1	570	23	9987.0	10023.8	470	490	480			
GR	2322.4	9620.1	2321.8	9722.5	2320.0	9742.4	2321.5	9774.2	2321.4	9893.2
GR	2321.1	9921.8	2318.2	9950.5	2314.9	9973.1	2310.9	9987.0	2308.7	9996.8
GR	2309.3	10000.0	2310.0	10018.8	2310.7	10023.8	2315.3	10034.5	2317.5	10055.2
GR	2321.3	10082.6	2322.2	10113.3	2321.1	10156.8	2321.6	10193.4	2321.0	10232.9
GR	2321.6	10262.5	2322.1	10289.0	2323.1	10301.9				
NC	.045	.045	.035							
X1	670	9	9975.7	10027.1	530	530	530			
GR	2338.1	9840.9	2337.9	9907.2	2332.6	9971.8	2331.3	9975.7	2326.0	10000.0
GR	2330.6	10027.1	2334.6	10071.6	2337.7	10115.6	2337.1	10182.2		

X1	780	12	9973.8	10023.2	570	570	580			
GR	2355.5	9805.3	2355.4	9889.3	2355.8	9945.3	2354.6	9968.9	2352.4	9973.8
GR	2347.7	9996.0	2347.8	10000.0	2350.0	10023.2	2351.2	10045.6	2355.2	10068.1
GR	2356.6	10085.1	2357.3	10117.7						
X1	880	10	9971.7	10022.0	510	510	530			
GR	2373.8	9713.0	2373.5	9764.2	2373.1	9864.9	2369.9	9946.7	2367.6	9971.7
GR	2362.9	10000.0	2362.0	10007.2	2366.9	10022.0	2369.7	10051.7	2370.0	10083.0
X1	990	17	9975.0	10009.6	570	590	580			
GR	2395.9	9650.5	2394.9	9703.5	2392.2	9737.9	2390.9	9754.6	2391.3	9776.6
GR	2391.3	9834.2	2390.7	9889.4	2388.5	9941.7	2387.8	9955.7	2385.3	9975.0
GR	2382.8	10000.0	2383.5	10009.6	2386.5	10017.1	2389.6	10049.5	2391.6	10102.5
GR	2390.8	10129.6	2390.9	10132.9						
X1	1070	16	9984.9	10022.8	420	410	420			
GR	2405.1	9803.3	2406.5	9862.9	2404.1	9896.0	2403.1	9946.5	2400.5	9984.9
GR	2400.6	9987.0	2400.4	10000.0	2400.3	10010.0	2400.9	10022.8	2402.8	10046.0
GR	2402.8	10059.3	2402.8	10074.5	2404.1	10135.6	2404.3	10176.5	2405.7	10225.8
GR	2407.9	10261.8								

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  CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
       *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
         SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
         FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
         QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000      .95  2215.95      .00  2215.89  2216.25      .30      .00      .00  2216.00
    145.        0.     145.       0.       0.      33.       0.       0.       0.   2216.00
     .00       .00     4.41      .00     .000     .042     .000     .000  2215.00  9980.27
  .019987       0.       0.       0.        0        0        5      .00    39.46 10019.73


CCHV=     .100 CEHV=     .300
*SECNO 70.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     1.86  2233.56  2233.56      .00  2234.02      .46    16.10      .05  2233.90
    145.        0.     145.       0.       0.      27.       0.       1.       1.   2234.30
     .04       .05     5.43      .00     .050     .040     .000     .000  2231.70  9931.03
  .023765     720.     740.     760.        4       17        0      .00    30.50  9995.68


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

  150.000     1.83  2243.73  2243.73      .00  2244.20      .47    10.18      .00  2244.70
    145.        0.     145.       0.       0.      26.       9.       1.       1.   2244.00
     .06       .00     5.49      .00     .000     .040  999.000     .000  2241.90  9858.52
  .024726     400.     420.     360.        6        5        0      .00    55.75 10097.04


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
230.000	2.20	2255.40	2255.40	.00	2255.98	.59	11.40	.04	2256.60
145.	0.	145.	0.	0.	24.	0.	1.	1.	2257.80
.08	.00	6.14	.00	.000	.045	.000	.000	2253.20	9986.04
.029916	410.	420.	440.	20	11	0	.00	20.65	10006.69

*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

310.000	2.42	2268.72	2268.72	.00	2269.22	.50	12.58	.01	2268.90
145.	0.	145.	0.	0.	25.	0.	1.	2.	2268.40
.10	.00	5.71	1.66	.000	.045	.045	.000	2266.30	9983.23
.029961	440.	420.	450.	5	8	0	.00	26.38	10009.61

*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	1.55	2286.05	2286.05	.00	2286.52	.46	17.07	.00	2284.90
145.	15.	130.	0.	4.	23.	0.	2.	2.	2286.20
.13	3.85	5.63	.00	.045	.045	.000	.000	2284.50	9993.16
.028965	570.	580.	560.	5	14	0	.00	29.73	10022.89

*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

480.000	2.68	2297.58	2297.58	.00	2298.27	.69	7.61	.07	2294.90
145.	52.	93.	0.	9.	13.	0.	2.	2.	2297.60
.14	6.03	6.97	.00	.040	.040	.000	.000	2294.90	9991.20
.019879	320.	320.	340.	10	14	0	.00	14.58	10005.79

*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

570.000	1.76	2310.46	2310.46	.00	2310.89	.43	10.85	.03	2310.90
145.	0.	145.	0.	0.	27.	0.	2.	2.	2310.70
.17	.00	5.27	.00	.000	.040	.000	.000	2308.70	9988.97
.026115	470.	480.	490.	4	23	0	.00	33.11	10022.07

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.15  2328.15  2328.15      .00  2328.71      .56    11.54      .04  2331.30
     145.       0.     145.       0.       0.      24.       0.       2.       3.   2330.60
      .19      .00     5.98      .00     .000     .035     .000     .000  2326.00  9990.13
  .018434     530.     530.     530.        4       11        0      .00    22.54 10012.68


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     1.68  2349.38  2349.38      .00  2349.85      .47    10.88      .01  2352.40
     145.       0.     145.       0.       0.      26.       0.       3.       3.   2350.00
      .22      .00     5.52      .00     .000     .035     .000     .000  2347.70  9988.08
  .019087     570.     580.     570.        3       15        0      .00    28.56 10016.64


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  880.000     2.14  2364.14  2364.14      .00  2364.72      .58     9.87      .03  2367.60
     145.       0.     145.       0.       0.      24.       0.       3.       3.   2366.90
      .24      .00     6.09      .00     .000     .035     .000     .000  2362.00  9992.51
  .018183     510.     530.     510.        5       11        0      .00    21.17 10013.68


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     1.62  2384.42  2384.42      .00  2384.90      .48    10.53      .01  2385.30
     145.       0.     142.       3.       0.      25.       1.       3.       4.   2383.50
      .27      .00     5.62     2.52     .000     .035     .045     .000  2382.80  9983.80
  .018108     570.     580.     590.        4       19        0      .00    28.09 10011.90


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000      .95  2401.25  2401.25      .00  2401.57      .33     7.65      .02  2400.50
     145.       9.     134.       1.       4.      28.       1.       4.       4.   2400.90
      .30     2.31     4.74     1.38     .045     .035     .045     .000  2400.30  9973.89
  .018348     420.     420.     410.        4       11        0      .00    53.13 10027.02
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
50-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH, TRIB. 2 (OCT2.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			.020				2216.12	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
       *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
         SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
         FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
         QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.19  2216.19      .00  2216.12  2216.61      .42      .00      .00  2216.00
    222.       0.     222.       0.       0.      43.       1.       0.       0.   2216.00
     .00      .04     5.20      .91     .048     .042     .048     .000  2215.00  9979.52
  .019977      0.       0.       0.        0        0        5      .00    46.18 10025.71


CCHV=     .100 CEHV=     .300
*SECNO 70.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.24  2233.94  2233.94      .00  2234.42      .48    14.58      .02  2233.90
    222.       3.     217.       2.       2.      39.       2.       1.       1.   2234.30
     .04     1.71     5.60     1.02     .050     .040     .050     .000  2231.70  9928.53
  .019426    720.     740.     760.        4       17        0      .00    55.60 10029.57


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.30  2244.20  2244.20      .00  2244.53      .33     9.25      .01  2244.70
    222.       0.     221.       1.       0.      48.      30.       1.       2.   2244.00
     .06      .00     4.64      .03     .000     .040    5.197     .000  2241.90  9855.51
  .025243    400.     420.     360.        4        5        0      .00   148.47 10101.58


*SECNO 230.000
7185 MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  230.000     2.63  2255.83  2255.83      .00  2256.52      .68    11.09      .10  2256.60
     222.       0.     222.       0.       0.      33.       0.       2.       3.   2257.80
      .08      .00     6.63      .00     .000     .045     .000     .000  2253.20  9983.45
  .027621     410.     420.     440.        3        8        0      .00    24.57 10008.02


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     2.76  2269.06  2269.06      .00  2269.69      .62    11.59      .01  2268.90
     222.       0.     219.       3.       0.      34.       1.       2.       3.   2268.40
      .10     1.03     6.36     2.59     .045     .045     .045     .000  2266.30  9979.50
  .027552     440.     420.     450.        4        8        0      .00    31.75 10011.25


*SECNO 420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     1.88  2286.38  2286.38      .00  2286.94      .57    15.55      .01  2284.90
     222.      28.     193.       1.       6.      31.       1.       3.       3.   2286.20
      .13     4.32     6.26     1.84     .045     .045     .045     .000  2284.50  9991.23
  .026169     570.     580.     560.       20       19        0      .00    35.86 10027.09


*SECNO 480.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  480.000     3.32  2298.22  2298.22      .00  2298.72      .49     7.05      .01  2294.90
     222.      89.     124.       8.      13.      26.       3.       3.       4.   2297.60
      .14     6.77     4.84     2.57     .040     .040     .040     .000  2294.90  9989.67
  .018773     320.     320.     340.       20       18        0      .00    46.50 10036.17


*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.05  2310.75  2310.75      .00  2311.29      .54    10.16      .01  2310.90
     222.       0.     222.       0.       0.      38.       0.       3.       4.   2310.70
      .16      .00     5.90      .06     .000     .040     .040     .000  2308.70  9987.67
  .024260     470.     480.     490.        5       14        0      .00    36.24 10023.91
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

670.000	2.55	2328.55	2328.55	.00	2329.21	.66	10.80	.03	2331.30
222.	0.	222.	0.	0.	34.	0.	4.	5.	2330.60
.19	.00	6.50	.00	.000	.035	.000	.000	2326.00	9988.29
.017347	530.	530.	530.	10	11	0	.00	26.75	10015.04

*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

780.000	2.02	2349.72	2349.72	.00	2350.28	.56	10.26	.01	2352.40
222.	0.	222.	0.	0.	37.	0.	4.	5.	2350.00
.21	.00	6.01	.00	.000	.035	.000	.000	2347.70	9986.46
.018025	570.	580.	570.	4	15	0	.00	33.77	10020.24

*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

880.000	2.56	2364.56	2364.56	.00	2365.25	.69	9.32	.04	2367.60
222.	0.	222.	0.	0.	33.	0.	5.	5.	2366.90
.24	.00	6.65	.00	.000	.035	.000	.000	2362.00	9990.00
.017152	510.	530.	510.	9	11	0	.00	24.93	10014.93

*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

990.000	1.97	2384.77	2384.77	.00	2385.35	.58	9.89	.01	2385.30
222.	0.	216.	6.	0.	35.	2.	5.	6.	2383.50
.26	.00	6.20	3.02	.000	.035	.045	.000	2382.80	9980.33
.016961	570.	580.	590.	3	15	0	.00	32.43	10012.77

*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1070.000	1.17	2401.47	2401.47	.00	2401.89	.42	7.07	.02	2400.50
222.	18.	200.	4.	7.	37.	2.	6.	6.	2400.90
.28	2.64	5.40	1.85	.045	.035	.045	.000	2400.30	9970.53
.016739	420.	420.	410.	4	14	0	.00	59.26	10029.80

T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 100-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH, TRIB. 2 (OCT2.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4			.020				2216.24	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1							

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   CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
       *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
         SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
         FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
         QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.29  2216.29  2216.24  2216.24  2216.76     .47      .00      .00  2216.00
    260.        0.     258.       2.       0.     47.       1.       0.       0.  2216.00
     .00     1.16     5.53     1.22     .048     .042     .048     .000  2215.00  9979.27
  .019971       0.       0.       0        0        5        0      .00    49.53 10028.80


CCHV=     .100 CEHV=     .300
*SECNO 70.000

3265 DIVIDED FLOW

   MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.39  2234.09  2234.09      .00  2234.57     .48    13.79      .00  2233.90
    260.        5.     249.       6.       3.     44.       5.       1.       1.  2234.30
     .04     1.84     5.67     1.32     .050     .040     .050     .000  2231.70  9927.57
  .017431     720.     740.     760.        3       17        0      .00    68.47 10032.49


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.34  2244.24  2244.24      .00  2244.64     .40     9.12      .01  2244.70
    260.        0.     258.       2.       0.     51.      34.       1.       2.  2244.00
     .06      .00     5.08      .05     .000     .040    3.367     .000  2241.90  9855.20
  .027929     400.     420.     360.        9        5        0      .00   156.81 10102.04


*SECNO 230.000
7185 MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  230.000     2.80  2256.00  2256.00      .00  2256.74      .74    11.68      .10  2256.60
     260.       0.     260.       0.       0.      38.       0.       2.       3.   2257.80
      .08      .00     6.90      .00     .000     .045     .000     .000  2253.20  9982.47
  .027680     410.     420.     440.        4       11        0      .00    26.05 10008.52


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     2.91  2269.21  2269.21      .00  2269.88      .67    11.21      .01  2268.90
     260.       1.     255.       5.       0.      39.       2.       2.       3.   2268.40
      .10     1.53     6.61     2.87     .045     .045     .045     .000  2266.30  9978.14
  .025738     440.     420.     450.        4        8        0      .00    33.82 10011.96


*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     2.01  2286.51  2286.51      .00  2287.12      .61    14.67      .01  2284.90
     260.      35.     223.       2.       8.      34.       1.       3.       4.   2286.20
      .12     4.48     6.54     2.38     .045     .045     .045     .000  2284.50  9990.42
  .024924     570.     580.     560.        3       19        0      .00    37.15 10027.58


*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  480.000     3.49  2298.39  2298.39      .00  2298.86      .47     6.38      .01  2294.90
     260.      94.     151.      15.      14.      30.       5.       3.       4.   2297.60
      .14     6.50     5.00     2.77     .040     .040     .040     .000  2294.90  9989.28
  .016264     320.     320.     340.       10       16        0      .00    50.58 10039.86


*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.18  2310.88  2310.88      .00  2311.46      .59     9.19      .04  2310.90
     260.       0.     260.       0.       0.      42.       0.       4.       4.   2310.70
      .16      .00     6.15      .06     .000     .040     .040     .000  2308.70  9987.10
  .023043     470.     480.     490.        3       14        0      .00    37.11 10024.21
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

670.000	2.72	2328.72	2328.72	.00	2329.42	.70	10.43	.03	2331.30
260.	0.	260.	0.	0.	39.	0.	4.	5.	2330.60
.18	.00	6.71	.00	.000	.035	.000	.000	2326.00	9987.53
.016987	530.	530.	530.	20	11	0	.00	28.49	10016.02

*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

780.000	2.16	2349.86	2349.86	.00	2350.46	.59	10.00	.01	2352.40
260.	0.	260.	0.	0.	42.	0.	5.	5.	2350.00
.21	.00	6.19	.00	.000	.035	.000	.000	2347.70	9985.77
.017511	570.	580.	570.	4	15	0	.00	36.00	10021.77

*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

880.000	2.73	2364.73	2364.73	.00	2365.47	.73	9.10	.04	2367.60
260.	0.	260.	0.	0.	38.	0.	5.	6.	2366.90
.23	.00	6.87	.00	.000	.035	.000	.000	2362.00	9988.96
.016825	510.	530.	510.	9	11	0	.00	26.49	10015.46

*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

990.000	2.11	2384.91	2384.91	.00	2385.54	.63	9.71	.01	2385.30
260.	0.	252.	8.	0.	39.	2.	6.	6.	2383.50
.25	.00	6.43	3.22	.000	.035	.045	.000	2382.80	9978.89
.016657	570.	580.	590.	3	15	0	.00	34.24	10013.13

*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1070.000	1.27	2401.57	2401.57	.00	2402.03	.46	6.90	.02	2400.50
260.	23.	231.	6.	8.	41.	3.	6.	7.	2400.90
.28	2.77	5.67	2.03	.045	.035	.045	.000	2400.30	9969.07
.016203	420.	420.	410.	5	14	0	.00	61.93	10031.00

```
      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    500-YR FLOOD FREQUENCY MODEL
T3    OCOTILLO WASH, TRIB. 2   (OCT2.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .020                                2216.44

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
          SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
          FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
          QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.46  2216.46  2216.44  2216.44  2217.02      .57      .00      .00  2216.00
    330.       0.     324.       5.       0.     53.       3.       0.       0.   2216.00
     .00     1.57     6.08     1.65     .048     .042     .048     .000  2215.00  9978.85
  .020275       0.       0.       0.        0        5        0      .00    54.89 10033.75


CCHV=     .100 CEHV=     .300
*SECNO 70.000

3265 DIVIDED FLOW

    20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.62  2234.32  2234.32      .00  2234.79      .47    12.79      .01  2233.90
    330.      11.     299.      20.       6.     52.      12.       1.       1.   2234.30
     .04     2.01     5.73     1.69     .050     .040     .050     .000  2231.70  9926.06
  .014890     720.     740.     760.       20       17        0      .00    87.91 10037.11


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.53  2244.43  2244.43      .00  2244.82      .39     7.36      .01  2244.70
    330.       0.     324.       6.       0.     64.      53.       2.       2.   2244.00
     .06      .00     5.09      .11     .000     .040    1.237     .000  2241.90  9853.98
  .021251     400.     420.     360.        9       10        0      .00   189.86 10103.89
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 230.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

230.000	3.10	2256.30	2256.30	.00	2257.10	.80	9.92	.12	2256.60
330.	0.	330.	0.	0.	46.	0.	3.	4.	2257.80
.08	.05	7.20	.00	.045	.045	.000	.000	2253.20	9938.91
.026370	410.	420.	440.	19	11	0	.00	30.80	10009.43

*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

310.000	3.17	2269.47	2269.47	.00	2270.21	.74	10.37	.01	2268.90
330.	3.	318.	9.	1.	45.	3.	3.	4.	2268.40
.09	2.16	7.00	3.26	.045	.045	.045	.000	2266.30	9975.81
.023108	440.	420.	450.	10	8	0	.00	37.36	10013.17

*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	2.24	2286.74	2286.74	.00	2287.43	.69	13.46	.00	2284.90
330.	47.	277.	6.	10.	40.	2.	4.	4.	2286.20
.12	4.73	6.99	3.05	.045	.045	.045	.000	2284.50	9989.08
.023412	570.	580.	560.	5	19	0	.00	39.30	10028.38

*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

480.000	3.65	2298.55	2298.55	.00	2299.10	.55	6.39	.01	2294.90
330.	109.	194.	26.	16.	35.	8.	4.	5.	2297.60
.13	6.88	5.63	3.19	.040	.040	.040	.000	2294.90	9988.89
.017124	320.	320.	340.	11	15	0	.00	54.69	10043.58

*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

570.000	2.39	2311.08	2311.08	.00	2311.76	.68	9.12	.04	2310.90
330.	0.	330.	0.	0.	50.	0.	5.	5.	2310.70
.15	.05	6.61	1.71	.040	.040	.040	.000	2308.70	9986.36
1328	470.	480.	490.	10	14	0	.00	38.34	10024.70

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

670.000	2.99	2328.99	2328.99	.00	2329.76	.77	9.91	.03	2331.30
330.	0.	330.	0.	0.	47.	0.	5.	6.	2330.60
.18	.00	7.05	.00	.000	.035	.000	.000	2326.00	9986.29
.016518	530.	530.	530.	10	11	0	.00	31.32	10017.61

*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

780.000	2.39	2350.09	2350.09	.00	2350.75	.67	9.70	.01	2352.40
330.	0.	330.	0.	0.	50.	0.	6.	6.	2350.00
.20	.00	6.56	.04	.000	.035	.045	.000	2347.70	9984.73
.016923	570.	580.	570.	9	15	0	.00	40.06	10024.79

*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

880.000	3.02	2365.02	2365.02	.00	2365.83	.81	8.80	.04	2367.60
330.	0.	330.	0.	0.	46.	0.	7.	7.	2366.90
.22	.00	7.21	.00	.000	.035	.000	.000	2362.00	9987.25
.016276	510.	530.	510.	10	11	0	.00	29.07	10016.32

*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

990.000	2.36	2385.16	2385.16	.00	2385.85	.69	9.34	.01	2385.30
330.	0.	318.	12.	0.	47.	3.	7.	7.	2383.50
.24	.00	6.75	3.50	.000	.035	.045	.000	2382.80	9976.40
.015912	570.	580.	590.	3	15	0	.00	37.34	10013.75

*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1070.000	1.44	2401.74	2401.74	.00	2402.25	.51	6.55	.02	2400.50
330.	34.	286.	10.	11.	47.	4.	8.	8.	2400.90
.27	2.97	6.07	2.29	.045	.035	.045	.000	2400.30	9966.57
.015307	420.	420.	410.	6	14	0	.00	66.50	10033.07

THIS RUN EXECUTED 2/26/90 16:16:39

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -

****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH, TRIB. 2

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1830.000	2215.95	145.00	.95	.00	4.41	.00	.00	145.00	.00	39.46	199.87	.00
	1830.000	2216.19	222.00	1.19	.04	5.20	.91	.00	221.50	.49	46.18	199.77	.00
	1830.000	2216.29	260.00	1.29	1.16	5.53	1.22	.12	258.31	1.57	49.53	199.71	.00
	1830.000	2216.46	330.00	1.46	1.57	6.08	1.65	.41	324.39	5.20	54.89	202.75	.00
*	70.000	2233.56	145.00	1.86	.05	5.43	.00	.01	144.99	.00	30.50	237.65	17.62
*	70.000	2233.94	222.00	2.24	1.71	5.60	1.02	2.86	217.28	1.86	55.60	194.26	17.75
*	70.000	2234.09	260.00	2.39	1.84	5.67	1.32	5.27	248.56	6.17	68.47	174.31	17.80
*	70.000	2234.32	330.00	2.62	2.01	5.73	1.69	11.35	298.64	20.01	87.91	148.90	17.86
	150.000	2243.73	145.00	1.83	.00	5.49	.00	.00	145.00	.00	55.75	247.26	10.17
*	150.000	2244.20	222.00	2.30	.00	4.64	.03	.00	221.17	.83	148.47	252.43	10.25
*	150.000	2244.24	260.00	2.34	.00	5.08	.05	.00	258.46	1.54	156.81	279.29	10.15
*	150.000	2244.43	330.00	2.53	.00	5.09	.11	.00	323.91	6.09	189.86	212.51	10.11
*	230.000	2255.40	145.00	2.20	.00	6.14	.00	.00	145.00	.00	20.65	299.16	11.66
*	230.000	2255.83	222.00	2.63	.00	6.63	.00	.00	222.00	.00	24.57	276.21	11.64
*	230.000	2256.00	260.00	2.80	.00	6.90	.00	.00	260.00	.00	26.05	276.80	11.76
*	230.000	2256.30	330.00	3.10	.05	7.20	.00	.01	329.99	.00	30.80	263.70	11.87
*	310.000	2268.72	145.00	2.42	.00	5.71	1.66	.00	144.60	.40	26.38	299.61	13.32
*	310.000	2269.06	222.00	2.76	1.03	6.36	2.59	.13	219.16	2.71	31.75	275.52	13.23
*	310.000	2269.21	260.00	2.91	1.53	6.61	2.87	.69	254.81	4.50	33.82	257.38	13.21
*	310.000	2269.47	330.00	3.17	2.16	7.00	3.26	3.20	317.97	8.83	37.36	231.08	13.17
*	420.000	2286.05	145.00	1.55	3.85	5.63	.00	15.17	129.83	.00	29.73	289.65	17.33
*	420.000	2286.38	222.00	1.88	4.32	6.26	1.84	27.99	192.96	1.05	35.86	261.69	17.31
*	420.000	2286.51	260.00	2.01	4.48	6.54	2.38	34.57	223.06	2.37	37.15	249.24	17.30
*	420.000	2286.74	330.00	2.24	4.73	6.99	3.05	47.49	276.86	5.64	39.30	234.12	17.27
*	480.000	2297.58	145.00	2.68	6.03	6.97	.00	51.73	93.27	.00	14.58	198.79	11.53
*	480.000	2298.22	222.00	3.32	6.77	4.84	2.57	89.16	124.41	8.43	46.50	187.73	11.85
*	480.000	2298.39	260.00	3.49	6.50	5.00	2.77	94.24	150.68	15.09	50.58	162.64	11.87
*	480.000	2298.55	330.00	3.65	6.88	5.63	3.19	109.29	194.45	26.26	54.69	171.24	11.81

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	570.000	2310.46	145.00	1.76	.00	5.27	.00	.00	145.00	.00	33.11	261.15	12.88
*	570.000	2310.75	222.00	2.05	.00	5.90	.06	.00	222.00	.00	36.24	242.60	12.53
*	570.000	2310.88	260.00	2.18	.00	6.15	.06	.00	260.00	.00	37.11	230.43	12.49
*	570.000	2311.08	330.00	2.39	.05	6.61	1.71	.00	329.70	.29	38.34	213.28	12.54
*	670.000	2328.15	145.00	2.15	.00	5.98	.00	.00	145.00	.00	22.54	184.34	17.69
*	670.000	2328.55	222.00	2.55	.00	6.50	.00	.00	222.00	.00	26.75	173.47	17.80
*	670.000	2328.72	260.00	2.72	.00	6.71	.00	.00	260.00	.00	28.49	169.87	17.84
*	670.000	2328.99	330.00	2.99	.00	7.05	.00	.00	330.00	.00	31.32	165.18	17.90
*	780.000	2349.38	145.00	1.68	.00	5.52	.00	.00	145.00	.00	28.56	190.87	21.23
*	780.000	2349.72	222.00	2.02	.00	6.01	.00	.00	222.00	.00	33.77	180.25	21.17
*	780.000	2349.86	260.00	2.16	.00	6.19	.00	.00	260.00	.00	36.00	175.11	21.15
*	780.000	2350.09	330.00	2.39	.00	6.56	.04	.00	330.00	.00	40.06	169.23	21.10
*	880.000	2364.14	145.00	2.14	.00	6.09	.00	.00	145.00	.00	21.17	181.83	14.77
*	880.000	2364.56	222.00	2.56	.00	6.65	.00	.00	222.00	.00	24.93	171.52	14.84
*	880.000	2364.73	260.00	2.73	.00	6.87	.00	.00	260.00	.00	26.49	168.25	14.87
*	880.000	2365.02	330.00	3.02	.00	7.21	.00	.00	330.00	.00	29.07	162.76	14.93
*	990.000	2384.42	145.00	1.62	.00	5.62	2.52	.00	142.34	2.66	28.09	181.08	20.28
*	990.000	2384.77	222.00	1.97	.00	6.20	3.02	.00	215.94	6.05	32.43	169.61	20.21
*	990.000	2384.91	260.00	2.11	.00	6.43	3.22	.00	251.99	8.01	34.24	166.57	20.18
*	990.000	2385.16	330.00	2.36	.00	6.75	3.50	.00	317.94	12.05	37.34	159.12	20.14
*	1070.000	2401.25	145.00	.95	2.31	4.74	1.38	9.50	134.49	1.01	53.13	183.48	16.83
*	1070.000	2401.47	222.00	1.17	2.64	5.40	1.85	18.44	199.84	3.71	59.26	167.39	16.71
*	1070.000	2401.57	260.00	1.27	2.77	5.67	2.03	23.49	230.93	5.59	61.93	162.03	16.66
*	1070.000	2401.74	330.00	1.44	2.97	6.07	2.29	33.75	286.37	9.88	66.50	153.07	16.58

LLO WASH, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1830.000	.00	.00	.00	2215.00	145.00	2215.95	.00	2216.25	199.87	4.41	32.86	10.26
	1830.000	.00	.00	.00	2215.00	222.00	2216.19	.00	2216.61	199.77	5.20	43.20	15.71
	1830.000	.00	.00	.00	2215.00	260.00	2216.29	2216.24	2216.76	199.71	5.53	48.13	18.40
	1830.000	.00	.00	.00	2215.00	330.00	2216.46	2216.44	2217.02	202.75	6.08	56.74	23.18
*	70.000	740.00	.00	.00	2231.70	145.00	2233.56	2233.56	2234.02	237.65	5.43	26.86	9.41
*	70.000	740.00	.00	.00	2231.70	222.00	2233.94	2233.94	2234.42	194.26	5.60	42.27	15.93
*	70.000	740.00	.00	.00	2231.70	260.00	2234.09	2234.09	2234.57	174.31	5.67	51.37	19.69
*	70.000	740.00	.00	.00	2231.70	330.00	2234.32	2234.32	2234.79	148.90	5.73	69.58	27.04
	150.000	420.00	.00	.00	2241.90	145.00	2243.73	2243.73	2244.20	247.26	5.49	35.03	9.22
*	150.000	420.00	.00	.00	2241.90	222.00	2244.20	2244.20	2244.53	252.43	4.64	77.70	13.97
*	150.000	420.00	.00	.00	2241.90	260.00	2244.24	2244.24	2244.64	279.29	5.08	84.86	15.56
*	150.000	420.00	.00	.00	2241.90	330.00	2244.43	2244.43	2244.82	212.51	5.09	117.02	22.64
*	230.000	420.00	.00	.00	2253.20	145.00	2255.40	2255.40	2255.98	299.16	6.14	23.61	8.38
*	230.000	420.00	.00	.00	2253.20	222.00	2255.83	2255.83	2256.52	276.21	6.63	33.48	13.36
*	230.000	420.00	.00	.00	2253.20	260.00	2256.00	2256.00	2256.74	276.80	6.90	37.66	15.63
	230.000	420.00	.00	.00	2253.20	330.00	2256.30	2256.30	2257.10	263.70	7.20	45.95	20.32
*	310.000	420.00	.00	.00	2266.30	145.00	2268.72	2268.72	2269.22	299.61	5.71	25.57	8.38
*	310.000	420.00	.00	.00	2266.30	222.00	2269.06	2269.06	2269.69	275.52	6.36	35.65	13.37
*	310.000	420.00	.00	.00	2266.30	260.00	2269.21	2269.21	2269.88	257.38	6.61	40.54	16.21
*	310.000	420.00	.00	.00	2266.30	330.00	2269.47	2269.47	2270.21	231.08	7.00	49.63	21.71
*	420.000	580.00	.00	.00	2284.50	145.00	2286.05	2286.05	2286.52	289.65	5.63	26.99	8.52
*	420.000	580.00	.00	.00	2284.50	222.00	2286.38	2286.38	2286.94	261.69	6.26	37.87	13.72
*	420.000	580.00	.00	.00	2284.50	260.00	2286.51	2286.51	2287.12	249.24	6.54	42.84	16.47
*	420.000	580.00	.00	.00	2284.50	330.00	2286.74	2286.74	2287.43	234.12	6.99	51.47	21.57
*	480.000	320.00	.00	.00	2294.90	145.00	2297.58	2297.58	2298.27	198.79	6.97	21.95	10.28
*	480.000	320.00	.00	.00	2294.90	222.00	2298.22	2298.22	2298.72	187.73	4.84	42.16	16.20
*	480.000	320.00	.00	.00	2294.90	260.00	2298.39	2298.39	2298.86	162.64	5.00	50.04	20.39
*	480.000	320.00	.00	.00	2294.90	330.00	2298.55	2298.55	2299.10	171.24	5.63	58.66	25.22
*	570.000	480.00	.00	.00	2308.70	145.00	2310.46	2310.46	2310.89	261.15	5.27	27.50	8.97
*	570.000	480.00	.00	.00	2308.70	222.00	2310.75	2310.75	2311.29	242.60	5.90	37.60	14.25
*	570.000	480.00	.00	.00	2308.70	260.00	2310.88	2310.88	2311.46	230.43	6.15	42.28	17.13
*	570.000	480.00	.00	.00	2308.70	330.00	2311.08	2311.08	2311.76	213.28	6.61	50.15	22.60
*	670.000	530.00	.00	.00	2326.00	145.00	2328.15	2328.15	2328.71	184.34	5.98	24.25	10.68
*	670.000	530.00	.00	.00	2326.00	222.00	2328.55	2328.55	2329.21	173.47	6.50	34.15	16.86
*	670.000	530.00	.00	.00	2326.00	260.00	2328.72	2328.72	2329.42	169.87	6.71	38.75	19.95
*	670.000	530.00	.00	.00	2326.00	330.00	2328.99	2328.99	2329.76	165.18	7.05	46.82	25.68

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	780.000	580.00	.00	.00	2347.70	145.00	2349.38	2349.38	2349.85	190.87	5.52	26.28	10.50
*	780.000	580.00	.00	.00	2347.70	222.00	2349.72	2349.72	2350.28	180.25	6.01	36.92	16.54
*	780.000	580.00	.00	.00	2347.70	260.00	2349.86	2349.86	2350.46	175.11	6.19	42.00	19.65
*	780.000	580.00	.00	.00	2347.70	330.00	2350.09	2350.09	2350.75	169.23	6.56	50.35	25.37
*	880.000	530.00	.00	.00	2362.00	145.00	2364.14	2364.14	2364.72	181.83	6.09	23.80	10.75
*	880.000	530.00	.00	.00	2362.00	222.00	2364.56	2364.56	2365.25	171.52	6.65	33.39	16.95
*	880.000	530.00	.00	.00	2362.00	260.00	2364.73	2364.73	2365.47	168.25	6.87	37.83	20.04
*	880.000	530.00	.00	.00	2362.00	330.00	2365.02	2365.02	2365.83	162.76	7.21	45.76	25.87
*	990.000	580.00	.00	.00	2382.80	145.00	2384.42	2384.42	2384.90	181.08	5.62	26.36	10.78
*	990.000	580.00	.00	.00	2382.80	222.00	2384.77	2384.77	2385.35	169.61	6.20	36.86	17.05
*	990.000	580.00	.00	.00	2382.80	260.00	2384.91	2384.91	2385.54	166.57	6.43	41.69	20.15
*	990.000	580.00	.00	.00	2382.80	330.00	2385.16	2385.16	2385.85	159.12	6.75	50.57	26.16
*	1070.000	420.00	.00	.00	2400.30	145.00	2401.25	2401.25	2401.57	183.48	4.74	33.21	10.70
*	1070.000	420.00	.00	.00	2400.30	222.00	2401.47	2401.47	2401.89	167.39	5.40	45.98	17.16
*	1070.000	420.00	.00	.00	2400.30	260.00	2401.57	2401.57	2402.03	162.03	5.67	51.97	20.43
*	1070.000	420.00	.00	.00	2400.30	330.00	2401.74	2401.74	2402.25	153.07	6.07	62.84	26.67

_LO WASH, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1830.000	145.00	2215.95	.00	.00	.06	39.46	.00
	1830.000	222.00	2216.19	.24	.00	.07	46.18	.00
	1830.000	260.00	2216.29	.10	.00	.05	49.53	.00
	1830.000	330.00	2216.46	.17	.00	.02	54.89	.00
*	70.000	145.00	2233.56	.00	17.62	.00	30.50	740.00
*	70.000	222.00	2233.94	.38	17.75	.00	55.60	740.00
*	70.000	260.00	2234.09	.15	17.80	.00	68.47	740.00
*	70.000	330.00	2234.32	.23	17.86	.00	87.91	740.00
	150.000	145.00	2243.73	.00	10.17	.00	55.75	420.00
*	150.000	222.00	2244.20	.46	10.25	.00	148.47	420.00
*	150.000	260.00	2244.24	.05	10.15	.00	156.81	420.00
*	150.000	330.00	2244.43	.19	10.11	.00	189.86	420.00
*	230.000	145.00	2255.40	.00	11.66	.00	20.65	420.00
*	230.000	222.00	2255.83	.44	11.64	.00	24.57	420.00
*	230.000	260.00	2256.00	.17	11.76	.00	26.05	420.00
	230.000	330.00	2256.30	.30	11.87	.00	30.80	420.00
*	310.000	145.00	2268.72	.00	13.32	.00	26.38	420.00
*	310.000	222.00	2269.06	.35	13.23	.00	31.75	420.00
*	310.000	260.00	2269.21	.15	13.21	.00	33.82	420.00
*	310.000	330.00	2269.47	.26	13.17	.00	37.36	420.00
*	420.000	145.00	2286.05	.00	17.33	.00	29.73	580.00
*	420.000	222.00	2286.38	.33	17.31	.00	35.86	580.00
*	420.000	260.00	2286.51	.14	17.30	.00	37.15	580.00
*	420.000	330.00	2286.74	.23	17.27	.00	39.30	580.00
*	480.000	145.00	2297.58	.00	11.53	.00	14.58	320.00
*	480.000	222.00	2298.22	.64	11.85	.00	46.50	320.00
*	480.000	260.00	2298.39	.16	11.87	.00	50.58	320.00
*	480.000	330.00	2298.55	.16	11.81	.00	54.69	320.00
*	570.000	145.00	2310.46	.00	12.88	.00	33.11	480.00
*	570.000	222.00	2310.75	.29	12.53	.00	36.24	480.00
*	570.000	260.00	2310.88	.13	12.49	.00	37.11	480.00
*	570.000	330.00	2311.08	.21	12.54	.00	38.34	480.00
*	670.000	145.00	2328.15	.00	17.69	.00	22.54	530.00
*	670.000	222.00	2328.55	.40	17.80	.00	26.75	530.00
*	670.000	260.00	2328.72	.17	17.84	.00	28.49	530.00
*	670.000	330.00	2328.99	.27	17.90	.00	31.32	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	780.000	145.00	2349.38	.00	21.23	.00	28.56	580.00
*	780.000	222.00	2349.72	.34	21.17	.00	33.77	580.00
*	780.000	260.00	2349.86	.15	21.15	.00	36.00	580.00
*	780.000	330.00	2350.09	.22	21.10	.00	40.06	580.00
*	880.000	145.00	2364.14	.00	14.77	.00	21.17	530.00
*	880.000	222.00	2364.56	.42	14.84	.00	24.93	530.00
*	880.000	260.00	2364.73	.17	14.87	.00	26.49	530.00
*	880.000	330.00	2365.02	.29	14.93	.00	29.07	530.00
*	990.000	145.00	2384.42	.00	20.28	.00	28.09	580.00
*	990.000	222.00	2384.77	.35	20.21	.00	32.43	580.00
*	990.000	260.00	2384.91	.14	20.18	.00	34.24	580.00
*	990.000	330.00	2385.16	.25	20.14	.00	37.34	580.00
*	1070.000	145.00	2401.25	.00	16.83	.00	53.13	420.00
*	1070.000	222.00	2401.47	.23	16.71	.00	59.26	420.00
*	1070.000	260.00	2401.57	.10	16.66	.00	61.93	420.00
*	1070.000	330.00	2401.74	.17	16.58	.00	66.50	420.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     70.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=    150.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    480.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    480.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   1070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1070.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

Stop - Program terminated.

Stop - Program terminated.
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1*****************************************************
 *  WATER SURFACE PROFILES                           *
 *  VERSION OF SEPTEMBER 1988                        *
 *  ERROR: 01,02,03                                  *
 *  UPDATED:  SEPTEMBER 1989                         *
 *  RUN DATE     3/13/90   TIME   19:35:35           *
 *****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  THE HYDROLOGIC ENGINEERING CENTER *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

1

3/13/90 19:35:35 PAGE 1

THIS RUN EXECUTED 3/13/90 19:35:35

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*********************************************
.2 RELEASE DATED SEP 88 UPDATED SEPT 1989
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ERROR CORR - 01,02,03
MODIFICATION -

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**************************************************
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T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 100-YR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3 OCOTILLO TRIB. 2 (OCT2.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2							2216.29	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1		-1							

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	26	8	42	39	1	34	4	53
21	22	54	0	38	43	1	50	51	27
21	22	28	5	3	61	200			

J5 LPRNT NUMSEC ********REQUESTED SECTION NUMBERS********

-10 -10

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QT        2       260       260
NC     .048      .048      .042        .1        .3
                            4.1    9979.3   10028.8
          THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
          NATURAL CONDITIONS.  REFER TO FILE OCT2.OUT (CH2M HILL, 1990)
          FLOODWAY LIMITS SET TO 100 YEAR FLOOD PLAIN BOUNDARY
X1     1830        15      9980     10020
GR   2240.0      9740    2236.0      9780    2232.0      9820    2228.0      9960    2220.0      9970
GR   2216.0      9980    2215.0      9985    2215.0     10015    2216.0     10020    2220.0     10140
GR   2224.0     10290    2228.0     10310    2229.0     10350    2229.0     10450    2230.0     10470

NC     .05       .05       .04        .1        .3
ET                          4.1    9927.6   10032.5
X1       70        22    9963.7   10000.0       720       760       740
GR   2241.5    9822.3    2249.1      9855.5    2246.3    9865.3    2245.2    9889.8    2237.4    9905.9
GR   2233.4    9932.1    2235.2      9940.5    2235.6    9947.0    2233.9    9963.7    2231.7    9985.2
GR   2234.1    9998.7    2234.3     10000.0    2233.7   10024.7    2235.1   10052.6    2236.7   10088.8
GR   2238.6   10114.5    2237.9     10150.4    2240.9   10180.3    2241.7   10204.1    2242.6   10223.7
GR   2247.0   10261.1    2247.0     10282.2
1
     3/13/90     19:35:35                                                                          PAGE     2


NH        4      .05    9852.2        .04    9923.6       .05    9957.8       999   10175.7
ET                          4.1    9855.2   10102.0
X1      150        14    9852.2      9923.6       400       360       420
GR   2258.2    9772.3    2257.1      9797.4    2246.4    9829.8    2244.7    9852.2    2241.9    9870.6
     2244.0    9889.6    2244.0      9923.6    2244.8    9957.8    2243.9   10000.0    2244.8   10035.6
     2243.1   10090.7    2245.8     10117.5    2252.1   10150.0    2253.2   10175.7

NC     .045      .045      .045
ET                          4.1    9982.5   10008.5
X1      230        14    9978.9     10014.0       410       440       420
GR   2270.4    9853.6    2262.2      9915.7    2256.2    9939.3    2257.4    9959.6    2256.6    9978.9
GR   2253.4    9997.9    2253.2     10000.0    2257.8   10014.0    2259.3   10016.5    2265.9   10039.5
GR   2269.0   10058.0    2270.0     10065.4    2273.6   10132.2    2274.1   10138.8

ET                          4.1    9978.1   10012.0
X1      310        12    9981.0     10008.1       440       450       420
GR   2281.4    9895.5    2282.4      9927.5    2276.4    9945.4    2270.5    9966.4    2268.9    9981.0
GR   2267.8    9994.6    2266.3     10000.0    2268.4   10008.1    2271.5   10022.8    2276.9   10065.7
GR   2283.8   10101.7    2285.6     10130.5

ET                          4.1    9990.4   10027.6
X1      420        15   10000.0     10024.2       570       560       580
GR   2302.0    9907.0    2299.8      9928.2    2292.7    9949.8    2291.3    9958.0    2288.1    9981.0
GR   2284.9   10000.0    2284.5     10009.2    2286.2   10024.2    2286.1   10026.1    2291.1   10044.0
GR   2296.2   10070.0    2299.6     10098.6    2300.5   10128.2    2301.5   10187.1    2301.6   10215.3

NC      .04       .04       .04
ET                          4.1    9989.3   10039.9
X1      480        11    9997.6     10024.7       320       340       320
GR   2311.5    9855.4    2309.4      9966.2    2308.2    9973.0    2300.6    9984.0    2294.9    9997.6
     2295.1   10000.0    2298.1     10007.0    2297.6   10024.7    2298.0   10031.1    2298.7   10047.0
GR   2312.0   10170.0

ET                          4.1    9987.1   10024.2
X1      570        23    9987.0     10023.8       470       490       480
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GR   2322.4    9620.1    2321.8    9722.5    2320.0    9742.4    2321.5    9774.2    2321.4    9893.2
GR   2321.1    9921.8    2318.2    9950.5    2314.9    9973.1    2310.9    9987.0    2308.7    9996.8
GR   2309.3   10000.0    2310.0   10018.8    2310.7   10023.8    2315.3   10034.5    2317.5   10055.2
     2321.3   10082.6    2322.2   10113.3    2321.1   10156.8    2321.6   10193.4    2321.0   10232.9
     2321.6   10262.5    2322.1   10289.0    2323.1   10301.9

NC    .045      .045      .035
ET                        4.1    9987.5   10016.0
X1     670         9    9975.7   10027.1     530       530       530
GR   2338.1    9840.9    2337.9    9907.2    2332.6    9971.8    2331.3    9975.7    2326.0   10000.0
GR   2330.6   10027.1    2334.6   10071.6    2337.7   10115.6    2337.1   10182.2

ET                        4.1    9985.8   10021.8
X1     780        12    9973.8   10023.2     570       570       580
GR   2355.5    9805.3    2355.4    9889.3    2355.8    9945.3    2354.6    9968.9    2352.4    9973.8
GR   2347.7    9996.0    2347.8   10000.0    2350.0   10023.2    2351.2   10045.6    2355.2   10068.1
GR   2356.6   10085.1    2357.3   10117.7
1
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ET                        4.1    9989.0   10015.5
X1     880        10    9971.7   10022.0     510       510       530
GR   2373.8    9713.0    2373.5    9764.2    2373.1    9864.9    2369.9    9946.7    2367.6    9971.7
GR   2362.9   10000.0    2362.0   10007.2    2366.9   10022.0    2369.7   10051.7    2370.0   10083.0

ET                        4.1    9978.9   10013.1
X1     990        17    9975.0   10009.6     570       590       580
     2395.9    9650.5    2394.9    9703.5    2392.2    9737.9    2390.9    9754.6    2391.3    9776.6
     2391.3    9834.2    2390.7    9889.4    2388.5    9941.7    2387.8    9955.7    2385.3    9975.0
GR   2382.8   10000.0    2383.5   10009.6    2386.5   10017.1    2389.6   10049.5    2391.6   10102.5
GR   2390.8   10129.6    2390.9   10132.9

ET                        4.1    9969.1   10031.0
X1    1070        16    9984.9   10022.8     420       410       420
GR   2405.1    9803.3    2406.5    9862.9    2404.1    9896.0    2403.1    9946.5    2400.5    9984.9
GR   2400.6    9987.0    2400.4   10000.0    2400.3   10010.0    2400.9   10022.8    2402.8   10046.0
GR   2402.8   10059.3    2402.8   10074.5    2404.1   10135.6    2404.3   10176.5    2405.7   10225.8
GR   2407.9   10261.8
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T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2        100-YR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3        OCOTILLO TRIB. 2       (OCT2.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                         2217.29

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -

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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	1830.000	260.00	5.54	1.29	2215.00	.00	2216.29	18.31	49.43	9979.28	9980.00	10020.00	10028.70
	1830.000	260.00	2.82	2.29	2215.00	.00	2217.29	54.43	49.50	9979.30	9980.00	10020.00	10028.80
*	70.000	260.00	5.66	2.39	2231.70	740.00	2234.09	19.73	68.60	9927.56	9963.70	10000.00	10032.52
*	70.000	260.00	5.61	2.40	2231.70	740.00	2234.10	19.99	69.09	9927.60	9963.70	10000.00	10032.50
	150.000	260.00	5.09	2.34	2241.90	420.00	2244.24	15.51	156.55	9855.21	9852.20	9923.60	10102.03
*	150.000	260.00	4.83	2.38	2241.90	420.00	2244.28	16.93	162.89	9855.20	9852.20	9923.60	10102.00
*	230.000	260.00	6.90	2.80	2253.20	420.00	2256.00	15.63	26.05	9982.47	9978.90	10014.00	10008.52
*	230.000	260.00	6.95	2.79	2253.20	420.00	2255.99	15.50	25.97	9982.52	9978.90	10014.00	10008.49
*	310.000	260.00	6.61	2.91	2266.30	420.00	2269.21	16.21	33.82	9978.14	9981.00	10008.10	10011.96
*	310.000	260.00	6.56	2.92	2266.30	420.00	2269.22	16.42	33.90	9978.10	9981.00	10008.10	10012.00
*	420.000	260.00	6.54	2.01	2284.50	580.00	2286.51	16.47	37.15	9990.42	10000.00	10024.20	10027.58
*	420.000	260.00	6.44	2.03	2284.50	580.00	2286.53	16.84	37.20	9990.40	10000.00	10024.20	10027.60
*	480.000	260.00	5.00	3.49	2294.90	320.00	2298.39	20.39	50.58	9989.28	9997.60	10024.70	10039.86
*	480.000	260.00	4.99	3.49	2294.90	320.00	2298.39	20.46	50.60	9989.30	9997.60	10024.70	10039.90
*	570.000	260.00	6.15	2.18	2308.70	480.00	2310.88	17.13	37.11	9987.10	9987.00	10023.80	10024.21
*	570.000	260.00	6.19	2.17	2308.70	480.00	2310.87	16.96	37.06	9987.14	9987.00	10023.80	10024.19
*	670.000	260.00	6.71	2.72	2326.00	530.00	2328.72	19.95	28.49	9987.53	9975.70	10027.10	10016.02
*	670.000	260.00	6.74	2.71	2326.00	530.00	2328.71	19.84	28.43	9987.55	9975.70	10027.10	10015.99
*	780.000	260.00	6.19	2.16	2347.70	580.00	2349.86	19.65	36.00	9985.77	9973.80	10023.20	10021.77
*	780.000	260.00	6.22	2.16	2347.70	580.00	2349.86	19.50	35.90	9985.81	9973.80	10023.20	10021.70
*	880.000	260.00	6.87	2.73	2362.00	530.00	2364.73	20.04	26.49	9988.96	9971.70	10022.00	10015.46
	880.000	260.00	6.90	2.73	2362.00	530.00	2364.73	19.94	26.44	9989.00	9971.70	10022.00	10015.44

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	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	990.000	260.00	6.43	2.11	2382.80	580.00	2384.91	20.15	34.24	9978.89	9975.00	10009.60	10013.13
	990.000	260.00	6.44	2.11	2382.80	580.00	2384.91	20.10	34.19	9978.91	9975.00	10009.60	10013.10
*	1070.000	260.00	5.67	1.27	2400.30	420.00	2401.57	20.43	61.93	9969.07	9984.90	10022.80	10031.00
*	1070.000	260.00	5.53	1.29	2400.30	420.00	2401.59	21.24	61.90	9969.10	9984.90	10022.80	10031.00

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OCOTILLO TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	1830.000	260.00	2216.29	.00	.00	.00	9980.00	10020.00	.00	201.59	2216.76	.00
	1830.000	260.00	2217.29	1.00	.00	9979.30	9980.00	10020.00	10028.80	22.82	2217.41	.64
*	70.000	260.00	2234.09	.00	17.80	.00	9963.70	10000.00	.00	173.59	2234.57	.00
*	70.000	260.00	2234.10	.01	16.81	9927.60	9963.70	10000.00	10032.50	169.14	2234.57	.00
*	150.000	260.00	2244.24	.00	10.15	.00	9852.20	9923.60	.00	281.12	2244.64	.00
*	150.000	260.00	2244.28	.04	10.18	9855.20	9852.20	9923.60	10102.00	235.90	2244.64	-.00
	230.000	260.00	2256.00	.00	11.76	.00	9978.90	10014.00	.00	276.80	2256.74	.00
	230.000	260.00	2255.99	-.01	11.71	9982.50	9978.90	10014.00	10008.50	281.38	2256.74	.00
*	310.000	260.00	2269.21	.00	13.21	.00	9981.00	10008.10	.00	257.38	2269.88	.00
*	310.000	260.00	2269.22	.01	13.23	9978.10	9981.00	10008.10	10012.00	250.83	2269.88	.00
*	420.000	260.00	2286.51	.00	17.30	.00	10000.00	10024.20	.00	249.24	2287.12	.00
*	420.000	260.00	2286.53	.02	17.31	9990.40	10000.00	10024.20	10027.60	238.34	2287.12	.00
*	480.000	260.00	2298.39	.00	11.87	.00	9997.60	10024.70	.00	162.64	2298.86	.00
*	480.000	260.00	2298.39	.00	11.86	9989.30	9997.60	10024.70	10039.90	161.43	2298.86	.00
*	570.000	260.00	2310.88	.00	12.49	.00	9987.00	10023.80	.00	230.43	2311.46	.00
*	570.000	260.00	2310.87	-.01	12.48	9987.10	9987.00	10023.80	10024.20	234.94	2311.46	.00
*	670.000	260.00	2328.72	.00	17.84	.00	9975.70	10027.10	.00	169.87	2329.42	.00
*	670.000	260.00	2328.71	-.01	17.84	9987.50	9975.70	10027.10	10016.00	171.69	2329.42	.00
*	780.000	260.00	2349.86	.00	21.15	.00	9973.80	10023.20	.00	175.11	2350.46	.00
*	780.000	260.00	2349.86	-.01	21.14	9985.80	9973.80	10023.20	10021.80	177.78	2350.46	.00
*	880.000	260.00	2364.73	.00	14.87	.00	9971.70	10022.00	.00	168.25	2365.47	.00
*	880.000	260.00	2364.73	-.01	14.87	9989.00	9971.70	10022.00	10015.50	169.94	2365.47	.00
*	990.000	260.00	2384.91	.00	20.18	.00	9975.00	10009.60	.00	166.57	2385.54	.00
*	990.000	260.00	2384.91	-.00	20.18	9978.90	9975.00	10009.60	10013.10	167.36	2385.54	.00
*	1070.000	260.00	2401.57	.00	16.66	.00	9984.90	10022.80	.00	162.03	2402.03	.00
*	1070.000	260.00	2401.59	.02	16.69	9969.10	9984.90	10022.80	10031.00	149.82	2402.03	-.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    150.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    230.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

 ON SECNO=    420.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
 ON SECNO=    420.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    480.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    480.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    480.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    480.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    670.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

 ON SECNO=    880.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    880.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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 ON SECNO=    990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

1

FLOODWAY DATA, OCOTILLO TRIB. 2
PROFILE NO. 2

STATION	------- FLOODWAY ------- WIDTH	SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1830.000	49.	97.	2.7	2217.3	2216.3	1.0
70.000	105.	52.	5.0	2234.1	2234.1	.0
0.000	247.	91.	2.9	2244.3	2244.2	.1
230.000	26.	37.	6.9	2256.0	2256.0	.0
310.000	34.	41.	6.4	2269.2	2269.2	.0
420.000	37.	43.	6.0	2286.5	2286.5	.0
480.000	51.	50.	5.2	2298.4	2298.4	.0
570.000	37.	42.	6.2	2310.9	2310.9	.0
670.000	28.	39.	6.7	2328.7	2328.7	.0
780.000	36.	42.	6.2	2349.9	2349.9	.0
880.000	26.	38.	6.9	2364.7	2364.7	.0
990.000	34.	42.	6.2	2384.9	2384.9	.0
1070.000	62.	53.	4.9	2401.6	2401.6	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/ 2/90   TIME   23:19: 6           *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
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```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 4/ 2/90 23:19: 7

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB.3    (OCT3.DAT)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                           .030                                  2163.08

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38         1         43         8         55         26         56         13         14         15
     4         5         51
    50

QT       4       164       252       296       375
NC    .055      .055      .055        .1        .3

         *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
         COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
         SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
         SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
         QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
         AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
         SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
X1    1360        24    9950.0   10020.0
GR  2184.0    9870.0    2180.0    9885.0    2172.0    9900.0    2168.0    9905.0    2164.0    9910.0
GR  2163.0    9915.0    2164.0    9925.0    2164.0    9950.0    2163.0    9960.0    2163.0   10015.0
GR  2164.0   10020.0    2164.0   10180.0    2162.0   10200.0    2162.0   10220.0    2164.0   10260.0
GR  2168.0   10370.0    2176.0   10400.0    2177.0   10430.0    2176.0   10460.0    2172.0   10490.0
GR  2172.0   10510.0    2176.0   10520.0    2180.0   10560.0    2182.0   10580.0


X1      70        15    9945.2   10024.4       380       360       370
GR  2190.0    9853.7    2191.2    9869.5    2184.4    9897.0    2175.4    9927.6    2172.5    9945.2
GR  2173.0    9969.9    2173.0    9974.0    2173.4    9990.3    2173.1   10000.0    2173.5   10024.4
GR  2175.6   10035.2    2184.3   10077.2    2187.7   10102.7    2189.0   10133.0    2188.6   10133.5
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X1     160       16     9974.1   10014.9      490      470      480
GR  2197.2   9837.7     2193.7    9865.3   2192.5   9901.1   2185.8   9915.8   2184.8   9930.7
GR  2182.4   9974.1     2180.2    9996.3   2181.0  10000.0   2184.2  10014.9   2185.1  10022.0
GR  2185.8  10043.9     2188.4   10070.6   2195.1  10108.7   2199.7  10145.7   2201.2  10184.1
GR  2200.6  10200.0

NC    .055     .055       .055       .3       .5
X1     240       15    10000.0   10039.5      450      450      450              -4.5
GR  2213.0   9864.9     2209.8    9881.7   2199.7   9916.1   2196.4   9938.2   2194.6   9969.9
GR  2192.3  10000.0     2191.9   10039.5   2195.5  10047.4   2202.9  10057.5   2206.5  10077.0
GR  2207.4  10101.8     2208.7   10118.0   2209.5  10131.7   2200.6  10161.3   2194.7  10180.8

        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
X1     260       14    10021.3   10024.3       80       80       80
GR  2212.8   9790.9     2213.2    9818.9   2210.4   9853.6   2203.2   9885.5   2200.4   9913.0
GR  2196.1   9964.0     2193.9   10021.3   2193.9  10024.3   2195.6  10025.0   2204.1  10050.4
GR  2208.4  10076.4     2209.7   10101.5   2208.0  10115.1   2199.8  10138.0

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
X1     280                                   70       70       70               2.6
X5       4  2208.59    2209.08    2209.21  2209.41

X1     290       14     9966.1   10000.0       70       70       70
GR  2219.1   9894.6     2217.7    9920.1   2211.9   9935.2   2203.6   9947.8   2199.6   9966.1
GR  2200.2   9987.3     2199.8   10000.0   2201.4  10019.1   2203.8  10053.2   2210.2  10069.4
GR  2212.5  10095.0     2217.2   10123.4   2219.9  10167.0   2221.0  10185.3

X1     410       14    10000.0   10033.2      620      620      620
GR  2232.7   9884.4     2233.5    9929.3   2232.7   9946.4   2229.7   9963.2   2224.8   9973.8
GR  2213.3   9987.5     2213.2   10000.0   2211.5  10018.6   2214.2  10033.2   2214.8  10057.1
GR  2216.3  10083.8     2215.8   10084.6   2224.3  10107.4   2231.7  10119.6

        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
X1     450       15     9986.7   10000.0      220      220      220
GR  2235.5   9834.9     2234.8    9850.8   2228.2   9880.2   2221.0   9912.7   2219.5   9940.9
GR  2220.2   9969.1     2220.2    9986.7   2220.2  10000.0   2220.6  10015.5   2220.4  10031.4
GR  2229.2  10049.2     2229.3   10085.3   2232.7  10099.5   2238.0  10125.2   2239.9  10149.1

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
X1     460                                   50       50       50
X5       4  2225.88    2226.55    2226.73  2227.00

X1     480       13    10000.0   10027.5      130      130      130
GR  2241.7   9891.3     2241.1    9907.7   2235.1   9928.1   2226.9   9954.7   2224.7   9973.0
GR  2222.5  10000.0     2223.5   10018.1   2222.2  10027.5   2227.1  10043.7   2230.5  10072.9
GR  2234.6  10098.1     2240.5   10116.7   2242.1  10135.7
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```
NC      .055      .055      .055        .1        .3
X1       570        10   10000.0   10018.4       480       480       480
GR    2252.4    9911.8    2244.9    9937.5    2236.5    9961.0    2233.9    9988.0    2232.5   10000.0
GR    2231.5   10005.8    2233.3   10018.4    2234.4   10019.0    2245.8   10042.8    2250.6   10067.0

X1       650        11   10000.0   10027.7       420       420       420
GR    2263.4    9867.7    2263.2    9918.9    2261.0    9932.6    2250.1    9964.7    2247.6    9983.8
GR    2247.1   10000.0    2244.8   10012.2    2246.5   10027.7    2260.2   10053.8    2264.0   10101.9
GR    2263.6   10108.9

NC      .055      .055      .045
X1       750        16    9975.6   10007.4       530       530       530
GR    2278.3    9840.0    2276.4    9926.4    2273.8    9948.9    2264.4    9973.5    2264.2    9975.6
GR    2261.3    9998.6    2260.7   10000.0    2260.7   10007.4    2263.3   10015.3    2267.2   10026.9
GR    2269.5   10035.0    2273.2   10053.7    2274.4   10067.5    2273.7   10089.4    2275.1   10093.9
GR    2275.4   10126.6

X1       860        10   10000.0   10011.1       560       590       580
GR    2291.1    9848.0    2290.9    9908.6    2286.3    9960.4    2283.7    9984.0    2281.8   10000.0
GR    2281.2   10011.1    2282.3   10025.0    2286.2   10068.6    2289.6   10131.7    2289.4   10139.0

X1       960        16    9981.4   10000.0       540       550       530
GR    2303.1    9846.2    2304.9    9900.1    2304.4    9916.7    2301.6    9952.0    2300.4    9960.4
GR    2299.1    9981.4    2294.1    9992.3    2297.9   10000.0    2299.2   10017.0    2299.1   10026.2
GR    2304.5   10054.2    2306.1   10061.6    2306.4   10095.5    2304.9   10110.8    2308.8   10129.6
GR    2308.4   10191.0

X1      1070        12    9974.8   10031.0       600       560       580
GR    2321.3    9827.9    2320.0    9883.3    2316.8    9909.4    2314.8    9944.2    2314.5    9972.5
GR    2314.6    9974.8    2311.3   10000.0    2310.8   10009.9    2316.1   10031.0    2318.8   10042.2
GR    2319.4   10090.0    2319.2   10132.0

X1      1120        20    9996.5   10037.5       250       260       260
GR    2329.7    9736.7    2330.0    9807.0    2328.7    9848.4    2327.5    9868.6    2328.2    9879.1
GR    2328.5    9916.7    2325.9    9945.3    2326.0    9953.8    2325.4    9970.6    2323.0    9988.2
GR    2318.8    9996.5    2320.7   10000.0    2321.1   10015.9    2321.1   10028.5    2320.3   10037.5
GR    2322.5   10060.5    2327.0   10069.6    2327.2   10125.0    2329.5   10186.9    2332.4   10305.1

X1      1190        11    9992.6   10027.6       370       370       370
GR    2338.0    9926.6    2338.3    9960.7    2335.4    9964.1    2336.5    9966.2    2335.9    9992.6
GR    2333.5    9998.0    2333.5   10000.0    2336.8   10027.6    2337.7   10039.6    2339.0   10077.8
GR    2340.5   10131.9

X1      1300         9   10000.0   10027.0       560       540       580
GR    2356.8    9863.0    2353.8    9973.0    2352.5   10000.0    2350.4   10024.7    2351.0   10027.0
GR    2353.3   10058.3    2354.8   10078.8    2355.4   10106.1    2356.1   10145.0

X1      1430        17    9984.9   10020.2       670       660       680
GR    2380.4    9740.9    2379.9    9814.9    2378.1    9835.3    2378.9    9871.0    2378.0    9896.4
GR    2379.5    9929.2    2379.0    9948.8    2374.7    9956.1    2376.1    9958.4    2375.8    9984.9
GR    2371.0    9997.0    2372.0   10000.0    2374.5   10020.2    2377.4   10044.2    2377.6   10055.9
GR    2378.2   10090.5    2378.3   10128.4
```

X1	1510	8	10000.0	10052.7	440	450	460			
GR	2393.7	9897.9	2393.7	9923.8	2392.8	9957.5	2391.0	9981.9	2384.9	10000.0
GR	2386.2	10018.4	2388.5	10052.7	2389.8	10106.2				
X1	1610	14	10000.0	10017.7	520	540	530			
GR	2405.2	9785.0	2406.7	9814.6	2404.0	9842.8	2404.5	9885.6	2406.0	9947.2
GR	2404.8	9973.4	2401.5	10000.0	2402.0	10005.4	2402.0	10017.7	2406.5	10035.8
GR	2407.3	10059.9	2407.7	10101.7	2408.8	10152.2	2409.3	10153.7		
X1	1700	13	10000.0	10029.4	490	470	480			
GR	2422.1	9818.6	2422.3	9860.5	2421.2	9903.1	2421.0	9957.2	2420.3	9980.4
GR	2417.2	10000.0	2418.2	10029.4	2418.7	10031.4	2420.9	10064.1	2419.9	10110.6
GR	2419.5	10127.6	2420.5	10154.8	2420.4	10182.7				
X1	1750	9	10000.0	10024.5	260	280	260			
GR	2429.8	9827.0	2429.1	9909.0	2430.3	9967.3	2429.5	9979.3	2428.1	9987.6
GR	2426.6	10000.0	2426.9	10024.5	2430.4	10065.3	2433.0	10142.2		

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.08  2163.08  2163.08  2163.08  2163.33      .25      .00      .00  2164.00
     164.       0.       4.     160.       0.       5.      39.       0.       0.  2164.00
      .00      .05      .88     4.07     .055     .055     .055     .000  2162.00  9914.58
  .029427       0.       0.       0.        0        4        0      .00   109.98 10241.66


*SECNO 70.000
      000     1.18  2173.68      .00      .00  2173.84      .16    10.50      .01  2172.50
      164.     13.      151.       0.       4.      47.       0.       0.       1.  2173.50
      .03     3.16     3.20      .05     .055     .055     .055     .000  2172.50  9938.03
  .028034     380.     370.     360.        5        0        0      .00    87.30 10025.33


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

  160.000     2.45  2182.65      .00      .00  2182.87      .21     9.01      .02  2182.40
     164.       0.     164.       0.       1.      44.       0.       1.       2.  2184.20
      .07      .79     3.72      .00     .055     .055     .000     .000  2180.20  9969.53
  .013419     490.     480.     470.        7        0        0      .00    38.17 10007.70


CCHV=     .300 CEHV=     .500
*SECNO 240.000
  240.000     1.32  2188.72      .00      .00  2188.89      .17     6.01      .01  2187.80
     164.     10.      149.       4.       6.      44.       2.       1.       2.  2187.40
      .11     1.86     3.37     2.22     .055     .055     .055     .000  2187.40  9987.91
  .013281     450.     450.     450.        6        0        0      .00    54.49 10042.41
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
 260.000     1.50  2195.40  2195.40      .00  2195.80      .40     1.71      .12  2193.90
    164.     131.      32.       1.      29.       5.       0.       2.       2.   2193.90
     .11     4.46     7.08     2.34     .055     .055     .055     .000  2193.90  9982.19
 .039982      80.      80.      80.       20        8        0      .00    42.73 10024.92


*SECNO 280.000
 WATER EL=X5 CARD=   2208.590

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.19 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 280.000    12.09  2208.59      .00      .00  2208.59      .00      .00      .12  2196.50
    164.     141.       5.      18.    1157.      36.     228.       3.       2.   2196.50
     .28      .12      .15      .08     .055     .055     .055     .000  2196.50  9873.14
 .000001      70.      70.      70.        0        0        0      .00   205.98 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .53

 290.000     8.99  2208.59      .00      .00  2208.59      .00      .00      .00  2199.60
    164.      26.      66.      71.     147.     293.     386.       4.       3.   2199.80
     .37      .18      .23      .18     .055     .055     .055     .000  2199.60  9940.22
 .000004      70.      70.      70.        2        0        0      .00   125.10 10065.33


*SECNO 410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 CNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 410.000     1.93  2213.43  2213.43      .00  2213.86      .43      .01      .21  2213.20
    164.       4.     160.       0.       2.      30.       0.      11.       4.   2214.20
     .41     1.67     5.29      .00     .055     .055     .000     .000  2211.50  9987.34
 .036702     620.     620.     620.       20       21        0      .00    41.72 10029.06


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
 450.000     1.14  2220.64      .00      .00  2220.80      .16     6.86      .08  2220.20
    164.     140.      15.       9.      42.       6.       6.      11.       4.   2220.20
     .43     3.33     2.55     1.49     .055     .055     .055     .000  2219.50  9919.51
 .026793     220.     220.     220.        6        0        0      .00   112.37 10031.88


*SECNO 460.000
 WATER EL=X5 CARD=   2225.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 62.07

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 460.000     6.38  2225.88      .00      .00  2225.88      .00      .00      .05  2220.20
    164.     105.      17.      41.     483.      76.     201.      11.       4.   2220.20
     .49      .22      .23      .21     .055     .055     .055     .000  2219.50  9890.67
 .000007      50.      50.      50.        0        0        0      .00   151.81 10042.48


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .13

 480.000     3.68  2225.88      .00      .00  2225.89      .02      .00      .01  2222.50
    164.      59.      88.      17.      67.      81.      22.      13.       5.   2222.20
     .53      .87     1.09      .78     .055     .055     .055     .000  2222.20  9963.21
 .000390     130.     130.     130.        2        0        0      .00    76.45 10039.66


CCHV=     .100 CEHV=     .300
*SECNO 570.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.08  2233.58  2233.58      .00  2234.12      .54      .62      .16  2232.50
     164.      17.     147.       0.       5.      24.       0.      14.       5.   2233.30
      .55     3.41     6.13      .05     .055     .055     .055     .000  2231.50  9990.77
 .036788     480.     480.     480.       20       11        0      .00    27.78 10018.55


*SECNO 650.000
  650.000     2.16  2246.96      .00      .00  2247.35      .39    13.21      .02  2247.10
     164.       0.     164.       0.       0.      33.       0.      14.       5.   2246.50
      .57      .00     5.02     1.54     .000     .055     .055     .000  2244.80 10000.76
 .027216     420.     420.     420.        4        0        0      .00    27.81 10028.57


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  [illegible]000     1.87  2262.57  2262.57      .00  2263.14      .57    15.04      .05  2264.20
     [illegible]64.       0.     141.      23.       0.      22.       5.      14.       6.   2260.70
      .60      .00     6.32     4.29     .000     .045     .055     .000  2260.70  9988.56
 .029605     530.     530.     530.        5       15        0      .00    24.51 10013.07


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.56  2282.76  2282.76      .00  2283.22      .46    16.47      .01  2281.80
     164.      11.      89.      65.       4.      14.      15.      15.       6.   2281.20
      .63     2.71     6.34     4.25     .055     .045     .055     .000  2281.20  9991.91
 .027069     560.     580.     590.        4       15        0      .00    38.25 10030.15


*SECNO 960.000
  960.000     3.28  2297.38  2297.37      .00  2298.20      .82    14.87      .11  2299.10
     164.       0.     164.       0.       0.      23.       0.      15.       7.   2297.90
      .65      .00     7.26      .00     .000     .045     .000     .000  2294.10  9985.15
 .028630     540.     530.     550.        4       17        0      .00    13.79  9998.94
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1070.000
 1070.000     1.90  2312.70      .00      .00  2313.13      .44    14.90      .04  2314.60
     164.       0.     164.       0.       0.      31.       0.      16.       7.   2316.10
      .68      .00     5.31      .00     .000     .045     .000     .000  2310.80  9989.34
  .023181     600.     580.     560.        5        0        0      .00    28.10 10017.45


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     2.61  2321.41  2321.41      .00  2321.73      .31     7.23      .01  2318.80
     164.      37.     105.      22.       7.      24.       6.      16.       7.   2320.30
      .69     5.54     4.29     3.38     .055     .045     .055     .000  2318.80  9991.33
  .034269     250.     260.     260.       16       12        0      .00    57.82 10049.15


*SECNO 1190.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3[illegible] CRITICAL DEPTH ASSUMED
[illegible].000     2.08  2335.58  2335.58      .00  2336.15      .56    11.68      .07  2335.90
     164.       0.     164.       0.       0.      27.       0.      16.       7.   2336.80
      .71      .05     6.02      .00     .055     .045     .000     .000  2333.50  9963.88
  .029168     370.     370.     370.       20       12        0      .00    24.70 10017.44


*SECNO 1300.000
 1300.000     1.85  2352.25  2352.23      .00  2352.65      .40    16.48      .02  2352.50
     164.       0.     129.      35.       0.      24.      11.      16.       8.   2351.00
      .74      .00     5.45     3.30     .000     .045     .055     .000  2350.40 10002.96
  .028110     560.     580.     540.        9       15        0      .00    41.03 10043.99


*SECNO 1430.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     2.66  2373.66  2373.66      .00  2374.25      .60    19.87      .06  2375.80
     164.       0.     164.       0.       0.      26.       0.      17.       8.   2374.50
      .77      .00     6.19      .00     .000     .045     .000     .000  2371.00  9990.30
  .030599     670.     680.     660.       13       14        0      .00    23.10 10013.40
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 SECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1510.000
 1510.000     1.96  2386.86      .00      .00  2387.26      .40    12.98      .02  2384.90
     164.      23.     141.       0.       6.      27.       0.      17.       9.   2388.50
      .80     4.15     5.21      .00     .055     .045     .000     .000  2384.90  9994.22
  .026273     440.     460.     450.        4        0        0      .00    33.83 10028.06


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     1.53  2403.03  2403.03      .00  2403.52      .49    14.88      .03  2401.50
     164.      37.     121.       6.       9.      20.       2.      18.       9.   2402.00
      .83     3.92     6.15     2.96     .055     .045     .055     .000  2401.50  9987.65
  .030279     520.     530.     540.       20       15        0      .00    34.20 10021.85


*SECNO 1700.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     1.38  2418.57  2418.57      .00  2419.01      .43    15.20      .01  2417.20
     164.      23.     141.       0.       6.      26.       0.      18.       9.   2418.20
      .85     3.79     5.48     1.57     .055     .045     .055     .000  2417.20  9991.31
  .032908     490.     480.     470.       20       15        0      .00    39.59 10030.90


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.15  2427.75  2427.75      .00  2428.17      .42     7.90      .00  2426.60
     164.      17.     136.      11.       5.      25.       4.      18.      10.   2426.90
      .87     3.12     5.54     2.56     .055     .045     .055     .000  2426.60  9990.47
  .028028     260.     260.     280.        3       15        0      .00    43.97 10034.44
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      50-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                3                         .030                                2163.28

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      2                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.28  2163.28  2163.28  2163.28  2163.55      .27      .00      .00  2164.00
    252.       1.      30.     221.       1.      16.      50.       0.       0.   2164.00
     .00     1.22     1.90     4.41     .055     .055     .055     .000  2162.00  9913.61
  .028661       0.       0.       0.        0        5        0      .00   121.73 10245.58


*SECNO 70.000
      .000     1.35  2173.85      .00      .00  2174.08      .23    10.52      .00  2172.50
     252.      19.     232.       0.       6.      61.       0.       1.       1.   2173.50
     .03      3.50     3.84     1.42     .055     .055     .055     .000  2172.50  9937.00
  .028843     380.     370.     360.        4        0        0      .00    89.20 10026.20


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

  160.000     2.84  2183.04      .00      .00  2183.32      .28     9.23      .02  2182.40
    252.       5.     247.       0.       4.      57.       0.       1.       2.   2184.20
     .06     1.47     4.32      .00     .055     .055     .000     .000  2180.20  9962.64
  .013695     490.     480.     470.        5        0        0      .00    46.83 10009.47


CCHV=     .300 CEHV=     .500
*SECNO 240.000
  240.000     1.65  2189.05      .00      .00  2189.26      .22     5.92      .02  2187.80
    252.      22.     222.       7.      10.      57.       3.       2.       2.   2187.40
     .09     2.21     3.89     2.51     .055     .055     .055     .000  2187.40  9983.69
  .012643     450.     450.     450.        6        0        0      .00    59.43 10043.11
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
 260.000     1.80  2195.70  2195.70      .00  2196.17      .48     1.64      .13  2193.90
    252.     208.      42.       2.      42.       5.       1.       2.       2.   2193.90
     .10     4.95     7.86     2.64     .055     .055     .055     .000  2193.90  9974.54
 .038801      80.      80.      80.       20        8        0      .00    50.75 10025.29


*SECNO 280.000
 WATER EL=X5 CARD=   2209.080

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.68 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 280.000    12.58  2209.08      .00      .00  2209.08      .00      .00      .14  2196.50
    252.     215.       8.      29.    1230.      38.     256.       3.       3.   2196.50
     .21      .17      .21      .11     .055     .055     .055     .000  2196.50  9870.97
 .000002      70.      70.      70.        0        0        0      .00   212.48 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

 290.000     9.48  2209.08      .00      .00  2209.08      .00      .00      .00  2199.60
    252.      41.     100.     111.     160.     310.     418.       5.       3.   2199.80
     .28      .26      .32      .27     .055     .055     .055     .000  2199.60  9939.48
 .000007      70.      70.      70.        2        0        0      .00   127.08 10066.57


*SECNO 410.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.23  2213.73  2213.73      .00  2214.25      .52      .02      .26  2213.20
     252.      19.     233.       0.       6.      39.       0.      12.       4.   2214.20
      .31     3.10     5.97      .00     .055     .055     .000     .000  2211.50  9986.99
  .035756     620.     620.     620.       20       17        0      .00    43.66 10030.65


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
  450.000     1.31  2220.81      .00      .00  2221.01      .20     6.66      .10  2220.20
     252.     201.      25.      25.      54.       8.      11.      12.       4.   2220.20
      .33     3.73     3.13     2.21     .055     .055     .055     .000  2219.50  9916.27
  .025937     220.     220.     220.        6        0        0      .00   115.96 10032.23


*SECNO 460.000
        EL=X5 CARD=   2226.550

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 48.34

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  460.000     7.05  2226.55      .00      .00  2226.55      .00      .00      .06  2220.20
     252.     162.      26.      64.     548.      84.     230.      13.       5.   2220.20
      .37      .29      .31      .28     .055     .055     .055     .000  2219.50  9887.65
  .000011      50.      50.      50.        0        0        0      .00   156.19 10043.84


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .16

  480.000     4.34  2226.54      .00      .00  2226.57      .02      .00      .01  2222.50
     252.      97.     127.      28.      94.      99.      31.      14.       5.   2222.20
      .41     1.03     1.29      .89     .055     .055     .055     .000  2222.20  9957.64
  .000413     130.     130.     130.        2        0        0      .00    84.23 10041.87
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.48  2233.98  2233.98      .00  2234.63      .65      .64      .19  2232.50
     252.      38.     214.       0.       9.      31.       0.      16.       6.   2233.30
      .43     4.04     6.80     1.43     .055     .055     .055     .000  2231.50  9987.15
  .031526     480.     480.     480.       20       14        0      .00    31.62 10018.77


*SECNO 650.000
  650.000     2.46  2247.26  2247.15      .00  2247.84      .58    13.21      .01  2247.10
     252.       0.     250.       1.       0.      41.       1.      16.       6.   2246.50
      .45      .86     6.14     2.30     .055     .055     .055     .000  2244.80  9995.03
  .031370     420.     420.     420.        6       11        0      .00    34.10 10029.14


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     2.30  2263.00  2263.00      .00  2263.67      .67    15.62      .03  2264.20
     252.       0.     214.      38.       0.      31.       8.      17.       6.   2260.70
      .47      .00     6.84     4.77     .000     .045     .055     .000  2260.70  9985.14
  .027742     530.     530.     530.        5       12        0      .00    29.25 10014.38


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.89  2283.09  2283.09      .00  2283.64      .55    15.33      .01  2281.80
     252.      22.     125.     104.       7.      18.      22.      17.       7.   2281.20
      .50     3.17     7.11     4.73     .055     .045     .055     .000  2281.20  9989.15
  .025040     560.     580.     590.        4       15        0      .00    44.67 10033.82


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  960.000     3.88  2297.98  2297.98      .00  2298.96      .99    13.98      .13  2299.10
     252.       0.     252.       0.       0.      32.       0.      18.       7.   2297.90
      .51      .00     7.98      .04     .000     .045     .055     .000  2294.10  9983.85
  .027355     540.     530.     550.        2       17        0      .00    17.13 10000.99
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1070.000
 1070.000     2.27  2313.07      .00      .00  2313.62      .55    14.62      .04  2314.60
     252.       0.     252.       0.       0.      42.       0.      18.       7.  2316.10
      .54      .00     5.96      .00     .000     .045     .000     .000  2310.80  9986.47
  .023287     600.     580.     560.        4        0        0      .00    32.48 10018.95


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     2.79  2321.59  2321.59      .00  2322.04      .44     7.58      .01  2318.80
     252.      47.     171.      34.       8.      32.       9.      19.       8.  2320.30
      .55     6.09     5.38     3.92     .055     .045     .055     .000  2318.80  9990.98
  .037882     250.     260.     260.       14       11        0      .00    60.05 10051.03


*SECNO 1190.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 [illegible]000     2.52  2336.02  2336.02      .00  2336.67      .65    11.60      .06  2335.90
     [illegible]252.      1.     251.       0.       1.      39.       0.      19.       8.  2336.80
      .57     1.40     6.48      .00     .055     .045     .000     .000  2333.50  9963.37
  .026375     370.     370.     370.        5       11        0      .00    35.60 10021.07


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     2.17  2352.57  2352.57      .00  2353.04      .47    15.09      .02  2352.50
     252.       0.     190.      62.       0.      32.      17.      19.       9.  2351.00
      .60      .04     5.94     3.71     .055     .045     .055     .000  2350.40  9998.56
  .026096     560.     580.     540.       12       10        0      .00    49.80 10048.36


*SECNO 1430.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.09  2374.09  2374.09      .00  2374.79      .70    18.57      .07  2375.80
     252.       0.     252.       0.       0.      37.       0.      20.       9.  2374.50
      .63      .00     6.72      .00     .000     .045     .000     .000  2371.00  9989.21
  .028835     670.     680.     660.       10       14        0      .00    27.69 10016.90
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1510.000
 1510.000     2.26  2387.16      .00      .00  2387.67      .51    12.86      .02  2384.90
     252.      36.     216.       0.       8.      37.       0.      21.      10.   2388.50
      .65     4.68     5.87      .00     .055     .045     .000     .000  2384.90  9993.27
  .027282     440.     460.     450.        4        0        0      .00    39.59 10032.86


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     1.88  2403.38  2403.38      .00  2403.99      .61    14.36      .03  2401.50
     252.      60.     179.      13.      14.      26.       4.      21.      10.   2402.00
      .67     4.24     6.96     3.40     .055     .045     .055     .000  2401.50  9984.88
  .027089     520.     530.     540.       20       15        0      .00    38.35 10023.23


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     1.67  2418.87  2418.87      .00  2419.42      .54    13.41      .01  2417.20
     252.      36.     214.       2.       9.      34.       1.      22.      11.   2418.20
      .70     4.02     6.21     2.18     .055     .045     .055     .000  2417.20  9989.43
  .028620     490.     480.     470.        4       15        0      .00    44.54 10033.97


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.45  2428.05  2428.05      .00  2428.56      .51     6.97      .00  2426.60
     252.      30.     199.      23.       9.      32.       8.      22.      11.   2426.90
      .71     3.43     6.23     2.95     .055     .045     .055     .000  2426.60  9987.98
  .024957     260.     260.     280.        4       11        0      .00    49.98 10037.96
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                4                         .030                                2163.36

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      3                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.35  2163.35  2163.35  2163.36  2163.64      .29      .00      .00  2164.00
    296.       1.     44.     250.       1.      20.      54.       0.       0.   2164.00
     .00     1.44     2.23     4.63     .055     .055     .055     .000  2162.00  9913.27
  .029809      0.       0.       0.        0        5        0      .00   125.75 10246.92


*SECNO 70.000
   70.000     1.45  2173.95      .00      .00  2174.20      .25    10.55      .00  2172.50
    296.      22.     273.       1.       6.      67.       0.       1.       1.   2173.50
     .03     3.59     4.05     1.62     .055     .055     .055     .000  2172.50  9936.48
  .027877     380.     370.     360.        4        0        0      .00    90.17 10026.65


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.40

  160.000     2.98  2183.18      .00      .00  2183.50      .32     9.28      .02  2182.40
    296.       9.     287.       0.       5.      62.       0.       1.       2.   2184.20
     .06     1.71     4.60      .00     .055     .055     .000     .000  2180.20  9960.00
  .014175     490.     480.     470.        6        0        0      .00    50.14 10010.15


CCHV=     .300 CEHV=     .500
*SECNO 240.000
  240.000     1.80  2189.20      .00      .00  2189.43      .24     5.91      .03  2187.80
    296.      30.     257.       9.      13.      63.       4.       2.       2.   2187.40
     .09     2.34     4.07     2.61     .055     .055     .055     .000  2187.40  9981.73
  .012188     450.     450.     450.        6        0        0      .00    61.71 10043.44
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
 260.000     1.92  2195.82  2195.82      .00  2196.33      .51     1.59      .13  2193.90
    296.     247.      47.       2.      48.       6.       1.       2.       2.   2193.90
     .09     5.13     8.15     2.65     .055     .055     .055     .000  2193.90  9971.24
 .038060      80.      80.      80.       20        8        0      .00    54.42 10025.66


*SECNO 280.000
 WATER EL=X5 CARD=   2209.210

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.81 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 280.000    12.71  2209.21      .00      .00  2209.21      .00      .00      .15  2196.50
    296.     252.       9.      34.    1250.      38.     264.       4.       3.   2196.50
     .19      .20      .25      .13     .055     .055     .055     .000  2196.50  9870.39
 .000003      70.      70.      70.        0        0        0      .00   214.20 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

 290.000     9.61  2209.21      .00      .00  2209.21      .00      .00      .00  2199.60
    296.      48.     117.     131.     163.     314.     427.       6.       3.   2199.80
     .25      .30      .37      .31     .055     .055     .055     .000  2199.60  9939.28
 .000010      70.      70.      70.        2        0        0      .00   127.61 10066.89


*SECNO 410.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      OROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.36  2213.86  2213.86      .00  2214.42      .56      .02      .28  2213.20
     296.      28.      268.       0.       8.      43.       0.      12.       4.   2214.20
      .28     3.59     6.19      .00     .055     .055     .000     .000  2211.50  9986.83
  .034678     620.     620.     620.       20       14        0      .00    44.55 10031.38


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
  450.000     1.38 *2220.88      .00      .00  2221.10      .21     6.57      .10  2220.20
     296.     231.      31.      34.      59.       9.      14.      13.       4.   2220.20
      .30     3.91     3.38     2.49     .055     .055     .055     .000  2219.50  9914.92
  .025996     220.     220.     220.        5        0        0      .00   117.46 10032.38


*SECNO 460.000
 R EL=X5 CARD=   2226.730

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 43.28

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  460.000     7.23  2226.73      .00      .00  2226.73      .00      .00      .06  2220.20
     296.     190.      31.      76.     566.      87.     238.      13.       5.   2220.20
      .34      .34      .35      .32     .055     .055     .055     .000  2219.50  9886.84
  .000014      50.      50.      50.        0        0        0      .00   157.37 10044.20


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .17

  480.000     4.52  2226.72      .00      .00  2226.75      .03      .01      .01  2222.50
     296.     116.     147.      33.     101.     104.      34.      15.       5.   2222.20
      .37     1.14     1.42      .98     .055     .055     .055     .000  2222.20  9956.14
  .000470     130.     130.     130.        2        0        0      .00    86.32 10042.46
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     OCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.64  2234.14  2234.14      .00  2234.84      .70      .71      .20  2232.50
     296.      51.     244.       0.      12.      34.       0.      17.       6.   2233.30
      .39     4.43     7.11     1.62     .055     .055     .055     .000  2231.50  9985.50
  .030641     480.     480.     480.       20       11        0      .00    33.36 10018.86


*SECNO 650.000
  650.000     2.59  2247.39  2247.34      .00  2248.06      .67    13.21      .00  2247.10
     296.       2.     292.       2.       1.      44.       1.      17.       6.   2246.50
      .40     1.32     6.60     2.60     .055     .055     .055     .000  2244.80  9990.85
  .032301     420.     420.     420.        8       11        0      .00    38.53 10029.38


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     2.47  2263.17  2263.17      .00  2263.89      .72    15.81      .02  2264.20
     296.       0.     250.      46.       0.      35.       9.      18.       6.   2260.70
      .43      .00     7.11     4.99     .000     .045     .055     .000  2260.70  9983.78
  .027616     530.     530.     530.        4        8        0      .00    31.12 10014.90


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     2.03  2283.23  2283.23      .00  2283.82      .59    15.15      .01  2281.80
     296.      29.     143.     125.       9.      19.      25.      18.       7.   2281.20
      .45     3.37     7.44     4.92     .055     .045     .055     .000  2281.20  9987.99
  .024600     560.     580.     590.        4       15        0      .00    47.36 10035.35


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  960.000     4.18  2298.28  2298.28      .00  2299.28     1.01    13.06      .12  2299.10
     296.       0.     295.       1.       0.      37.       1.      19.       7.   2297.90
      .47      .00     8.06     1.38     .000     .045     .055     .000  2294.10  9983.20
  .024239     540.     530.     550.        3       17        0      .00    21.73 10004.93
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1070.000
 1070.000     2.38  2313.18  2313.15      .00  2313.83      .65    14.51      .04  2314.60
    296.       0.     296.       0.       0.      46.       0.      19.       8.   2316.10
     .50      .00     6.46      .00     .000     .045     .000     .000  2310.80  9985.65
  .025844     600.     580.     560.        6       11        0      .00    33.72 10019.37


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     2.91  2321.71  2321.71      .00  2322.18      .47     7.71      .02  2318.80
    296.       50.     205.      41.       8.      36.      10.      20.       8.   2320.30
     .51     5.98     5.63     3.97     .055     .045     .055     .000  2318.80  9990.75
  .034658     250.     260.     260.       14       11        0      .00    61.46 10052.21


*SECNO 1190.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    .000     2.75  2336.25  2336.25      .00  2336.87      .62    10.23      .05  2335.90
    296.       6.     290.       0.       4.      45.       0.      20.       9.   2336.80
     .53     1.49     6.39      .00     .055     .045     .000     .000  2333.50  9963.11
  .022585     370.     370.     370.        9        8        0      .00    48.27 10022.98


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     2.24  2352.64  2352.64      .00  2353.20      .56    14.70      .01  2352.50
    296.       0.     222.      74.       0.      34.      18.      21.       9.   2351.00
     .55      .79     6.54     4.04     .055     .045     .055     .000  2350.40  9997.05
  .029187     560.     580.     540.        5       15        0      .00    52.29 10049.34


*SECNO 1430.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.27  2374.27  2374.27      .00  2375.02      .74    19.40      .06  2375.80
    296.       0.     296.       0.       0.      43.       0.      21.      10.   2374.50
     .58      .00     6.92      .00     .000     .045     .000     .000  2371.00  9988.75
  .028106     670.     680.     660.       20       14        0      .00    29.64 10018.38
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1510.000
 1510.000     2.40  2387.30      .00      .00  2387.86      .56    12.82      .02  2384.90
    296.       42.     254.       0.       9.      41.       0.      22.      10.   2388.50
     .60     4.91     6.16      .00     .055     .045     .000     .000  2384.90  9992.88
  .027804     440.     460.     450.        5        0        0      .00    41.94 10034.82


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     2.03  2403.53  2403.53      .00  2404.19      .65    14.08      .03  2401.50
    296.       73.     207.      17.      17.      29.       5.      23.      11.   2402.00
     .62     4.35     7.25     3.55     .055     .045     .055     .000  2401.50  9983.60
  .025582     520.     530.     540.       20       12        0      .00    40.27 10023.87


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     1.81  2419.01  2419.01      .00  2419.60      .59    12.60      .01  2417.20
    296.       43.     249.       4.      10.      39.       2.      23.      11.   2418.20
     .65     4.10     6.47     2.29     .055     .045     .055     .000  2417.20  9988.55
  .026780     490.     480.     470.        4       11        0      .00    47.46 10036.02


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.59  2428.19  2428.19      .00  2428.73      .54     6.54      .00  2426.60
    296.       38.     228.      30.      10.      35.      10.      23.      11.   2426.90
     .66     3.66     6.46     3.08     .055     .045     .055     .000  2426.60  9987.06
  .023493     260.     260.     280.        4       11        0      .00    52.48 10039.54
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                5                         .030                                2163.45

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR*(0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.46  2163.46      .00  2163.45  2163.78      .31      .00      .00  2164.00
    375.       3.     73.      299.       2.      27.      61.       0.       0.   2164.00
     .00     1.76     2.70     4.86     .055     .055     .055     .000  2162.00  9912.68
  .029985      0.       0.       0.        0        0        5      .00   132.88 10249.29


*SECNO 70.000
   70.000     1.57  2174.07      .00      .00  2174.37      .30    10.59      .00  2172.50
    375.      28.     345.       2.       7.      78.       1.       1.       1.   2173.50
     .02     3.80     4.45     1.92     .055     .055     .055     .000  2172.50  9935.70
  .027870     380.     370.     360.        4        0        0      .00    91.61 10027.31


*SECNO 160.000
  160.000     3.23  2183.43      .00      .00  2183.80      .37     9.41      .02  2182.40
    375.      20.     355.       0.       9.      71.       0.       2.       2.   2184.20
     .05     2.08     4.98      .00     .055     .055     .000     .000  2180.20  9955.57
  .014500     490.     480.     470.        6        0        0      .00    55.72 10011.29


CCHV=     .300 CEHV=     .500
*SECNO 240.000
  240.000     2.03  2189.43      .00      .00  2189.70      .27     5.88      .03  2187.80
    375.      45.     318.      13.      17.      72.       5.       3.       2.   2187.40
     .08     2.56     4.40     2.79     .055     .055     .055     .000  2187.40  9978.66
  .011821     450.     450.     450.        5        0        0      .00    65.29 10043.96
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
  260.000     2.13  2196.03  2196.03      .00  2196.57      .54     1.54      .14  2193.90
     375.     317.      55.       3.      59.       6.       1.       3.       3.   2193.90
      .08     5.37     8.53     2.86     .055     .055     .055     .000  2193.90  9965.85
  .036413      80.      80.      80.       20        8        0      .00    60.43 10026.28


*SECNO 280.000
 WATER EL=X5 CARD=   2209.410

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      7.01 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 93.29

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  280.000    12.91  2209.41      .00      .00  2209.41      .00      .00      .16  2196.50
     375.     319.      12.      44.    1280.      39.     276.       4.       3.   2196.50
      .17      .25      .30      .16     .055     .055     .055     .000  2196.50  9869.51
  .000004      70.      70.      70.        0        0        0      .00   216.86 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

  290.000     9.81  2209.41      .00      .00  2209.41      .00      .00      .00  2199.60
     375.      61.     147.     166.     169.     321.     440.       6.       3.   2199.80
      .21      .36      .46      .38     .055     .055     .055     .000  2199.60  9938.98
  .000014      70.      70.      70.        2        0        0      .00   128.42 10067.40


*SECNO 410.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.55  2214.05  2214.05      .00  2214.70      .65      .03      .32  2213.20
     375.      45.     330.       0.      10.      49.       0.      13.       4.  2214.20
      .24     4.33     6.70      .00     .055     .055     .000     .000  2211.50  9986.60
  .035627     620.     620.     620.       20       14        0      .00    45.80 10032.40


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
  450.000     1.52  2221.02      .00      .00  2221.25      .24     6.43      .12  2220.20
     375.     283.      40.      52.      69.      11.      18.      14.       5.  2220.20
      .26     4.11     3.69     2.87     .055     .055     .055     .000  2219.50  9912.63
  .024411     220.     220.     220.        6        0        0      .00   120.02 10032.65


*SECNO 460.000
 R EL=X5 CARD=   2227.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 35.56

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  460.000     7.50  2227.00      .00      .00  2227.00      .00      .00      .07  2220.20
     375.     240.      39.      96.     593.      90.     250.      14.       5.  2220.20
      .29      .41      .43      .39     .055     .055     .055     .000  2219.50  9885.62
  .000019      50.      50.      50.        0        0        0      .00   159.13 10044.75


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .18

  480.000     4.79  2226.99      .00      .00  2227.03      .03      .01      .02  2222.50
     375.     150.     182.      43.     114.     111.      38.      16.       5.  2222.20
      .32     1.32     1.64     1.13     .055     .055     .055     .000  2222.20  9954.39
  .000575     130.     130.     130.        2        0        0      .00    88.96 10043.35
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.90  2234.40  2234.40      .00  2235.19      .79      .85      .23  2232.50
     375.      77.     297.       1.      16.      39.       0.      18.       6.   2233.30
      .33     4.93     7.61     1.90     .055     .055     .055     .000  2231.50  9982.84
  .029495     480.     480.     480.       20       14        0      .00    36.16 10019.00


*SECNO 650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  650.000     2.88  2247.68  2247.68      .00  2248.38      .70    12.02      .01  2247.10
     375.      11.     360.       4.       5.      53.       1.      18.       6.   2246.50
      .35     2.13     6.85     2.92     .055     .055     .055     .000  2244.80  9983.20
  .027780     420.     420.     420.        4        5        0      .00    46.74 10029.95


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     2.78  2263.48  2263.48      .00  2264.24      .76    14.11      .02  2264.20
     375.       0.     312.      63.       0.      43.      12.      19.       7.   2260.70
      .37      .00     7.30     5.39     .000     .045     .055     .000  2260.70  9981.35
  .025542     530.     530.     530.        3        8        0      .00    34.47 10015.82


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     2.25  2283.45  2283.45      .00  2284.10      .65    14.29      .01  2281.80
     375.      42.     172.     161.      12.      22.      31.      20.       7.   2281.20
      .40     3.64     7.92     5.18     .055     .045     .055     .000  2281.20  9986.08
  .023625     560.     580.     590.        5       15        0      .00    51.82 10037.89


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 960.000     4.64  2298.74  2298.74      .00  2299.76     1.01    11.80      .11  2299.10
    375.       0.     365.      10.       0.      45.       5.      20.       8.   2297.90
     .42      .00     8.18     2.18     .000     .045     .055     .000  2294.10  9982.18
 .020633     540.     530.     550.       11       17        0      .00    28.86 10011.03


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1070.000     2.61  2313.41  2313.41      .00  2314.16      .75    13.53      .03  2314.60
    375.       0.     375.       0.       0.      54.       0.      21.       8.   2316.10
     .44      .00     6.94      .00     .000     .045     .000     .000  2310.80  9983.87
 .026609     600.     580.     560.        8       11        0      .00    36.43 10020.30


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1120.000     3.04  2321.84  2321.84      .00  2322.41      .57     7.97      .02  2318.80
    375.      57.     264.      53.       9.      42.      12.      21.       9.   2320.30
     .45     6.28     6.30     4.29     .055     .045     .055     .000  2318.80  9990.49
    5896     250.     260.     260.       11       11        0      .00    63.14 10053.63


*SECNO 1190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1190.000     3.08  2336.58  2336.58      .00  2337.15      .57     9.22      .00  2335.90
    375.      25.     350.       0.      12.      56.       0.      22.       9.   2336.80
     .47     2.00     6.25      .00     .055     .045     .000     .000  2333.50  9962.71
 .018304     370.     370.     370.        2        5        0      .00    63.07 10025.78


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1300.000     2.46  2352.86  2352.86      .00  2353.47      .61    12.50      .01  2352.50
    375.       2.     275.      98.       1.      40.      24.      23.      10.   2351.00
     .50     1.40     6.91     4.17     .055     .045     .055     .000  2350.40  9992.53
 .026343     560.     580.     540.        3       15        0      .00    59.78 10052.31
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1430.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.54  2374.54  2374.54      .00  2375.38      .84    18.32      .07  2375.80
    375.        0.     375.       0.       0.      51.       0.      24.      11.   2374.50
     .52      .00      7.34      .05     .000     .045     .055     .000  2371.00  9988.07
  .027776     670.     680.     660.       20       14        0      .00    32.48 10020.55


*SECNO 1510.000
 1510.000     2.62  2387.52  2387.49      .00  2388.15      .63    12.75      .02  2384.90
    375.       53.     322.       0.      10.      49.       0.      24.      11.   2388.50
     .54     5.21      6.53      .00     .055     .045     .000     .000  2384.90  9992.22
  .027823     440.     460.     450.        8       19        0      .00    45.89 10038.11


*SECNO 1610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     2.28  2403.78  2403.78      .00  2404.51      .73    13.71      .03  2401.50
    375.       96.     255.      24.      21.      33.       6.      25.      12.   2402.00
     .56     4.57      7.76     3.82     .055     .045     .055     .000  2401.50  9981.62
   .024248     520.     530.     540.        9       16        0      .00    43.24 10024.86


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     2.03  2419.23  2419.23      .00  2419.89      .66    11.80      .01  2417.20
    375.       55.     310.       9.      13.      45.       4.      26.      12.   2418.20
     .58     4.26      6.90     2.51     .055     .045     .055     .000  2417.20  9987.16
  .024746     490.     480.     470.        4       15        0      .00    52.12 10039.29


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.79  2428.39  2428.39      .00  2429.00      .61     6.17      .00  2426.60
    375.       54.     278.      43.      13.      40.      13.      26.      12.   2426.90
     .60     4.09      6.90     3.33     .055     .045     .055     .000  2426.60  9985.86
  .022537     260.     260.     280.        3       11        0      .00    56.04 10041.90
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THIS RUN EXECUTED 4/ 2/90 23:19:53

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO WASH, TRIB.3

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1360.000	2163.08	164.00	1.08	.05	.88	4.07	.00	4.04	159.95	109.98	294.27	.00
*	1360.000	2163.28	252.00	1.28	1.22	1.90	4.41	.71	30.32	220.97	121.73	286.61	.00
	1360.000	2163.35	296.00	1.35	1.44	2.23	4.63	1.29	44.45	250.26	125.75	298.09	.00
	1360.000	2163.46	375.00	1.46	1.76	2.70	4.86	2.84	73.31	298.84	132.88	299.85	.00
	70.000	2173.68	164.00	1.18	3.16	3.20	.05	13.35	150.64	.00	87.30	280.34	10.60
	70.000	2173.85	252.00	1.35	3.50	3.84	1.42	19.38	232.17	.45	89.20	288.43	10.57
	70.000	2173.95	296.00	1.45	3.59	4.05	1.62	22.47	272.74	.79	90.17	278.77	10.60
	70.000	2174.07	375.00	1.57	3.80	4.45	1.92	28.26	345.16	1.58	91.61	278.70	10.60
*	160.000	2182.65	164.00	2.45	.79	3.72	.00	.45	163.54	.00	38.17	134.19	8.97
*	160.000	2183.04	252.00	2.84	1.47	4.32	.00	5.33	246.67	.00	46.83	136.95	9.18
*	160.000	2183.18	296.00	2.98	1.71	4.60	.00	9.42	286.58	.00	50.14	141.75	9.24
	160.000	2183.43	375.00	3.23	2.08	4.98	.00	19.76	355.23	.00	55.72	145.00	9.36
	240.000	2188.72	164.00	1.32	1.86	3.37	2.22	10.36	149.37	4.27	54.49	132.81	6.07
	240.000	2189.05	252.00	1.65	2.21	3.89	2.51	22.50	222.05	7.46	59.43	126.43	6.01
	240.000	2189.20	296.00	1.80	2.34	4.07	2.61	29.88	256.88	9.23	61.71	121.88	6.02
	240.000	2189.43	375.00	2.03	2.56	4.40	2.79	44.51	317.88	12.61	65.29	118.21	6.00
*	260.000	2195.40	164.00	1.50	4.46	7.08	2.34	130.99	31.92	1.09	42.73	399.82	6.68
*	260.000	2195.70	252.00	1.80	4.95	7.86	2.64	207.86	42.36	1.78	50.75	388.01	6.65
*	260.000	2195.82	296.00	1.92	5.13	8.15	2.65	246.83	46.99	2.18	54.42	380.60	6.63
*	260.000	2196.03	375.00	2.13	5.37	8.53	2.86	317.15	54.50	3.35	60.43	364.13	6.60
*	280.000	2208.59	164.00	12.09	.12	.15	.08	140.86	5.41	17.73	205.98	.01	13.19
*	280.000	2209.08	252.00	12.58	.17	.21	.11	215.26	8.07	28.67	212.48	.02	13.38
*	280.000	2209.21	296.00	12.71	.20	.25	.13	252.47	9.41	34.12	214.20	.03	13.39
*	280.000	2209.41	375.00	12.91	.25	.30	.16	319.14	11.78	44.08	216.86	.04	13.38
*	290.000	2208.59	164.00	8.99	.18	.23	.18	26.35	66.29	71.37	125.10	.04	.00
*	290.000	2209.08	252.00	9.48	.26	.32	.27	40.98	100.04	110.98	127.08	.07	.00
*	290.000	2209.21	296.00	9.61	.30	.37	.31	48.29	116.97	130.74	127.61	.10	.00
*	290.000	2209.41	375.00	9.81	.36	.46	.38	61.46	147.18	166.36	128.42	.14	.00

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	410.000	2213.43	164.00	1.93	1.67	5.29	.00	3.85	160.14	.00	41.72	367.02	4.84
*	410.000	2213.73	252.00	2.23	3.10	5.97	.00	18.85	233.15	.00	43.66	357.56	4.65
*	410.000	2213.86	296.00	2.36	3.59	6.19	.00	28.18	267.82	.00	44.55	346.78	4.65
*	410.000	2214.05	375.00	2.55	4.33	6.70	.00	44.88	330.12	.00	45.80	356.27	4.64
	450.000	2220.64	164.00	1.14	3.33	2.55	1.49	140.32	14.84	8.83	112.37	267.93	7.20
	450.000	2220.81	252.00	1.31	3.73	3.13	2.21	201.23	25.42	25.35	115.96	259.37	7.08
	450.000	2220.88	296.00	1.38	3.91	3.38	2.49	231.07	30.62	34.31	117.46	259.96	7.02
	450.000	2221.02	375.00	1.52	4.11	3.69	2.87	282.88	40.00	52.12	120.02	244.11	6.96
*	460.000	2225.88	164.00	6.38	.22	.23	.21	105.40	17.14	41.46	151.81	.07	5.24
*	460.000	2226.55	252.00	7.05	.29	.31	.28	161.61	26.07	64.32	156.19	.11	5.74
*	460.000	2226.73	296.00	7.23	.34	.35	.32	189.73	30.54	75.72	157.37	.14	5.85
*	460.000	2227.00	375.00	7.50	.41	.43	.39	240.22	38.54	96.24	159.13	.19	5.98
*	480.000	2225.88	164.00	3.68	.87	1.09	.78	58.85	87.76	17.40	76.45	3.90	-.00
*	480.000	2226.34	252.00	4.34	1.03	1.29	.89	96.91	127.16	27.94	84.23	4.13	-.01
*	480.000	2226.72	296.00	4.52	1.14	1.42	.98	115.56	147.22	33.22	86.32	4.70	-.01
*	480.000	2226.99	375.00	4.79	1.32	1.64	1.13	149.69	182.49	42.83	88.96	5.75	-.01
*	570.000	2233.58	164.00	2.08	3.41	6.13	.05	16.96	147.04	.00	27.78	367.88	7.70
*	570.000	2233.98	252.00	2.48	4.04	6.80	1.43	38.04	213.78	.18	31.62	315.26	7.44
*	570.000	2234.14	296.00	2.64	4.43	7.11	1.62	51.35	244.34	.31	33.36	306.41	7.42
*	570.000	2234.40	375.00	2.90	4.93	7.61	1.90	77.18	297.19	.63	36.16	294.95	7.41
	650.000	2246.96	164.00	2.16	.00	5.02	1.54	.00	163.69	.30	27.81	272.16	13.38
	650.000	2247.26	252.00	2.46	.86	6.14	2.30	.33	250.42	1.24	34.10	313.70	13.28
	650.000	2247.39	296.00	2.59	1.32	6.60	2.60	1.70	292.37	1.93	38.53	323.01	13.25
*	650.000	2247.68	375.00	2.88	2.13	6.85	2.92	11.40	359.74	3.86	46.74	277.80	13.28
*	750.000	2262.57	164.00	1.87	.00	6.32	4.29	.00	141.32	22.68	24.51	296.05	15.61
*	750.000	2263.00	252.00	2.30	.00	6.84	4.77	.00	213.75	38.25	29.25	277.42	15.74
*	750.000	2263.17	296.00	2.47	.00	7.11	4.99	.00	249.78	46.22	31.12	276.16	15.78
*	750.000	2263.48	375.00	2.78	.00	7.30	5.39	.00	311.99	63.01	34.47	255.42	15.80
*	860.000	2282.76	164.00	1.56	2.71	6.34	4.25	10.55	88.67	64.77	38.25	270.69	20.20
*	860.000	2283.09	252.00	1.89	3.17	7.11	4.73	22.20	125.36	104.43	44.67	250.40	20.09
*	860.000	2283.23	296.00	2.03	3.37	7.44	4.92	28.81	142.62	124.57	47.36	246.00	20.06
*	860.000	2283.45	375.00	2.25	3.64	7.92	5.18	41.91	171.80	161.29	51.82	236.25	19.98
	960.000	2297.38	164.00	3.28	.00	7.26	.00	.00	164.00	.00	13.79	286.30	14.62
*	960.000	2297.98	252.00	3.88	.00	7.98	.04	.00	252.00	.00	17.13	273.55	14.89
*	960.000	2298.28	296.00	4.18	.00	8.06	1.38	.00	294.72	1.28	21.73	242.39	15.05
*	960.000	2298.74	375.00	4.64	.00	8.18	2.18	.00	364.86	10.14	28.86	206.33	15.29
	1070.000	2312.70	164.00	1.90	.00	5.31	.00	.00	164.00	.00	28.10	231.81	15.32
	1070.000	2313.07	252.00	2.27	.00	5.96	.00	.00	252.00	.00	32.48	232.87	15.10
	1070.000	2313.18	296.00	2.38	.00	6.46	.00	.00	296.00	.00	33.72	258.44	14.91
*	1070.000	2313.41	375.00	2.61	.00	6.94	.00	.00	375.00	.00	36.43	266.09	14.67

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1120.000	2321.41	164.00	2.61	5.54	4.29	3.38	37.44	104.64	21.93	57.82	342.69	8.72
*	1120.000	2321.59	252.00	2.79	6.09	5.38	3.92	46.98	170.69	34.32	60.05	378.82	8.52
*	1120.000	2321.71	296.00	2.91	5.98	5.63	3.97	49.96	204.98	41.06	61.46	346.58	8.53
*	1120.000	2321.84	375.00	3.04	6.28	6.30	4.29	57.40	264.22	53.38	63.14	358.96	8.43
*	1190.000	2335.58	164.00	2.08	.05	6.02	.00	.00	164.00	.00	24.70	291.68	14.17
*	1190.000	2336.02	252.00	2.52	1.40	6.48	.00	1.26	250.74	.00	35.60	263.75	14.42
*	1190.000	2336.25	296.00	2.75	1.49	6.39	.00	5.61	290.39	.00	48.27	225.85	14.54
*	1190.000	2336.58	375.00	3.08	2.00	6.25	.00	24.51	350.49	.00	63.07	183.04	14.74
	1300.000	2352.25	164.00	1.85	.00	5.45	3.30	.00	128.99	35.01	41.03	281.10	16.66
*	1300.000	2352.57	252.00	2.17	.04	5.94	3.71	.00	189.89	62.11	49.80	260.96	16.55
*	1300.000	2352.64	296.00	2.24	.79	6.54	4.04	.17	221.74	74.09	52.29	291.87	16.39
*	1300.000	2352.86	375.00	2.46	1.40	6.91	4.17	1.87	275.00	98.12	59.78	263.43	16.28
*	1430.000	2373.66	164.00	2.66	.00	6.19	.00	.00	164.00	.00	23.10	305.99	21.41
*	1430.000	2374.09	252.00	3.09	.00	6.72	.00	.00	252.00	.00	27.69	288.35	21.52
*	1430.000	2374.27	296.00	3.27	.00	6.92	.00	.00	296.00	.00	29.64	281.06	21.63
*	1430.000	2374.54	375.00	3.54	.00	7.34	.05	.00	375.00	.00	32.48	277.76	21.68
	1510.000	2386.86	164.00	1.96	4.15	5.21	.00	23.36	140.64	.00	33.83	262.73	13.20
	1510.000	2387.16	252.00	2.26	4.68	5.87	.00	35.80	216.20	.00	39.59	272.82	13.07
	1510.000	2387.30	296.00	2.40	4.91	6.16	.00	41.99	254.01	.00	41.94	278.04	13.02
	1510.000	2387.52	375.00	2.62	5.21	6.53	.00	53.10	321.90	.00	45.89	278.23	12.98
*	1610.000	2403.03	164.00	1.53	3.92	6.15	2.96	37.04	120.61	6.35	34.20	302.79	16.18
*	1610.000	2403.38	252.00	1.88	4.24	6.96	3.40	60.11	178.96	12.93	38.35	270.89	16.21
*	1610.000	2403.53	296.00	2.03	4.35	7.25	3.55	72.52	206.68	16.80	40.27	255.82	16.24
*	1610.000	2403.78	375.00	2.28	4.57	7.76	3.82	95.71	254.98	24.31	43.24	242.48	16.26
*	1700.000	2418.57	164.00	1.38	3.79	5.48	1.57	22.63	140.92	.44	39.59	329.08	15.54
*	1700.000	2418.87	252.00	1.67	4.02	6.21	2.18	35.58	214.08	2.33	44.54	286.20	15.50
*	1700.000	2419.01	296.00	1.81	4.10	6.47	2.29	42.52	249.26	4.22	47.46	267.80	15.48
*	1700.000	2419.23	375.00	2.03	4.26	6.90	2.51	55.50	310.32	9.18	52.12	247.46	15.45
*	1750.000	2427.75	164.00	1.15	3.12	5.54	2.56	17.12	136.05	10.84	43.97	280.28	9.18
*	1750.000	2428.05	252.00	1.45	3.43	6.23	2.95	30.03	199.03	22.93	49.98	249.57	9.18
*	1750.000	2428.19	296.00	1.59	3.66	6.46	3.08	38.24	227.81	29.94	52.48	234.93	9.18
*	1750.000	2428.39	375.00	1.79	4.09	6.90	3.33	53.95	277.79	43.25	56.04	225.37	9.16

C[illegible]LLO WASH, TRIB.3

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1360.000	.00	.00	.00	2162.00	164.00	2163.08	2163.08	2163.33	294.27	.88	43.92	9.56
*	1360.000	.00	.00	.00	2162.00	252.00	2163.28	2163.28	2163.55	286.61	1.90	66.61	14.89
	1360.000	.00	.00	.00	2162.00	296.00	2163.35	2163.35	2163.64	298.09	2.23	74.91	17.14
	1360.000	.00	.00	.00	2162.00	375.00	2163.46	.00	2163.78	299.85	2.70	90.26	21.66
	70.000	370.00	.00	.00	2172.50	164.00	2173.68	.00	2173.84	280.34	3.20	51.41	9.79
	70.000	370.00	.00	.00	2172.50	252.00	2173.85	.00	2174.08	288.43	3.84	66.39	14.84
	70.000	370.00	.00	.00	2172.50	296.00	2173.95	.00	2174.20	278.77	4.05	74.12	17.73
	70.000	370.00	.00	.00	2172.50	375.00	2174.07	.00	2174.37	278.70	4.45	85.86	22.46
*	160.000	480.00	.00	.00	2180.20	164.00	2182.65	.00	2182.87	134.19	3.72	44.56	14.16
*	160.000	480.00	.00	.00	2180.20	252.00	2183.04	.00	2183.32	136.95	4.32	60.74	21.53
*	160.000	480.00	.00	.00	2180.20	296.00	2183.18	.00	2183.50	141.75	4.60	67.82	24.86
	160.000	480.00	.00	.00	2180.20	375.00	2183.43	.00	2183.80	145.00	4.98	80.81	31.14
	240.000	450.00	.00	.00	2187.40	164.00	2188.72	.00	2188.89	132.81	3.37	51.89	14.23
	240.000	450.00	.00	.00	2187.40	252.00	2189.05	.00	2189.26	126.43	3.89	70.29	22.41
	240.000	450.00	.00	.00	2187.40	296.00	2189.20	.00	2189.43	121.88	4.07	79.35	26.81
	240.000	450.00	.00	.00	2187.40	375.00	2189.43	.00	2189.70	118.21	4.40	94.23	34.49
*	260.000	80.00	.00	.00	2193.90	164.00	2195.40	2195.40	2195.80	399.82	7.08	34.33	8.20
*	260.000	80.00	.00	.00	2193.90	252.00	2195.70	2195.70	2196.17	388.01	7.86	48.05	12.79
*	260.000	80.00	.00	.00	2193.90	296.00	2195.82	2195.82	2196.33	380.60	8.15	54.70	15.17
*	260.000	80.00	.00	.00	2193.90	375.00	2196.03	2196.03	2196.57	364.13	8.53	66.59	19.65
*	280.000	70.00	.00	.00	2196.50	164.00	2208.59	.00	2208.59	.01	.15	1421.33	1564.08
*	280.000	70.00	.00	.00	2196.50	252.00	2209.08	.00	2209.08	.02	.21	1523.85	1722.14
*	280.000	70.00	.00	.00	2196.50	296.00	2209.21	.00	2209.21	.03	.25	1551.56	1765.45
*	280.000	70.00	.00	.00	2196.50	375.00	2209.41	.00	2209.41	.04	.30	1594.66	1833.28
*	290.000	70.00	.00	.00	2199.60	164.00	2208.59	.00	2208.59	.04	.23	826.06	826.22
*	290.000	70.00	.00	.00	2199.60	252.00	2209.08	.00	2209.08	.07	.32	887.84	922.13
*	290.000	70.00	.00	.00	2199.60	296.00	2209.21	.00	2209.21	.10	.37	904.35	948.32
*	290.000	70.00	.00	.00	2199.60	375.00	2209.41	.00	2209.41	.14	.46	929.92	989.34
*	410.000	620.00	.00	.00	2211.50	164.00	2213.43	2213.43	2213.86	367.02	5.29	32.59	8.56
*	410.000	620.00	.00	.00	2211.50	252.00	2213.73	2213.73	2214.25	357.56	5.97	45.15	13.33
*	410.000	620.00	.00	.00	2211.50	296.00	2213.86	2213.86	2214.42	346.78	6.19	51.10	15.90
*	410.000	620.00	.00	.00	2211.50	375.00	2214.05	2214.05	2214.70	356.27	6.70	59.63	19.87
	450.000	220.00	.00	.00	2219.50	164.00	2220.64	.00	2220.80	267.93	2.55	53.84	10.02
	450.000	220.00	.00	.00	2219.50	252.00	2220.81	.00	2221.01	259.37	3.13	73.54	15.65
	450.000	220.00	.00	.00	2219.50	296.00	2220.88	.00	2221.10	259.96	3.38	81.92	18.36
	450.000	220.00	.00	.00	2219.50	375.00	2221.02	.00	2221.25	244.11	3.69	97.82	24.00

	SECNO	XLCH	ELTRD	ELLC	ELMIN	O	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	460.000	50.00	.00	.00	2219.50	164.00	2225.88	.00	2225.88	.07	.23	758.91	621.89
*	460.000	50.00	.00	.00	2219.50	252.00	2226.55	.00	2226.55	.11	.31	862.12	756.36
*	460.000	50.00	.00	.00	2219.50	296.00	2226.73	.00	2226.73	.14	.35	890.33	794.52
*	460.000	50.00	.00	.00	2219.50	375.00	2227.00	.00	2227.00	.19	.43	933.06	853.43
*	480.000	130.00	.00	.00	2222.20	164.00	2225.88	.00	2225.89	3.90	1.09	170.15	83.01
*	480.000	130.00	.00	.00	2222.20	252.00	2226.54	.00	2226.57	4.13	1.29	223.94	124.06
*	480.000	130.00	.00	.00	2222.20	296.00	2226.72	.00	2226.75	4.70	1.42	239.24	136.50
*	480.000	130.00	.00	.00	2222.20	375.00	2226.99	.00	2227.03	5.75	1.64	262.82	156.43
*	570.000	480.00	.00	.00	2231.50	164.00	2233.58	2233.58	2234.12	367.88	6.13	28.96	8.55
*	570.000	480.00	.00	.00	2231.50	252.00	2233.98	2233.98	2234.63	315.26	6.80	40.97	14.19
*	570.000	480.00	.00	.00	2231.50	296.00	2234.14	2234.14	2234.84	306.41	7.11	46.12	16.91
*	570.000	480.00	.00	.00	2231.50	375.00	2234.40	2234.40	2235.19	294.95	7.61	55.05	21.84
	650.000	420.00	.00	.00	2244.80	164.00	2246.96	.00	2247.35	272.16	5.02	32.78	9.94
	650.000	420.00	.00	.00	2244.80	252.00	2247.26	2247.15	2247.84	313.70	6.14	41.68	14.23
	650.000	420.00	.00	.00	2244.80	296.00	2247.39	2247.34	2248.06	323.01	6.60	46.37	16.47
*	650.000	420.00	.00	.00	2244.80	375.00	2247.68	2247.68	2248.38	277.80	6.85	59.19	22.50
*	750.000	530.00	.00	.00	2260.70	164.00	2262.57	2262.57	2263.14	296.05	6.32	27.64	9.53
*	750.000	530.00	.00	.00	2260.70	252.00	2263.00	2263.00	2263.67	277.42	6.84	39.25	15.13
*	750.000	530.00	.00	.00	2260.70	296.00	2263.17	2263.17	2263.89	276.16	7.11	44.41	17.81
*	750.000	530.00	.00	.00	2260.70	375.00	2263.48	2263.48	2264.24	255.42	7.30	54.46	23.46
*	860.000	580.00	.00	.00	2281.20	164.00	2282.76	2282.76	2283.22	270.69	6.34	33.13	9.97
*	860.000	580.00	.00	.00	2281.20	252.00	2283.09	2283.09	2283.64	250.40	7.11	46.72	15.93
*	860.000	580.00	.00	.00	2281.20	296.00	2283.23	2283.23	2283.82	246.00	7.44	53.02	18.87
*	860.000	580.00	.00	.00	2281.20	375.00	2283.45	2283.45	2284.10	236.25	7.92	64.30	24.40
	960.000	530.00	.00	.00	2294.10	164.00	2297.38	2297.37	2298.20	286.30	7.26	22.60	9.69
*	960.000	530.00	.00	.00	2294.10	252.00	2297.98	2297.98	2298.96	273.55	7.98	31.62	15.24
*	960.000	530.00	.00	.00	2294.10	296.00	2298.28	2298.28	2299.28	242.39	8.06	37.47	19.01
*	960.000	530.00	.00	.00	2294.10	375.00	2298.74	2298.74	2299.76	206.33	8.18	49.28	26.11
	1070.000	580.00	.00	.00	2310.80	164.00	2312.70	.00	2313.13	231.81	5.31	30.88	10.77
	1070.000	580.00	.00	.00	2310.80	252.00	2313.07	.00	2313.62	232.87	5.96	42.29	16.51
	1070.000	580.00	.00	.00	2310.80	296.00	2313.18	2313.15	2313.83	258.44	6.46	45.83	18.41
*	1070.000	580.00	.00	.00	2310.80	375.00	2313.41	2313.41	2314.16	266.09	6.94	54.01	22.99
*	1120.000	260.00	.00	.00	2318.80	164.00	2321.41	2321.41	2321.73	342.69	4.29	37.65	8.86
*	1120.000	260.00	.00	.00	2318.80	252.00	2321.59	2321.59	2322.04	378.82	5.38	48.22	12.95
*	1120.000	260.00	.00	.00	2318.80	296.00	2321.71	2321.71	2322.18	346.58	5.63	55.10	15.90
*	1120.000	260.00	.00	.00	2318.80	375.00	2321.84	2321.84	2322.41	358.96	6.30	63.53	19.79
*	1190.000	370.00	.00	.00	2333.50	164.00	2335.58	2335.58	2336.15	291.68	6.02	27.29	9.60
*	1190.000	370.00	.00	.00	2333.50	252.00	2336.02	2336.02	2336.67	263.75	6.48	39.59	15.52
*	1190.000	370.00	.00	.00	2333.50	296.00	2336.25	2336.25	2336.87	225.85	6.39	49.17	19.70
*	1190.000	370.00	.00	.00	2333.50	375.00	2336.58	2336.58	2337.15	183.04	6.25	68.31	27.72

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1300.000	580.00	.00	.00	2350.40	164.00	2352.25	2352.23	2352.65	281.10	5.45	34.25	9.78
*	1300.000	580.00	.00	.00	2350.40	252.00	2352.57	2352.57	2353.04	260.96	5.94	48.76	15.60
*	1300.000	580.00	.00	.00	2350.40	296.00	2352.64	2352.64	2353.20	291.87	6.54	52.46	17.33
*	1300.000	580.00	.00	.00	2350.40	375.00	2352.86	2352.86	2353.47	263.43	6.91	64.66	23.10
*	1430.000	680.00	.00	.00	2371.00	164.00	2373.66	2373.66	2374.25	305.99	6.19	26.49	9.38
*	1430.000	680.00	.00	.00	2371.00	252.00	2374.09	2374.09	2374.79	288.35	6.72	37.49	14.84
*	1430.000	680.00	.00	.00	2371.00	296.00	2374.27	2374.27	2375.02	281.06	6.92	42.75	17.66
*	1430.000	680.00	.00	.00	2371.00	375.00	2374.54	2374.54	2375.38	277.76	7.34	51.07	22.50
	1510.000	460.00	.00	.00	2384.90	164.00	2386.86	.00	2387.26	262.73	5.21	32.63	10.12
	1510.000	460.00	.00	.00	2384.90	252.00	2387.16	.00	2387.67	272.82	5.87	44.45	15.26
	1510.000	460.00	.00	.00	2384.90	296.00	2387.30	.00	2387.86	278.04	6.16	49.81	17.75
	1510.000	460.00	.00	.00	2384.90	375.00	2387.52	2387.49	2388.15	278.23	6.53	59.50	22.48
*	1610.000	530.00	.00	.00	2401.50	164.00	2403.03	2403.03	2403.52	302.79	6.15	31.22	9.42
*	1610.000	530.00	.00	.00	2401.50	252.00	2403.38	2403.38	2403.99	270.89	6.96	43.69	15.31
*	1610.000	530.00	.00	.00	2401.50	296.00	2403.53	2403.53	2404.19	255.82	7.25	49.92	18.51
*	1610.000	530.00	.00	.00	2401.50	375.00	2403.78	2403.78	2404.51	242.48	7.76	60.18	24.08
*	1700.000	480.00	.00	.00	2417.20	164.00	2418.57	2418.57	2419.01	329.08	5.48	31.98	9.04
*	1700.000	480.00	.00	.00	2417.20	252.00	2418.87	2418.87	2419.42	286.20	6.21	44.38	14.90
*	1700.000	480.00	.00	.00	2417.20	296.00	2419.01	2419.01	2419.60	267.80	6.47	50.73	18.09
*	1700.000	480.00	.00	.00	2417.20	375.00	2419.23	2419.23	2419.89	247.46	6.90	61.68	23.84
*	1750.000	260.00	.00	.00	2426.60	164.00	2427.75	2427.75	2428.17	280.28	5.54	34.30	9.80
*	1750.000	260.00	.00	.00	2426.60	252.00	2428.05	2428.05	2428.56	249.57	6.23	48.47	15.95
*	1750.000	260.00	.00	.00	2426.60	296.00	2428.19	2428.19	2428.73	234.93	6.46	55.44	19.31
*	1750.000	260.00	.00	.00	2426.60	375.00	2428.39	2428.39	2429.00	225.37	6.90	66.42	24.98

LLO WASH, TRIB.3

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1360.000	164.00	2163.08	.00	.00	.00	109.98	.00
*	1360.000	252.00	2163.28	.20	.00	-.00	121.73	.00
	1360.000	296.00	2163.35	.07	.00	-.01	125.75	.00
	1360.000	375.00	2163.46	.12	.00	.01	132.88	.00
	70.000	164.00	2173.68	.00	10.60	.00	87.30	370.00
	70.000	252.00	2173.85	.17	10.57	.00	89.20	370.00
	70.000	296.00	2173.95	.09	10.60	.00	90.17	370.00
	70.000	375.00	2174.07	.12	10.60	.00	91.61	370.00
*	160.000	164.00	2182.65	.00	8.97	.00	38.17	480.00
*	160.000	252.00	2183.04	.38	9.18	.00	46.83	480.00
*	160.000	296.00	2183.18	.14	9.24	.00	50.14	480.00
	160.000	375.00	2183.43	.25	9.36	.00	55.72	480.00
	240.000	164.00	2188.72	.00	6.07	.00	54.49	450.00
	240.000	252.00	2189.05	.32	6.01	.00	59.43	450.00
	240.000	296.00	2189.20	.15	6.02	.00	61.71	450.00
	240.000	375.00	2189.43	.24	6.00	.00	65.29	450.00
*	260.000	164.00	2195.40	.00	6.68	.00	42.73	80.00
*	260.000	252.00	2195.70	.29	6.65	.00	50.75	80.00
*	260.000	296.00	2195.82	.13	6.63	.00	54.42	80.00
*	260.000	375.00	2196.03	.21	6.60	.00	60.43	80.00
*	280.000	164.00	2208.59	.00	13.19	.00	205.98	70.00
*	280.000	252.00	2209.08	.49	13.38	.00	212.48	70.00
*	280.000	296.00	2209.21	.13	13.39	.00	214.20	70.00
*	280.000	375.00	2209.41	.20	13.38	.00	216.86	70.00
*	290.000	164.00	2208.59	.00	.00	.00	125.10	70.00
*	290.000	252.00	2209.08	.49	.00	.00	127.08	70.00
*	290.000	296.00	2209.21	.13	.00	.00	127.61	70.00
*	290.000	375.00	2209.41	.20	.00	.00	128.42	70.00
*	410.000	164.00	2213.43	.00	4.84	.00	41.72	620.00
*	410.000	252.00	2213.73	.29	4.65	.00	43.66	620.00
*	410.000	296.00	2213.86	.14	4.65	.00	44.55	620.00
*	410.000	375.00	2214.05	.19	4.64	.00	45.80	620.00
	450.000	164.00	2220.64	.00	7.20	.00	112.37	220.00
	450.000	252.00	2220.81	.17	7.08	.00	115.96	220.00
	450.000	296.00	2220.88	.07	7.02	.00	117.46	220.00
	450.000	375.00	2221.02	.14	6.96	.00	120.02	220.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	460.000	164.00	2225.88	.00	5.24	.00	151.81	50.00
*	460.000	252.00	2226.55	.67	5.74	.00	156.19	50.00
*	460.000	296.00	2226.73	.18	5.85	.00	157.37	50.00
*	460.000	375.00	2227.00	.27	5.98	.00	159.13	50.00
*	480.000	164.00	2225.88	.00	-.00	.00	76.45	130.00
*	480.000	252.00	2226.54	.67	-.01	.00	84.23	130.00
*	480.000	296.00	2226.72	.18	-.01	.00	86.32	130.00
*	480.000	375.00	2226.99	.27	-.01	.00	88.96	130.00
*	570.000	164.00	2233.58	.00	7.70	.00	27.78	480.00
*	570.000	252.00	2233.98	.41	7.44	.00	31.62	480.00
*	570.000	296.00	2234.14	.16	7.42	.00	33.36	480.00
*	570.000	375.00	2234.40	.26	7.41	.00	36.16	480.00
	650.000	164.00	2246.96	.00	13.38	.00	27.81	420.00
	650.000	252.00	2247.26	.30	13.28	.00	34.10	420.00
	650.000	296.00	2247.39	.13	13.25	.00	38.53	420.00
*	650.000	375.00	2247.68	.29	13.28	.00	46.74	420.00
*	750.000	164.00	2262.57	.00	15.61	.00	24.51	530.00
*	750.000	252.00	2263.00	.43	15.74	.00	29.25	530.00
*	750.000	296.00	2263.17	.17	15.78	.00	31.12	530.00
*	750.000	375.00	2263.48	.31	15.80	.00	34.47	530.00
*	860.000	164.00	2282.76	.00	20.20	.00	38.25	580.00
*	860.000	252.00	2283.09	.33	20.09	.00	44.67	580.00
*	860.000	296.00	2283.23	.14	20.06	.00	47.36	580.00
*	860.000	375.00	2283.45	.23	19.98	.00	51.82	580.00
	960.000	164.00	2297.38	.00	14.62	.00	13.79	530.00
*	960.000	252.00	2297.98	.60	14.89	.00	17.13	530.00
*	960.000	296.00	2298.28	.30	15.05	.00	21.73	530.00
*	960.000	375.00	2298.74	.47	15.29	.00	28.86	530.00
	1070.000	164.00	2312.70	.00	15.32	.00	28.10	580.00
	1070.000	252.00	2313.07	.38	15.10	.00	32.48	580.00
	1070.000	296.00	2313.18	.11	14.91	.00	33.72	580.00
*	1070.000	375.00	2313.41	.23	14.67	.00	36.43	580.00
*	1120.000	164.00	2321.41	.00	8.72	.00	57.82	260.00
*	1120.000	252.00	2321.59	.18	8.52	.00	60.05	260.00
*	1120.000	296.00	2321.71	.11	8.53	.00	61.46	260.00
*	1120.000	375.00	2321.84	.14	8.43	.00	63.14	260.00
*	1190.000	164.00	2335.58	.00	14.17	.00	24.70	370.00
*	1190.000	252.00	2336.02	.43	14.42	.00	35.60	370.00
*	1190.000	296.00	2336.25	.23	14.54	.00	48.27	370.00
*	1190.000	375.00	2336.58	.34	14.74	.00	63.07	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1300.000	164.00	2352.25	.00	16.66	.00	41.03	580.00
*	1300.000	252.00	2352.57	.32	16.55	.00	49.80	580.00
*	1300.000	296.00	2352.64	.07	16.39	.00	52.29	580.00
*	1300.000	375.00	2352.86	.22	16.28	.00	59.78	580.00
*	1430.000	164.00	2373.66	.00	21.41	.00	23.10	680.00
*	1430.000	252.00	2374.09	.43	21.52	.00	27.69	680.00
*	1430.000	296.00	2374.27	.18	21.63	.00	29.64	680.00
*	1430.000	375.00	2374.54	.27	21.68	.00	32.48	680.00
	1510.000	164.00	2386.86	.00	13.20	.00	33.83	460.00
	1510.000	252.00	2387.16	.31	13.07	.00	39.59	460.00
	1510.000	296.00	2387.30	.14	13.02	.00	41.94	460.00
	1510.000	375.00	2387.52	.22	12.98	.00	45.89	460.00
*	1610.000	164.00	2403.03	.00	16.18	.00	34.20	530.00
*	1610.000	252.00	2403.38	.34	16.21	.00	38.35	530.00
*	1610.000	296.00	2403.53	.16	16.24	.00	40.27	530.00
*	1610.000	375.00	2403.78	.25	16.26	.00	43.24	530.00
*	1700.000	164.00	2418.57	.00	15.54	.00	39.59	480.00
*	1700.000	252.00	2418.87	.30	15.50	.00	44.54	480.00
*	1700.000	296.00	2419.01	.14	15.48	.00	47.46	480.00
*	1700.000	375.00	2419.23	.22	15.45	.00	52.12	480.00
*	1750.000	164.00	2427.75	.00	9.18	.00	43.97	260.00
*	1750.000	252.00	2428.05	.30	9.18	.00	49.98	260.00
*	1750.000	296.00	2428.19	.14	9.18	.00	52.48	260.00
*	1750.000	375.00	2428.39	.20	9.16	.00	56.04	260.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  2  CRITICAL DEPTH ASSUMED

WARNING SECNO=    160.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    280.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  4  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    290.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    460.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=    460.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  4  WSEL BASED ON X5 CARD
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CAUTION SECNO=   1610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1610.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1610.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   1700.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1700.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1700.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1750.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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*  WATER SURFACE PROFILES                          *
*  VERSION OF SEPTEMBER 1988                       *
*  ERROR: 01,02,03                                 *
*  UPDATED:  SEPTEMBER 1989                        *
*  RUN DATE    4/ 3/90    TIME    13: 6:27         *
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*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*          (916) 756-1104
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 4/ 3/90 13: 6:27

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
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T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2       100-YR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3       OCOTILLO TRIB.3          (OCT3.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2163.08

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

QT       2       296       296
NC    .055      .055      .055        .1        .3
ET                        4.1    9913.3   10246.9
         THIS ENCROACHMENT FILE IS BASED ON A PREVIOUS HEC-2 MODEL OF
         NATURAL CONDITIONS.  REFER TO FILE OCT3.OUT (CH2M HILL, 1990)

X1     1360        24    9950.0   10020.0
GR   2184.0    9870.0    2180.0    9885.0    2172.0    9900.0    2168.0    9905.0    2164.0    9910.0
GR   2163.0    9915.0    2164.0    9925.0    2164.0    9950.0    2163.0    9960.0    2163.0   10015.0
GR   2164.0   10020.0    2164.0   10180.0    2162.0   10200.0    2162.0   10220.0    2164.0   10260.0
GR   2168.0   10370.0    2176.0   10400.0    2177.0   10430.0    2176.0   10460.0    2172.0   10490.0
GR   2172.0   10510.0    2176.0   10520.0    2180.0   10560.0    2182.0   10580.0

ET                        4.1    9937.34    10025.9
X1       70        15    9945.2   10024.4       270       250       260
GR   2190.0    9853.7    2191.2    9869.5    2184.4    9897.0    2175.4    9927.6    2172.5    9945.2
GR   2173.0    9969.9    2173.0    9974.0    2173.4    9990.3    2173.1   10000.0    2173.5   10024.4
GR   2175.6   10035.2    2184.3   10077.2    2187.7   10102.7    2189.0   10133.0    2188.6   10133.5
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ET			4.1	9956.9	10010.9					
X1	160	16	9974.1	10014.9	490	470	480			
GR	2197.2	9837.7	2193.7	9865.3	2192.5	9901.1	2185.8	9915.8	2184.8	9930.7
GR	2182.4	9974.1	2180.2	9996.3	2181.0	10000.0	2184.2	10014.9	2185.1	10022.0
GR	2185.8	10043.9	2188.4	10070.6	2195.1	10108.7	2199.7	10145.7	2201.2	10184.1
GR	2200.6	10200.0								
NC	.055	.055	.055	.3	.5					
ET			4.1	9987.5	10042.4					
X1	240	15	10000.0	10039.5	285	285	285		-4.5	
GR	2213.0	9864.9	2209.8	9881.7	2195.7	9916.1	2196.4	9938.2	2194.6	9969.9
GR	2192.3	10000.0	2191.9	10039.5	2195.5	10047.4	2202.9	10057.5	2206.5	10077.0
GR	2207.4	10101.8	2208.7	10118.0	2209.5	10131.7	2200.6	10161.3	2194.7	10180.8
ET			4.1	9980.0	10026.0					
X1	260	14	10021.3	10024.3	240	240	240			
GR	2212.8	9790.9	2213.2	9818.9	2210.4	9853.6	2203.2	9885.5	2200.4	9913.0
GR	2196.1	9964.0	2193.9	10021.3	2193.9	10024.3	2195.6	10025.0	2204.1	10050.4
GR	2208.4	10076.4	2209.7	10101.5	2208.0	10115.1	2199.8	10138.0		
ET			4.1	9975.0	10060.0					
X1	280				50	50	50		2.6	
X5	2	2209.40	2209.40							
ET			4.1	9965.0	10065.0					
X1	290	14	9966.1	10000.0	60	60	60			
[illegible]	2219.1	9894.6	2217.7	9920.1	2211.9	9935.2	2203.6	9947.8	2199.6	9966.1
[illegible]	2200.2	9987.3	2199.8	10000.0	2201.4	10019.1	2203.8	10053.2	2210.2	10069.4
GR	2212.5	10095.0	2217.2	10123.4	2219.9	10167.0	2221.0	10185.3		
ET			4.1	9986.9	10031.3					
X1	410	14	10000.0	10033.2	635	635	635			
GR	2232.7	9884.4	2233.5	9929.3	2232.7	9946.4	2229.7	9963.2	2224.8	9973.8
GR	2213.3	9987.5	2213.2	10000.0	2211.5	10018.6	2214.2	10033.2	2214.8	10057.1
GR	2216.3	10083.8	2215.8	10084.6	2224.3	10107.4	2231.7	10119.6		
ET			4.1	9920.8	10020.0					
X1	450	15	9986.7	10000.0	210	210	210			
GR	2235.5	9834.9	2234.8	9850.8	2228.2	9880.2	2221.0	9912.7	2219.5	9940.9
GR	2220.2	9969.1	2220.2	9986.7	2220.2	10000.0	2220.6	10015.5	2220.4	10031.4
GR	2229.2	10049.2	2229.3	10085.3	2232.7	10099.5	2238.0	10125.2	2239.9	10149.1
ET			4.1	9920.0	10030.0					
X1	460				30	30	30			
X5	2	2226.95	2226.95							
ET			4.1	9960.2	10030.0					
X1	480	13	10000.0	10027.5	110	110	110			
GR	2241.7	9891.3	2241.1	9907.7	2235.1	9928.1	2226.9	9954.7	2224.7	9973.0
GR	2222.5	10000.0	2223.5	10018.1	2222.2	10027.5	2227.1	10043.7	2230.5	10072.9
GR	2234.6	10098.1	2240.5	10116.7	2242.1	10135.7				

NC	.055	.055	.055	.1	.3					
ET			4.1	9985.5	10018.8					
X1	570	10	10000.0	10018.4	480	480	480			
GR	2252.4	9911.8	2244.9	9937.5	2236.5	9961.0	2233.9	9988.0	2232.5	10000.0
GR	2231.5	10005.8	2233.3	10018.4	2234.4	10019.0	2245.8	10042.8	2250.6	10067.0
ET			4.1	9991.1	10029.3					
X1	650	11	10000.0	10027.7	420	420	420			
GR	2263.4	9867.7	2263.2	9918.9	2261.0	9932.6	2250.1	9964.7	2247.6	9983.8
GR	2247.1	10000.0	2244.8	10012.2	2246.5	10027.7	2260.2	10053.8	2264.0	10101.9
GR	2263.6	10108.9								
NC	.055	.055	.045							
ET			4.1	9983.8	10014.9					
X1	750	16	9975.6	10007.4	530	530	530			
GR	2278.3	9840.0	2276.4	9926.4	2273.8	9948.9	2264.4	9973.5	2264.2	9975.6
GR	2261.3	9998.6	2260.7	10000.0	2260.7	10007.4	2263.3	10015.3	2267.2	10026.9
GR	2269.5	10035.0	2273.2	10053.7	2274.4	10067.5	2273.7	10089.4	2275.1	10093.9
GR	2275.4	10126.6								
ET			4.1	9988.0	10035.3					
X1	860	10	10000.0	10011.1	560	590	580			
GR	2291.1	9848.0	2290.9	9908.6	2286.3	9960.4	2283.7	9984.0	2281.8	10000.0
GR	2281.2	10011.1	2282.3	10025.0	2286.2	10068.6	2289.6	10131.7	2289.4	10139.0
ET			4.1	9983.3	10004.8					
[illegible]	960	16	9981.4	10000.0	540	550	530			
[illegible]	2303.1	9846.2	2304.9	9900.1	2304.4	9916.7	2301.6	9952.0	2300.4	9960.4
GR	2299.1	9981.4	2294.1	9992.3	2297.9	10000.0	2299.2	10017.0	2299.1	10026.2
GR	2304.5	10054.2	2306.1	10061.6	2306.4	10095.5	2304.9	10110.8	2308.8	10129.6
GR	2308.4	10191.0								
ET			4.1	9985.6	10019.3					
X1	1070	12	9974.8	10031.0	600	560	580			
GR	2321.3	9827.9	2320.0	9883.3	2316.8	9909.4	2314.8	9944.2	2314.5	9972.5
GR	2314.6	9974.8	2311.3	10000.0	2310.8	10009.9	2316.1	10031.0	2318.8	10042.2
GR	2319.4	10090.0	2319.2	10132.0						
ET			4.1	9990.8	10052.2					
X1	1120	20	9996.5	10037.5	250	260	260			
GR	2329.7	9736.7	2330.0	9807.0	2328.7	9848.4	2327.5	9868.6	2328.2	9879.1
GR	2328.5	9916.7	2325.9	9945.3	2326.0	9953.8	2325.4	9970.6	2323.0	9988.2
GR	2318.8	9996.5	2320.7	10000.0	2321.1	10015.9	2321.1	10028.5	2320.3	10037.5
GR	2322.5	10060.5	2327.0	10069.6	2327.2	10125.0	2329.5	10186.9	2332.4	10305.1
ET			4.1	9963.2	10022.9					
X1	1190	11	9992.6	10027.6	370	370	370			
GR	2338.0	9926.6	2338.3	9960.7	2335.4	9964.1	2336.5	9966.2	2335.9	9992.6
GR	2333.5	9998.0	2333.5	10000.0	2336.8	10027.6	2337.7	10039.6	2339.0	10077.8
GR	2340.5	10131.9								

ET			4.1	9997.1	10049.3					
X1	1300	9	10000.0	10027.0	560	540	580			
GR	2356.8	9863.0	2353.8	9973.0	2352.5	10000.0	2350.4	10024.7	2351.0	10027.0
GR	2353.3	10058.3	2354.8	10078.8	2355.4	10106.1	2356.1	10145.0		
ET			4.1	9988.8	10018.3					
X1	1430	17	9984.9	10020.2	670	660	680			
GR	2380.4	9740.9	2379.9	9814.9	2378.1	9835.3	2378.9	9871.0	2378.0	9896.4
GR	2379.5	9929.2	2379.0	9948.8	2374.7	9956.1	2376.1	9958.4	2375.8	9984.9
GR	2371.0	9997.0	2372.0	10000.0	2374.5	10020.2	2377.4	10044.2	2377.6	10055.9
GR	2378.2	10090.5	2378.3	10128.4						
ET			4.1	9992.9	10034.8					
X1	1510	8	10000.0	10052.7	440	450	460			
GR	2393.7	9897.9	2393.7	9923.8	2392.8	9957.5	2391.0	9981.9	2384.9	10000.0
GR	2386.2	10018.4	2388.5	10052.7	2389.8	10106.2				
ET			4.1	9983.6	10023.8					
X1	1610	14	10000.0	10017.7	520	540	530			
GR	2405.2	9785.0	2406.7	9814.6	2404.0	9842.8	2404.5	9885.6	2406.0	9947.2
GR	2404.8	9973.4	2401.5	10000.0	2402.0	10005.4	2402.0	10017.7	2406.5	10035.8
GR	2407.3	10059.9	2407.7	10101.7	2408.8	10152.2	2409.3	10153.7		
ET			4.1	9988.4	10132.6					
X1	1700	13	10000.0	10029.4	490	470	480			
GR	2422.1	9818.6	2422.3	9860.5	2421.2	9903.1	2421.0	9957.2	2420.3	9980.4
GR	2417.2	10000.0	2418.2	10029.4	2418.7	10031.4	2420.9	10064.1	2419.9	10110.6
GR	2418.7	10127.6	2420.5	10154.8	2420.4	10182.7				
ET			4.1	9987.1	10039.5					
X1	1750	9	10000.0	10024.5	260	280	260			
GR	2429.8	9827.0	2429.1	9909.0	2430.3	9967.3	2429.5	9979.3	2428.1	9987.6
GR	2426.6	10000.0	2426.9	10024.5	2430.4	10065.3	2433.0	10142.2		

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1



CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
        THIS ENCROACHMENT FILE IS BASED ON A PREVIOUS HEC-2 MODEL OF
        NATURAL CONDITIONS.  REFER TO FILE OCT3.OUT (CH2M HILL, 1990)

 1360.000     1.34  2163.34  2163.34  2163.08  2163.64      .29      .00      .00  2164.00
    296.       1.      44.     250.       1.      20.      54.       0.       0.   2164.00
     .00     1.44     2.23     4.64     .055     .055     .055     .000  2162.00  9913.28
  .029988      0.       0.       0.        0       10        0      .00   125.67 10246.89


*SECNO 70.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     1.30  2173.80  2173.80      .00  2174.16      .36     9.85      .02  2172.50
    296.      23.     273.       0.       5.      56.       0.       0.       1.   2173.50
     .01     4.53     4.85     1.68     .055     .055     .055     .000  2172.50  9937.34
  .051028     270.     260.     250.        5       11        0      .00    88.58 10025.92


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

  160.000     3.15  2183.35      .00      .00  2183.60      .25     9.43      .01  2182.40
    296.      14.     282.       0.       8.      69.       0.       1.       1.   2184.20
     .05     1.67     4.12      .00     .055     .055     .000     .000  2180.20  9956.91
  .010312     490.     480.     470.        8        0        0      .00    54.04 10010.95


CCHV=     .300 CEHV=     .500
*SECNO 240.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  240.000     1.36  2188.76  2188.76      .00  2189.26      .50     5.12      .13  2187.80
    296.      20.     269.       8.       6.      46.       2.       2.       2.   2187.40
     .06     3.25     5.87     3.86     .055     .055     .055     .000  2187.40  9987.47
  .038880     285.     285.     285.        4       14        0      .00    55.01 10042.48
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS   BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA   LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN      SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID     ENDST


*SECNO 260.000
  260.000     2.12  2196.02       .00       .00  2196.36       .34      7.05       .05  2193.90
     296.      250.      43.        3.       59.        6.        1.        2.        2.   2193.90
      .08     4.26      6.77      2.27      .055      .055      .055      .000  2193.90  9965.99
  .022979     240.      240.      240.         3         0         0       .00    60.28 10026.27


*SECNO 280.000
 WATER EL=X5 CARD=   2209.400

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      7.00 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 93.71

  280.000    12.90  2209.40       .00       .00  2209.40       .00       .00       .10  2196.50
     296.      252.       9.       35.     1278.       39.      275.        3.        2.   2196.50
      .15       .20       .24       .13      .055      .055      .055      .000  2196.50  9869.55
  .000003       50.       50.       50.         0         0         0       .00   216.72 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

  290.000     9.80  2209.40       .00       .00  2209.40       .00       .00       .00  2199.60
     296.       49.      116.      131.      168.      321.      440.        5.        2.   2199.80
      .20       .29       .36       .30      .055      .055      .055      .000  2199.60  9939.00
  .000009       60.       60.       60.         2         0         0       .00   128.38 10067.38


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.35  2213.85  2213.85       .00  2214.42       .57       .02       .28  2213.20
     296.       28.      268.        0.        8.       43.        0.       12.        4.   2214.20
      .23     3.59      6.25       .00      .055      .055      .000      .000  2211.50  9986.84
  .035626      635.      635.      635.       20        17         0       .00    44.48 10031.32
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      ARCB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 450.000
  450.000     1.37  2220.87      .00      .00  2221.09      .22     6.57      .10  2220.20
     296.     232.      30.      33.      58.       9.      13.      12.       4.   2220.20
      .25     4.00     3.43     2.51     .055     .055     .055     .000  2219.50  9915.19
  .027690     210.     210.     210.        4        0        0      .00   117.15 10032.35


*SECNO 460.000
 WATER EL=X5 CARD=   2226.950

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 47.36

  460.000     7.45  2226.95      .00      .00  2226.95      .00      .00      .07  2220.20
     296.     190.      30.      76.     588.      90.     247.      12.       4.   2220.20
      .27      .32      .34      .31     .055     .055     .055     .000  2219.50  9885.84
  .000012      30.      30.      30.        0        0        0      .00   158.81 10044.65


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .18

  480.000     4.74  2226.94      .00      .00  2226.97      .02      .00      .01  2222.50
     296.     118.     145.      34.     111.     110.      37.      14.       5.   2222.20
      .30     1.06     1.32      .91     .055     .055     .055     .000  2222.20  9954.55
  .000376     110.     110.     110.        2        0        0      .00    88.64 10043.19


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.65  2234.15  2234.15      .00  2234.84      .69      .58      .20  2232.50
     296.      52.     244.       0.      12.      34.       0.      16.       5.   2233.30
      .32     4.42     7.08     1.62     .055     .055     .055     .000  2231.50  9985.43
  .030186     480.     480.     480.       20       11        0      .00    33.43 10018.86
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 650.000
 650.000     2.58  2247.38  2247.34       .00  2248.05       .67     13.21       .00  2247.10
    296.       2.     292.       2.        1.      44.        1.       16.        6.   2246.50
     .34     1.30      6.63     2.60      .055     .055      .055      .000  2244.80  9991.07
 .032793     420.     420.     420.         7       11         0       .00    38.30 10029.37


*SECNO 750.000
 750.000     2.48  2263.18  2263.17       .00  2263.89       .72     15.83       .01  2264.20
    296.       0.     250.      46.        0.      35.        9.       17.        6.   2260.70
     .36      .00      7.07     4.97      .000     .045      .055      .000  2260.70  9983.73
 .027307     530.     530.     530.         7        8         0       .00    31.19 10014.92


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 860.000     2.03  2283.23  2283.23       .00  2283.82       .59     15.05       .01  2281.80
    296.      29.     143.     125.        9.      19.       25.       17.        7.   2281.20
     .39     3.36      7.44     4.92      .055     .045      .055      .000  2281.20  9987.98
 .024529     560.     580.     590.         4       15         0       .00    47.38 10035.36


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 960.000     4.18  2298.28  2298.28       .00  2299.28      1.01     13.03       .12  2299.10
    296.       0.     295.       1.        0.      37.        1.       18.        7.   2297.90
     .40      .00      8.06     1.38      .000     .045      .055      .000  2294.10  9983.19
 .024222     540.     530.     550.         3       17         0       .00    21.74 10004.94


*SECNO 1070.000
1070.000     2.38  2313.18  2313.15       .00  2313.83       .65     14.51       .04  2314.60
    296.       0.     296.       0.        0.      46.        0.       18.        7.   2316.10
     .43      .00      6.46      .00      .000     .045      .000      .000  2310.80  9985.65
 .025856     600.     580.     560.         6       11         0       .00    33.72 10019.37


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1120.000     2.91  2321.71  2321.71       .00  2322.18       .47      7.70       .02  2318.80
    296.      50.     205.      41.        8.      36.       10.       19.        8.   2320.30
     .44     5.97      5.63     3.96      .055     .045      .055      .000  2318.80  9990.75
 .034541     250.     260.     260.        14       11         0       .00    61.47 10052.22
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1190.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     2.75  2336.25  2336.25      .00  2336.87      .62    10.21      .05  2335.90
    296.       6.     290.       0.       4.      45.       0.      19.       8.   2336.80
     .46     1.49     6.39      .00     .055     .045     .000     .000  2333.50  9963.11
  .022539    370.     370.     370.        9        8        0      .00    48.33 10022.99


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     2.24  2352.64  2352.64      .00  2353.20      .56    14.69      .01  2352.50
    296.       0.     222.      74.       0.      34.      18.      20.       9.   2351.00
     .49      .79     6.54     4.04     .055     .045     .055     .000  2350.40  9997.06
  .029227    560.     580.     540.        4       15        0      .00    52.27 10049.34


*SECNO 1430.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.27  2374.27  2374.27      .00  2375.02      .75    19.43      .06  2375.80
    296.       0.     296.       0.       0.      43.       0.      20.       9.   2374.50
     .51      .00     6.93      .00     .000     .045     .000     .000  2371.00  9988.75
  .028156    670.     680.     660.        4       14        0      .00    29.63 10018.37


*SECNO 1510.000
 1510.000     2.40  2387.30      .00      .00  2387.86      .56    12.82      .02  2384.90
    296.      42.     254.       0.       9.      41.       0.      21.      10.   2388.50
     .53     4.91     6.15      .00     .055     .045     .000     .000  2384.90  9992.87
  .027757    440.     460.     450.        5        0        0      .00    41.96 10034.83


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     2.03  2403.53  2403.53      .00  2404.19      .65    14.07      .03  2401.50
    296.      73.     207.      17.      17.      29.       5.      22.      10.   2402.00
     .56     4.35     7.25     3.55     .055     .045     .055     .000  2401.50  9983.60
  .025582    520.     530.     540.       20       12        0      .00    40.27 10023.87
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EC        HV        HL        OLOSS     BANK ELEV
Q         OLOB      OCH       OROB      ALOB      ACH       ARHO      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1700.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000      1.83  2419.03  2419.03       .00  2419.58       .55     12.12       .01  2417.20
     296.       42.      247.       7.       11.      39.       4.       22.       11.   2418.20
      .58      3.98      6.30      1.81     .055     .045     .055      .000  2417.20  9988.40
  .024752      490.      480.      470.        4       11        0       .00    57.78 10132.66


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000      1.59  2428.19  2428.19       .00  2428.73       .54      6.31       .00  2426.60
     296.       38.      228.      30.       10.      35.      10.       22.       11.   2426.90
      .59      3.67      6.47      3.09     .055     .045     .055      .000  2426.60  9987.07
  .023602      260.      260.      280.        4       15        0       .00    52.45 10039.52
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      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2    100-YR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3    OCOTILLO TRIB. 3        (OCT3.MCE)

J1  ICHECK    INO      NINV     IDIR     STRT     METRIC   NVINS    Q        WSEL     FQ

              3                                                      2164.08

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2



CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3470 ENCROACHMENT STATIONS=     9913.3   10246.9  TYPE=      1  TARGET=      333.601
        THIS ENCROACHMENT FILE IS BASED ON A PREVIOUS HEC-2 MODEL OF
        NATURAL CONDITIONS.  REFER TO FILE OCT3.OUT (CH2M HILL, 1990)

 1360.000     2.08  2164.08      .00  2163.34  2164.12      .04      .00      .00  2164.00
    296.       8.      93.     195.       9.      68.     114.       0.       0.   2164.00
     .00      .83     1.37     1.71     .055     .055     .055     .000  2162.00  9913.30
  .002675      0.       0.       0.        0        0        0      .00   333.60 10246.90


*SECNO 70.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

 0 ENCROACHMENT STATIONS=     9937.3   10025.9  TYPE=      1  TARGET=       88.561
   70.000     1.30  2173.80  2173.80  2173.80  2174.16      .36     1.82      .10  2172.50
    296.      23.     273.       0.       5.      56.       0.       1.       1.   2173.50
     .01     4.53     4.85     1.69     .055     .055     .055     .000  2172.50  9937.34
  .051086    270.     260.     250.       20       14        0      .00    88.56 10025.90


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23


3470 ENCROACHMENT STATIONS=     9956.9   10010.9  TYPE=      1  TARGET=       54.000
  160.000     3.14  2183.34      .00  2183.35  2183.60      .25     9.43      .01  2182.40
    296.      14.     282.       0.       8.      69.       0.       2.       2. 100000.00
     .05     1.67     4.12      .00     .055     .055     .000     .000  2180.20  9956.91
  .010299    490.     480.     470.        7        0        0      .00    53.99 10010.90


CCHV=     .300 CEHV=     .500
*SECNO 240.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3280 CROSS SECTION    240.00 EXTENDED      3.07 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9987.5   10042.4  TYPE=      1  TARGET=       54.900
  240.000     1.37  2188.77  2188.77  2188.76  2189.26      .49     5.04      .12  2187.80
     296.      20.     268.       8.       6.      46.       2.       2.       2.   2187.40
      .06     3.25     5.79     3.86     .055     .055     .055     .000  2187.40  9987.50
  .037209     285.     285.     285.        4       14        0      .00    54.90 10042.40


*SECNO 260.000

3470 ENCROACHMENT STATIONS=     9980.0   10026.0  TYPE=      1  TARGET=       46.000
  260.000     2.05  2195.95      .00  2196.02  2196.36      .41     7.08      .02  2193.90
     296.     252.      42.       2.      52.       6.       1.       2.       3.   2193.90
      .08     4.84     6.76     2.27     .055     .055     .055     .000  2193.90  9980.00
  .023962     240.     240.     240.        5        0        0      .00    46.00 10026.00


*SECNO 280.000
 TER EL=X5 CARD=   2209.400
 CROSS SECTION    280.00 EXTENDED      7.00 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 48.16


3470 ENCROACHMENT STATIONS=     9975.0   10060.0  TYPE=      1  TARGET=       85.000
  280.000    12.90  2209.40      .00  2209.40  2209.40      .00      .00      .12  2196.50
     296.     219.      18.      58.     556.      39.     203.       3.       3.   2196.50
      .11      .39      .48      .29     .055     .055     .055     .000  2196.50  9975.00
  .000010      50.      50.      50.        0        0        0      .00    85.00 10060.00


*SECNO 290.000

3470 ENCROACHMENT STATIONS=     9965.0   10065.0  TYPE=      1  TARGET=      100.000
  290.000     9.80  2209.40      .00  2209.40  2209.40      .00      .00      .00  2199.60
     296.       1.     138.     157.      11.     321.     439.       4.       3.   2199.80
      .15      .10      .43      .36     .055     .055     .055     .000  2199.60  9965.00
  .000013      60.      60.      60.        2        0        0      .00   100.00 10065.00
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCh     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONV    CORAR    TOPWID     ENDST


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.9   10031.3  TYPE=      1  TARGET=       44.399
  410.000     2.35  2213.85  2213.85  2213.85  2214.42      .58      .03      .29  2213.20
     296.      27.     269.       0.       8.      43.       0.      10.       4. 100000.00
      .18     3.60     6.29      .00     .055     .055     .000     .000  2211.50  9986.90
  .036292     635.     635.     635.       20       17        0      .00    44.38 10031.28


*SECNO 450.000

3470 ENCROACHMENT STATIONS=     9920.8   10020.0  TYPE=      1  TARGET=       99.200
  450.000     1.38  2220.88      .00  2220.87  2221.13      .25     6.60      .10  2220.20
     296.     242.      31.      23.      58.       9.       9.      10.       4.   2220.20
      .20     4.16     3.47     2.62     .055     .055     .055     .000  2219.50  9920.80
  .027519     210.     210.     210.        5        0        0      .00    99.20 10020.00


*SECNO 460.000
 WATER EL=X5 CARD=   2226.950

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 38.30


3470 ENCROACHMENT STATIONS=     9920.0   10030.0  TYPE=      1  TARGET=      110.000
  460.000     7.45  2226.95      .00  2226.95  2226.95      .00      .00      .07  2220.20
     296.     187.      38.      71.     463.      90.     195.      10.       4.   2220.20
      .22      .40      .42      .36     .055     .055     .055     .000  2219.50  9920.00
  .000019      30.      30.      30.        0        0        0      .00   110.00 10030.00


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .20


3470 ENCROACHMENT STATIONS=     9960.2   10030.0  TYPE=      1  TARGET=       69.800
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        OLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONV    CORAR    TOPWID     ENDST

 480.000     4.74  2226.94      .00  2226.94  2226.97      .03      .01      .01  2222.50
    296.     129.     158.       9.     109.     110.      11.      12.       5.   2222.20
     .24     1.18     1.44      .80     .055     .055     .055     .000  2222.20  9960.20
 .000450     110.     110.     110.        2        0        0      .00    69.80 10030.00


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9985.5   10018.8  TYPE=      1  TARGET=       33.300
 570.000     2.65  2234.15  2234.15  2234.15  2234.84      .70      .69      .20  2232.50
    296.      52.     244.       0.      12.      34.       0.      13.       5.   2233.30
     .26     4.42     7.09     1.62     .055     .055     .055     .000  2231.50  9985.50
 .030296     480.     480.     480.       20       11        0      .00    33.30 10018.80


SECNO 650.000

3470 ENCROACHMENT STATIONS=     9991.1   10029.3  TYPE=      1  TARGET=       38.200
 650.000     2.57  2247.37  2247.36  2247.38  2248.04      .67    13.20      .00  2247.10
    296.       2.     292.       2.       1.      44.       1.      14.       5.   2246.50
     .28     1.32     6.62     2.64     .055     .055     .055     .000  2244.80  9991.10
 .032626     420.     420.     420.        7        8        0      .00    38.20 10029.30


*SECNO 750.000

3470 ENCROACHMENT STATIONS=     9983.8   10014.9  TYPE=      1  TARGET=       31.101
 750.000     2.48  2263.18  2263.16  2263.18  2263.90      .72    15.84      .01100000.00
    296.       0.     250.      46.       0.      35.       9.      14.       6.   2260.70
     .30      .00     7.10     4.98     .000     .045     .055     .000  2260.70  9983.80
 .027473     530.     530.     530.        7       11        0      .00    31.10 10014.90


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       EV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      ANOB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CGRAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9988.0   10035.3  TYPE=      1  TARGET=       47.300
  860.000     2.05  2283.25  2283.25  2283.23  2283.83      .54    14.63      .02  2281.80
     296.      30.     142.     125.       9.      19.      26.      15.       6.   2281.20
      .33     3.33     7.28     4.82     .055     .045     .055     .000  2281.20  9988.00
  .023081     560.     580.     590.        4       15        0      .00    47.30 10035.30


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9983.3   10004.8  TYPE=      1  TARGET=       21.500
  960.000     4.18  2298.28  2298.28  2298.28  2299.28     1.00    12.58      .13100000.00
     296.       0.     295.       1.       0.      37.       1.      15.       7.   2297.90
      .35      .00     8.05     1.41     .000     .045     .055     .000  2294.10  9983.30
  .023963     540.     530.     550.        6       17        0      .00    21.50 10004.80


*SECNO 1070.000

3470 ENCROACHMENT STATIONS=     9985.6   10019.3  TYPE=      1  TARGET=       33.700
 1070.000     2.37  2313.17  2313.15  2313.18  2313.83      .65    14.51      .03100000.00
     296.       0.     296.       0.       0.      46.       0.      16.       7. 100000.00
      .37      .00     6.49      .00     .000     .045     .000     .000  2310.80  9985.70
  .026151     600.     580.     560.        7       11        0      .00    33.60 10019.30


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9990.8   10052.2  TYPE=      1  TARGET=       61.400
 1120.000     2.92  2321.72  2321.72  2321.71  2322.18      .46     7.61      .02  2318.80
     296.      50.     205.      41.       8.      37.      11.      16.       7.   2320.30
      .39     5.90     5.56     3.93     .055     .045     .055     .000  2318.80  9990.80
  .033231     250.     260.     260.       14       11        0      .00    61.40 10052.20


*SECNO 1190.000

3265 DIVIDED FLOW
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        OLOB     OCH      OROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ELOBF    CORAR    TOPWID     ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9963.2   10022.9  TYPE=      1  TARGET=       59.700
 1190.000     2.73  2336.23  2336.23  2336.25  2336.87      .64    10.27      .06  2335.90
    296.       5.     291.       0.       3.      45.       0.      17.       8. 100000.00
     .40     1.49     6.49      .00     .055     .045     .000     .000  2333.50  9963.20
  .023524    370.     370.     370.       11       11        0      .00    47.10 10022.81


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9997.1   10049.3  TYPE=      1  TARGET=       52.200
 1300.000     2.28  2352.68  2352.68  2352.64  2353.20      .52    14.20      .01  2352.50
    296.       0.     220.      76.       0.      35.      19.      17.       9.   2351.00
     .43     1.00     6.30     3.93     .055     .045     .055     .000  2350.40  9997.10
  .025978    560.     580.     540.        4       12        0      .00    52.20 10049.30


*SECNO 1430.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.8   10018.3  TYPE=      1  TARGET=       29.500
 1430.000     3.26  2374.26  2374.26  2374.27  2375.02      .76    18.52      .07100000.00
    296.       0.     296.       0.       0.      42.       0.      18.       9. 100000.00
     .46      .00     6.99      .00     .000     .045     .000     .000  2371.00  9988.80
  .028794    670.     680.     660.       10       14        0      .00    29.47 10018.27


*SECNO 1510.000

3470 ENCROACHMENT STATIONS=     9992.9   10034.8  TYPE=      1  TARGET=       41.899
 1510.000     2.41  2387.31      .00  2387.30  2387.86      .55    12.82      .02  2384.90
    296.      42.     254.       0.       9.      42.       0.      19.      10. 100000.00
     .48     4.88     6.11      .00     .055     .045     .000     .000  2384.90  9992.90
  .027149    440.     460.     450.        4        0        0      .00    41.90 10034.80


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9983.6   10023.8  TYPE=      1  TARGET=       40.200
 1610.000     2.07  2403.57  2403.57  2403.53  2404.18      .62    13.38      .02  2401.50
    296.      73.     205.      17.      17.      29.       5.      19.      10.   2402.00
     .50     4.26     7.07     3.52     .055     .045     .055     .000  2401.50  9983.60
  .023683    520.     530.     540.       20       15        0      .00    40.20 10023.80


*SECNO 1700.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.4   10132.6  TYPE=      1  TARGET=      144.199
 1700.000     1.86  2419.06  2419.06  2419.03  2419.58      .53    11.32      .01  2417.20
    296.      43.     246.       7.      11.      40.       4.      20.      11.   2418.20
     .53     3.92     6.18     1.80     .055     .045     .055     .000  2417.20  9988.40
  .023328    490.     480.     470.        4       11        0      .00    58.33 10132.60


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9987.1   10039.5  TYPE=      1  TARGET=       52.400
 1750.000     1.61  2428.21  2428.21  2428.19  2428.73      .52     5.96      .00  2426.60
    296.      39.     227.      31.      11.      36.      10.      20.      11.   2426.90
     .54     3.62     6.34     3.07     .055     .045     .055     .000  2426.60  9987.10
  .022302    260.     260.     280.        4       15        0      .00    52.40 10039.50
```

THIS RUN EXECUTED 4/ 3/90 13: 6:54

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO TRIB.3

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	1360.000	296.00	2.23	1.34	2162.00	.00	2163.34	17.09	125.67	9913.28	9950.00	10020.00	10246.89
	1360.000	296.00	1.37	2.08	2162.00	.00	2164.08	57.23	333.60	9913.30	9950.00	10020.00	10246.90
*	70.000	296.00	4.85	1.30	2172.50	240.00	2173.80	13.10	88.58	9937.34	9945.20	10024.40	10025.92
*	70.000	296.00	4.85	1.30	2172.50	240.00	2173.80	13.10	88.56	9937.34	9945.20	10024.40	10025.90
	160.000	296.00	4.12	3.15	2180.20	480.00	2183.35	29.15	54.04	9956.91	9974.10	10014.90	10010.95
	160.000	296.00	4.12	3.14	2180.20	480.00	2183.34	29.17	53.99	9956.91	9974.10	10014.90	10010.90
*	240.000	296.00	5.87	1.36	2187.40	285.00	2188.76	15.01	55.01	9987.47	10000.00	10039.50	10042.48
*	240.000	296.00	5.79	1.37	2187.40	285.00	2188.77	15.35	54.90	9987.50	10000.00	10039.50	10042.40
	260.000	296.00	6.77	2.12	2193.90	240.00	2196.02	19.53	60.28	9965.99	10021.30	10024.30	10026.27
	260.000	296.00	6.76	2.05	2193.90	240.00	2195.95	19.12	46.00	9980.00	10021.30	10024.30	10026.00
*	280.000	296.00	.24	12.90	2196.50	50.00	2209.40	1829.85	216.72	9869.55	10021.30	10024.30	10138.00
*	280.000	296.00	.48	12.90	2196.50	50.00	2209.40	920.92	85.00	9975.00	10021.30	10024.30	10060.00
*	290.000	296.00	.36	9.80	2199.60	60.00	2209.40	987.31	128.38	9939.00	9966.10	10000.00	10067.38
	290.000	296.00	.43	9.80	2199.60	60.00	2209.40	829.09	100.00	9965.00	9966.10	10000.00	10065.00
*	410.000	296.00	6.25	2.35	2211.50	635.00	2213.85	15.68	44.48	9986.84	10000.00	10033.20	10031.32
*	410.000	296.00	6.29	2.35	2211.50	635.00	2213.85	15.54	44.38	9986.90	10000.00	10033.20	10031.28
	450.000	296.00	3.43	1.37	2219.50	210.00	2220.87	17.79	117.15	9915.19	9986.70	10000.00	10032.35
	450.000	296.00	3.47	1.38	2219.50	210.00	2220.88	17.84	99.20	9920.80	9986.70	10000.00	10020.00
*	460.000	296.00	.34	7.45	2219.50	30.00	2226.95	842.36	158.81	9885.84	9986.70	10000.00	10044.65
*	460.000	296.00	.42	7.45	2219.50	30.00	2226.95	683.38	110.00	9920.00	9986.70	10000.00	10030.00
*	480.000	296.00	1.32	4.74	2222.20	110.00	2226.94	152.63	88.64	9954.55	10000.00	10027.50	10043.19
*	480.000	296.00	1.44	4.74	2222.20	110.00	2226.94	139.52	69.80	9960.20	10000.00	10027.50	10030.00

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	570.000	296.00	7.08	2.65	2231.50	480.00	2234.15	17.04	33.43	9985.43	10000.00	10018.40	10018.86
*	570.000	296.00	7.09	2.65	2231.50	480.00	2234.15	17.01	33.30	9985.50	10000.00	10018.40	10018.80
	650.000	296.00	6.63	2.58	2244.80	420.00	2247.38	16.35	38.30	9991.07	10000.00	10027.70	10029.37
	650.000	296.00	6.62	2.57	2244.80	420.00	2247.37	16.39	38.20	9991.10	10000.00	10027.70	10029.30
	750.000	296.00	7.07	2.48	2260.70	530.00	2263.18	17.91	31.19	9983.73	9975.60	10007.40	10014.92
	750.000	296.00	7.10	2.48	2260.70	530.00	2263.18	17.86	31.10	9983.80	9975.60	10007.40	10014.90
*	860.000	296.00	7.44	2.03	2281.20	580.00	2283.23	18.90	47.38	9987.98	10000.00	10011.10	10035.36
*	860.000	296.00	7.28	2.05	2281.20	580.00	2283.25	19.48	47.30	9988.00	10000.00	10011.10	10035.30
*	960.000	296.00	8.06	4.18	2294.10	530.00	2298.28	19.02	21.74	9983.19	9981.40	10000.00	10004.94
*	960.000	296.00	8.05	4.18	2294.10	530.00	2298.28	19.12	21.50	9983.30	9981.40	10000.00	10004.80
	1070.000	296.00	6.46	2.38	2310.80	580.00	2313.18	18.41	33.72	9985.65	9974.80	10031.00	10019.37
	1070.000	296.00	6.49	2.37	2310.80	580.00	2313.17	18.30	33.60	9985.70	9974.80	10031.00	10019.30
*	1120.000	296.00	5.63	2.91	2318.80	260.00	2321.71	15.93	61.47	9990.75	9996.50	10037.50	10052.22
*	1120.000	296.00	5.56	2.92	2318.80	260.00	2321.72	16.24	61.40	9990.80	9996.50	10037.50	10052.20
*	1190.000	296.00	6.39	2.75	2333.50	370.00	2336.25	19.72	48.33	9963.11	9992.60	10027.60	10022.99
*	1190.000	296.00	6.49	2.73	2333.50	370.00	2336.23	19.30	47.10	9963.20	9992.60	10027.60	10022.81
*	1300.000	296.00	6.54	2.24	2350.40	580.00	2352.64	17.31	52.27	9997.06	10000.00	10027.00	10049.34
*	1300.000	296.00	6.30	2.28	2350.40	580.00	2352.68	18.36	52.20	9997.10	10000.00	10027.00	10049.30
	1430.000	296.00	6.93	3.27	2371.00	680.00	2374.27	17.64	29.63	9988.75	9984.90	10020.20	10018.37
*	1430.000	296.00	6.99	3.26	2371.00	680.00	2374.26	17.44	29.47	9988.80	9984.90	10020.20	10018.27
	1510.000	296.00	6.15	2.40	2384.90	460.00	2387.30	17.77	41.96	9992.87	10000.00	10052.70	10034.83
	1510.000	296.00	6.11	2.41	2384.90	460.00	2387.31	17.96	41.90	9992.90	10000.00	10052.70	10034.80
*	1610.000	296.00	7.25	2.03	2401.50	530.00	2403.53	18.51	40.27	9983.60	10000.00	10017.70	10023.87
*	1610.000	296.00	7.07	2.07	2401.50	530.00	2403.57	19.23	40.20	9983.60	10000.00	10017.70	10023.80
*	1700.000	296.00	6.30	1.83	2417.20	480.00	2419.03	18.81	57.78	9988.40	10000.00	10029.40	10132.66
*	1700.000	296.00	6.18	1.86	2417.20	480.00	2419.06	19.38	58.33	9988.40	10000.00	10029.40	10132.60
*	1750.000	296.00	6.47	1.59	2426.60	260.00	2428.19	19.27	52.45	9987.07	10000.00	10024.50	10039.52
*	1750.000	296.00	6.34	1.61	2426.60	260.00	2428.21	19.82	52.40	9987.10	10000.00	10024.50	10039.50

OTILLO TRIB.3

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STCNL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1360.000	296.00	2163.34	.00	.00	.00	9950.00	10020.00	.00	299.88	2163.64	.00
	1360.000	296.00	2164.08	.74	.00	9913.30	9950.00	10020.00	10246.90	26.75	2164.12	.48
*	70.000	296.00	2173.80	.00	10.45	.00	9945.20	10024.40	.00	510.28	2174.16	.00
*	70.000	296.00	2173.80	.00	9.72	9937.34	9945.20	10024.40	10025.90	510.86	2174.16	.00
*	160.000	296.00	2183.35	.00	9.55	.00	9974.10	10014.90	.00	103.12	2183.60	.00
*	160.000	296.00	2183.34	-.00	9.55	9956.30	9974.10	10014.90	10010.90	102.99	2183.60	-.00
*	240.000	296.00	2188.76	.00	5.41	.00	10000.00	10039.50	.00	388.80	2189.26	.00
*	240.000	296.00	2188.77	.01	5.43	9987.50	10000.00	10039.50	10042.40	372.09	2189.26	.00
	260.000	296.00	2196.02	.00	7.26	.00	10021.30	10024.30	.00	229.79	2196.36	.00
	260.000	296.00	2195.95	-.06	7.18	9980.00	10021.30	10024.30	10026.00	239.62	2196.36	.00
*	280.000	296.00	2209.40	.00	13.38	.00	10021.30	10024.30	.00	.03	2209.40	.00
*	280.000	296.00	2209.40	.00	13.45	9975.00	10021.30	10024.30	10060.00	.10	2209.40	.00
*	290.000	296.00	2209.40	.00	.00	.00	9966.10	10000.00	.00	.09	2209.40	.00
	290.000	296.00	2209.40	.00	.00	9965.00	9966.10	10000.00	10065.00	.13	2209.40	.00
	410.000	296.00	2213.85	.00	4.45	.00	10000.00	10033.20	.00	356.26	2214.42	.00
	410.000	296.00	2213.85	-.01	4.44	9986.90	10000.00	10033.20	10031.30	362.92	2214.42	.00
	450.000	296.00	2220.87	.00	7.02	.00	9986.70	10000.00	.00	276.90	2221.09	.00
	450.000	296.00	2220.88	.01	7.03	9920.80	9986.70	10000.00	10020.00	275.19	2221.13	.03
*	460.000	296.00	2226.95	.00	6.08	.00	9986.70	10000.00	.00	.12	2226.95	.00
*	460.000	296.00	2226.95	.00	6.07	9920.00	9986.70	10000.00	10030.00	.19	2226.95	.00
*	480.000	296.00	2226.94	.00	-.01	.00	10000.00	10027.50	.00	3.76	2226.97	.00
*	480.000	296.00	2226.94	.00	-.01	9920.00	10000.00	10027.50	10030.00	4.50	2226.97	.00
*	570.000	296.00	2234.15	.00	7.20	.00	10000.00	10018.40	.00	301.86	2234.84	.00
*	570.000	296.00	2234.15	-.00	7.20	9985.50	10000.00	10018.40	10018.80	302.96	2234.84	.00
	650.000	296.00	2247.38	.00	13.23	.00	10000.00	10027.70	.00	327.93	2248.05	.00
	650.000	296.00	2247.37	-.01	13.23	9991.10	10000.00	10027.70	10029.30	326.26	2248.04	-.01
	750.000	296.00	2263.18	.00	15.80	.00	9975.60	10007.40	.00	273.07	2263.89	.00
	750.000	296.00	2263.18	.00	15.80	9983.80	9975.60	10007.40	10014.90	274.73	2263.90	.01
*	860.000	296.00	2283.23	.00	20.05	.00	10000.00	10011.10	.00	245.29	2283.82	.00
*	860.000	296.00	2283.25	.02	20.07	9988.00	10000.00	10011.10	10035.30	230.81	2283.81	-.00
*	960.000	296.00	2298.28	.00	15.05	.00	9981.40	10000.00	.00	242.22	2299.28	.00
*	960.000	296.00	2298.28	.00	15.03	9983.30	9981.40	10000.00	10004.80	239.63	2299.28	.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	1070.000	296.00	2313.18	.00	14.90	.00	9974.80	10031.00	.00	258.56	2313.83	.00
	1070.000	296.00	2313.17	-.01	14.89	9985.60	9974.80	10031.00	10019.30	261.51	2313.83	.00
*	1120.000	296.00	2321.71	.00	8.53	.00	9996.50	10037.50	.00	345.41	2322.18	.00
*	1120.000	296.00	2321.72	.01	8.54	9990.80	9996.50	10037.50	10052.20	332.31	2322.18	.00
*	1190.000	296.00	2336.25	.00	14.54	.00	9992.60	10027.60	.00	225.39	2336.87	.00
*	1190.000	296.00	2336.23	-.02	14.51	9963.20	9992.60	10027.60	10022.90	235.24	2336.87	.00
*	1300.000	296.00	2352.64	.00	16.39	.00	10000.00	10027.00	.00	292.27	2353.20	.00
*	1300.000	296.00	2352.68	.04	16.45	9997.10	10000.00	10027.00	10049.30	259.78	2353.20	-.00
*	1430.000	296.00	2374.27	.00	21.63	.00	9984.90	10020.20	.00	281.56	2375.02	.00
*	1430.000	296.00	2374.26	-.01	21.58	9988.40	9984.90	10020.20	10018.30	287.94	2375.02	.00
	1510.000	296.00	2387.30	.00	13.03	.00	10000.00	10052.70	.00	277.57	2387.86	.00
	1510.000	296.00	2387.31	.01	13.05	9992.00	10000.00	10052.70	10034.80	271.49	2387.86	.00
*	1610.000	296.00	2403.53	.00	16.23	.00	10000.00	10017.70	.00	255.82	2404.19	.00
*	1610.000	296.00	2403.57	.03	16.26	9983.60	10000.00	10017.70	10023.80	236.83	2404.18	-.00
*	1700.000	296.00	2419.03	.00	15.50	.00	10000.00	10029.40	.00	247.52	2419.58	.00
*	1700.000	296.00	2419.06	.02	15.49	9988.40	10000.00	10029.40	10132.60	233.28	2419.58	.00
*	1750.000	296.00	2428.19	.00	9.15	.00	10000.00	10024.50	.00	236.02	2428.73	.00
*	1750.000	296.00	2428.21	.02	9.15	9987.10	10000.00	10024.50	10039.50	223.02	2428.73	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    160.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    240.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    240.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    240.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    240.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

NOTE    SECNO=    280.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    290.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    460.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    480.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    480.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    960.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   960.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   960.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   960.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1120.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1190.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1190.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1190.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1190.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1300.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1300.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1300.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1430.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1430.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1430.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1430.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  1610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  1700.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1700.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1700.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1700.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=  1750.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1750.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  1750.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  1750.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, OCOTILLO TRIB.3
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1360.000	334.	191.	1.5	2164.1	2163.3	.8
70.000	89.	61.	4.8	2173.8	2173.8	.0
160.000	54.	77.	3.9	2183.3	2183.3	.0
240.000	55.	55.	5.4	2188.8	2188.8	.0
260.000	46.	59.	5.0	2196.0	2196.0	.0
280.000	85.	798.	.4	2209.4	2209.4	.0
290.000	100.	770.	.4	2209.4	2209.4	.0
410.000	44.	50.	5.9	2213.8	2213.9	-.1
450.000	99.	76.	3.9	2220.9	2220.9	.0
460.000	110.	748.	.4	2226.9	2226.9	.0
480.000	70.	230.	1.3	2226.9	2226.9	.0
570.000	33.	46.	6.4	2234.1	2234.1	.0
650.000	38.	46.	6.4	2247.4	2247.4	.0
750.000	31.	44.	6.7	2263.2	2263.2	.0
860.000	47.	54.	5.5	2283.3	2283.2	.1
960.000	21.	38.	7.9	2298.3	2298.3	.0
1070.000	34.	46.	6.5	2313.2	2313.2	.0
1120.000	61.	56.	5.3	2321.7	2321.7	.0
1190.000	60.	48.	6.1	2336.2	2336.2	.0
1300.000	52.	54.	5.4	2352.7	2352.6	.1
1430.000	29.	42.	7.0	2374.3	2374.3	.0
1510.000	42.	50.	5.9	2387.3	2387.3	.0
1610.000	40.	51.	5.8	2403.6	2403.5	.1
1700.000	144.	55.	5.4	2419.1	2419.0	.1
1750.000	52.	56.	5.2	2428.2	2428.2	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/11/90   TIME   14:29:50           *
*****************************************************
```

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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 4/11/90 14:29:50

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
T2     10-YR FLOOD FREQUENCY MODEL
T3     OCOTILLO WASH, TRIB. 4   (OCT4.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                          .02                                2123.79

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J7  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150


QT       4        46        71        83        105

NC     .045      .045      .035       .1        .3

        ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
          COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
          SECTION 000 = 970 OCOTILLO WASH (HTA)
          FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
          STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
X1      970        21     9962.3    10427.3
X3                                                  10080.7
GR   2144.7     9863.2    2143.0     9883.3    2128.8     9934.6    2127.3     9962.3    2122.9     9988.0
GR   2123.4    10000.0    2125.1    10013.1    2126.9    10080.7    2124.2    10097.1    2123.2    10103.8
GR   2125.0    10116.4    2125.9    10141.2    2124.2    10178.8    2126.6    10218.2    2126.1    10274.3
GR   2125.9    10343.5    2127.2    10377.8    2126.5    10398.6    2128.4    10427.3    2140.5    10460.8
GR   2142.0    10467.2
```

```
     170       41     9944.5   10013.3      930      870      900
X3                                          10231.0
GR  2162.1  9747.0   2155.6    9782.5   2159.3   9817.6   2157.2   9849.1   2154.8   9876.3
GR  2151.7  9889.0   2148.5    9944.5   2148.1   9979.9   2143.7  10000.0   2146.2  10013.3
GR  2149.3 10036.3   2153.7   10074.5   2156.2  10112.6   2163.0  10161.4   2164.9  10198.4
GR  2165.3 10224.1   2165.3   10231.0   2161.8  10259.9   2157.8  10278.2   2157.8  10294.7
GR  2144.4 10304.9   2144.8   10327.6   2143.7  10400.9   2143.6  10425.2   2142.9  10446.1
GR  2145.8 10491.3   2142.5   10509.6   2146.1  10525.7   2147.5  10563.8   2144.6  10599.4
GR  2148.8 10645.7   2149.1   10665.0   2149.3  10728.2   2148.5  10781.6   2148.3  10816.8
GR  2155.3 10868.8   2164.5   10899.5   2167.6  10916.4   2168.4  10944.4   2167.6  10979.7
GR  2167.8 10993.5

X1      280      17     9964.0   10013.7      590      570      580
GR  2174.8  9822.0   2178.9    9837.0   2179.9   9851.8   2178.5   9871.7   2175.2   9890.9
GR  2168.8  9925.6   2161.5    9964.0   2158.9  10000.0   2159.4  10013.7   2166.5  10033.8
GR  2174.2 10059.3   2176.1   10070.2   2175.6  10087.8   2173.9  10095.3   2171.6  10106.2
GR  2174.1 10122.3   2173.6   10133.3

NC      .05      .05      .04

X1      380      11    10000.0   10051.9      510      550      530
GR  2189.8  9852.4   2190.7    9916.7   2189.9   9930.6   2186.5   9946.4   2171.7  10000.0
GR  2174.2 10012.9   2174.4   10051.9   2176.8  10070.3   2187.5  10103.5   2195.2  10122.4
GR  2195.7 10167.6

     480      13     9984.0   10023.7      550      510      530
GR  2205.3  9780.7   2203.9    9902.3   2202.2   9927.5   2194.9   9950.9   2186.8   9984.0
GR  2185.0 10000.0   2189.9   10023.7   2195.7  10054.8   2196.8  10070.2   2200.8  10126.5
GR  2202.8 10158.5   2202.6   10211.9   2202.5  10215.0

NC      .05      .05      .04       .3       .5

X1      570      16     9986.7   10000.0      470      490      480              -1.8
GR  2213.9  9775.0   2213.8    9838.0   2208.3   9848.1   2210.4   9860.1   2208.8   9882.4
GR  2205.8  9890.0   2210.2    9916.9   2213.5   9929.4   2213.2   9934.9   2213.0   9958.3
GR  2197.8  9986.7   2199.9   10000.0   2204.9  10050.2   2212.1  10111.0   2212.5  10145.8
GR  2213.3 10174.2

        1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
        METHOD IS USED BY INSERTING A THIN PIER.
X1      580      19     9997.6   10000.0       50       50       50
X3       10                                                    2215.4   2215.4
GR  2214.4  9720.7   2214.8    9768.4   2210.2   9799.7   2213.8   9828.6   2214.1   9865.6
GR  2214.5  9882.3   2214.1    9906.8   2210.3   9929.2   2209.3   9955.7   2200.8   9997.6
GR  2200.8 10000.0   2205.5   10022.7   2206.0  10027.2   2209.0  10060.1   2211.6  10068.3
GR  2212.8 10090.9   2212.5   10108.5   2215.2  10145.2   2214.3  10153.2
```

X1	600				110	110	110		4.2	
X3	10							2215.4	2215.4	
X5	4	2210.38	2212.39	2214.38	2215.60					
X1	610	17	9982.7	10021.7	50	50	50			
GR	2216.6	9676.9	2218.4	9737.5	2216.9	9764.5	2217.5	9787.3	2218.8	9817.9
GR	2219.2	9863.8	2217.5	9925.0	2215.3	9960.2	2207.3	9982.7	2205.9	10000.0
GR	2205.3	10008.4	2209.6	10021.7	2211.3	10037.6	2214.8	10053.3	2218.2	10079.4
GR	2218.9	10109.0	2218.7	10133.1						
NC	.05	.05	.04	.1	.3					
X1	680	15	9984.7	10000.0	370	370	370			
GR	2229.9	9776.4	2228.9	9850.0	2227.8	9877.8	2224.2	9906.0	2222.0	9933.5
GR	2219.7	9962.4	2216.1	9984.7	2216.5	9997.3	2216.1	10000.0	2224.2	10027.3
GR	2225.3	10045.9	2226.8	10102.0	2227.3	10161.7	2227.3	10213.0	2226.9	10243.3
NC	.045	.045	.045							
X1	770	14	9973.9	10019.8	470	470	470			
GR	2241.5	9842.7	2241.3	9936.1	2241.4	9973.9	2232.6	9995.6	2233.2	10000.0
GR	2235.4	10019.8	2235.0	10056.6	2235.9	10079.2	2239.9	10101.3	2239.2	10130.6
GR	2240.2	10138.8	2238.8	10168.2	2237.3	10190.3	2238.6	10215.0		
NC	.045	.045	.025							
X1	860	11	9983.0	10032.0	480	480	480			
GR	2252.3	9767.0	2252.1	9872.8	2250.9	9925.8	2249.9	9958.8	2250.2	9960.0
GR	2249.0	9983.0	2246.7	10000.0	2250.8	10032.0	2254.1	10067.4	2254.9	10111.5
GR	2254.1	10180.0								
NC	.045	.045	.045							
X1	970	8	10000.0	10005.6	580	580	580			
GR	2271.1	9872.7	2271.2	9902.5	2270.4	9956.8	2264.4	10000.0	2264.5	10005.6
GR	2268.2	10032.7	2269.7	10059.1	2269.8	10130.4				
X1	1060	15	9996.1	10000.0	480	480	480			
GR	2284.5	9914.8	2286.1	9953.1	2284.3	9977.5	2279.3	9996.1	2279.3	10000.0
GR	2281.9	10023.7	2284.1	10049.6	2285.9	10083.2	2286.0	10118.5	2286.9	10165.2
GR	2286.9	10236.0	2286.4	10281.5	2286.2	10316.2	2285.7	10338.1	2286.4	10347.9

	1160	12	9993.0	10000.0	530	530	530			
GR	2301.9	9859.8	2300.0	9945.0	2297.2	9973.6	2296.3	9993.0	2296.3	10000.0
GR	2297.4	10014.2	2298.8	10023.3	2300.6	10075.3	2299.8	10115.0	2301.2	10167.8
GR	2301.9	10208.9	2301.4	10227.3						
X1	1250	13	9977.6	10025.5	490	470	480			
GR	2319.4	9818.8	2316.8	9864.4	2315.6	9916.3	2315.1	9961.7	2315.3	9977.6
GR	2313.0	10000.0	2315.4	10025.5	2315.3	10055.5	2316.1	10094.8	2317.0	10136.5
GR	2316.9	10168.1	2316.1	10188.6	2314.9	10199.7				

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000      .93  2123.83      .00  2123.79  2124.08      .25      .00      .00  2127.30
     46.        0.      46.       0.       0.      11.       0.       0.       0. 100000.00
     .00      .00     4.02      .00     .000     .035     .000     .000  2122.90  9982.55
  .019982       0.       0.       0.        0        0        5      .00    20.78 10003.33


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.57  2145.07  2145.07      .00  2145.45      .39    19.48      .04  2148.50
     46.        0.      46.       0.       0.       9.       0.       0.       0.  2146.20
     .05      .00     4.98      .00     .000     .035     .000     .000  2142.50  9993.76
  .023512     930.     900.     870.        6       15        0      .00    13.51 10007.27


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000      .79  2159.69  2159.69      .00  2159.93      .24    13.58      .01  2161.50
     46.        0.      46.       0.       0.      12.       0.       0.       1.  2159.40
     .09      .00     3.94     1.33     .000     .035     .045     .000  2158.90  9989.10
  .023333     590.     580.     570.        5       17        0      .00    25.41 10014.51


*SECNO 380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3720 CRITICAL DEPTH ASSUMED
  380.000     1.47  2173.17  2173.17      .00  2173.55      .38    14.15      .04  2171.70
     46.       16.      30.       0.       4.       6.       0.       0.       1.  2174.40
     .12     4.18     5.29      .00     .050     .040     .000     .000  2171.70  9994.67
  .031308     510.     530.     550.       20       17        0      .00    12.93 10007.60
```

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 480.000
  480.000     1.31  2186.31      .00      .00  2186.55      .23    12.98      .01  2186.80
     46.       0.      46.       0.       0.      12.       0.       1.       1.   2189.90
     .16      .00     3.89      .00     .000     .040     .000     .000  2185.00  9988.33
  .019454     550.     530.     510.        6        0        0      .00    18.03 10006.35


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.52  2197.52  2197.52      .00  2197.90      .38    11.14      .07  2196.00
     46.       8.      38.       0.       2.       7.       0.       1.       1.   2198.10
     .19     3.83     5.16      .00     .050     .040     .000     .000  2196.00  9983.86
  .028278     470.     480.     490.        5        8        0      .00    12.47  9996.33


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3493 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     2.25  2203.05  2203.05      .00  2204.18     1.13     1.11      .37  2200.80
     46.       0.      46.       0.       0.       5.       0.       1.       1.   2200.80
     .19      .00     8.52      .00     .000     .040     .000     .000  2200.80  9997.60
  .017845      50.      50.      50.       20       11        0      .00     2.40 10000.00


*SECNO 600.000
 WATER EL=X5 CARD=   2210.380

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.28
```

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000     5.38  2210.38      .00      .00  2210.58      .20      .28      .28  2205.00
     46.       0.      46.       0.       0.      13.       0.       1.       1.   2205.00
     .20      .00     3.56      .00     .000     .040     .000     .000  2205.00  9997.60
 .000975     110.     110.     110.        0        0        0      .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 10.12

  610.000     5.34  2210.64      .00      .00  2210.64      .00      .00      .06  2207.30
     46.       2.      44.       0.      16.     154.       5.       1.       1.   2209.60
     .25      .12      .28      .06     .050     .040     .050     .000  2205.30  9973.32
 .000010      50.      50.      50.        2        0        0      .00    58.07 10031.39


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
7493 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000      .77  2216.87  2216.87      .00  2217.14      .27      .01      .08  2216.10
     46.       5.      38.       3.       2.       9.       1.       2.       2.   2216.10
     .27     2.67     4.37     2.62     .050     .040     .050     .000  2216.10  9979.91
 .029179     370.     370.     370.       20       17        0      .00    22.70 10002.61


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.38  2233.98  2233.98      .00  2234.32      .34    15.25      .02  2241.40
     46.       0.      46.       0.       0.      10.       0.       2.       2.   2235.40
     .30      .00     4.70      .00     .000     .045     .000     .000  2232.60  9992.21
 .036300     470.     470.     470.        4       17        0      .00    14.78 10006.99


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.17  2247.87  2247.87      .00  2248.17      .30     8.96      .00  2249.00
     46.       0.      46.       0.       0.      10.       0.       2.       2.   2250.80
     .33      .00     4.41      .00     .000     .025     .000     .000  2246.70  9991.34
 .011336     480.     480.     480.        7       15        0      .00    17.81 10009.15
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 970.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000      .96  2265.36  2265.36      .00  2265.67      .31      9.77      .00  2264.40
     46.       11.      26.       8.       3.       5.       3.       2.       2.   2264.50
     .37      3.35     5.16     3.11     .045     .045     .045     .000  2264.40  9993.07
 .027600      580.     580.     580.        4       15        0      .00    18.85 10011.92


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.03  2280.33  2280.33      .00  2280.66      .33     13.09      .01  2279.30
     46.       7.      22.      17.       2.       4.       5.       2.       2.   2279.30
     .40      3.41     5.54     3.48     .045     .045     .045     .000  2279.30  9992.26
 .026932      480.     480.     480.        5        8        0      .00    17.16 10009.42


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .70  2297.00  2297.00      .00  2297.22      .22     15.06      .01  2296.30
     46.       15.      22.       9.       5.       5.       3.       2.       3.   2296.30
     .44      2.84     4.51     2.83     .045     .045     .045     .000  2296.30  9977.92
 .030029      530.     530.     530.        5       14        0      .00    31.11 10009.03


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.04  2314.04  2314.04      .00  2314.31      .27     16.13      .02  2315.30
     46.       0.      46.       0.       0.      11.       0.       2.       3.   2315.40
     .47      .00     4.15      .00     .000     .045     .000     .000  2313.00  9989.83
 .037733      490.     480.     470.        4       14        0      .00    21.26 10011.09
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T4 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAO27815.H2
50-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH, TRIB. 4 (OCT4.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			.02				2123.95	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.12  2124.02  2124.01  2123.95  2124.34      .32      .00      .00  2127.30
     71.       0.      71.       0.       0.      16.       0.       0.       0. 100000.00
     .00      .00     4.56      .00     .000     .035     .000     .000  2122.90  9981.46
  .019963      0.       0.       0.        0        8        0      .00    23.30 10004.77


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.83  2145.33  2145.33      .00  2145.78      .46    18.84      .04  2148.50
     71.       0.      71.       0.       0.      13.       0.       0.       0.   2146.20
     .05      .00     5.41      .00     .000     .035     .000     .000  2142.50  9992.56
  .021967     930.     900.     870.        5       17        0      .00    16.10 10008.66


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000      .96  2159.86  2159.86      .00  2160.16      .30    12.60      .02  2161.50
     71.       0.      70.       1.       0.      16.       0.       0.       1.   2159.40
     .08      .00     4.40     1.74     .000     .035     .045     .000  2158.90  9986.75
  .021476     590.     580.     570.        5       22        0      .00    28.25 10015.00


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     1.75  2173.45  2173.45      .00  2173.90      .45    13.19      .05  2171.70
     71.      25.      46.       0.       6.       8.       0.       1.       1.   2174.40
     .11     4.56     5.78      .00     .050     .040     .000     .000  2171.70  9993.66
  .029594     510.     530.     550.        4       17        0      .00    15.37 10009.03
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
  Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 480.000
  480.000     1.54  2186.54       .00       .00  2186.84       .30     12.92       .01  2186.80
     71.        0.     71.        0.        0.      16.        0.        1.        1.   2189.90
     .14       .00     4.39       .00      .000     .040      .000      .000  2185.00  9986.36
  .020191     550.    530.     510.         5         0         0       .00     21.07 10007.42


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.80  2197.80  2197.80       .00  2198.26       .46     11.23       .08  2196.00
     71.       13.     58.        0.        3.      10.        0.        1.        1.   2198.10
     .17      4.22     5.69       .00      .050     .040      .000      .000  2196.00  9983.34
  .027517     470.    480.     490.         5        11         0       .00     14.74  9998.09


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3493 PROBABLE MINIMUM SPECIFIC ENERGY
     0 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     2.99  2203.79  2203.79       .00  2205.31      1.52      1.04       .53  2200.80
     71.        0.     71.        0.        0.       7.        0.        1.        1.   2200.80
     .17       .00     9.88       .00      .000     .040      .000      .000  2200.80  9997.60
  .016411      50.     50.      50.        20        14         0       .00      2.40 10000.00


*SECNO 600.000
 WATER EL=X5 CARD=   2212.390

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.51
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000     7.39  2212.39      .00      .00  2212.64      .25      .24      .38  2205.00
     71.       0.      71.       0.       0.      18.       0.       1.       1.   2205.00
     .18      .00     4.00      .00     .000     .040     .000     .000  2205.00  9997.60
  .000806     110.     110.     110.        0        0        0      .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 13.15

  610.000     7.41  2212.71      .00      .00  2212.71      .00      .00      .07  2207.30
     71.       5.      62.       4.      41.     235.      40.       1.       1.   2209.60
     .23      .12      .26      .10     .050     .040     .050     .000  2205.30  9967.48
  .000005      50.      50.      50.        2        0        0      .00    76.46 10043.94


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000      .96  2217.06  2217.06      .00  2217.40      .35      .01      .10  2216.10
     71.       8.      58.       4.       3.      12.       2.       3.       2.   2216.10
     .26     2.94     5.03     2.89     .050     .040     .050     .000  2216.10  9978.78
  .026691     370.     370.     370.       20       17        0      .00    24.45 10003.22


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.64  2234.24  2234.24      .00  2234.63      .40    13.94      .02  2241.40
     71.       0.      71.       0.       0.      14.       0.       3.       2.   2235.40
     .28      .00     5.06      .00     .000     .045     .000     .000  2232.60  9991.56
  .033135     470.     470.     470.        2       14        0      .00    17.78 10009.34


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.39  2248.09  2248.09      .00  2248.45      .36     8.35      .00  2249.00
     71.       0.      71.       0.       0.      15.       0.       3.       2.   2250.80
     .31      .00     4.81      .00     .000     .025     .000     .000  2246.70  9989.69
  .010691     480.     480.     480.        6       15        0      .00    21.19 10010.88
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 970.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     1.19  2265.59  2265.59      .00  2265.96      .37      9.18      .00  2264.40
     71.       19.      37.      15.       5.       6.       4.       3.       3.   2264.50
     .34      3.72     5.78     3.51     .045     .045     .045     .000  2264.40  9991.44
  .025788     580.     580.     580.        6       15        0      .00    22.13 10013.57


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.28  2280.58  2280.58      .00  2280.96      .39     12.22      .01  2279.30
     71.       12.      31.      29.       3.       5.       7.       3.       3.   2279.30
     .37      3.79     6.17     3.87     .045     .045     .045     .000  2279.30  9991.35
  .025148     480.     480.     480.        4        8        0      .00    20.30 10011.64


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .86  2297.16  2297.16      .00  2297.42      .26     14.30      .01  2296.30
     71.       25.      30.      15.       8.       6.       5.       4.       3.   2296.30
     .41      3.20     5.08     3.19     .045     .045     .045     .000  2296.30  9974.51
  .029024     530.     530.     530.        5       14        0      .00    36.56 10011.07


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.24  2314.24  2314.24      .00  2314.56      .32     15.45      .02  2315.30
     71.        0.      71.       0.       0.       16.      0.       4.       4.   2315.40
     .44      .00     4.53      .00     .000     .045     .000     .000  2313.00  9987.92
  .035788     490.     480.     470.        5       14        0      .00    25.27 10013.18
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
100-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH, TRIB. 4 (OCT4.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4			.02				2124.01	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1							

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.20  2124.10  2124.09  2124.01  2124.45      .35      .00      .00  2127.30
     83.       0.     83.       0.       0.     17.       0.       0.       0. 100000.00
     .00      .00    4.77      .00     .000    .035     .000     .000  2122.90  9981.02
  .019959      0.      0.       0.        0       8        0      .00    24.35 10005.36


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.93  2145.43  2145.43      .00  2145.92      .49    18.83      .04  2148.50
     83.       0.     83.       0.       0.     15.       0.       0.       0.   2146.20
     .04      .00    5.63      .00     .000    .035     .000     .000  2142.50  9992.11
  .021956     930.    900.     870.        4      24        0      .00    17.08 10009.19


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000     1.03  2159.93  2159.93      .00  2160.25      .32    12.48      .02  2161.50
     83.       0.     82.       1.       0.     18.       0.       1.       1.   2159.40
     .08      .00    4.59     1.89     .000    .035     .045     .000  2158.90  9985.79
  .021090     590.    580.     570.        6      22        0      .00    29.41 10015.19


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     1.86  2173.56  2173.56      .00  2174.04      .48    12.98      .05  2171.70
     83.      30.     53.       0.       6.      9.       0.       1.       1.   2174.40
     .11     4.72    5.98      .00     .050    .040     .000     .000  2171.70  9993.26
  .029192     510.    530.     550.        4      17        0      .00    16.34 10009.60
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 480.000
  480.000     1.63  2186.63       .00       .00  2186.95       .33     12.90       .02  2186.80
     83.        0.     83.        0.        0.      18.        0.        1.        1.   2189.90
     .14       .00     4.58       .00      .000     .040      .000      .000   2185.00  9985.55
  .020339     550.    530.     510.         6         0         0       .00     22.31 10007.86


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.92  2197.92  2197.92       .00  2198.41       .49     11.11       .08  2196.00
     83.       15.     68.        0.        3.      12.        0.        1.        1.   2198.10
     .16      4.34     5.85       .00      .050     .040      .000      .000   2196.00  9983.12
  .026708     470.    480.     490.         4        11         0       .00     15.72  9998.84


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     3.32  2204.12  2204.12       .00  2205.80      1.68      1.01       .60  2200.80
     83.        0.     83.        0.        0.       8.        0.        1.        1.   2200.80
     .16       .00    10.40       .00      .000     .040      .000      .000   2200.80  9997.60
  .015816      50.     50.      50.        20        14         0       .00      2.40 10000.00


*SECNO 600.000
 WATER EL=X5 CARD=   2214.380

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.64
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000     9.38  2214.38      .00      .00  2214.59      .21      .16      .44  2205.00
     83.       0.      83.       0.       0.      23.       0.       1.       1.   2205.00
     .17      .00     3.69      .00     .000     .040     .000     .000  2205.00  9997.60
 .000498     110.     110.     110.        0        0        0      .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 15.31

  610.000     9.35  2214.65      .00      .00  2214.65      .00      .00      .06  2207.30
     83.       8.      66.       9.      76.     311.      92.       1.       2.   2209.60
     .24      .10      .21      .10     .050     .040     .050     .000  2205.30  9962.02
 .000002      50.      50.      50.        2        0        0      .00    90.63 10052.64


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
7693 PROBABLE MINIMUM SPECIFIC ENERGY
 0 CRITICAL DEPTH ASSUMED
  680.000     1.04  2217.14  2217.14      .00  2217.51      .37      .00      .11  2216.10
     83.      10.      67.       5.       3.      13.       2.       4.       2.   2216.10
     .27     3.03     5.25     2.97     .050     .040     .050     .000  2216.10  9978.26
 .025350     370.     370.     370.       20       20        0      .00    25.24 10003.50


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.74  2234.34  2234.34      .00  2234.76      .42    13.43      .01  2241.40
     83.       0.      83.       0.       0.      16.       0.       4.       2.   2235.40
     .29      .00     5.21      .00     .000     .045     .000     .000  2232.60  9991.31
 .032436     470.     470.     470.        3       14        0      .00    18.95 10010.26


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.48  2248.18  2248.18      .00  2248.57      .38     8.21      .00  2249.00
     83.       0.      83.       0.       0.      17.       0.       4.       2.   2250.80
     .32      .00     4.97      .00     .000     .025     .000     .000  2246.70  9989.04
 .010537     480.     480.     480.        6       15        0      .00    22.53 10011.57
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
  Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     1.28  2265.68  2265.68      .00  2266.07      .39      9.00      .00  2264.40
     83.       23.      41.      19.       6.       7.       5.       4.       3.   2264.50
     .35      3.86     6.01     3.66     .045     .045     .045     .000  2264.40  9990.77
  .025102     580.     580.     580.       20       15        0      .00    23.48 10014.25


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.37  2280.67  2280.67      .00  2281.09      .41     11.97      .01  2279.30
     83.       14.      34.      35.       4.       5.       9.       4.       3.   2279.30
     .38      3.95     6.42     4.03     .045     .045     .045     .000  2279.30  9990.99
  .024756     480.     480.     480.        4        8        0      .00    21.54 10012.53


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .94  2297.24  2297.24      .00  2297.50      .26     13.50      .01  2296.30
     83.       31.      34.      18.       9.       7.       6.       5.       3.   2296.30
     .41      3.30     5.12     3.22     .045     .045     .045     .000  2296.30  9973.22
  .026200     530.     530.     530.        5       14        0      .00    38.87 10012.09


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.32  2314.32  2314.32      .00  2314.66      .34     14.50      .02  2315.30
     83.        0.      83.       0.       0.       18.       0.       5.       4.   2315.40
     .44      .00     4.68      .00     .000     .045     .000     .000  2313.00  9987.14
  .035107     490.     480.     470.        4       14        0      .00    26.89 10014.03
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
     500-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 4    (OCT4.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                          .02                                2124.12

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 970.000
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.33  2124.23  2124.23  2124.12  2124.63      .40      .00      .00  2127.30
     105.      0.     105.      0.       0.      21.       0.       0.       0. 100000.00
      .00     .00     5.08     .00     .000     .035     .000     .000  2122.90  9980.26
  .019728      0.       0.       0.        0        8        0      .00    26.10 10006.36


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     3.12  2145.62  2145.62      .00  2146.14      .52    17.91      .03  2148.50
     105.      0.     105.      0.       0.      18.       0.       0.       0.   2146.20
      .04     .00     5.77     .00     .000     .035     .000     .000  2142.50  9991.24
  .020070     930.     900.     870.        3       29        0      .00    18.97 10010.21


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000     1.15  2160.05  2160.05      .00  2160.41      .36    11.64      .02  2161.50
     105.      0.     104.      1.       0.      21.       1.       1.       1.   2159.40
      .08     .00     4.84     2.12     .000     .035     .045     .000  2158.90  9984.11
  .020073     590.     580.     570.        4       22        0      .00    31.42 10015.53


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.05  2173.75  2173.75      .00  2174.27      .53    12.43      .05  2171.70
     105.      37.      68.      0.       8.      11.       0.       1.       1.   2174.40
      .10     4.94     6.25     .00     .050     .040     .000     .000  2171.70  9992.59
  .028143     510.     530.     550.        5       17        0      .00    17.97 10010.56
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
  Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 480.000
  480.000     1.76  2186.76       .00       .00  2187.13       .37     12.85       .02  2186.80
     105.       0.     105.        0.        0.      21.        0.        1.        1.   2189.90
      .13      .00      4.90      .00      .000     .040      .000      .000   2185.00  9984.29
  .020834     550.     530.     510.         4         0         0       .00     24.25 10008.55


CCHV=     .300 CEHV=     .500
*SECNO 570.000
  570.000     2.08  2198.08  2198.07       .00  2198.64       .56     11.41       .09  2196.00
     105.      19.      86.        0.        4.      14.        0.        1.        2.   2198.10
      .15     4.66      6.28      .00      .050     .040      .000      .000   2196.00  9982.81
  .027511     470.     480.     490.         8        11         0       .00     17.08  9999.89


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3765 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     3.89  2204.69  2204.69       .00  2206.65      1.96       .99       .70  2200.80
     105.       0.     105.        0.        0.       9.        0.        1.        2.   2200.80
      .16      .00     11.24      .00      .000     .040      .000      .000   2200.80  9997.60
  .014935      50.      50.      50.        20        14         0       .00      2.40 10000.00


*SECNO 600.000
 WATER EL=X5 CARD=   2215.600

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 78.97

  600.000    10.60  2215.60       .00       .00  2215.60       .00       .00       .59  2205.00
     105.      45.       7.       53.      323.      25.      350.        2.        2.   2205.00
      .35      .14      .28       .15      .050     .040      .050      .000   2205.00  9791.53
  .000002     110.     110.     110.         0         0         0       .00    162.75 10067.67
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 610.000
 610.000    10.30  2215.60      .00      .00  2215.60      .00      .00      .00  2207.30
    105.      11.      80.      14.      97.     348.     124.       3.       2.   2209.60
     .42      .11      .23      .11     .050     .040     .050     .000  2205.30  9955.40
 .000002      50.      50.      50.        2        0        0      .00   104.04 10059.44


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 680.000     1.17  2217.27  2217.27      .00  2217.70      .43      .00      .13  2216.10
    105.      14.      84.       7.       4.      15.       2.       6.       3.   2216.10
     .44      3.22     5.67     3.15     .050     .040     .050     .000  2216.10  9977.46
 .024358     370.     370.     370.       20       20        0      .00    26.49 10003.94


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 770.000     1.90  2234.50  2234.50      .00  2234.97      .47    13.04      .01  2241.40
    105.       0.     105.       0.       0.      19.       0.       6.       3.   2235.40
     .47      .00     5.49      .00     .000     .045     .000     .000  2232.60  9990.91
 .031894     470.     470.     470.        4       14        0      .00    20.80 10011.71


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 860.000     1.63  2248.33  2248.33      .00  2248.75      .42     7.96      .00  2249.00
    105.       0.     105.       0.       0.      20.       0.       6.       3.   2250.80
     .49      .00     5.19      .00     .000     .025     .000     .000  2246.70  9987.94
 .010138     480.     480.     480.        6       15        0      .00    24.79 10012.73


*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 970.000     1.43  2265.83  2265.83      .00  2266.26      .43     8.70      .00  2264.40
    105.      30.      49.      25.       7.       8.       6.       6.       3.   2264.50
     .52     4.10     6.40     3.91     .045     .045     .045     .000  2264.40  9989.70
 .024429     580.     580.     580.       20       15        0      .00    25.64 10015.34
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  SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
  Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.53  2280.83  2280.83      .00  2281.29      .45     11.66      .01  2279.30
     105.      18.      41.      46.       4.       6.      11.       6.       4.   2279.30
      .55     4.20     6.82     4.28     .045     .045     .045      .000  2279.30  9990.40
  .024149     480.     480.     480.        4        8        0       .00    23.58 10013.97


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000     1.03  2297.33  2297.33      .00  2297.63      .30     13.29      .02  2296.30
     105.      42.      39.      24.      11.       7.       7.       7.       4.   2296.30
      .58     3.69     5.45     3.42     .045     .045     .045      .000  2296.30  9972.24
  .026044     530.     530.     530.        5       14        0       .00    41.10 10013.34


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.45  2314.45  2314.45      .00  2314.82      .37     14.20      .02  2315.30
     105.       0.     105.       0.       0.      21.       0.       7.       4.   2315.40
      .61      .00     4.89      .00     .000     .045     .000      .000  2313.00  9985.85
  .033760     490.     480.     470.        4       14        0       .00    29.58 10015.43
```

THIS RUN EXECUTED 4/11/90 14:30:21

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

COTILLO WASH, TRIB. 4

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	970.000	2123.83	46.00	.93	.00	4.02	.00	.00	46.00	.00	20.78	199.82	.00
	970.000	2124.02	71.00	1.12	.00	4.56	.00	.00	71.00	.00	23.30	199.63	.00
	970.000	2124.10	83.00	1.20	.00	4.77	.00	.00	83.00	.00	24.35	199.59	.00
*	970.000	2124.23	105.00	1.33	.00	5.08	.00	.00	105.00	.00	26.10	197.28	.00
*	170.000	2145.07	46.00	2.57	.00	4.98	.00	.00	46.00	.00	13.51	235.12	21.23
*	170.000	2145.33	71.00	2.83	.00	5.41	.00	.00	71.00	.00	16.10	219.67	21.31
	170.000	2145.43	83.00	2.93	.00	5.63	.00	.00	83.00	.00	17.08	219.56	21.33
	170.000	2145.62	105.00	3.12	.00	5.77	.00	.00	105.00	.00	18.97	200.70	21.39
*	280.000	2159.69	46.00	.79	.00	3.94	1.33	.00	45.84	.16	25.41	233.33	14.62
*	280.000	2159.86	71.00	.96	.00	4.40	1.74	.00	70.48	.52	28.25	214.76	14.53
*	280.000	2159.93	83.00	1.03	.00	4.59	1.89	.00	82.25	.74	29.41	210.90	14.50
*	280.000	2160.05	105.00	1.15	.00	4.84	2.12	.00	103.74	1.26	31.42	200.73	14.43
*	380.000	2173.17	46.00	1.47	4.18	5.29	.00	16.41	29.59	.00	12.93	313.08	13.48
*	380.000	2173.45	71.00	1.75	4.56	5.78	.00	25.33	45.67	.00	15.37	295.94	13.59
*	380.000	2173.56	83.00	1.86	4.72	5.98	.00	29.61	53.39	.00	16.34	291.92	13.63
*	380.000	2173.75	105.00	2.05	4.94	6.25	.00	37.46	67.54	.00	17.97	281.43	13.70
	480.000	2186.31	46.00	1.31	.00	3.89	.00	.00	46.00	.00	18.03	194.54	13.14
	480.000	2186.54	71.00	1.54	.00	4.39	.00	.00	71.00	.00	21.07	201.91	13.09
	480.000	2186.63	83.00	1.63	.00	4.58	.00	.00	83.00	.00	22.31	203.39	13.07
	480.000	2186.76	105.00	1.76	.00	4.90	.00	.00	105.00	.00	24.25	208.34	13.01
*	570.000	2197.52	46.00	1.52	3.83	5.16	.00	8.26	37.74	.00	12.47	282.78	11.21
*	570.000	2197.80	71.00	1.80	4.22	5.69	.00	12.74	58.25	.00	14.74	275.17	11.26
*	570.000	2197.92	83.00	1.92	4.34	5.85	.00	14.90	68.10	.00	15.72	267.08	11.29
	570.000	2198.08	105.00	2.08	4.66	6.28	.00	18.85	86.15	.00	17.08	275.11	11.32
*	580.000	2203.05	46.00	2.25	.00	8.52	.00	.00	46.00	.00	2.40	178.45	5.53
*	580.000	2203.79	71.00	2.99	.00	9.88	.00	.00	71.00	.00	2.40	164.11	6.00
*	580.000	2204.12	83.00	3.32	.00	10.40	.00	.00	83.00	.00	2.40	158.16	6.21
*	580.000	2204.69	105.00	3.89	.00	11.24	.00	.00	105.00	.00	2.40	149.35	6.61

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	600.000	2210.38	46.00	5.38	.00	3.56	.00	.00	46.00	.00	2.40	9.75	7.33
*	600.000	2212.39	71.00	7.39	.00	4.00	.00	.00	71.00	.00	2.40	8.06	8.60
*	600.000	2214.38	83.00	9.38	.00	3.69	.00	.00	83.00	.00	2.40	4.98	10.26
*	600.000	2215.60	105.00	10.60	.14	.28	.15	44.53	7.06	53.41	162.75	.02	10.91
*	610.000	2210.64	46.00	5.34	.12	.28	.06	1.94	43.77	.30	58.07	.10	.26
*	610.000	2212.71	71.00	7.41	.12	.26	.10	4.94	61.87	4.19	76.46	.05	.32
*	610.000	2214.65	83.00	9.35	.10	.21	.10	7.54	66.43	9.03	90.63	.02	.27
	610.000	2215.60	105.00	10.30	.11	.23	.11	10.71	80.45	13.84	104.04	.02	.00
*	680.000	2216.87	46.00	.77	2.67	4.37	2.62	4.95	38.40	2.64	22.70	291.79	6.24
*	680.000	2217.06	71.00	.96	2.94	5.03	2.89	8.34	58.21	4.45	24.45	266.91	4.34
*	680.000	2217.14	83.00	1.04	3.03	5.25	2.97	10.14	67.45	5.41	25.24	253.50	2.49
*	680.000	2217.27	105.00	1.17	3.22	5.67	3.15	13.62	84.11	7.27	26.49	243.58	1.67
*	770.000	2233.98	46.00	1.38	.00	4.70	.00	.00	46.00	.00	14.78	363.00	17.10
*	770.000	2234.24	71.00	1.64	.00	5.06	.00	.00	71.00	.00	17.78	331.35	17.18
*	770.000	2234.34	83.00	1.74	.00	5.21	.00	.00	83.00	.00	18.95	324.36	17.20
*	770.000	2234.50	105.00	1.90	.00	5.49	.00	.00	105.00	.00	20.80	318.94	17.23
*	860.000	2247.87	46.00	1.17	.00	4.41	.00	.00	46.00	.00	17.81	113.36	13.90
*	860.000	2248.09	71.00	1.39	.00	4.81	.00	.00	71.00	.00	21.19	106.91	13.86
*	860.000	2248.18	83.00	1.48	.00	4.97	.00	.00	83.00	.00	22.53	105.37	13.84
*	860.000	2248.33	105.00	1.63	.00	5.19	.00	.00	105.00	.00	24.79	101.38	13.83
*	970.000	2265.36	46.00	.96	3.35	5.16	3.11	11.16	26.36	8.47	18.85	276.00	17.49
*	970.000	2265.59	71.00	1.19	3.72	5.78	3.51	18.93	36.84	15.23	22.13	257.88	17.49
*	970.000	2265.68	83.00	1.28	3.86	6.01	3.66	22.84	41.44	18.71	23.48	251.02	17.50
*	970.000	2265.83	105.00	1.43	4.10	6.40	3.91	30.21	49.45	25.33	25.64	244.29	17.50
*	1060.000	2280.33	46.00	1.03	3.41	5.54	3.48	6.77	22.32	16.91	17.16	269.32	14.97
*	1060.000	2280.58	71.00	1.28	3.79	6.17	3.87	11.52	30.72	28.77	20.30	251.48	14.99
*	1060.000	2280.67	83.00	1.37	3.95	6.42	4.03	13.89	34.43	34.69	21.54	247.56	14.99
*	1060.000	2280.83	105.00	1.53	4.20	6.82	4.28	18.35	40.79	45.85	23.58	241.49	15.00
*	1160.000	2297.00	46.00	.70	2.84	4.51	2.83	14.97	22.08	8.95	31.11	300.29	16.67
*	1160.000	2297.16	71.00	.86	3.20	5.08	3.19	25.35	30.49	15.16	36.56	290.24	16.58
*	1160.000	2297.24	83.00	.94	3.30	5.12	3.22	31.22	33.56	18.23	38.87	262.00	16.56
*	1160.000	2297.33	105.00	1.03	3.69	5.45	3.42	42.04	39.38	23.58	41.10	260.44	16.50
*	1250.000	2314.04	46.00	1.04	.00	4.15	.00	.00	46.00	.00	21.26	377.33	17.04
*	1250.000	2314.24	71.00	1.24	.00	4.53	.00	.00	71.00	.00	25.27	357.88	17.08
*	1250.000	2314.32	83.00	1.32	.00	4.68	.00	.00	83.00	.00	26.89	351.07	17.08
*	1250.000	2314.45	105.00	1.45	.00	4.89	.00	.00	105.00	.00	29.58	337.60	17.12

COTILLO WASH, TRIB. 4

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	970.000	.00	.00	.00	2122.90	46.00	2123.83	.00	2124.08	199.82	4.02	11.45	3.25
	970.000	.00	.00	.00	2122.90	71.00	2124.02	2124.01	2124.34	199.63	4.56	15.56	5.03
	970.000	.00	.00	.00	2122.90	83.00	2124.10	2124.09	2124.45	199.59	4.77	17.39	5.88
*	970.000	.00	.00	.00	2122.90	105.00	2124.23	2124.23	2124.63	197.28	5.08	20.67	7.48
*	170.000	900.00	.00	.00	2142.50	46.00	2145.07	2145.07	2145.45	235.12	4.98	9.23	3.00
*	170.000	900.00	.00	.00	2142.50	71.00	2145.33	2145.33	2145.78	219.67	5.41	13.11	4.79
*	170.000	900.00	.00	.00	2142.50	83.00	2145.43	2145.43	2145.92	219.56	5.63	14.75	5.60
*	170.000	900.00	.00	.00	2142.50	105.00	2145.62	2145.62	2146.14	200.70	5.77	18.19	7.41
*	280.000	580.00	.00	.00	2158.90	46.00	2159.69	2159.69	2159.93	233.33	3.94	11.76	3.01
*	280.000	580.00	.00	.00	2158.90	71.00	2159.86	2159.86	2160.16	214.76	4.40	16.33	4.84
*	280.000	580.00	.00	.00	2158.90	83.00	2159.93	2159.93	2160.25	210.90	4.59	18.33	5.72
*	280.000	580.00	.00	.00	2158.90	105.00	2160.05	2160.05	2160.41	200.73	4.84	22.01	7.41
*	380.000	530.00	.00	.00	2171.70	46.00	2173.17	2173.17	2173.55	313.08	5.29	9.51	2.60
*	380.000	530.00	.00	.00	2171.70	71.00	2173.45	2173.45	2173.90	295.94	5.78	13.46	4.13
*	380.000	530.00	.00	.00	2171.70	83.00	2173.56	2173.56	2174.04	291.92	5.98	15.20	4.86
*	380.000	530.00	.00	.00	2171.70	105.00	2173.75	2173.75	2174.27	281.43	6.25	18.39	6.26
	480.000	530.00	.00	.00	2185.00	46.00	2186.31	.00	2186.55	194.54	3.89	11.84	3.30
	480.000	530.00	.00	.00	2185.00	71.00	2186.54	.00	2186.84	201.91	4.39	16.17	5.00
	480.000	530.00	.00	.00	2185.00	83.00	2186.63	.00	2186.95	203.39	4.58	18.13	5.82
	480.000	530.00	.00	.00	2185.00	105.00	2186.76	.00	2187.13	208.34	4.90	21.43	7.27
*	570.000	480.00	.00	.00	2196.00	46.00	2197.52	2197.52	2197.90	282.78	5.16	9.47	2.74
*	570.000	480.00	.00	.00	2196.00	71.00	2197.80	2197.80	2198.26	275.17	5.69	13.25	4.28
*	570.000	480.00	.00	.00	2196.00	83.00	2197.92	2197.92	2198.41	267.08	5.85	15.07	5.08
	570.000	480.00	.00	.00	2196.00	105.00	2198.08	2198.07	2198.64	275.11	6.28	17.77	6.33
*	580.000	50.00	.00	.00	2200.80	46.00	2203.05	2203.05	2204.18	178.45	8.52	5.40	3.44
*	580.000	50.00	.00	.00	2200.80	71.00	2203.79	2203.79	2205.31	164.11	9.88	7.18	5.54
*	580.000	50.00	.00	.00	2200.80	83.00	2204.12	2204.12	2205.80	158.16	10.40	7.98	6.60
*	580.000	50.00	.00	.00	2200.80	105.00	2204.69	2204.69	2206.65	149.35	11.24	9.34	8.59
*	600.000	110.00	.00	.00	2205.00	46.00	2210.38	.00	2210.58	9.75	3.56	12.91	14.73
*	600.000	110.00	.00	.00	2205.00	71.00	2212.39	.00	2212.64	8.06	4.00	17.74	25.00
*	600.000	110.00	.00	.00	2205.00	83.00	2214.38	.00	2214.59	4.98	3.69	22.52	37.21
*	600.000	110.00	.00	.00	2205.00	105.00	2215.60	.00	2215.60	.02	.28	698.26	678.52
*	610.000	50.00	.00	.00	2205.30	46.00	2210.64	.00	2210.64	.10	.28	175.17	149.12
*	610.000	50.00	.00	.00	2205.30	71.00	2212.71	.00	2212.71	.05	.26	317.15	328.69
*	610.000	50.00	.00	.00	2205.30	83.00	2214.65	.00	2214.65	.02	.21	479.31	569.51
	610.000	50.00	.00	.00	2205.30	105.00	2215.60	.00	2215.60	.02	.23	569.92	717.06

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	680.000	370.00	.00	.00	2216.10	46.00	2216.87	2216.87	2217.14	291.79	4.37	11.64	2.69
*	680.000	370.00	.00	.00	2216.10	71.00	2217.06	2217.06	2217.40	266.91	5.03	15.95	4.35
*	680.000	370.00	.00	.00	2216.10	83.00	2217.14	2217.14	2217.51	253.50	5.25	18.00	5.21
*	680.000	370.00	.00	.00	2216.10	105.00	2217.27	2217.27	2217.70	243.58	5.67	21.37	6.73
*	770.000	470.00	.00	.00	2232.60	46.00	2233.98	2233.98	2234.32	363.00	4.70	9.78	2.41
*	770.000	470.00	.00	.00	2232.60	71.00	2234.24	2234.24	2234.63	331.35	5.06	14.04	3.90
*	770.000	470.00	.00	.00	2232.60	83.00	2234.34	2234.34	2234.76	324.36	5.21	15.92	4.61
*	770.000	470.00	.00	.00	2232.60	105.00	2234.50	2234.50	2234.97	318.94	5.49	19.12	5.88
*	860.000	480.00	.00	.00	2246.70	46.00	2247.87	2247.87	2248.17	113.36	4.41	10.44	4.32
*	860.000	480.00	.00	.00	2246.70	71.00	2248.09	2248.09	2248.45	106.91	4.81	14.78	6.87
*	860.000	480.00	.00	.00	2246.70	83.00	2248.18	2248.18	2248.57	105.37	4.97	16.70	8.09
*	860.000	480.00	.00	.00	2246.70	105.00	2248.33	2248.33	2248.75	101.38	5.19	20.21	10.43
*	970.000	580.00	.00	.00	2264.40	46.00	2265.36	2265.36	2265.67	276.00	5.16	11.17	2.77
*	970.000	580.00	.00	.00	2264.40	71.00	2265.59	2265.59	2265.96	257.88	5.78	15.79	4.42
*	970.000	580.00	.00	.00	2264.40	83.00	2265.68	2265.68	2266.07	251.02	6.01	17.92	5.24
*	970.000	580.00	.00	.00	2264.40	105.00	2265.83	2265.83	2266.26	244.29	6.40	21.58	6.72
*	1060.000	480.00	.00	.00	2279.30	46.00	2280.33	2280.33	2280.66	269.32	5.54	10.88	2.80
*	1060.000	480.00	.00	.00	2279.30	71.00	2280.58	2280.58	2280.96	251.48	6.17	15.45	4.48
*	1060.000	480.00	.00	.00	2279.30	83.00	2280.67	2280.67	2281.09	247.56	6.42	17.48	5.28
*	1060.000	480.00	.00	.00	2279.30	105.00	2280.83	2280.83	2281.29	241.49	6.82	21.06	6.76
*	1160.000	530.00	.00	.00	2296.30	46.00	2297.00	2297.00	2297.22	300.29	4.51	13.33	2.65
*	1160.000	530.00	.00	.00	2296.30	71.00	2297.16	2297.16	2297.42	290.24	5.08	18.68	4.17
*	1160.000	530.00	.00	.00	2296.30	83.00	2297.24	2297.24	2297.50	262.00	5.12	21.67	5.13
*	1160.000	530.00	.00	.00	2296.30	105.00	2297.33	2297.33	2297.63	260.44	5.45	25.52	6.51
*	1250.000	480.00	.00	.00	2313.00	46.00	2314.04	2314.04	2314.31	377.33	4.15	11.10	2.37
*	1250.000	480.00	.00	.00	2313.00	71.00	2314.24	2314.24	2314.56	357.88	4.53	15.68	3.75
*	1250.000	480.00	.00	.00	2313.00	83.00	2314.32	2314.32	2314.66	351.07	4.68	17.75	4.43
*	1250.000	480.00	.00	.00	2313.00	105.00	2314.45	2314.45	2314.82	337.60	4.89	21.49	5.71

COTILLO WASH, TRIB. 4

MARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	970.000	46.00	2123.83	.00	.00	.04	20.78	.00
	970.000	71.00	2124.02	.19	.00	.07	23.30	.00
	970.000	83.00	2124.10	.08	.00	.09	24.35	.00
*	970.000	105.00	2124.23	.13	.00	.11	26.10	.00
*	170.000	46.00	2145.07	.00	21.23	.00	13.51	900.00
*	170.000	71.00	2145.33	.26	21.31	.00	16.10	900.00
*	170.000	83.00	2145.43	.10	21.33	.00	17.08	900.00
*	170.000	105.00	2145.62	.19	21.39	.00	18.97	900.00
*	280.000	46.00	2159.69	.00	14.62	.00	25.41	580.00
*	280.000	71.00	2159.86	.17	14.53	.00	28.25	580.00
*	280.000	83.00	2159.93	.07	14.50	.00	29.41	580.00
*	280.000	105.00	2160.05	.12	14.43	.00	31.42	580.00
*	380.000	46.00	2173.17	.00	13.48	.00	12.93	530.00
*	380.000	71.00	2173.45	.28	13.59	.00	15.37	530.00
*	380.000	83.00	2173.56	.11	13.63	.00	16.34	530.00
*	380.000	105.00	2173.75	.19	13.70	.00	17.97	530.00
	480.000	46.00	2186.31	.00	13.14	.00	18.03	530.00
	480.000	71.00	2186.54	.23	13.09	.00	21.07	530.00
	480.000	83.00	2186.63	.09	13.07	.00	22.31	530.00
	480.000	105.00	2186.76	.13	13.01	.00	24.25	530.00
*	570.000	46.00	2197.52	.00	11.21	.00	12.47	480.00
*	570.000	71.00	2197.80	.28	11.26	.00	14.74	480.00
*	570.000	83.00	2197.92	.12	11.29	.00	15.72	480.00
	570.000	105.00	2198.08	.16	11.32	.00	17.08	480.00
*	580.000	46.00	2203.05	.00	5.53	.00	2.40	50.00
*	580.000	71.00	2203.79	.74	6.00	.00	2.40	50.00
*	580.000	83.00	2204.12	.33	6.21	.00	2.40	50.00
*	580.000	105.00	2204.69	.57	6.61	.00	2.40	50.00
*	600.000	46.00	2210.38	.00	7.33	.00	2.40	110.00
*	600.000	71.00	2212.39	2.01	8.60	.00	2.40	110.00
*	600.000	83.00	2214.38	1.99	10.26	.00	2.40	110.00
*	600.000	105.00	2215.60	1.22	10.91	.00	162.75	110.00
*	610.000	46.00	2210.64	.00	.26	.00	58.07	50.00
*	610.000	71.00	2212.71	2.08	.32	.00	76.46	50.00
*	610.000	83.00	2214.65	1.94	.27	.00	90.63	50.00
	610.000	105.00	2215.60	.95	.00	.00	104.04	50.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	680.000	46.00	2216.87	.00	6.24	.00	22.70	370.00
*	680.000	71.00	2217.06	.18	4.34	.00	24.45	370.00
*	680.000	83.00	2217.14	.08	2.49	.00	25.24	370.00
*	680.000	105.00	2217.27	.13	1.67	.00	26.49	370.00
*	770.000	46.00	2233.98	.00	17.10	.00	14.78	470.00
*	770.000	71.00	2234.24	.26	17.18	.00	17.78	470.00
*	770.000	83.00	2234.34	.10	17.20	.00	18.95	470.00
*	770.000	105.00	2234.50	.16	17.23	.00	20.80	470.00
*	860.000	46.00	2247.87	.00	13.90	.00	17.81	480.00
*	860.000	71.00	2248.09	.22	13.86	.00	21.19	480.00
*	860.000	83.00	2248.18	.09	13.84	.00	22.53	480.00
*	860.000	105.00	2248.33	.15	13.83	.00	24.79	480.00
*	970.000	46.00	2265.36	.00	17.49	.00	18.85	580.00
*	970.000	71.00	2265.59	.23	17.49	.00	22.13	580.00
*	970.000	83.00	2265.68	.09	17.50	.00	23.48	580.00
*	970.000	105.00	2265.83	.15	17.50	.00	25.64	580.00
*	1060.000	46.00	2280.33	.00	14.97	.00	17.16	480.00
*	1060.000	71.00	2280.58	.24	14.99	.00	20.30	480.00
*	1060.000	83.00	2280.67	.10	14.99	.00	21.54	480.00
*	1060.000	105.00	2280.83	.16	15.00	.00	23.58	480.00
*	1160.000	46.00	2297.00	.00	16.67	.00	31.11	530.00
*	1160.000	71.00	2297.16	.16	16.58	.00	36.56	530.00
*	1160.000	83.00	2297.24	.08	16.56	.00	38.87	530.00
*	1160.000	105.00	2297.33	.10	16.50	.00	41.10	530.00
*	1250.000	46.00	2314.04	.00	17.04	.00	21.26	480.00
*	1250.000	71.00	2314.24	.20	17.08	.00	25.27	480.00
*	1250.000	83.00	2314.32	.08	17.08	.00	26.89	480.00
*	1250.000	105.00	2314.45	.13	17.12	.00	29.58	480.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    970.000  PROFILE=  4  CRITICAL DEPTH ASSUMED

CAUTION SECNO=    170.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    280.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    380.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    380.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    600.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    600.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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NOTE    SECNO=   600.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=   600.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=   600.000  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=   600.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=   600.000  PROFILE=  4  WSEL BASED ON X5 CARD
WARNING SECNO=   600.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=   610.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=   610.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=   610.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=   680.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   770.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   770.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   770.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   770.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   970.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  1060.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1060.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1160.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1160.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1250.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
```

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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     4/ 3/90   TIME   13: 5:38           *
*****************************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 4/ 3/90 13: 5:38

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LAC2/315.02
T2       100-YR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3       OCOTILLO TRIB.4          (OCT4.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    NVINS     Q         WSEL      FQ

                2                           .02                                   2124.09

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0
                                                      200

J5  LPRNT     NUMSEC                    ********REQUESTED SECTION NUMBERS********

    -10       -10

QT       2        83        83
NC    .045      .045      .035        .1        .3
ET                         4.1    9981.1   10005.2
X1     970        21    9962.3   10427.3
X3                                                10080.7
GR  2144.7    9863.2    2143.0    9883.3    2128.8    9934.6    2127.3    9962.3    2122.9    9988.0
GR  2123.4   10000.0    2125.1   10013.1    2126.9   10080.7    2124.2   10097.1    2123.2   10103.8
GR  2125.0   10116.4    2125.9   10141.2    2124.2   10178.8    2126.6   10218.2    2126.1   10274.3
GR  2125.9   10343.5    2127.2   10377.8    2126.5   10398.6    2128.4   10427.3    2140.5   10460.8
GR  2142.0   10467.2

ET                         4.1    9992.2   10009.2
X1     170        41    9944.5   10013.3       930       870       900
X3                                                10231.0
GR  2162.1    9747.0    2155.6    9782.5    2159.3    9817.6    2157.2    9849.1    2154.8    9876.3
GR  2151.7    9889.0    2148.5    9944.5    2148.1    9979.9    2143.7   10000.0    2146.2   10013.3
GR  2149.3   10036.3    2153.7   10074.5    2156.2   10112.6    2163.0   10161.4    2164.9   10198.4
GR  2165.3   10224.1    2165.3   10231.0    2161.8   10259.9    2157.8   10278.2    2157.8   10294.7
GR  2144.4   10304.9    2144.8   10327.6    2143.7   10400.9    2143.6   10425.2    2142.9   10446.1
GR  2145.8   10491.3    2142.5   10509.6    2146.1   10525.7    2147.5   10563.8    2144.6   10599.4
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	2148.8	10645.7	2149.1	10665.0	2149.3	10728.2	2148.5	10781.6	2148.3	10816.8
GR	2155.3	10868.8	2164.5	10899.5	2167.6	10916.4	2168.4	10944.4	2167.6	10979.7
GR	2167.8	10993.5								
ET			4.1	9985.79	10015.19					
X1	280	17	9964.0	10013.7	590	570	580			
GR	2174.8	9822.0	2178.9	9837.0	2179.9	9851.8	2178.5	9871.7	2175.2	9890.9
GR	2168.8	9925.6	2161.5	9964.0	2158.9	10000.0	2159.4	10013.7	2166.5	10033.8
GR	2174.2	10059.3	2176.1	10070.2	2175.6	10087.8	2173.9	10095.3	2171.6	10106.2
GR	2174.1	10122.3	2173.6	10133.3						
ET			4.1	9993.26	10009.60					
NC	.05	.05	.04							
X1	380	11	10000.0	10051.9	510	550	530			
GR	2189.8	9852.4	2190.7	9916.7	2189.9	9930.6	2186.5	9946.4	2171.7	10000.0
GR	2174.2	10012.9	2174.4	10051.9	2176.5	10070.3	2187.5	10103.5	2195.2	10122.4
GR	2195.7	10167.6								
ET			4.1	9985.55	10007.86					
X1	480	13	9984.0	10023.7	550	510	530			
GR	2205.3	9780.7	2203.9	9902.3	2202.2	9927.5	2194.9	9950.9	2186.8	9984.0
GR	2185.0	10000.0	2189.9	10023.7	2195.7	10054.8	2196.8	10070.2	2200.8	10126.5
GR	2202.8	10158.5	2202.6	10211.9	2202.5	10215.0				
ET			4.1	9983.12	9998.84					
NC	.05	.05	.04	.3	.5					
X1	570	16	9986.7	10000.0	470	490	480		-1.8	
GR	2213.9	9775.0	2213.8	9838.0	2208.3	9848.1	2210.4	9860.1	2208.8	9882.4
	2205.8	9890.0	2210.2	9916.9	2213.5	9929.4	2213.2	9934.9	2213.0	9958.3
GR	2197.8	9986.7	2199.9	10000.0	2204.9	10050.2	2212.1	10111.0	2212.5	10145.8
GR	2213.3	10174.2								
ET			4.1	9997.6	10000.0					
X1	580	19	9997.6	10000.0	50	50	50			
X3	10							2215.4	2215.4	
GR	2214.4	9720.7	2214.8	9768.4	2210.2	9799.7	2213.8	9828.6	2214.1	9865.6
GR	2214.5	9882.3	2214.1	9906.8	2210.3	9929.2	2209.3	9955.7	2200.8	9997.6
GR	2200.8	10000.0	2205.5	10022.7	2206.0	10027.2	2209.0	10060.1	2211.6	10068.3
GR	2212.8	10090.9	2212.5	10108.5	2215.2	10145.2	2214.3	10153.2		
X1	600				110	110	110		4.2	
X3	10							2215.4	2215.4	
X5	2	2214.38	2214.38							
ET			4.1	9973.7	10030.1					
X1	610	17	9982.7	10021.7	50	50	50			
GR	2216.6	9676.9	2218.4	9737.5	2216.9	9764.5	2217.5	9787.3	2218.8	9817.9
GR	2219.2	9863.8	2217.5	9925.0	2215.3	9960.2	2207.3	9982.7	2205.9	10000.0
GR	2205.3	10008.4	2209.6	10021.7	2211.3	10037.6	2214.8	10053.3	2218.2	10079.4
GR	2218.9	10109.0	2218.7	10133.1						

ET			4.1	9978.3	10003.4					
NC	.05	.05	.04	.1	.3					
X1	680	15	9984.7	10000.0	370	370	370			
GR	2229.9	9776.4	2228.9	9850.0	2227.8	9877.8	2224.2	9906.0	2222.0	9933.5
GR	2219.7	9962.4	2216.1	9984.7	2216.5	9997.3	2216.1	10000.0	2224.2	10027.3
GR	2225.3	10045.9	2226.8	10102.0	2227.3	10161.7	2227.3	10213.0	2226.9	10243.3
ET			4.1	9991.31	10010.36					
NC	.045	.045	.045							
X1	770	14	9973.9	10019.8	470	470	470			
GR	2241.5	9842.7	2241.3	9936.1	2241.4	9973.9	2232.6	9995.6	2233.2	10000.0
GR	2235.4	10019.8	2235.0	10056.6	2235.9	10079.2	2239.9	10101.3	2239.2	10130.6
GR	2240.2	10138.8	2238.8	10168.2	2237.3	10190.3	2238.6	10215.0		
ET			4.1	9989.03	10011.58					
NC	.045	.045	.025							
X1	860	11	9983.0	10032.0	480	480	480			
GR	2252.3	9767.0	2252.1	9872.8	2250.2	9925.8	2249.9	9958.8	2250.2	9960.0
GR	2249.0	9983.0	2246.7	10000.0	2250.8	10032.0	2254.1	10067.4	2254.9	10111.5
GR	2254.1	10180.0								
ET			4.1	9990.78	10014.25					
NC	.045	.045	.045							
X1	970	8	10000.0	10005.6	580	580	580			
GR	2271.1	9872.7	2271.2	9902.5	2270.1	9956.8	2264.4	10000.0	2264.5	10005.6
GR	2268.2	10032.7	2269.7	10059.1	2269.8	10130.4				
ET			4.1	9990.98	10012.54					
X1	1060	15	9996.1	10000.0	480	480	480			
GR	2284.5	9914.8	2286.1	9953.1	2284.3	9977.5	2279.3	9996.1	2279.3	10000.0
GR	2281.9	10023.7	2284.1	10049.6	2285.9	10083.2	2286.0	10118.5	2286.9	10165.2
GR	2286.9	10236.0	2286.4	10281.5	2286.2	10316.2	2285.7	10338.1	2286.4	10347.9
ET			4.1	9973.23	10012.09					
X1	1160	12	9993.0	10000.0	530	530	530			
GR	2301.9	9859.8	2300.0	9945.0	2297.2	9973.6	2296.3	9993.0	2296.3	10000.0
GR	2297.4	10014.2	2298.8	10023.3	2300.6	10075.3	2299.8	10115.0	2301.2	10167.8
GR	2301.9	10208.9	2301.4	10227.3						
ET			4.1	9987.14	10014.03					
X1	1250	13	9977.6	10025.5	490	470	480			
GR	2319.4	9818.8	2316.8	9864.4	2315.6	9916.3	2315.1	9961.7	2315.3	9977.6
GR	2313.0	10000.0	2315.4	10025.5	2315.3	10059.5	2316.1	10094.8	2317.0	10136.5
GR	2316.9	10168.1	2316.1	10188.6	2314.9	10199.7				

T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA0[illegible]5.H2
T2 100-YR FLOOD FREQUENCY MODEL - (ENCROACHMENT CONDITIONS)
T3 OCOTILLO WASH, TRIB. 4 (OCT4.MCE)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3							2124.09	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	SK	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

THIS RUN EXECUTED 4/ 3/90 13: 5:54

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCOTILLO TRIB.4

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLOB	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	970.000	83.00	4.81	1.19	2122.90	.00	2124.09	5.81	24.27	9981.05	9962.30	10427.30	10005.32
	970.000	83.00	4.81	1.19	2122.90	.00	2124.09	5.81	24.27	9981.05	9962.30	10427.30	10005.32
*	170.000	83.00	5.55	2.94	2142.50	900.00	2145.44	5.71	17.20	9992.05	9944.50	10013.30	10009.25
*	170.000	83.00	5.55	2.94	2142.50	900.00	2145.44	5.71	17.20	9992.05	9944.50	10013.30	10009.25
	280.000	83.00	4.57	1.03	2158.90	580.00	2159.93	5.74	29.43	9985.76	9964.00	10013.70	10015.20
*	280.000	83.00	4.57	1.03	2158.90	580.00	2159.93	5.75	29.40	9985.79	9964.00	10013.70	10015.19
*	380.000	83.00	5.97	1.86	2171.70	530.00	2173.56	4.87	16.35	9993.26	10000.00	10051.90	10009.61
*	380.000	83.00	6.00	1.86	2171.70	530.00	2173.56	4.84	16.31	9993.27	10000.00	10051.90	10009.58
	480.000	83.00	4.58	1.63	2185.00	530.00	2186.63	5.81	22.29	9985.56	9984.00	10023.70	10007.86
	480.000	83.00	4.57	1.62	2185.00	530.00	2186.62	5.84	22.31	9985.55	9984.00	10023.70	10007.86
*	570.000	83.00	5.85	1.92	2196.00	480.00	2197.92	5.08	15.72	9983.12	9986.70	10000.00	9998.84
*	570.000	83.00	5.92	1.91	2196.00	480.00	2197.91	5.00	15.63	9983.14	9986.70	10000.00	9998.77
*	580.000	83.00	10.40	3.33	2200.80	50.00	2204.13	6.61	2.40	9997.60	9997.60	10000.00	10000.00
*	580.000	83.00	10.40	3.33	2200.80	50.00	2204.13	3.70	2.40	9997.60	9997.60	10000.00	10000.00
*	600.000	83.00	3.69	9.38	2205.00	110.00	2214.38	37.21	2.40	9997.60	9997.60	10000.00	10000.00
*	600.000	83.00	3.69	9.38	2205.00	110.00	2214.38	37.21	2.40	9997.60	9997.60	10000.00	10000.00
*	610.000	83.00	.21	9.35	2205.30	50.00	2214.65	569.51	90.63	9962.02	9982.70	10021.70	10052.64
*	610.000	83.00	.23	9.35	2205.30	50.00	2214.65	517.35	56.40	9973.70	9982.70	10021.70	10030.10
*	680.000	83.00	5.25	1.04	2216.10	370.00	2217.14	5.21	25.24	9978.26	9984.70	10000.00	10003.50
*	680.000	83.00	5.17	1.05	2216.10	370.00	2217.15	5.34	25.10	9978.30	9984.70	10000.00	10003.40
*	770.000	83.00	5.21	1.74	2232.60	470.00	2234.34	4.61	18.95	9991.31	9973.90	10019.80	10010.26
*	770.000	83.00	5.24	1.74	2232.60	470.00	2234.34	4.57	18.90	9991.32	9973.90	10019.80	10010.22

	SECNO	Q	VCH	DEPTH	ELMIN	ELCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	860.000	83.00	4.97	1.48	2246.70	480.00	2248.18	8.09	22.53	9989.04	9983.00	10032.00	10011.57
*	860.000	83.00	4.98	1.48	2246.70	480.00	2248.18	8.07	22.52	9989.05	9983.00	10032.00	10011.56
*	970.000	83.00	6.01	1.28	2264.40	580.00	2265.68	5.24	23.48	9990.77	10000.00	10005.60	10014.25
*	970.000	83.00	5.81	1.31	2264.40	580.00	2265.71	5.49	23.47	9990.78	10000.00	10005.60	10014.25
*	1060.000	83.00	6.42	1.37	2279.30	480.00	2280.67	5.28	21.54	9990.99	9996.10	10000.00	10012.53
*	1060.000	83.00	6.25	1.39	2279.30	480.00	2280.69	5.47	21.56	9990.98	9996.10	10000.00	10012.54
*	1160.000	83.00	5.12	.94	2296.30	530.00	2297.24	5.13	38.87	9973.22	9993.00	10000.00	10012.09
*	1160.000	83.00	5.06	.94	2296.30	530.00	2297.24	5.21	38.86	9973.23	9993.00	10000.00	10012.09
*	1250.000	83.00	4.68	1.32	2313.00	480.00	2314.32	4.43	26.89	9987.14	9977.60	10025.50	10014.03
*	1250.000	83.00	4.64	1.33	2313.00	420.00	2314.33	4.49	26.89	9987.14	9977.60	10025.50	10014.03

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=    170.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    280.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    600.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    600.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    600.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    600.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    610.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    610.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    680.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    680.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    680.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    680.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    680.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    680.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    770.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    770.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    770.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    770.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    970.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    970.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    970.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    970.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    970.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1060.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1160.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1250.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

FLOODWAY DATA, OCOTILLO TRIB.4
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
970.000	24.	17.	4.8	2124.1	2124.1	.0
170.000	17.	15.	5.5	2145.4	2145.4	.0
280.000	29.	18.	4.5	2159.9	2159.9	.0
380.000	16.	15.	5.5	2173.6	2173.6	.0
480.000	22.	18.	4.6	2186.6	2186.6	.0
570.000	16.	15.	5.6	2197.9	2197.9	.0
580.000	2.	8.	10.4	2204.1	2204.1	.0
600.000	2.	23.	3.7	2214.4	2214.4	.0
610.000	56.	402.	.2	2214.7	2214.7	.0
680.000	25.	18.	4.5	2217.1	2217.1	.0
770.000	19.	16.	5.2	2234.3	2234.3	.0
860.000	23.	17.	5.0	2248.2	2248.2	.0
970.000	23.	18.	4.5	2265.7	2265.7	.0
1060.000	22.	18.	4.6	2280.7	2280.7	.0
1160.000	39.	22.	3.8	2297.2	2297.2	.0
1250.000	27.	18.	4.6	2314.3	2314.3	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     2/26/90   TIME   16:19: 2           *
*****************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

RO.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:19: 3

```
*****************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
*****************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH                (RO.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                                                          2313.70

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150


QT       4      3033      4531      5307      6687

NC    .048      .048      .042        .1        .3


       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
X1    1520        14      9970     10050
      2340      9940      2320      9960      2312      9970      2311     10000      2311     10030
      2312     10050      2312     10110      2311     10120      2311     10160      2312     10180
GR    2313     10220      2316     10370      2320     10420      2340     10520
```

NC	.05	.05	.048							
X1	1600	14	9982.7	10407.2	400	380	420			
GR	2352.6	9892.9	2329.5	9923.7	2324.4	9982.7	2324.5	9983.7	2324.0	10000.0
GR	2324.8	10038.0	2324.5	10090.7	2326.8	10128.9	2326.4	10216.6	2326.2	10326.8
GR	2326.2	10376.8	2329.7	10407.2	2336.7	10464.6	2343.5	10504.3		
X1	1740	22	9580.0	10116.8	750	730	740			
GR	2364.0	9525.0	2344.0	9580.0	2345.0	9615.0	2344.5	9640.0	2345.5	9670.0
GR	2345.0	9695.0	2345.5	9705.5	2344.5	9750.0	2343.8	9775.0	2345.7	9795.0
GR	2345.7	9855.0	2343.6	9882.0	2344.5	9900.0	2344.5	9950.0	2343.9	9980.0
GR	2343.5	10000.0	2344.1	10034.0	2344.8	10076.6	2347.3	10094.5	2346.0	10116.8
GR	2355.1	10138.4	2366.0	10161.0						
NH	4	999	9601.2	.05	9672.8	.048	10103.7	.05	10141.4	
X1	1830	23	9672.8	10103.7	500	480	480			
GR	2382.0	9341.3	2361.9	9389.2	2355.9	9422.8	2357.6	9438.1	2359.9	9461.3
GR	2361.5	9514.6	2362.9	9601.2	2359.8	9634.2	2362.2	9672.8	2357.7	9691.6
GR	2361.1	9732.7	2360.6	9838.9	2359.4	9884.8	2362.1	9899.5	2359.6	9939.3
GR	2359.0	9961.7	2358.7	10000.0	2361.1	10029.5	2361.4	10056.0	2358.7	10078.9
GR	2361.2	10103.7	2382.6	10137.4	2384.0	10141.4				
NC	.05	.05	.048							
X1	1940	26	9732.1	10028.9	580	580	580			
GR	2406.0	9478.1	2403.3	9507.7	2399.3	9549.7	2396.1	9562.2	2395.9	9569.2
GR	2381.8	9591.9	2376.2	9612.4	2377.3	9631.2	2370.1	9658.1	2373.2	9665.2
GR	2375.0	9681.0	2374.8	9732.1	2373.0	9781.9	2377.0	9793.6	2372.8	9801.8
GR	2374.6	9825.2	2376.4	9886.6	2378.8	9958.9	2377.1	9966.0	2373.8	9988.0
GR	2375.1	10000.0	2376.0	10024.9	2376.2	10028.9	2378.0	10043.6	2382.1	10062.7
GR	2399.9	10099.7								
X1	2050	17	9668.3	10019.1	590	600	580			
GR	2413.3	9559.9	2395.6	9595.3	2390.4	9614.9	2391.2	9652.6	2391.1	9668.3
GR	2390.4	9731.0	2391.9	9829.3	2393.2	9862.9	2391.2	9906.1	2389.5	9919.0
GR	2391.2	9957.9	2390.3	9980.0	2389.4	10000.0	2389.8	10019.1	2392.0	10026.1
GR	2417.6	10050.0	2424.3	10088.5						
X1	2140	17	9829.1	10045.3	470	470	480			
GR	2423.8	9738.5	2417.0	9768.7	2412.3	9802.3	2406.2	9811.3	2404.6	9829.1
GR	2405.7	9856.6	2406.8	9889.7	2403.7	9927.2	2401.3	9946.1	2403.1	9974.5
GR	2401.5	9985.0	2401.3	10000.0	2402.2	10022.4	2401.1	10032.1	2401.7	10045.3
GR	2410.0	10062.1	2426.0	10094.8						

```
X1    2250      14    9753.9   10083.1     450     500     580
GR   2440.9  9722.3    2423.5    9753.9  2416.5  9777.0  2416.0  9790.1  2415.6  9904.6
GR   2415.7  9919.8    2414.0    9974.4  2414.8 10000.0  2415.1 10022.9  2414.1 10025.5
GR   2417.5 10083.0    2417.8   10083.1  2430.1 10152.4  2442.0 10203.5

X1    2370      14    9983.4   10427.1     630     630     630
GR   2455.9  9952.1    2432.3    9983.4  2430.8 10000.0  2432.6 10022.0  2434.6 10125.7
GR   2436.2 10209.9    2438.9   10326.5  2438.0 10371.8  2434.9 10391.2  2438.0 10412.4
GR   2438.5 10427.1    2438.1   10445.3  2449.6 10487.6  2452.0 10514.4

X1    2450      15    9988.6   10396.5     430     410     420
GR   2465.3  9959.5    2442.7    9981.1  2441.9  9988.6  2441.7 10000.0  2442.2 10018.2
GR   2444.3 10055.5    2444.4   10221.2  2444.3 10306.8  2443.3 10396.5  2452.4 10418.3
GR   2454.9 10433.3    2457.1   10550.1  2457.4 10593.2  2462.5 10632.5  2462.5 10640.1

        CONFLUENCE WITH GRAPEVINE WASH
X1    2510      21    9935.4   10144.5     330     310     320
GR   2474.0  9907.3    2452.4    9935.4  2451.8  9952.0  2451.9  9973.1  2451.1 10000.0
GR   2452.9 10018.9    2451.6   10055.8  2454.2 10075.7  2453.7 10144.5  2451.0 10245.3
GR   2446.8 10309.6    2446.9   10325.7  2459.7 10346.5  2461.4 10357.1  2462.3 10394.0
GR   2465.0 10443.2    2465.6   10466.0  2465.3 10486.2  2467.0 10517.1  2467.6 10518.3
     2476.1 10579.7

        WEST BRAID ELIMINATED FROM RUN
X1    2570      13    9685.0   10025.0     310     330     320
GR   2480.0  9655.0    2460.7    9685.0  2460.8  9705.0  2461.0  9720.0  2463.0  9750.0
GR   2461.5  9860.0    2461.0    9920.0  2462.0  9940.0  2460.5  9965.0  2460.0  9985.0
GR   2459.5 10000.0    2462.0   10025.0  2472.0 10026.0

NH       5     .05    9607.6       .04  9673.0     .05  9953.8    .035 10050.2     .05
NH   10201

X1    2620      18    9633.9   10050.2     250     270     260
GR   2491.6  9564.4    2468.0    9607.6  2468.2  9619.0  2470.7  9633.9  2468.6  9653.1
GR   2467.9  9667.0    2469.1    9673.0  2469.4  9688.6  2471.3  9749.8  2471.2  9851.2
GR   2469.9  9953.8    2465.4    9985.6  2466.8 10000.0  2468.6 10016.3  2466.6 10050.2
GR   2487.1 10070.3    2493.6   10134.0  2495.3  10201

NH       5     .05    9673.3       .04  9700.3     .05  9924.9    .035 10020.2     .05
NH   10069

X1    2690      20    9611.9   10020.2     370     370     370
GR   2502.5  9566.6    2490.1    9589.5  2484.2  9611.9  2483.8  9630.6  2482.5  9656.7
GR   2480.8  9673.3    2481.2    9700.3  2481.4  9700.3  2481.2  9722.8  2482.1  9755.8
     2481.5  9839.0    2479.9    9901.0  2478.5  9924.9  2477.1  9979.4  2475.6  9988.7
     2475.3 10000.0    2475.9   10013.0  2478.6 10020.2  2479.6 10040.7  2484.4   10069
```

```
QT      4      1225      1782      2048      2512

NC    .05       .05      .048

        QT VALUES FROM CP 50
X1   2760        13    9919.8    9981.2       370       370       370
GR  2530.1    9830.3    2517.9    9869.9    2503.7    9902.5    2494.2    9919.8    2492.5    9961.1
GR  2494.1    9981.2    2494.0    9982.5    2493.4   10000.0    2493.7   10020.8    2494.1   10063.3
GR  2492.1   10116.4    2511.1   10141.8    2513.0   10150.9


X1   2840         9    9986.4   10017.7       410       430       420
GR  2522.3    9954.0    2505.8    9986.4    2502.9    9995.0    2505.4   10000.0    2507.5   10017.7
GR  2507.5   10061.3    2507.4   10125.0    2519.7   10146.8    2530.9   10160.5


NC    .05       .05      .035

X1   2900        10    9988.6   10012.9       310       330       320
GR  2536.3    9963.8    2512.6    9988.6    2512.9    9989.9    2511.6   10000.0    2514.1   10012.9
GR  2516.3   10026.3    2516.6   10065.1    2517.3   10124.9    2516.4   10137.4    2532.3   10169.6


        CONFLUENCE WITH ROWE TRIB. 1.
   3010        11    9991.2   10009.3       580       580       580
  2550.6    9929.2    2533.2    9961.3    2533.2    9973.2    2530.4    9991.2    2531.3   10000.0
GR  2531.3   10009.3    2534.2   10019.7    2534.9   10046.5    2534.5   10076.1    2538.3   10088.3
GR  2555.4   10124.6


QT      4       790      1158      1334      1639

NC    .05       .05      .045

        QT VALUES FROM CP 50A
X1   3090         9    9984.3   10013.1       420       420       420
GR  2561.4    9916.1    2551.5    9941.4    2547.8    9977.2    2546.6    9984.3    2543.7   10000.0
GR  2545.8   10013.1    2548.1   10015.8    2567.3   10043.5    2565.5   10051.1


NC   .055      .055      .045

X1   3160         7    9991.0   10004.8       360       390       370
GR  2581.1    9960.5    2562.4    9991.0    2560.8    9998.3    2561.3   10000.0    2562.9   10004.8
GR  2566.1   10010.1    2589.0   10039.5


X1   3250        16    9973.2   10009.8       480       480       480
GR  2602.9    9949.4    2590.1    9973.2    2587.9    9987.2    2588.1    9989.2    2588.5    9998.6
GR  2588.9   10000.0    2590.2   10009.8    2590.5   10010.0    2592.4   10019.5    2592.3   10033.3
GR  2597.5   10047.5    2605.3   10064.4    2605.8   10078.4    2604.7   10102.9    2606.0   10128.0
GR  2608.5   10136.2
```

X1	3320	8	9987.9	10009.7	380	360	370			
GR	2618.8	9944.2	2615.5	9964.5	2607.0	9978.5	2600.0	9987.9	2600.6	10000.0
GR	2600.8	10009.7	2602.3	10012.4	2615.6	10032.9				
X1	3410	9	9990.1	10009.4	480	480	480			
GR	2646.1	9924.8	2641.6	9952.5	2634.8	9970.5	2625.2	9987.6	2624.8	9990.1
GR	2622.4	9997.4	2622.2	10000.0	2627.0	10009.4	2648.6	10037.5		
X1	3470	7	9990.8	10000.0	330	310	320			
GR	2664.0	9962.5	2642.3	9990.8	2640.0	9997.9	2643.5	10000.0	2652.6	10014.1
GR	2659.5	10039.0	2664.9	10046.9						
X1	3520	8	10008.9	10017.4	240	280	260			
GR	2679.9	9956.3	2663.3	9981.3	2662.7	9992.0	2662.7	10000.0	2661.1	10008.9
GR	2660.3	10017.4	2673.4	10035.6	2678.3	10046.8				
X1	3590	7	9986.5	10000.0	380	360	370			
GR	2705.3	9961.1	2684.0	9986.5	2681.8	9997.1	2684.8	10000.0	2692.5	10009.8
GR	2708.1	10038.3	2709.8	10042.2						
	3680	9	9993.1	10000.0	480	480	480			
GR	2742.9	9966.4	2727.8	9982.1	2721.5	9985.6	2716.2	9993.1	2716.2	10000.0
GR	2723.2	10011.5	2725.4	10015.7	2738.1	10042.2	2738.0	10044.8		
X1	3780	7	9998.9	10009.1	520	540	530			
GR	2773.8	9958.6	2765.1	9982.6	2760.3	9988.0	2751.6	9998.9	2751.9	10000.0
GR	2753.2	10009.1	2769.1	10031.4						
X1	3880	6	9987.9	10011.4	550	510	530			
GR	2820.3	9956.5	2805.6	9987.9	2802.1	10000.0	2805.7	10011.4	2812.8	10039.3
GR	2822.9	10065.0								
X1	3940	7	9987.4	10000.0	310	330	320			
GR	2833.1	9943.9	2818.2	9987.4	2815.8	9995.1	2817.6	10000.0	2822.7	10010.8
GR	2837.5	10039.6	2837.6	10044.4						

CONFLUENCE WITH ROWE TRIB. 2.

X1	3980	10	9984.3	10011.5	220	200	210			
GR	2853.3	9928.8	2845.4	9954.8	2843.2	9972.7	2839.8	9984.3	2833.9	9995.3
GR	2836.1	10000.0	2838.7	10011.5	2838.8	10012.5	2846.6	10030.7	2853.5	10042.1

```
QT      4      217      305      352      433

        QT VALUES FROM SUBWTRSHD H1F
X1   4050       10   9985.8  10000.0      360      380      370
GR  2884.8   9938.4   2871.6   9958.2   2864.5   9978.5   2861.7   9985.8   2860.8   9994.1
GR  2861.6  10000.0   2865.4  10010.8   2878.7  10032.5   2873.7  10058.0   2882.4  10074.4

X1   4160       16   9968.8  10000.0      580      580      580
GR  2945.6   9901.5   2935.2   9929.9   2927.5   9956.7   2927.5   9960.0   2922.5   9968.8
GR  2923.8   9978.9   2924.7   9986.0   2924.3  10000.0   2927.9  10011.0   2930.6  10024.2
GR  2938.7  10039.0   2945.7  10053.4   2943.8  10089.9   2944.3  10094.1   2948.6  10105.1
GR  2955.8  10127.8

X1   4250       14   9985.1  10007.4      500      460      480
GR  2985.4   9925.3   2982.1   9945.6   2972.7   9965.6   2968.9   9981.3   2968.3   9985.1
GR  2965.2   9996.3   2965.9  10000.0   2967.6  10007.4   2967.8  10010.8   2967.8  10022.8
GR  2976.5  10047.4   2980.0  10064.0   2979.8  10081.6   2985.4  10107.6

X1   4350        7   9990.8  10000.0      530      530      530
GR  3063.1   9953.1   3053.6   9977.8   3038.8   9990.8   3042.0  10000.0   3044.9  10011.4
GR  3059.3  10038.0   3061.9  10046.7

X1   4440        8   9988.3  10013.0      480      480      480
GR  3158.9   9952.6   3145.9   9975.6   3137.1   9988.3   3132.8  10000.0   3138.7  10013.0
GR  3146.0  10040.4   3151.3  10071.6   3152.4  10078.7

X1   4530        5   9991.0  10000.0      480      480      480
GR  3269.5   9947.8   3254.5   9968.2   3241.6   9991.0   3246.1  10000.0   3260.9  10023.3
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```
 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     2.70  2313.70      .00  2313.70  2314.24      .54      .00      .00  2312.00
    3033.      5.    1288.    1740.       2.     191.     336.       0.       0.   2312.00
      .00     2.52     6.75     5.17     .048     .042     .048     .000  2311.00  9967.88
    .1400       0.       0.       0.        0        0        0      .00   287.12 10255.00


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     2.94  2326.94  2326.94      .00  2327.54      .60     7.45      .02  2324.40
    3033.     239.    2794.       0.      37.     452.       0.       5.       3.   2329.70
      .02     6.40     6.18      .00     .050     .048     .000     .000  2324.00  9953.33
  .033942     400.     420.     380.       20        8        0      .00   429.89 10383.22


*SECNO 1740.000
 1740.000     2.39  2345.89      .00      .00  2346.26      .38    18.70      .02  2344.00
    3033.      19.    3014.       0.       5.     612.       0.      14.      11.   2346.00
      .06     3.84     4.92      .00     .050     .048     .000     .000  2343.50  9574.79
  .019530     750.     740.     730.        6        0        0      .00   509.63 10084.42


1490 NH CARD USED
*SECNO 1830.000
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1830.000	5.30	2361.20	2361.20	.00	2361.83	.63	12.46	.08	2362.20
3033.	117.	2916.	0.	258.	450.	0.	22.	17.	2361.20
.08	.45	6.48	.00	1.155	.048	.000	.000	2355.90	9393.11
.036075	500.	480.	480.	20	26	0	.00	537.21	10103.70

*SECNO 1940.000

3265 DIVIDED FLOW

1940.000	6.05	2376.15	.00	.00	2376.79	.64	14.96	.00	2374.80
3033.	1436.	1597.	0.	196.	289.	0.	29.	23.	2376.20
.11	7.31	5.53	.00	.050	.048	.000	.000	2370.10	9635.51
.9346	580.	580.	580.	4	0	0	.00	293.76	10027.83

*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2050.000	2.67	2392.07	2392.07	.00	2392.73	.66	14.29	.01	2391.10
3033.	393.	2593.	47.	67.	390.	8.	36.	27.	2389.80
.13	5.84	6.65	5.71	.050	.048	.050	.000	2389.40	9608.62
.032045	590.	580.	600.	5	18	0	.00	363.71	10026.16

*SECNO 2140.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

2140.000	3.65	2404.75	2404.70	.00	2405.93	1.18	13.05	.16	2404.60
3033.	0.	2980.	53.	0.	340.	9.	40.	30.	2401.70
.15	.82	8.76	5.61	.050	.048	.050	.000	2401.10	9827.38
.023432	470.	480.	470.	8	11	0	.00	142.64	10051.48

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

2250.000	3.14	2417.14	.00	.00	2417.67	.53	11.67	.06	2423.50
3033.	0.	3033.	0.	0.	517.	0.	46.	33.	2417.80
.17	.00	5.86	.00	.000	.048	.000	.000	2414.00	9774.90
.017508	450.	580.	500.	6	0	0	.00	301.96	10076.86

*SECNO 2370.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2370.000	4.73	2435.53	2435.53	.00	2436.51	.97	13.82	.13	2432.30
3033.	41.	2992.	0.	7.	377.	0.	53.	36.	2438.50
.20	5.93	7.94	.00	.050	.048	.000	.000	2430.80	9979.11
8287	630.	630.	630.	14	14	0	.00	204.11	10395.54

*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

2450.000	3.62	2445.32	.00	.00	2445.75	.43	9.19	.05	2441.90
3033.	197.	2818.	18.	26.	559.	5.	57.	39.	2443.30
.22	7.59	5.04	3.74	.050	.048	.050	.000	2441.70	9978.59
.017388	430.	420.	410.	7	0	0	.00	422.75	10401.34

*SECNO 2510.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
CONFLUENCE WITH GRAPEVINE WASH

2510.000	5.49	2452.29	2452.29	.00	2453.27	.99	4.94	.17	2452.40
3033.	0.	115.	2918.	0.	49.	360.	61.	42.	2453.70
.23	.00	2.32	8.12	.000	.048	.050	.000	2446.80	9938.58
4182	330.	320.	310.	3	14	0	.00	235.69	10334.45

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2570.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        WEST BRAID ELIMINATED FROM RUN
 2570.000     3.23  2462.73  2462.73      .00  2463.46      .73     6.60      .03  2460.70
    3033.      15.    3018.       0.       3.     441.       0.      64.      44.   2462.00
      .24     4.76     6.85      .05     .050     .048     .050     .000  2459.50  9681.84
  .031540     310.     320.     330.       14       14        0      .00   319.77 10025.07


1490 NH CARD USED
*SECNO 2620.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     4.87  2470.27  2470.27      .00  2471.15      .88     4.49      .05  2470.70
    3033.     227.    2782.      24.      42.     362.       7.      67.      46.   2466.60
      .25     5.35     7.69     3.67     .041     .029     .050     .000  2465.40  9603.44
  .010913     250.     260.     270.        5       14        0      .00   236.46 10053.80


1490 NH CARD USED
*SECNO 2690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     4.99  2480.29  2480.29      .00  2481.42     1.13     4.66      .08  2484.20
    3033.       0.    2932.     101.       0.     339.      26.      70.      47.   2478.60
      .26      .00     8.66     3.91     .000     .038     .050     .000  2475.30  9885.99
  .014707     370.     370.     370.       20        5        0      .00   158.76 10044.75


*SECNO 2760.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50
 2760.000     2.44  2494.54  2494.54      .00  2495.03      .49     6.46      .06  2494.20
    1225.       0.     441.     784.       0.      74.     144.      72.      49.   2494.10
      .28     1.42     5.94     5.46     .050     .048     .050     .000  2492.10  9919.18
  .028757     370.     370.     370.       20        9        0      .00   200.48 10119.66


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     5.65  2508.55  2508.55      .00  2509.22      .66     8.63      .05  2505.80
    1225.      31.     744.     450.       7.      95.     117.      75.      51.   2507.50
      .30     4.18     7.80     3.84     .050     .048     .050     .000  2502.90  9980.99
  .015092     410.     420.     430.        5        21        0      .00   146.05 10127.04


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
     PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
 2900.000     5.74  2517.34  2517.34      .00  2518.27      .93     2.66      .08  2512.60
    1225.      36.     984.     205.      12.     115.      93.      76.      52.   2514.10
      .31     3.06     8.54     2.19     .050     .035     .050     .000  2511.60  9983.64
  .005177     310.     320.     330.       20        5        0      .00   155.66 10139.30


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     4.53  2534.93  2534.93      .00  2535.91      .98     3.85      .02  2530.40
    1225.     421.     679.     125.      80.      70.      40.      79.      53.   2531.30
      .34     5.30     9.76     3.15     .050     .035     .050     .000  2530.40  9958.12
  .008796     580.     580.     580.       20       15        0      .00   119.35 10077.46


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 3090.000     4.18  2547.88  2547.88      .00  2549.14     1.26     4.82      .08  2546.60
     790.      15.     766.       9.       5.      84.       3.      80.      54.   2545.80
      .35     3.10     9.14     3.49     .050     .045     .050     .000  2543.70  9976.45
  .018837     420.     420.     420.       20       11        0      .00    39.08 10015.54


*SECNO 3160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     5.42  2566.22  2566.22      .00  2567.95     1.73     6.41      .14  2562.40
     790.      56.     693.      40.      12.      62.       9.      81.      55.   2562.90
      .36     4.73    11.13     4.42     .055     .045     .055     .000  2560.80  9984.77
  .015958     360.     370.     390.       20       11        0      .00    25.49 10010.26


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     3.45  2591.35  2591.35      .00  2592.52     1.17     8.80      .06  2590.10
     790.       4.     782.       5.       1.      90.       2.      82.      55.   2590.20
      .37     2.65     8.71     2.25     .055     .045     .055     .000  2587.90  9970.87
  .021300     480.     480.     480.       20       14        0      .00    43.40 10014.27


*SECNO 3320.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     3.70  2603.70  2603.70      .00  2605.15     1.45     7.53      .08  2600.00
     790.      45.     707.      37.       9.      70.       7.      83.      55.   2600.80
      .38     4.91    10.06     5.11     .055     .045     .055     .000  2600.00  9982.93
  .019483     380.     370.     360.       11        8        0      .00    31.64 10014.56


*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     5.30  2627.50  2627.50      .00  2629.12     1.62     9.58      .05  2624.80
     790.      62.     728.       0.      11.      69.       0.      84.      56.   2627.00
      .40     5.69    10.51     1.31     .055     .045     .055     .000  2622.20  9983.51
   0470     480.     480.     480.       20       14        0      .00    26.54 10010.05
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     7.10  2647.10  2647.10      .00  2649.13     2.04     6.15      .12  2642.30
     790.      84.     658.      48.      15.      53.      10.      84.      56.   2643.50
      .41     5.57    12.32     4.78     .055     .045     .055     .000  2640.00  9984.54
  .018031     330.     320.     310.       20       11        0      .00    21.03 10005.57


*SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     4.36  2664.66  2664.66      .00  2665.81     1.15     4.56      .09  2661.10
     790.     353.     368.      69.      59.      34.      13.      85.      56.   2660.30
      .41     5.93    10.93     5.24     .055     .045     .055     .000  2660.30  9979.25
  .017582     240.     260.     280.       20       14        0      .00    44.21 10023.46


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     5.87  2687.67  2687.67      .00  2689.63     1.95     6.63      .24  2684.00
     790.      37.     733.      21.       8.      63.       5.      86.      56.   2684.80
      .42     4.56    11.59     3.94     .055     .045     .055     .000  2681.80  9982.12
  .018065     380.     370.     360.       20       11        0      .00    21.53 10003.65


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     5.66  2721.86  2721.86      .00  2723.66     1.80     7.83      .02  2716.20
     790.     135.     499.     156.      23.      39.      26.      86.      56.   2716.20
      .44     5.98    12.76     5.92     .055     .045     .055     .000  2716.20  9985.40
  .014790     480.     480.     480.       20        8        0      .00    23.91 10009.30
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     5.73  2757.33  2757.33      .00  2759.23     1.90     8.38      .03  2751.60
    790.      124.     607.      59.      21.      50.      12.      88.      57.   2753.20
     .45     6.02    12.24     4.97     .055     .045     .055     .000  2751.60  9991.73
  .016966    520.     530.     540.       20        5        0      .00    23.16 10014.89


*SECNO 3880.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     5.10  2807.20  2807.20      .00  2808.66     1.47     9.52      .04  2805.60
    790.        8.     769.      13.       3.      78.       4.      89.      57.   2805.70
     .47     3.00     9.84     3.01     .055     .045     .055     .000  2802.10  9984.49
  .019005    550.     530.     510.       20       15        0      .00    32.79 10017.28


SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     5.69  2821.49  2821.49      .00  2823.08     1.60     5.50      .04  2818.20
    790.       72.     640.      79.      16.      58.      16.      89.      57.   2817.60
     .48     4.53    11.03     4.92     .055     .045     .055     .000  2815.80  9977.80
  .015619    310.     320.     330.       20        8        0      .00    30.43 10008.23


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     5.82  2839.72  2839.72      .00  2841.18     1.47     3.92      .01  2839.80
    790.        0.     784.       6.       0.      80.       2.      90.      57.   2838.70
     .48      .00     9.76     3.12     .000     .045     .055     .000  2833.90  9984.46
  .022721    220.     210.     200.       20        8        0      .00    30.18 10014.64


*SECNO 4050.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM SUBWTRSHD H1F
 4050.000     2.32  2863.12  2863.12      .00  2863.91      .79     8.34      .07  2861.70
     217.      8.     199.      10.       3.      27.       3.      90.      58.   2861.60
      .50     3.03     7.42     3.19     .055     .045     .055     .000  2860.80  9982.11
  .021844     360.     370.     380.       20       18        0      .00    22.20 10004.31


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     2.50  2925.00  2925.00      .00  2925.54      .54    15.45      .03  2922.50
     217.     29.     186.       2.       6.      31.       1.      91.      58.   2924.30
      .52     5.21     5.99     2.37     .055     .045     .055     .000  2922.50  9964.39
  .3224      580.     580.     580.       20        8        0      .00    37.76 10002.15


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     2.87  2968.07  2968.07      .00  2968.64      .57    12.10      .01  2968.30
     217.      0.     209.       8.       0.      34.       5.      91.      58.   2967.60
      .55      .00     6.17     1.67     .000     .045     .055     .000  2965.20  9985.94
  .019704     500.     480.     460.       20       11        0      .00    37.62 10023.56


*SECNO 4350.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4350.000     3.87  3042.67  3042.67      .00  3043.72     1.05    11.80      .14  3038.80
     217.     33.     182.       2.       7.      21.       1.      91.      59.   3042.00
      .56     5.06     8.73     2.02     .055     .045     .055     .000  3038.80  9987.40
  .025364     530.     530.     530.       20       11        0      .00    15.21 10002.62
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	3.42	3136.22	3136.22	.00	3137.10	.88	12.83	.02	3137.10
217.	0.	217.	0.	0.	29.	0.	92.	59.	3138.70
.58	.00	7.53	.00	.000	.045	.000	.000	3132.80	9990.69
.028195	480.	480.	480.	20	15	0	.00	16.84	10007.54

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	3.85	3245.45	3245.45	.00	3246.42	.97	14.55	.03	3241.60
217.	90.	127.	0.	13.	15.	0.	92.	59.	3246.10
.60	6.89	8.57	.00	.055	.045	.000	.000	3241.60	9984.20
.032674	480.	480.	480.	20	8	0	.00	14.50	9998.70

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   ROWE WASH     (RO.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                     2314.31

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT******************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     3.31  2314.31      .00  2314.31  2314.98      .66      .00      .00  2312.00
   4531.       10.    1822.    2699.       3.     240.     471.       0.       0.   2312.00
     .00     2.99     7.60     5.74     .048     .042     .048     .000  2311.00  9967.11
  .010676      0.       0.       0.        0        0        0      .00   318.39 10285.50


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.29  2327.29  2327.29      .00  2328.06      .77     6.93      .03  2324.40
   4531.      324.    4207.       0.      48.     594.       0.       6.       4.   2329.70
     .02     6.70     7.08      .00     .050     .048     .000     .000  2324.00  9949.24
  .031226     400.     420.     380.       20        5        0      .00   437.05 10386.29


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     2.70  2346.20      .00      .00  2346.73      .53    18.64      .02  2344.00
   4531.       29.    4502.       0.       7.     769.       0.      18.      12.   2346.00
     .05     4.38     5.86      .04     .050     .048     .050     .000  2343.50  9573.95
  .020736     750.     740.     730.        6        0        0      .00   516.61 10117.28
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.64  2361.54  2361.54      .00  2362.34      .80    12.80      .08  2362.20
    4531.     207.    4324.       0.     313.     589.       0.      28.      18.   2361.20
      .07      .66     7.33      .06     .795     .048     .050     .000  2355.90  9391.20
  .035438     500.     480.     480.       20       23        0      .00   589.53 10104.24


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.55  2376.65      .00      .00  2377.45      .80    15.11      .00  2374.80
    4531.    1999.    2530.       1.     247.     395.       1.      38.      24.   2376.20
      .09     8.08     6.41     1.55     .050     .048     .050     .000  2370.10  9610.75
  .019954     580.     580.     580.        7        0        0      .00   331.72 10032.58


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.08  2392.48  2392.48      .00  2393.31      .83    14.09      .01  2391.10
    4531.     629.    3827.      75.      92.     517.      11.      46.      29.   2389.80
      .11     6.83     7.41     6.69     .050     .048     .050     .000  2389.40  9607.07
  .029846     590.     580.     600.        5       14        0      .00   385.18 10026.54


*SECNO 2140.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     4.52  2405.62  2405.62      .00  2406.97     1.34    12.52      .15  2404.60
    4531.      17.    4412.     102.       6.     471.      16.      53.      32.   2401.70
      .13     2.88     9.37     6.58     .050     .048     .050     .000  2401.10  9817.72
  .023058     470.     480.     470.        4       11        0      .00   186.27 10053.24


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     3.65  2417.65      .00      .00  2418.35      .70    11.32      .06  2423.50
    4531.       0.    4531.       0.       0.     674.       0.      60.      35.   2417.80
      .15      .00     6.72      .00     .000     .048     .000     .000  2414.00  9773.22
  .016789     450.     580.     500.        5        0        0      .00   309.83 10083.05


*SECNO 2370.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     5.40  2436.20  2436.20      .00  2437.32     1.12    13.32      .13  2432.30
    4531.      66.    4465.       0.      10.     523.       0.      69.      39.   2438.50
      .17     6.61     8.53      .00     .050     .048     .000     .000  2430.80  9978.23
  .027426     630.     630.     630.       16       14        0      .00   248.40 10400.06


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.02  2445.72      .00      .00  2446.28      .56     8.91      .06  2441.90
    4531.     242.    4260.      29.      30.     723.       7.      75.      42.   2443.30
      .19     8.04     5.89     4.16     .050     .048     .050     .000  2441.70  9978.21
  .016866     430.     420.     410.        6        0        0      .00   424.10 10402.31


*SECNO 2510.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.22  2453.02  2453.02      .00  2454.05     1.03     4.81      .14  2452.40
    4531.      0.     511.    4020.       0.     137.     471.      80.      45.   2453.70
      .20     1.38     3.74     8.53     .050     .048     .050     .000  2446.80  9934.59
  .013832     330.     320.     310.        3       14        0      .00   298.00 10335.65


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        WEST BRAID ELIMINATED FROM RUN
 2570.000     3.68  2463.18  2463.18      .00  2464.09      .91     6.34      .01  2460.70
    4531.      25.    4506.       0.       5.     587.       0.      85.      47.   2462.00
      .22     5.26     7.67      .05     .050     .048     .050     .000  2459.50  9681.15
     9672     310.     320.     330.       16       14        0      .00   343.96 10025.12


1490 NH CARD USED
*SECNO 2620.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     5.50  2470.90  2470.90      .00  2471.86      .95     4.37      .01  2470.70
    4531.     380.    4114.      37.      61.     514.       9.      88.      49.   2466.60
      .23     6.20     8.00     4.06     .041     .029     .050     .000  2465.40  9602.28
  .010820     250.     260.     270.        3       15        0      .00   314.60 10054.42


1490 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 2690.000     5.96  2481.26  2481.26      .00  2482.34     1.08     5.18      .04  2484.20
    4531.       0.     4200.     331.       0.     496.      52.     93.      52.   2478.60
      .24      .00      8.47     6.31     .000     .042     .050     .000  2475.30  9668.81
  .018851     370.     370.     370.       20        8        0      .00   242.64 10050.49


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM CP 50
 2760.000     2.69  2494.79  2494.79      .00  2495.48      .70     7.98      .04  2494.20
    1782.       1.     631.    1150.       0.      89.     178.     96.      54.   2494.10
      .25     2.14      7.08     6.48     .050     .048     .050     .000  2492.10  9918.73
  .031846     370.     370.     370.       20       18        0      .00   201.26 10119.99


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
 2840.000     6.02  2508.92  2508.92      .00  2509.76      .84     9.64      .04  2505.80
    1782.      46.     955.     781.      10.     107.     158.     99.      55.   2507.50
      .27     4.82      8.92     4.94     .050     .048     .050     .000  2502.90  9980.26
  .016937     410.     420.     430.        6       17        0      .00   147.44 10127.70


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.32  2517.92  2517.92      .00  2518.97     1.05     2.93      .06  2512.60
    1782.      51.    1247.     484.      15.     129.     167.     101.      56.   2514.10
      .28     3.45      9.63     2.89     .050     .035     .050     .000  2511.60  9983.03
  .005644     310.     320.     330.       20        8        0      .00   157.45 10140.48


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.16  2535.56  2535.56      .00  2536.67     1.12     4.04      .02  2530.40
    1782.     606.     876.     300.     101.      81.      83.     105.      58.   2531.30
      .30     6.01     10.81     3.61     .050     .035     .050     .000  2530.40  9956.95
  .008830     580.     580.     580.       20       15        0      .00   122.53 10079.49
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50A
 3090.000     5.02  2548.72  2548.72      .00  2550.16     1.44     4.57      .10  2546.60
    1158.      62.    1074.      22.      15.     108.       5.     107.      59.   2545.80
      .31     4.16     9.93     4.39     .050     .045     .050     .000  2543.70  9968.27
  .015791     420.     420.     420.       20        8        0      .00    48.43 10016.70


*SECNO 3160.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     6.49  2567.29  2567.29      .00  2569.38     2.09     5.72      .20  2562.40
    1158.     106.     962.      90.      20.      77.      16.     108.      59.   2562.90
      .32     5.43    12.49     5.71     .055     .045     .055     .000  2560.80  9983.02
  .015137     360.     370.     390.       20       11        0      .00    28.61 10011.63


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     4.13  2592.03  2592.03      .00  2593.50     1.47     8.25      .06  2590.10
    1158.      12.    1127.      19.       3.     114.       6.     109.      60.   2590.20
      .34     3.40     9.84     3.15     .055     .045     .055     .000  2587.90  9969.61
  .019669     480.     480.     480.       20       14        0      .00    48.03 10017.64


*SECNO 3320.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     4.58  2604.58  2604.58      .00  2606.38     1.79     6.92      .10  2600.00
    1158.      76.    1011.      71.      14.      90.      12.     110.      60.   2600.80
      .35     5.41    11.29     5.79     .055     .045     .055     .000  2600.00  9981.74
  .017810     380.     370.     360.       13        8        0      .00    34.18 10015.92
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     6.32  2628.52  2628.52      .00  2630.47     1.95     8.60      .05  2624.80
    1158.     118.     1036.       4.     19.      89.       1.     112.      61.   2627.00
      .36     6.38    11.66     2.58    .055     .045     .055     .000  2622.20  9981.69
  .018029     480.      480.     480.      20       11        0      .00    29.68 10011.37


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     8.44  2648.44  2648.44      .00  2650.79     2.36     5.56      .12  2642.30
    1158.     155.      896.     107.     25.      66.      19.     112.      61.   2643.50
      .37     6.32    13.62     5.68    .055     .045     .055     .000  2640.00  9982.80
  .016710     330.      320.     310.      20       11        0      .00    24.85 10007.65


SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     5.03  2665.33  2665.33      .00  2666.76     1.43     4.46      .09  2661.10
    1158.     568.      487.     103.     80.      39.      18.     113.      61.   2660.30
      .37     7.12    12.35     5.87    .055     .045     .055     .000  2660.30  9978.24
  .018212     240.      260.     280.      20       14        0      .00    46.16 10024.39


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     7.12  2688.92  2688.92      .00  2691.25     2.33     6.39      .27  2684.00
    1158.      76.     1031.      51.     14.      80.      11.     114.      61.   2684.80
      .38     5.26    12.86     4.75    .055     .045     .055     .000  2681.80  9980.63
  .016241     380.      370.     360.      20       11        0      .00    24.62 10005.25
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     6.83  2723.03  2723.03      .00  2725.18     2.15     7.33      .02  2716.20
    1158.     232.     672.     254.      32.      47.      38.     115.      62.   2716.20
      .39     7.23    14.26     6.62     .055     .045     .055     .000  2716.20  9984.75
  .014383     480.     480.     480.       20        8        0      .00    26.48 10011.23


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     6.95  2758.55  2758.55      .00  2760.82     2.27     7.92      .04  2751.60
    1158.     199.     846.     114.      30.      62.      20.     117.      62.   2753.20
      .41     6.56    13.62     5.67     .055     .045     .055     .000  2751.60  9990.19
  .015573     520.     530.     540.       20        5        0      .00    26.41 10016.60


*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     6.03  2808.13  2808.13      .00  2809.87     1.74     8.54      .05  2805.60
    1158.      26.    1087.      45.       7.     100.      12.     118.      62.   2805.70
      .42     3.82    10.87     3.89     .055     .045     .055     .000  2802.10  9982.50
  .016651     550.     530.     510.       20       15        0      .00    38.45 10020.95


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     6.76  2822.56  2822.56      .00  2824.39     1.83     4.93      .03  2818.20
    1158.     145.     868.     144.      28.      72.      26.     119.      63.   2817.60
      .43     5.24    12.13     5.54     .055     .045     .055     .000  2815.80  9974.66
  .014291     310.     320.     330.       20        8        0      .00    35.85 10010.51
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     6.72  2840.62  2840.62      .00  2842.39     1.78     3.50      .00  2839.80
    1158.       2.    1132.      24.       1.     105.       6.     120.      63.   2838.70
      .43     2.03    10.80     4.13     .055     .045     .055     .000  2833.90  9981.51
  .019693     220.     210.     200.       20        5        0      .00    35.22 10016.74


*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM SUBWTRSHD H1F
     .000     2.75  2863.55  2863.55      .00  2864.49      .94     7.33      .08  2861.70
    305.       16.     270.      20.       4.      33.       5.     120.      63.   2861.60
      .45     3.48     8.19     3.63     .055     .045     .055     .000  2860.80  9980.98
  .020200     360.     370.     380.       20       18        0      .00    24.57 10005.54


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     2.79  2925.29  2925.29      .00  2925.93      .64    13.96      .03  2922.50
    305.       36.     265.       4.       7.      40.       1.     121.      63.   2924.30
      .47     5.24     6.63     2.79     .055     .045     .055     .000  2922.50  9963.89
  .029158     580.     580.     580.       20        5        0      .00    39.12 10003.02


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     3.19  2968.39  2968.39      .00  2969.05      .66    11.30      .00  2968.30
    305.        0.     278.      27.       0.      41.      10.     121.      64.   2967.60
      .49      .04     6.78     2.67     .055     .045     .055     .000  2965.20  9984.51
  .019403     500.     480.     460.       20        8        0      .00    39.97 10024.48
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4350.000	4.49	3043.29	3043.29	.00	3044.48	1.19	10.74	.16	3038.80
305.	45.	250.	9.	9.	27.	3.	122.	64.	3042.00
.51	5.11	9.40	2.88	.055	.045	.055	.000	3038.80	9986.85
.021195	530.	530.	530.	20	11	0	.00	18.23	10005.08

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	3.92	3136.72	3136.72	.00	3137.73	1.01	11.43	.02	3137.10
305.	0.	305.	0.	0.	38.	0.	122.	64.	3138.70
.53	.00	8.06	.00	.000	.045	.000	.000	3132.80	9989.33
26923	480.	480.	480.	20	15	0	.00	19.30	10008.64

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	4.40	3246.00	3246.00	.00	3247.12	1.12	13.97	.03	3241.60
305.	127.	178.	0.	17.	19.	0.	123.	65.	3246.10
.54	7.40	9.21	.00	.055	.045	.000	.000	3241.60	9983.22
.031550	480.	480.	480.	20	8	0	.00	16.58	9999.80

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH     (RO.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                                                     2314.50

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3



CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     3.50  2314.50      .00  2314.50  2315.28      .78      .00      .00  2312.00
    5307.      13.    2101.    3194.      4.     255.     516.       0.       0.   2312.00
      .00     3.28     8.24     6.19     .048     .042     .048     .000  2311.00  9966.88
 .011563       0.       0.       0.       0        0        0      .00   328.13 10295.00


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.45  2327.45  2327.45      .00  2328.31      .86     7.23      .03  2324.40
    5307.     371.    4936.       0.      54.     659.       0.       7.       4.   2329.70
      .02     6.88     7.49      .00     .050     .048     .000     .000  2324.00  9947.39
  .030646     400.     420.     380.       20        5        0      .00   440.28 10387.67


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     2.85  2346.35      .00      .00  2346.95      .60    18.61      .03  2344.00
    5307.      35.    5272.       0.       8.     844.       0.      20.      12.   2346.00
      .05     4.60     6.24     1.27     .050     .048     .050     .000  2343.50  9573.54
  .020997     750.     740.     730.        7        0        0      .00   520.95 10117.63
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.79  2361.69  2361.69      .00  2362.58      .89    12.81      .08  2362.20
    5307.     256.    5050.       0.     340.     652.       0.      30.      18.   2361.20
      .07      .75     7.74     1.95     .701     .048     .050     .000  2355.90  9390.36
  .034947     500.     480.     480.       20       26        0      .00   607.71 10104.48


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.77  2376.87      .00      .00  2377.75      .88    15.17      .00  2374.80
    5307.    2285.    3018.       4.     271.     443.       2.      42.      24.   2376.20
      .09     8.42     6.81     2.03     .050     .048     .050     .000  2370.10  9609.96
  .020309     580.     580.     580.        7        0        0      .00   347.87 10034.35


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.29  2392.69  2392.69      .00  2393.58      .89    13.79      .00  2391.10
    5307.     754.    4464.      89.     105.     585.      13.      51.      29.   2389.80
      .11     7.16     7.63     7.00     .050     .048     .050     .000  2389.40  9606.26
  .027901     590.     580.     600.        5       11        0      .00   396.34 10026.75


*SECNO 2140.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     4.89  2405.99  2405.99      .00  2407.40     1.41    12.10      .16  2404.60
    5307.      38.    5139.     130.      11.     535.      19.      58.      33.   2401.70
      .12     3.52     9.61     6.97     .050     .048     .050     .000  2401.10  9813.64
  .022970     470.     480.     470.        3       14        0      .00   206.17 10053.98


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     3.88  2417.88      .00      .00  2418.66      .79    11.20      .06  2423.50
    5307.       0.    5307.       0.       0.     745.       0.      67.      36.   2417.80
      .15      .00     7.12      .04     .000     .048     .050     .000  2414.00  9772.46
  .016546     450.     580.     500.        4        0        0      .00   311.07 10083.53


*SECNO 2370.000

3220 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     5.67  2436.47  2436.47      .00  2437.67     1.20    13.11      .12  2432.30
    5307.      79.    5228.       0.      12.     593.       0.      77.      40.   2438.50
      .17     6.86     8.82      .00     .050     .048     .000     .000  2430.80  9977.87
  .026955     630.     630.     630.       16       14        0      .00   264.41 10401.96


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.21  2445.91      .00      .00  2446.54      .63     8.81      .06  2441.90
    5307.     264.    5007.      35.      32.     799.       8.      84.      44.   2443.30
      .18     8.26     6.27     4.35     .050     .048     .050     .000  2441.70  9978.03
  .016757     430.     420.     410.        6        0        0      .00   424.71 10402.75


*SECNO 2510.000
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.53  2453.33  2453.33      .00  2454.37     1.03     4.75      .12  2452.40
    5307.       1.     775.     4531.       1.     178.     525.      89.      46.   2453.70
      .19     1.78     4.35     8.63     .050     .048     .050     .000  2446.80  9934.18
  .013541     330.     320.     310.        3       14        0      .00   312.90 10336.16


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         WEST BRAID ELIMINATED FROM RUN
 2570.000     3.87  2463.37  2463.37      .00  2464.38     1.01     6.14      .00  2460.70
    5307.      30.    5277.       0.       6.     654.       0.      94.      49.   2462.00
      .21     5.41     8.06      .05     .050     .048     .050     .000  2459.50  9680.85
    9366     310.     320.     330.       17       14        0      .00   344.29 10025.14


1490 NH CARD USED
*SECNO 2620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     5.90  2471.30  2471.30      .00  2472.15      .85     3.98      .02  2470.70
    5307.     476.    4787.      44.      74.     639.      11.      99.      51.   2466.60
      .22     6.42     7.50     4.06     .041     .026     .050     .000  2465.40  9601.56
  .009594     250.     260.     270.        3       14        0      .00   453.25 10054.81


1490 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     6.30  2481.60  2481.60      .00  2482.67     1.06     5.15      .07  2484.20
    5307.       0.    4839.     468.       0.     579.      63.     104.      54.   2478.60
      .23      .00     8.36     7.41     .000     .044     .050     .000  2475.30  9665.44
  .021956     370.     370.     370.       20        8        0      .00   300.24 10052.52
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50
 2760.000     2.82  2494.92  2494.92      .00  2495.68      .76     8.89      .03  2494.20
    2048.       1.     720.    1327.       0.      97.     196.     108.      56.   2494.10
      .24     2.42     7.40     6.77     .050     .048     .050     .000  2492.10  9918.49
  .030977     370.     370.     370.       20       18        0      .00   201.68 10120.17


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     6.22  2509.12  2509.12      .00  2510.00      .88     9.46      .04  2505.80
    2048.      54.    1039.     955.      11.     113.     179.     111.      58.   2507.50
      .26     4.99     9.19     5.33     .050     .048     .050     .000  2502.90  9979.89
  .016725     410.     420.     430.        6       19        0      .00   148.16 10128.04


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.54  2518.14  2518.14      .00  2519.25     1.11     3.00      .07  2512.60
    2048.      58.    1362.     628.      16.     135.     196.     114.      59.   2514.10
      .27     3.62    10.10     3.21     .050     .035     .050     .000  2511.60  9982.80
  .005882     310.     320.     330.       20        8        0      .00   158.13 10140.93


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.43  2535.83  2535.83      .00  2536.98     1.15     4.10      .01  2530.40
    2048.     689.     958.     401.     110.      86.     103.     118.      61.   2531.30
      .29     6.25    11.15     3.91     .050     .035     .050     .000  2530.40  9956.45
  .008672     580.     580.     580.       20       12        0      .00   123.92 10080.37


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
 3090.000     5.33  2549.03  2549.03      .00  2550.58     1.55     4.50      .12  2546.60
    1334.      91.     1214.      29.      20.     117.      6.     120.      62.   2545.80
      .30     4.48     10.39     4.73     .050     .045     .050     .000  2543.70  9965.34
  .015602     420.      420.     420.      20        5        0      .00    51.79 10017.13


*SECNO 3160.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     6.95  2567.75  2567.75      .00  2569.99     2.23     5.61      .20  2562.40
    1334.     133.     1085.     116.      23.      83.     19.     121.      62.   2562.90
      .31     5.69     13.00     6.12     .055     .045     .055     .000  2560.80  9982.27
     4742     360.      370.     390.      20       11        0      .00    29.96 10012.22


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     4.60  2592.50  2592.50      .00  2593.90     1.40     7.32      .08  2590.10
    1334.      19.     1277.      38.       5.     132.     13.     123.      63.   2590.20
      .33     3.52      9.69     3.05     .055     .045     .055     .000  2587.90  9968.73
  .015774     480.      480.     480.      20       14        0      .00    65.12 10033.85


*SECNO 3320.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     4.95  2604.95  2604.95      .00  2606.90     1.95     6.12      .16  2600.00
    1334.      93.     1153.      88.      16.      98.     15.     124.      63.   2600.80
      .33     5.63     11.81     6.05     .055     .045     .055     .000  2600.00  9981.25
     371     380.      370.     360.      20        8        0      .00    35.24 10016.49
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3410.000	6.73	2628.93	2628.93	.00	2631.04	2.11	8.37	.05	2624.80
1334.	148.	1179.	7.	22.	97.	2.	125.	64.	2627.00
.35	6.66	12.16	2.99	.055	.045	.055	.000	2622.20	9980.95
.017489	480.	480.	480.	20	11	0	.00	30.96	10011.91

*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470.000	8.98	2648.98	2648.98	.00	2651.47	2.49	5.42	.11	2642.30
1334.	193.	1001.	140.	29.	71.	23.	126.	64.	2643.50
.35	6.62	14.15	6.02	.055	.045	.055	.000	2640.00	9982.09
.016356	330.	320.	310.	20	11	0	.00	26.40	10008.49

.O 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3520.000	5.32	2665.62	2665.62	.00	2667.18	1.55	4.42	.09	2661.10
1334.	673.	540.	120.	89.	42.	20.	127.	64.	2660.30
.36	7.59	12.91	6.11	.055	.045	.055	.000	2660.30	9977.80
.018335	240.	260.	280.	20	14	0	.00	47.00	10024.80

*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3590.000	7.65	2689.45	2689.45	.00	2691.93	2.48	6.30	.28	2684.00
1334.	98.	1167.	70.	18.	87.	14.	128.	64.	2684.80
.37	5.53	13.37	5.06	.055	.045	.055	.000	2681.80	9980.00
.015678	380.	370.	360.	20	11	0	.00	25.91	10005.92

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3680.000	7.39	2723.59	2723.59	.00	2725.79	2.20	6.98	.03	2716.20
1334.	278.	743.	313.	37.	51.	45.	130.	65.	2716.20
.38	7.56	14.57	6.98	.055	.045	.055	.000	2716.20	9984.44
.013513	480.	480.	480.	20	8	0	.00	27.81	10012.25

*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3780.000	7.45	2759.05	2759.05	.00	2761.48	2.43	7.60	.07	2751.60
1334.	237.	955.	143.	35.	67.	24.	131.	65.	2753.20
.39	6.80	14.21	5.95	.055	.045	.055	.000	2751.60	9989.56
.015248	520.	530.	540.	20	5	0	.00	27.74	10017.31

*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3880.000	6.42	2808.52	2808.52	.00	2810.36	1.84	8.28	.06	2805.60
1334.	37.	1231.	66.	9.	109.	16.	133.	65.	2805.70
.41	4.11	11.28	4.20	.055	.045	.055	.000	2802.10	9981.67
.015966	550.	530.	510.	20	15	0	.00	40.81	10022.47

*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3940.000	7.22	2823.02	2823.02	.00	2824.91	1.88	4.71	.01	2818.20
1334.	185.	964.	185.	34.	77.	31.	134.	66.	2817.60
.42	5.46	12.46	5.94	.055	.045	.055	.000	2815.80	9973.32
.013590	310.	320.	330.	20	8	0	.00	38.11	10011.43

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
CONFLUENCE WITH ROWE TRIB. 2.

3980.000	7.08	2840.98	2840.98	.00	2842.90	1.92	3.35	.01	2839.80
1334.	6.	1293.	35.	2.	115.	8.	134.	66.	2838.70
.42	2.55	11.27	4.48	.055	.045	.055	.000	2833.90	9980.27
.019011	220.	210.	200.	20	5	0	.00	37.32	10017.59

*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES FROM SUBWTRSHD H1F

.000	2.96	2863.76	2863.76	.00	2864.77	1.01	7.08	.09	2861.70
352.	20.	306.	25.	6.	36.	7.	135.	66.	2861.60
.43	3.68	8.53	3.82	.055	.045	.055	.000	2860.80	9980.43
.019512	360.	370.	380.	20	18	0	.00	25.71	10006.14

*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4160.000	2.94	2925.44	2925.44	.00	2926.12	.69	13.22	.03	2922.50
352.	40.	307.	6.	8.	45.	2.	136.	67.	2924.30
.46	5.22	6.86	2.94	.055	.045	.055	.000	2922.50	9963.63
.026962	580.	580.	580.	20	6	0	.00	39.84	10003.47

*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4250.000	3.34	2968.54	2968.54	.00	2969.25	.71	10.79	.01	2968.30
352.	0.	314.	38.	0.	44.	13.	136.	67.	2967.60
.48	.90	7.07	3.04	.055	.045	.055	.000	2965.20	9983.57
.019037	500.	480.	460.	20	8	0	.00	41.33	10024.90

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4350.000	4.75	3043.55	3043.55	.00	3044.83	1.28	10.49	.17	3038.80
352.	52.	285.	15.	10.	29.	5.	137.	67.	3042.00
.50	5.24	9.81	3.21	.055	.045	.055	.000	3038.80	9986.62
.020602	530.	530.	530.	20	14	0	.00	19.49	10006.11

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	4.16	3136.96	3136.96	.00	3138.02	1.06	11.10	.02	3137.10
352.	0.	352.	0.	0.	43.	0.	137.	68.	3138.70
.51	.00	8.27	.00	.000	.045	.000	.000	3132.80	9988.68
.026153	480.	480.	480.	20	15	0	.00	20.48	10009.16

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	4.59	3246.19	3246.19	.00	3247.46	1.27	14.05	.06	3241.60
352.	145.	207.	0.	19.	21.	0.	138.	68.	3246.10
.53	7.78	9.82	.05	.055	.045	.055	.000	3241.60	9982.88
.032967	480.	480.	480.	20	8	0	.00	17.26	10000.15

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH     (RO.DAT)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                5                                                                 2315.05

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     4.05  2315.05      .00  2315.05  2315.85      .80      .00      .00  2312.00
   6687.      20.    2535.    4132.      6.     299.     659.       0.       0.   2312.00
     .00     3.46     8.48     6.27     .048     .042     .048     .000  2311.00  9966.19
 .009904       0.       0.       0.       0        0        0      .00   356.31 10322.50


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.77  2327.77  2327.77      .00  2328.73      .96     6.27      .05  2324.40
   6687.     454.    6233.       0.      66.     788.       0.       8.       4.   2329.70
     .01     6.92     7.91      .00     .050     .048     .000     .000  2324.00  9943.72
  .027177    400.     420.     380.       20       12        0      .00   446.70 10390.43


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     3.04  2346.54      .00      .00  2347.30      .76    18.56      .02  2344.00
   6687.      45.    6641.       1.       9.     945.       0.      24.      12.   2346.00
     .04     5.10     7.03     1.80     .050     .048     .050     .000  2343.50  9573.01
  .023191    750.     740.     730.        5        0        0      .00   526.68 10118.09
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     6.16  2362.06  2362.06      .00  2362.96      .90    12.11      .04  2362.20
    6687.     366.    6320.       1.     415.     809.       1.      36.      19.   2361.20
      .06      .88     7.81     2.51     .546     .048     .050     .000  2355.90  9388.81
  .027458     500.     480.     480.       20       23        0      .00   652.05 10105.06


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.96  2377.06  2377.06      .00  2378.22     1.16    15.18      .08  2374.80
    6687.    2822.    3856.       8.     294.     489.       3.      49.      25.   2376.20
      .08     9.59     7.88     2.67     .050     .048     .050     .000  2370.10  9609.24
  .024989     580.     580.     580.        9       11        0      .00   362.15 10035.95


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.59  2392.99  2392.99      .00  2394.01     1.02    15.26      .01  2391.10
    6687.     972.    5599.     115.     124.     686.      15.      60.      30.   2389.80
      .10     7.83     8.17     7.64     .050     .048     .050     .000  2389.40  9605.13
  .027453     590.     580.     600.        5       11        0      .00   411.99 10027.03


*SECNO 2140.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     5.48  2406.58  2406.58      .00  2408.05     1.47    11.76      .13  2404.60
    6687.     104.    6404.     180.      21.     650.      24.      68.      34.   2401.70
      .11     4.91     9.85     7.45     .050     .048     .050     .000  2401.10  9810.74
    2080      470.     480.     470.        3       14        0      .00   235.28 10055.18
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     4.22  2418.22      .00      .00  2419.18      .95    11.07      .05  2423.50
    6687.       0.     6686.       1.       0.     853.       1.      79.      38.   2417.80
      .13      .00      7.83     1.36     .000     .048     .050     .000  2414.00  9771.31
  .016780     450.      580.     500.        5        0        0      .00   314.18 10085.49


*SECNO 2370.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     6.12  2436.92  2436.92      .00  2438.23     1.31    13.01      .11  2432.30
    6687.     102.     6585.       0.      14.     714.       0.      90.      42.   2438.50
      .15     7.21      9.23      .00     .050     .048     .000     .000  2430.80  9977.27
     6043     630.      630.     630.       17       14        0      .00   290.11 10405.01


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.51  2446.21      .00      .00  2446.96      .75     8.67      .06  2441.90
    6687.     304.     6336.      47.      35.     920.      10.      98.      45.   2443.30
      .17     8.64      6.89     4.68     .050     .048     .050     .000  2441.70  9977.75
  .016745     430.      420.     410.        5        0        0      .00   425.71 10403.46


*SECNO 2510.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.82  2453.62  2453.62      .00  2454.87     1.25     5.17      .15  2452.40
    6687.       2.     1155.     5529.       1.     217.     578.     105.      48.   2453.70
      .18     2.32      5.34     9.57     .050     .048     .050     .000  2446.80  9933.81
     7999     330.      320.     310.        3       11        0      .00   326.64 10336.62
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        WEST BRAID ELIMINATED FROM RUN
 2570.000     4.20  2463.70  2463.70      .00  2464.87     1.17     6.59      .01  2460.70
    6687.      40.    6647.       0.       7.     766.       0.     111.      51.   2462.00
      .19     5.67     8.68      .93     .050     .048     .050     .000  2459.50  9680.34
  .026673     310.     320.     330.       16       14        0      .00   344.83 10025.17


1490 NH CARD USED
*SECNO 2620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     6.12  2471.52  2471.52      .00  2472.56     1.04     4.37      .01  2470.70
    6687.     601.    6032.      55.      81.     729.      12.     115.      53.   2466.60
      .20     7.40     8.27     4.60     .041     .028     .050     .000  2465.40  9601.16
  .011596     250.     260.     270.        2       14        0      .00   453.87 10055.02


 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     6.79  2482.09  2482.09      .00  2483.15     1.06     6.02      .01  2484.20
    6687.       0.    5999.     688.       0.     731.     80.     122.      57.   2478.60
      .21      .00     8.20     8.64     .000     .045     .050     .000  2475.30  9660.69
  .024421     370.     370.     370.       20        8        0      .00   393.20 10055.39


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50
 2760.000     3.03  2495.13  2495.13      .00  2496.00      .87     9.52      .02  2494.20
    2512.       2.     874.    1636.       1.     111.     226.     127.      59.   2494.10
      .23     2.83     7.90     7.24     .050     .048     .050     .000  2492.10  9918.10
  .029790     370.     370.     370.       20       18        0      .00   202.36 10120.46
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     6.41  2509.31  2509.31      .00  2510.39     1.08    10.05      .06  2505.80
    2512.      67.    1214.    1231.      12.     119.     201.     130.      61.   2507.50
      .24     5.55    10.19     6.14     .050     .048     .050     .000  2502.90  9979.51
  .019189     410.     420.     430.        4       20        0      .00   148.87 10128.38


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.90  2518.50  2518.50      .00  2519.70     1.20     3.26      .04  2512.60
    2512.      70.    1548.     893.      18.     143.     241.     133.      62.   2514.10
      .25     3.87    10.79     3.70     .050     .035     .050     .000  2511.60  9982.43
  .006174     310.     320.     330.       20        8        0      .00   159.22 10141.65


 O 3010.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.81  2536.21  2536.21      .00  2537.48     1.27     4.27      .02  2530.40
    2512.     832.    1104.     576.     123.      93.     130.     138.      64.   2531.30
      .27     6.74    11.90     4.44     .050     .035     .050     .000  2530.40  9955.75
  .008922     580.     580.     580.       20       12        0      .00   125.83 10081.58


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
 3090.000     5.89  2549.59  2549.59      .00  2551.22     1.63     4.44      .11  2546.60
    1639.     157.    1437.      44.      33.     133.       9.     141.      65.   2545.80
      .28     4.83    10.79     5.07     .050     .045     .050     .000  2543.70  9959.86
  .014142     420.     420.     420.       20        5        0      .00    58.10 10017.95


*SECNO 3160.000
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3160.000	7.68	2568.48	2568.48	.00	2570.94	2.46	5.26	.25	2562.40
1639.	184.	1290.	166.	30.	93.	25.	142.	65.	2562.90
.29	6.09	13.80	6.69	.055	.045	.055	.000	2560.80	9981.08
.014288	360.	370.	390.	20	11	0	.00	32.07	10013.16

*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.000	5.09	2592.99	2592.99	.00	2594.49	1.50	6.94	.10	2590.10
1639.	30.	1521.	88.	8.	150.	25.	144.	66.	2590.20
.30	3.84	10.16	3.56	.055	.045	.055	.000	2587.90	9967.82
.014630	480.	480.	480.	20	14	0	.00	67.37	10035.19

*SECNO 3320.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3320.000	5.57	2605.57	2605.57	.00	2607.74	2.17	5.75	.20	2600.00
1639.	124.	1393.	122.	21.	111.	19.	145.	66.	2600.80
.31	5.93	12.56	6.41	.055	.045	.055	.000	2600.00	9980.42
.016535	380.	370.	360.	20	8	0	.00	37.01	10017.44

*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3410.000	7.40	2629.60	2629.60	.00	2631.95	2.35	7.98	.05	2624.80
1639.	203.	1420.	16.	29.	110.	4.	147.	67.	2627.00
.32	7.07	12.92	3.57	.055	.045	.055	.000	2622.20	9979.76
6705	480.	480.	480.	20	11	0	.00	33.03	10012.79

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     9.83  2649.83  2649.83      .00  2652.52     2.69     5.22      .10  2642.30
    1639.     261.     1175.     203.     37.      79.     31.     148.      67.   2643.50
      .33     7.06     14.95     6.53    .055     .045    .055     .000  2640.00  9980.98
  .015871     330.      320.     310.      20       11       0      .00    28.83 10009.81


*SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     5.80  2666.10  2666.10      .00  2667.84     1.74     4.35      .09  2661.10
    1639.     858.      630.     151.    104.      46.     23.     149.      67.   2660.30
      .34     8.29     13.73     6.48    .055     .045    .055     .000  2660.30  9977.09
  .018368     240.      260.     280.      20       14       0      .00    48.36 10025.45


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     8.44  2690.24  2690.24      .00  2693.00     2.76     6.22      .31  2684.00
    1639.     139.      1396.     104.     23.      98.     19.     150.      67.   2684.80
      .35     5.97     14.26     5.54    .055     .045    .055     .000  2681.80  9979.06
  .015269     380.      370.     360.      20       14       0      .00    27.87 10006.92


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     8.05  2724.25  2724.25      .00  2726.75     2.49     7.00      .03  2716.20
    1639.     353.      871.     415.     43.      56.     53.     152.      68.   2716.20
      .36     8.28     15.67     7.77    .055     .045    .055     .000  2716.20  9984.07
  .013945     480.      480.     480.      20       11       0      .00    29.44 10013.51
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     8.11  2759.71  2759.71      .00  2762.53     2.82     7.88      .10  2751.60
    1639.     303.     1142.     194.      41.      74.      30.     154.      68.   2753.20
      .37     7.35     15.46     6.52     .055     .045     .055     .000  2751.60  9988.74
  .015903     520.      530.     540.       20        8        0      .00    29.49 10018.23


*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     7.03  2809.13  2809.13      .00  2811.14     2.01     8.22      .08  2805.60
    1639.      60.     1471.     108.      13.     124.      23.     155.      69.   2805.70
      .38     4.54     11.91     4.66     .055     .045     .055     .000  2802.10  9980.36
   15093     550.      530.     510.       20       15        0      .00    44.52 10024.88


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     7.85  2823.65  2823.65      .00  2825.71     2.06     4.55      .01  2818.20
    1639.     255.     1127.     257.      43.      85.      39.     157.      69.   2817.60
      .39     5.89     13.22     6.64     .055     .045     .055     .000  2815.80  9971.49
  .013433     310.      320.     330.       20        8        0      .00    41.16 10012.65


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     7.70  2841.60  2841.60      .00  2843.70     2.10     3.21      .01  2839.80
    1639.      18.     1562.      59.       6.     132.      12.     157.      69.   2838.70
      .39     3.25     11.87     4.93     .055     .045     .055     .000  2833.90  9978.16
  .017569     220.      210.     200.       20        5        0      .00    40.88 10019.03
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM SUBWTRSHD H1F
 4050.000     3.30  2864.10  2864.10      .00  2865.21     1.11     6.57      .10  2861.70
     433.      30.     367.      36.       7.      41.       9.     158.      69.   2861.60
      .41     3.96     9.02     4.10     .055     .045     .055     .000  2860.80  9979.55
  .018496     360.     370.     380.       20       14        0      .00    27.54 10007.09


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     3.12  2925.62  2925.62      .00  2926.43      .82    12.97      .03  2922.50
     433.      47.     377.       9.       9.      50.       3.     159.      70.   2924.30
      .43     5.49     7.51     3.28     .055     .045     .055     .000  2922.50  9963.31
  .027561     580.     580.     580.       20       11        0      .00    40.71 10004.02


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     3.57  2968.77  2968.77      .00  2969.56      .78    10.76      .00  2968.30
     433.       1.     373.      59.       1.      50.      17.     160.      70.   2967.60
      .45     1.40     7.52     3.56     .055     .045     .055     .000  2965.20  9982.10
  .018623     500.     480.     460.       20        8        0      .00    43.45 10025.55


*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4350.000     5.19  3043.99  3043.99      .00  3045.37     1.38    10.01      .18  3038.80
     433.      63.     341.      29.      12.      33.       8.     160.      71.   3042.00
      .46     5.35    10.32     3.65     .055     .045     .055     .000  3038.80  9986.24
  .019150     530.     530.     530.       20       14        0      .00    21.60 10007.83
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4440.000     4.49  3137.29  3137.29      .00  3138.47     1.18    10.57      .02  3137.10
     433.       0.     433.       0.       0.      50.       0.     161.      71.   3138.70
      .48      .04     8.73      .00     .055     .045     .000     .000  3132.80  9988.03
  .025608     480.     480.     480.       20       15        0      .00    21.87 10009.89


*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4530.000     5.01  3246.61  3246.61      .00  3248.00     1.39    13.25      .06  3241.60
     433.     174.     259.       0.      22.      25.       0.     162.      71.   3246.10
      .49     7.85    10.42     1.67     .055     .045     .055     .000  3241.60  9982.15
  .029832     480.     480.     480.       20        8        0      .00    18.66 10000.80
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THIS RUN EXECUTED 2/26/90 16:20:59

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

ROWE WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1520.000	2313.70	3033.00	2.70	2.52	6.75	5.17	4.54	1288.42	1740.03	287.12	114.00	.00
	1520.000	2314.31	4531.00	3.31	2.99	7.60	5.74	9.96	1821.99	2699.05	318.39	106.76	.00
	1520.000	2314.50	5307.00	3.50	3.28	8.24	6.19	12.80	2100.57	3193.63	328.13	115.63	.00
	1520.000	2315.05	6687.00	4.05	3.46	8.48	6.27	20.13	2534.85	4132.02	356.31	99.04	.00
*	1600.000	2326.94	3033.00	2.94	6.40	6.18	.00	238.74	2794.26	.00	429.89	339.42	13.24
*	1600.000	2327.29	4531.00	3.29	6.70	7.08	.00	324.26	4206.74	.00	437.05	312.26	12.98
*	1600.000	2327.45	5307.00	3.45	6.88	7.49	.00	370.63	4936.36	.00	440.28	306.46	12.95
*	1600.000	2327.77	6687.00	3.77	6.92	7.91	.00	454.31	6232.69	.00	446.70	271.77	12.72
	1740.000	2345.89	3033.00	2.39	3.84	4.92	.00	18.92	3014.08	.00	509.63	195.30	18.95
	1740.000	2346.20	4531.00	2.70	4.38	5.86	.04	29.15	4501.84	.00	516.61	207.36	18.91
	1740.000	2346.35	5307.00	2.85	4.60	6.24	1.27	34.88	5271.93	.18	520.95	209.97	18.90
	1740.000	2346.54	6687.00	3.04	5.10	7.03	1.80	45.33	6641.04	.63	526.68	231.91	18.77
*	1830.000	2361.20	3033.00	5.30	.45	6.48	.00	116.67	2916.33	.00	537.21	360.75	15.31
*	1830.000	2361.54	4531.00	5.64	.66	7.33	.06	207.22	4323.77	.01	589.53	354.38	15.34
*	1830.000	2361.69	5307.00	5.79	.75	7.74	1.95	256.38	5050.25	.37	607.71	349.47	15.34
*	1830.000	2362.06	6687.00	6.16	.88	7.81	2.51	365.66	6319.87	1.47	652.05	274.58	15.53
	1940.000	2376.15	3033.00	6.05	7.31	5.53	.00	1435.56	1597.44	.00	293.76	193.46	14.95
	1940.000	2376.65	4531.00	6.55	8.08	6.41	1.55	1999.30	2530.42	1.28	331.72	199.54	15.11
	1940.000	2376.87	5307.00	6.77	8.42	6.81	2.03	2284.86	3018.45	3.69	347.87	203.09	15.17
	1940.000	2377.06	6687.00	6.96	9.59	7.88	2.67	2822.40	3856.47	8.14	362.15	249.89	15.00
*	2050.000	2392.07	3033.00	2.67	5.84	6.65	5.71	393.07	2593.35	46.58	363.71	320.45	15.92
*	2050.000	2392.48	4531.00	3.08	6.83	7.41	6.69	629.22	3827.19	74.58	385.18	298.46	15.83
*	2050.000	2392.69	5307.00	3.29	7.16	7.63	7.00	754.06	4463.55	89.39	396.34	279.01	15.82
*	2050.000	2392.99	6687.00	3.59	7.83	8.17	7.64	972.44	5599.23	115.33	411.99	274.53	15.93
	2140.000	2404.75	3033.00	3.65	.82	8.76	5.61	.11	2979.90	52.99	142.64	234.32	12.69
*	2140.000	2405.62	4531.00	4.52	2.88	9.37	6.58	16.77	4411.79	102.44	186.27	230.58	13.15
*	2140.000	2405.99	5307.00	4.89	3.52	9.61	6.97	37.88	5139.37	129.75	206.17	229.70	13.30
*	2140.000	2406.58	6687.00	5.48	4.91	9.85	7.45	103.84	6403.52	179.64	235.28	220.80	13.59

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2250.000	2417.14	3033.00	3.14	.00	5.86	.00	.00	3033.00	.00	301.96	175.08	12.38
	2250.000	2417.65	4531.00	3.65	.00	6.72	.00	.00	4531.00	.00	309.83	167.89	12.02
	2250.000	2417.88	5307.00	3.88	.00	7.12	.04	.00	5307.00	.00	311.07	165.46	11.89
	2250.000	2418.22	6687.00	4.22	.00	7.83	1.36	.00	6686.31	.69	314.18	167.80	11.64
*	2370.000	2435.53	3033.00	4.73	5.93	7.94	.00	41.13	2991.87	.00	204.11	282.87	18.40
*	2370.000	2436.20	4531.00	5.40	6.61	8.53	.00	66.49	4464.50	.00	248.40	274.26	18.55
*	2370.000	2436.47	5307.00	5.67	6.86	8.82	.00	79.17	5227.83	.00	264.41	269.55	18.60
*	2370.000	2436.92	6687.00	6.12	7.21	9.23	.00	102.03	6584.97	.00	290.11	260.43	18.69
	2450.000	2445.32	3033.00	3.62	7.59	5.04	3.74	196.95	2817.75	18.30	422.75	173.88	9.79
	2450.000	2445.72	4531.00	4.02	8.04	5.89	4.16	241.62	4260.12	29.25	424.10	168.66	9.53
	2450.000	2445.91	5307.00	4.21	8.26	6.27	4.35	264.22	5007.33	35.45	424.71	167.57	9.43
	2450.000	2446.21	6687.00	4.51	8.64	6.89	4.68	303.94	6335.80	47.26	425.71	167.45	9.29
*	2510.000	2452.29	3033.00	5.49	.00	2.32	8.12	.00	114.78	2918.22	235.69	141.82	6.96
*	2510.000	2453.02	4531.00	6.22	1.38	3.74	8.53	.35	510.75	4019.90	298.00	138.32	7.30
*	2510.000	2453.33	5307.00	6.53	1.78	4.35	8.63	1.01	774.57	4531.41	312.90	135.41	7.43
*	2510.000	2453.62	6687.00	6.82	2.32	5.34	9.57	2.25	1155.47	5529.28	326.64	159.99	7.42
*	2570.000	2462.73	3033.00	3.23	4.76	6.85	.05	15.30	3017.70	.00	319.77	315.40	10.45
*	2570.000	2463.18	4531.00	3.68	5.26	7.67	.05	25.04	4505.96	.00	343.96	296.72	10.15
*	2570.000	2463.37	5307.00	3.87	5.41	8.06	.05	30.04	5276.96	.00	344.29	283.66	10.04
*	2570.000	2463.70	6687.00	4.20	5.67	8.68	.93	39.63	6647.23	.14	344.83	266.73	10.08
*	2620.000	2470.27	3033.00	4.87	5.35	7.69	3.67	226.67	2782.02	24.30	236.46	109.13	7.54
*	2620.000	2470.90	4531.00	5.50	6.20	8.00	4.06	380.09	4114.02	36.89	314.60	108.20	7.73
*	2620.000	2471.30	5307.00	5.90	6.42	7.50	4.06	475.58	4787.45	43.97	453.25	95.94	7.93
*	2620.000	2471.52	6687.00	6.12	7.40	8.27	4.60	600.94	6031.50	54.55	453.87	115.96	7.82
*	2690.000	2480.29	3033.00	4.99	.00	8.66	3.91	.00	2932.28	100.72	158.76	147.07	10.01
*	2690.000	2481.26	4531.00	5.96	.00	8.47	6.31	.00	4200.33	330.67	242.64	188.51	10.36
*	2690.000	2481.60	5307.00	6.30	.00	8.36	7.41	.00	4838.54	468.46	300.24	219.56	10.30
*	2690.000	2482.09	6687.00	6.79	.00	8.20	8.64	.00	5998.65	688.35	393.20	244.21	10.57
*	2760.000	2494.54	1225.00	2.44	1.42	5.94	5.46	.15	440.53	784.32	200.48	287.57	14.25
*	2760.000	2494.79	1782.00	2.69	2.14	7.08	6.48	.67	630.91	1150.42	201.26	318.46	13.53
*	2760.000	2494.92	2048.00	2.82	2.42	7.40	6.77	1.14	719.78	1327.08	201.68	309.77	13.31
*	2760.000	2495.13	2512.00	3.03	2.83	7.90	7.24	2.25	873.65	1636.10	202.36	297.90	13.04
*	2840.000	2508.55	1225.00	5.65	4.18	7.80	3.84	31.13	743.79	450.07	146.05	150.92	14.01
*	2840.000	2508.92	1782.00	6.02	4.82	8.92	4.94	46.23	954.63	781.14	147.44	169.37	14.14
*	2840.000	2509.12	2048.00	6.22	4.99	9.19	5.33	53.86	1039.01	955.13	148.16	167.25	14.20
*	2840.000	2509.31	2512.00	6.41	5.55	10.19	6.14	67.06	1213.61	1231.33	148.87	191.89	14.17
*	2900.000	2517.34	1225.00	5.74	3.06	8.54	2.19	35.96	984.47	204.57	155.66	51.77	8.79
*	2900.000	2517.92	1782.00	6.32	3.45	9.63	2.89	51.14	1246.59	484.26	157.45	56.44	9.00
*	2900.000	2518.14	2048.00	6.54	3.62	10.10	3.21	58.22	1362.11	627.67	158.13	58.82	9.03
*	2900.000	2518.50	2512.00	6.90	3.87	10.79	3.70	70.44	1548.46	893.09	159.22	61.74	9.19

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3010.000	2534.93	1225.00	4.53	5.30	9.76	3.15	421.24	678.74	125.01	119.35	87.96	17.59
*	3010.000	2535.56	1782.00	5.16	6.01	10.81	3.61	605.72	875.79	300.49	122.53	88.30	17.63
*	3010.000	2535.83	2048.00	5.43	6.25	11.15	3.91	688.72	958.33	400.95	123.92	86.72	17.69
*	3010.000	2536.21	2512.00	5.81	6.74	11.90	4.44	831.58	1104.48	575.94	125.83	89.22	17.71
*	3090.000	2547.88	790.00	4.18	3.10	9.14	3.49	14.98	766.19	8.83	39.08	188.37	12.95
*	3090.000	2548.72	1158.00	5.02	4.16	9.93	4.39	62.14	1073.59	22.27	48.43	157.91	13.17
*	3090.000	2549.03	1334.00	5.33	4.48	10.39	4.73	90.57	1214.01	29.42	51.79	156.02	13.20
*	3090.000	2549.59	1639.00	5.89	4.83	10.79	5.07	157.27	1437.44	44.29	58.10	141.42	13.39
*	3160.000	2566.22	790.00	5.42	4.73	11.13	4.42	56.29	693.38	40.33	25.49	159.58	18.34
*	3160.000	2567.29	1158.00	6.49	5.43	12.49	5.71	105.85	962.43	89.72	28.61	151.37	18.57
*	3160.000	2567.75	1334.00	6.95	5.69	13.00	6.12	132.97	1084.67	116.36	29.96	147.42	18.73
*	3160.000	2568.48	1639.00	7.68	6.09	13.80	6.69	183.71	1289.78	165.51	32.07	142.88	18.89
*	3250.000	2591.35	790.00	3.45	2.65	8.71	2.25	3.87	781.58	4.55	43.40	213.00	25.13
*	3250.000	2592.03	1158.00	4.13	3.40	9.84	3.15	11.75	1126.77	19.48	48.03	196.69	24.74
*	3250.000	2592.50	1334.00	4.60	3.52	9.69	3.05	18.91	1276.73	38.36	65.12	157.74	24.75
*	3250.000	2592.99	1639.00	5.09	3.84	10.16	3.56	29.88	1521.11	88.01	67.37	146.30	24.51
*	3320.000	2603.70	790.00	3.70	4.91	10.06	5.11	45.22	707.31	37.47	31.64	194.83	12.35
*	3320.000	2604.58	1158.00	4.58	5.41	11.29	5.79	76.35	1010.96	70.69	34.18	178.10	12.56
*	3320.000	2604.95	1334.00	4.95	5.63	11.81	6.05	92.73	1152.80	88.47	35.24	173.71	12.45
*	3320.000	2605.57	1639.00	5.57	5.93	12.56	6.41	123.52	1393.15	122.33	37.01	165.35	12.57
*	3410.000	2627.50	790.00	5.30	5.69	10.51	1.31	62.24	727.55	.21	26.54	204.70	23.79
*	3410.000	2628.52	1158.00	6.32	6.38	11.66	2.58	118.50	1035.64	3.86	29.68	180.29	23.93
*	3410.000	2628.93	1334.00	6.73	6.66	12.16	2.99	148.12	1178.62	7.26	30.96	174.89	23.98
*	3410.000	2629.60	1639.00	7.40	7.07	12.92	3.57	203.45	1419.82	15.72	33.03	167.05	24.04
*	3470.000	2647.10	790.00	7.10	5.57	12.32	4.78	83.61	658.50	47.89	21.03	180.31	19.60
*	3470.000	2648.44	1158.00	8.44	6.32	13.62	5.68	155.18	895.63	107.19	24.85	167.10	19.92
*	3470.000	2648.98	1334.00	8.98	6.62	14.15	6.02	192.57	1001.28	140.15	26.40	163.56	20.05
*	3470.000	2649.83	1639.00	9.83	7.06	14.95	6.53	261.20	1174.88	202.92	28.83	158.71	20.23
*	3520.000	2664.66	790.00	4.36	5.93	10.93	5.24	352.50	368.19	69.30	44.21	175.82	17.57
*	3520.000	2665.33	1158.00	5.03	7.12	12.35	5.87	568.02	486.61	103.37	46.16	182.12	16.90
*	3520.000	2665.62	1334.00	5.32	7.59	12.91	6.11	673.34	540.23	120.43	47.00	183.35	16.64
*	3520.000	2666.10	1639.00	5.80	8.29	13.73	6.48	858.15	629.70	151.14	48.36	183.68	16.26
*	3590.000	2687.67	790.00	5.87	4.56	11.59	3.94	36.63	732.73	20.64	21.53	180.65	23.01
*	3590.000	2688.92	1158.00	7.12	5.26	12.86	4.75	75.91	1030.73	51.36	24.62	162.41	23.59
*	3590.000	2689.45	1334.00	7.65	5.53	13.37	5.06	97.79	1166.70	69.51	25.91	156.78	23.82
*	3590.000	2690.24	1639.00	8.44	5.97	14.26	5.54	138.59	1396.03	104.37	27.87	152.69	24.14
*	3680.000	2721.86	790.00	5.66	5.98	12.76	5.92	135.36	498.66	155.98	23.91	147.90	34.19
*	3680.000	2723.03	1158.00	6.83	7.23	14.26	6.62	231.70	672.48	253.81	26.48	143.83	34.11
*	3680.000	2723.59	1334.00	7.39	7.56	14.57	6.98	277.84	742.96	313.20	27.81	135.13	34.14
*	3680.000	2724.25	1639.00	8.05	8.28	15.67	7.77	353.01	870.73	415.26	29.44	139.45	34.01

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3780.000	2757.33	790.00	5.73	6.02	12.24	4.97	123.65	606.98	59.37	23.16	169.66	35.46
*	3780.000	2758.55	1158.00	6.95	6.56	13.62	5.67	198.63	845.60	113.76	26.41	155.73	35.52
*	3780.000	2759.05	1334.00	7.45	6.80	14.21	5.95	236.62	954.52	142.86	27.74	152.48	35.46
*	3780.000	2759.71	1639.00	8.11	7.35	15.46	6.52	302.77	1142.38	193.84	29.49	159.03	35.46
*	3880.000	2807.20	790.00	5.10	3.00	9.84	3.01	8.17	768.60	13.23	32.79	190.05	49.87
*	3880.000	2808.13	1158.00	6.03	3.82	10.87	3.89	26.08	1086.83	45.08	38.45	166.51	49.58
*	3880.000	2808.52	1334.00	6.42	4.11	11.28	4.20	37.39	1231.05	65.56	40.81	159.66	49.47
*	3880.000	2809.13	1639.00	7.03	4.54	11.91	4.66	60.37	1471.00	107.63	44.52	150.93	49.42
*	3940.000	2821.49	790.00	5.69	4.53	11.03	4.92	71.54	639.74	78.72	30.43	156.19	14.29
*	3940.000	2822.56	1158.00	6.76	5.24	12.13	5.54	145.49	868.14	144.38	35.85	142.91	14.43
*	3940.000	2823.02	1334.00	7.22	5.46	12.46	5.94	185.34	963.89	184.77	38.11	135.90	14.50
*	3940.000	2823.65	1639.00	7.85	5.89	13.22	6.64	255.29	1126.98	256.73	41.16	134.33	14.52
*	3980.000	2839.72	790.00	5.82	.00	9.76	3.12	.00	783.92	6.08	30.18	227.21	18.23
*	3980.000	2840.62	1158.00	6.72	2.03	10.80	4.13	2.31	1132.06	23.63	35.22	196.93	18.05
*	3980.000	2840.98	1334.00	7.08	2.55	11.27	4.48	6.07	1293.08	34.85	37.32	190.11	17.96
*	3980.000	2841.60	1639.00	7.70	3.25	11.87	4.93	17.95	1561.84	59.20	40.88	175.69	17.95
*	4050.000	2863.12	217.00	2.32	3.03	7.42	3.19	7.92	198.66	10.42	22.20	218.44	23.40
*	4050.000	2863.55	305.00	2.75	3.48	8.19	3.63	15.54	269.84	19.62	24.57	202.00	22.93
*	4050.000	2863.76	352.00	2.96	3.68	8.53	3.82	20.34	306.34	25.33	25.71	195.12	22.78
*	4050.000	2864.10	433.00	3.30	3.96	9.02	4.10	29.62	367.12	36.25	27.54	184.96	22.50
*	4160.000	2925.00	217.00	2.50	5.21	5.99	2.37	28.74	186.46	1.79	37.76	332.24	61.89
*	4160.000	2925.29	305.00	2.79	5.24	6.63	2.79	35.84	265.01	4.15	39.12	291.58	61.74
*	4160.000	2925.44	352.00	2.94	5.22	6.86	2.94	39.65	306.54	5.81	39.84	269.62	61.68
*	4160.000	2925.62	433.00	3.12	5.49	7.51	3.28	46.95	377.36	8.69	40.71	275.61	61.52
*	4250.000	2968.07	217.00	2.87	.00	6.17	1.67	.00	209.37	7.62	37.62	197.04	43.06
*	4250.000	2968.39	305.00	3.19	.04	6.78	2.67	.00	278.36	26.64	39.97	194.03	43.11
*	4250.000	2968.54	352.00	3.34	.90	7.07	3.04	.17	313.73	38.10	41.33	190.37	43.10
*	4250.000	2968.77	433.00	3.57	1.40	7.52	3.56	.99	372.73	59.28	43.45	186.23	43.16
*	4350.000	3042.67	217.00	3.87	5.06	8.73	2.02	33.21	182.02	1.76	15.21	253.64	74.60
*	4350.000	3043.29	305.00	4.49	5.11	9.40	2.88	45.36	250.17	9.47	18.23	211.95	74.90
*	4350.000	3043.55	352.00	4.75	5.24	9.81	3.21	51.97	284.79	15.24	19.49	206.02	75.01
*	4350.000	3043.99	433.00	5.19	5.35	10.32	3.65	63.41	341.08	28.51	21.60	191.50	75.22
*	4440.000	3136.22	217.00	3.42	.00	7.53	.00	.00	217.00	.00	16.84	281.95	93.55
*	4440.000	3136.72	305.00	3.92	.00	8.06	.00	.00	305.00	.00	19.30	269.23	93.43
*	4440.000	3136.96	352.00	4.16	.00	8.27	.00	.00	352.00	.00	20.48	261.53	93.40
*	4440.000	3137.29	433.00	4.49	.04	8.73	.00	.00	433.00	.00	21.87	256.08	93.30
*	4530.000	3245.45	217.00	3.85	6.89	8.57	.00	90.10	126.90	.00	14.50	326.74	109.23
*	4530.000	3246.00	305.00	4.40	7.40	9.21	.00	126.64	178.36	.00	16.58	315.50	109.28
*	4530.000	3246.19	352.00	4.59	7.78	9.82	.05	145.05	206.95	.00	17.26	329.67	109.23
*	4530.000	3246.61	433.00	5.01	7.85	10.42	1.67	173.98	258.68	.34	18.66	298.32	109.32

WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1520.000	.00	.00	.00	2311.00	3033.00	2313.70	.00	2314.24	114.00	6.75	529.04	284.07
	1520.000	.00	.00	.00	2311.00	4531.00	2314.31	.00	2314.98	106.76	7.60	713.76	438.52
	1520.000	.00	.00	.00	2311.00	5307.00	2314.50	.00	2315.28	115.63	8.24	775.16	493.54
	1520.000	.00	.00	.00	2311.00	6687.00	2315.05	.00	2315.85	99.04	8.48	963.39	671.92
*	1600.000	420.00	.00	.00	2324.00	3033.00	2326.94	2326.94	2327.54	339.42	6.18	489.32	164.63
*	1600.000	420.00	.00	.00	2324.00	4531.00	2327.29	2327.29	2328.06	312.26	7.08	642.67	256.41
*	1600.000	420.00	.00	.00	2324.00	5307.00	2327.45	2327.45	2328.31	306.46	7.49	712.60	303.15
*	1600.000	420.00	.00	.00	2324.00	6687.00	2327.77	2327.77	2328.73	271.77	7.91	853.25	405.63
	1740.000	740.00	.00	.00	2343.50	3033.00	2345.89	.00	2346.26	195.30	4.92	617.36	217.03
	1740.000	740.00	.00	.00	2343.50	4531.00	2346.20	.00	2346.73	207.36	5.86	775.36	314.65
	1740.000	740.00	.00	.00	2343.50	5307.00	2346.35	.00	2346.95	209.97	6.24	851.99	366.25
	1740.000	740.00	.00	.00	2343.50	6687.00	2346.54	.00	2347.30	231.91	7.03	953.92	439.11
*	1830.000	480.00	.00	.00	2355.90	3033.00	2361.20	2361.20	2361.83	360.75	6.48	708.29	159.69
*	1830.000	480.00	.00	.00	2355.90	4531.00	2361.54	2361.54	2362.34	354.38	7.33	902.60	240.69
*	1830.000	480.00	.00	.00	2355.90	5307.00	2361.69	2361.69	2362.58	349.47	7.74	992.33	283.88
	1830.000	480.00	.00	.00	2355.90	6687.00	2362.06	2362.06	2362.96	274.58	7.81	1225.36	403.55
	1940.000	580.00	.00	.00	2370.10	3033.00	2376.15	.00	2376.79	193.46	5.53	485.35	218.06
	1940.000	580.00	.00	.00	2370.10	4531.00	2376.65	.00	2377.45	199.54	6.41	642.88	320.76
	1940.000	580.00	.00	.00	2370.10	5307.00	2376.87	.00	2377.75	203.09	6.81	716.71	372.39
	1940.000	580.00	.00	.00	2370.10	6687.00	2377.06	2377.06	2378.22	249.89	7.88	786.42	423.02
*	2050.000	580.00	.00	.00	2389.40	3033.00	2392.07	2392.07	2392.73	320.45	6.65	465.72	169.43
*	2050.000	580.00	.00	.00	2389.40	4531.00	2392.48	2392.48	2393.31	298.46	7.41	619.85	262.27
*	2050.000	580.00	.00	.00	2389.40	5307.00	2392.69	2392.69	2393.58	279.01	7.63	703.51	317.71
*	2050.000	580.00	.00	.00	2389.40	6687.00	2392.99	2392.99	2394.01	274.53	8.17	824.78	403.59
	2140.000	480.00	.00	.00	2401.10	3033.00	2404.75	2404.70	2405.93	234.32	8.76	349.59	198.14
*	2140.000	480.00	.00	.00	2401.10	4531.00	2405.62	2405.62	2406.97	230.58	9.37	492.41	298.39
*	2140.000	480.00	.00	.00	2401.10	5307.00	2405.99	2405.99	2407.40	229.70	9.61	564.30	350.16
*	2140.000	480.00	.00	.00	2401.10	6687.00	2406.58	2406.58	2408.05	220.80	9.85	695.53	450.02
	2250.000	580.00	.00	.00	2414.00	3033.00	2417.14	.00	2417.67	175.08	5.86	517.49	229.22
	2250.000	580.00	.00	.00	2414.00	4531.00	2417.65	.00	2418.35	167.89	6.72	673.79	349.68
	2250.000	580.00	.00	.00	2414.00	5307.00	2417.88	.00	2418.66	165.46	7.12	745.01	412.57
	2250.000	580.00	.00	.00	2414.00	6687.00	2418.22	.00	2419.18	167.80	7.83	854.00	516.23
*	2370.000	630.00	.00	.00	2430.80	3033.00	2435.53	2435.53	2436.51	282.87	7.94	383.73	180.33
*	2370.000	630.00	.00	.00	2430.80	4531.00	2436.20	2436.20	2437.32	274.26	8.53	533.21	273.60
*	2370.000	630.00	.00	.00	2430.80	5307.00	2436.47	2436.47	2437.67	269.55	8.82	604.26	323.25
*	2370.000	630.00	.00	.00	2430.80	6687.00	2436.92	2436.92	2438.23	260.43	9.23	727.93	414.37

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2450.000	420.00	.00	.00	2441.70	3033.00	2445.32	.00	2445.75	173.88	5.04	590.15	230.01
	2450.000	420.00	.00	.00	2441.70	4531.00	2445.72	.00	2446.28	168.66	5.89	760.40	348.89
	2450.000	420.00	.00	.00	2441.70	5307.00	2445.91	.00	2446.54	167.57	6.27	838.63	409.96
	2450.000	420.00	.00	.00	2441.70	6687.00	2446.21	.00	2446.96	167.45	6.89	965.07	516.76
*	2510.000	320.00	.00	.00	2446.80	3033.00	2452.29	2452.29	2453.27	141.82	2.32	408.96	254.68
*	2510.000	320.00	.00	.00	2446.80	4531.00	2453.02	2453.02	2454.05	138.32	3.74	608.38	385.26
*	2510.000	320.00	.00	.00	2446.80	5307.00	2453.33	2453.33	2454.37	135.41	4.35	703.39	456.06
*	2510.000	320.00	.00	.00	2446.80	6687.00	2453.62	2453.62	2454.87	159.99	5.34	795.04	528.67
*	2570.000	320.00	.00	.00	2459.50	3033.00	2462.73	2462.73	2463.46	315.40	6.85	443.80	170.78
*	2570.000	320.00	.00	.00	2459.50	4531.00	2463.18	2463.18	2464.09	296.72	7.67	592.10	263.04
*	2570.000	320.00	.00	.00	2459.50	5307.00	2463.37	2463.37	2464.38	283.66	8.06	660.07	315.10
*	2570.000	320.00	.00	.00	2459.50	6687.00	2463.70	2463.70	2464.87	266.73	8.68	772.79	409.45
*	2620.000	260.00	.00	.00	2465.40	3033.00	2470.27	2470.27	2471.15	109.13	7.69	410.59	290.33
*	2620.000	260.00	.00	.00	2465.40	4531.00	2470.90	2470.90	2471.86	108.20	8.00	584.67	435.59
*	2620.000	260.00	.00	.00	2465.40	5307.00	2471.30	2471.30	2472.15	95.94	7.50	723.50	541.80
*	2620.000	260.00	.00	.00	2465.40	6687.00	2471.52	2471.52	2472.56	115.96	8.27	822.50	620.98
*	2690.000	370.00	.00	.00	2475.30	3033.00	2480.29	2480.29	2481.42	147.07	8.66	364.27	250.10
*	2690.000	370.00	.00	.00	2475.30	4531.00	2481.26	2481.26	2482.34	188.51	8.47	548.13	330.01
*	2690.000	370.00	.00	.00	2475.30	5307.00	2481.60	2481.60	2482.67	219.56	8.36	642.06	358.16
	690.000	370.00	.00	.00	2475.30	6687.00	2482.09	2482.09	2483.15	244.21	8.20	810.85	427.91
*	2760.000	370.00	.00	.00	2492.10	1225.00	2494.54	2494.54	2495.03	287.57	5.94	217.85	72.24
*	2760.000	370.00	.00	.00	2492.10	1782.00	2494.79	2494.79	2495.48	318.46	7.08	267.09	99.86
*	2760.000	370.00	.00	.00	2492.10	2048.00	2494.92	2494.92	2495.68	309.77	7.40	293.80	116.36
*	2760.000	370.00	.00	.00	2492.10	2512.00	2495.13	2495.13	2496.00	297.90	7.90	337.49	145.54
*	2840.000	420.00	.00	.00	2502.90	1225.00	2508.55	2508.55	2509.22	150.92	7.80	220.18	99.72
*	2840.000	420.00	.00	.00	2502.90	1782.00	2508.92	2508.92	2509.76	169.37	8.92	274.74	136.93
*	2840.000	420.00	.00	.00	2502.90	2048.00	2509.12	2509.12	2510.00	167.25	9.19	303.10	158.36
*	2840.000	420.00	.00	.00	2502.90	2512.00	2509.31	2509.31	2510.39	191.89	10.19	331.71	181.34
*	2900.000	320.00	.00	.00	2511.60	1225.00	2517.34	2517.34	2518.27	51.77	8.54	220.38	170.25
*	2900.000	320.00	.00	.00	2511.60	1782.00	2517.92	2517.92	2518.97	56.44	9.63	311.50	237.21
*	2900.000	320.00	.00	.00	2511.60	2048.00	2518.14	2518.14	2519.25	58.82	10.10	346.48	267.04
*	2900.000	320.00	.00	.00	2511.60	2512.00	2518.50	2518.50	2519.70	61.74	10.79	403.11	319.69
*	3010.000	580.00	.00	.00	2530.40	1225.00	2534.93	2534.93	2535.91	87.96	9.76	188.75	130.61
*	3010.000	580.00	.00	.00	2530.40	1782.00	2535.56	2535.56	2536.67	88.30	10.81	264.96	189.64
*	3010.000	580.00	.00	.00	2530.40	2048.00	2535.83	2535.83	2536.98	86.72	11.15	298.72	219.92
*	3010.000	580.00	.00	.00	2530.40	2512.00	2536.21	2536.21	2537.48	89.22	11.90	345.94	265.94
*	3090.000	420.00	.00	.00	2543.70	790.00	2547.88	2547.88	2549.14	188.37	9.14	91.15	57.56
*	3090.000	420.00	.00	.00	2543.70	1158.00	2548.72	2548.72	2550.16	157.91	9.93	128.16	92.15
*	3090.000	420.00	.00	.00	2543.70	1334.00	2549.03	2549.03	2550.58	156.02	10.39	143.29	106.80
*	3090.000	420.00	.00	.00	2543.70	1639.00	2549.59	2549.59	2551.22	141.42	10.79	174.46	137.82

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3160.000	370.00	.00	.00	2560.80	790.00	2566.22	2566.22	2567.95	159.58	11.13	83.36	62.54
*	3160.000	370.00	.00	.00	2560.80	1158.00	2567.29	2567.29	2569.38	151.37	12.49	112.29	94.12
*	3160.000	370.00	.00	.00	2560.80	1334.00	2567.75	2567.75	2569.99	147.42	13.00	125.85	109.87
*	3160.000	370.00	.00	.00	2560.80	1639.00	2568.48	2568.48	2570.94	142.88	13.80	148.36	137.12
*	3250.000	480.00	.00	.00	2587.90	790.00	2591.35	2591.35	2592.52	213.00	8.71	93.21	54.13
*	3250.000	480.00	.00	.00	2587.90	1158.00	2592.03	2592.03	2593.50	196.69	9.84	124.09	82.57
*	3250.000	480.00	.00	.00	2587.90	1334.00	2592.50	2592.50	2593.90	157.74	9.69	149.77	106.21
*	3250.000	480.00	.00	.00	2587.90	1639.00	2592.99	2592.99	2594.49	146.30	10.16	182.26	135.51
*	3320.000	370.00	.00	.00	2600.00	790.00	2603.70	2603.70	2605.15	194.83	10.06	86.87	56.60
*	3320.000	370.00	.00	.00	2600.00	1158.00	2604.58	2604.58	2606.38	178.10	11.29	115.83	86.77
*	3320.000	370.00	.00	.00	2600.00	1334.00	2604.95	2604.95	2606.90	173.71	11.81	128.67	101.21
*	3320.000	370.00	.00	.00	2600.00	1639.00	2605.57	2605.57	2607.74	165.35	12.56	150.83	127.46
*	3410.000	480.00	.00	.00	2622.20	790.00	2627.50	2627.50	2629.12	204.70	10.51	80.31	55.22
*	3410.000	480.00	.00	.00	2622.20	1158.00	2628.52	2628.52	2630.47	180.29	11.66	108.92	86.24
*	3410.000	480.00	.00	.00	2622.20	1334.00	2628.93	2628.93	2631.04	174.89	12.16	121.57	100.87
*	3410.000	480.00	.00	.00	2622.20	1639.00	2629.60	2629.60	2631.95	167.05	12.92	143.04	126.81
*	3470.000	320.00	.00	.00	2640.00	790.00	2647.10	2647.10	2649.13	180.31	12.32	78.48	58.83
*	3470.000	320.00	.00	.00	2640.00	1158.00	2648.44	2648.44	2650.79	167.10	13.62	109.20	89.58
*	3470.000	320.00	.00	.00	2640.00	1334.00	2648.98	2648.98	2651.47	163.56	14.15	123.14	104.31
*	3470.000	320.00	.00	.00	2640.00	1639.00	2649.83	2649.83	2652.52	158.71	14.95	146.65	130.10
*	3520.000	260.00	.00	.00	2660.30	790.00	2664.66	2664.66	2665.81	175.82	10.93	106.37	59.58
*	3520.000	260.00	.00	.00	2660.30	1158.00	2665.33	2665.33	2666.76	182.12	12.35	136.75	85.81
*	3520.000	260.00	.00	.00	2660.30	1334.00	2665.62	2665.62	2667.18	183.35	12.91	150.26	98.52
*	3520.000	260.00	.00	.00	2660.30	1639.00	2666.10	2666.10	2667.84	183.68	13.73	172.74	120.93
*	3590.000	370.00	.00	.00	2681.80	790.00	2687.67	2687.67	2689.63	180.65	11.59	76.53	58.78
*	3590.000	370.00	.00	.00	2681.80	1158.00	2688.92	2688.92	2691.25	162.41	12.86	105.39	90.87
*	3590.000	370.00	.00	.00	2681.80	1334.00	2689.45	2689.45	2691.93	156.78	13.37	118.68	106.54
*	3590.000	370.00	.00	.00	2681.80	1639.00	2690.24	2690.24	2693.00	152.69	14.26	139.98	132.64
*	3680.000	480.00	.00	.00	2716.20	790.00	2721.86	2721.86	2723.66	147.90	12.76	88.06	64.96
*	3680.000	480.00	.00	.00	2716.20	1158.00	2723.03	2723.03	2725.18	143.83	14.26	117.53	96.56
*	3680.000	480.00	.00	.00	2716.20	1334.00	2723.59	2723.59	2725.79	135.13	14.57	132.68	114.76
*	3680.000	480.00	.00	.00	2716.20	1639.00	2724.25	2724.25	2726.75	139.45	15.67	151.63	138.80
*	3780.000	530.00	.00	.00	2751.60	790.00	2757.33	2757.33	2759.23	169.66	12.24	82.07	60.65
*	3780.000	530.00	.00	.00	2751.60	1158.00	2758.55	2758.55	2760.82	155.73	13.62	112.42	92.79
*	3780.000	530.00	.00	.00	2751.60	1334.00	2759.05	2759.05	2761.48	152.48	14.21	125.97	108.03
*	3780.000	530.00	.00	.00	2751.60	1639.00	2759.71	2759.71	2762.53	159.03	15.46	144.79	129.97
*	3880.000	530.00	.00	.00	2802.10	790.00	2807.20	2807.20	2808.66	190.05	9.84	85.19	57.31
*	3880.000	530.00	.00	.00	2802.10	1158.00	2808.13	2808.13	2809.87	166.51	10.87	118.43	89.74
*	3880.000	530.00	.00	.00	2802.10	1334.00	2808.52	2808.52	2810.36	159.66	11.28	133.83	105.57
*	3880.000	530.00	.00	.00	2802.10	1639.00	2809.13	2809.13	2811.14	150.93	11.91	159.91	133.41

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3940.000	320.00	.00	.00	2815.80	790.00	2821.49	2821.49	2823.08	156.19	11.03	89.80	63.21
*	3940.000	320.00	.00	.00	2815.80	1158.00	2822.56	2822.56	2824.39	142.91	12.13	125.43	96.87
*	3940.000	320.00	.00	.00	2815.80	1334.00	2823.02	2823.02	2824.91	135.90	12.46	142.44	114.43
*	3940.000	320.00	.00	.00	2815.80	1639.00	2823.65	2823.65	2825.71	134.33	13.22	167.30	141.41
*	3980.000	210.00	.00	.00	2833.90	790.00	2839.72	2839.72	2841.18	227.21	9.76	82.30	52.41
*	3980.000	210.00	.00	.00	2833.90	1158.00	2840.62	2840.62	2842.39	196.93	10.80	111.67	82.52
*	3980.000	210.00	.00	.00	2833.90	1334.00	2840.98	2840.98	2842.90	190.11	11.27	124.89	96.75
*	3980.000	210.00	.00	.00	2833.90	1639.00	2841.60	2841.60	2843.70	175.69	11.87	149.10	123.65
*	4050.000	370.00	.00	.00	2860.80	217.00	2863.12	2863.12	2863.91	218.44	7.42	32.67	14.68
*	4050.000	370.00	.00	.00	2860.80	305.00	2863.55	2863.55	2864.49	202.00	8.19	42.82	21.46
*	4050.000	370.00	.00	.00	2860.80	352.00	2863.76	2863.76	2864.77	195.12	8.53	48.09	25.20
*	4050.000	370.00	.00	.00	2860.80	433.00	2864.10	2864.10	2865.21	184.96	9.02	57.04	31.84
*	4160.000	580.00	.00	.00	2922.50	217.00	2925.00	2925.00	2925.54	332.24	5.99	37.40	11.91
*	4160.000	580.00	.00	.00	2922.50	305.00	2925.29	2925.29	2925.93	291.58	6.63	48.29	17.86
*	4160.000	580.00	.00	.00	2922.50	352.00	2925.44	2925.44	2926.12	269.62	6.86	54.22	21.44
*	4160.000	580.00	.00	.00	2922.50	433.00	2925.62	2925.62	2926.43	275.61	7.51	61.45	26.08
*	4250.000	480.00	.00	.00	2965.20	217.00	2968.07	2968.07	2968.64	197.04	6.17	38.52	15.46
*	4250.000	480.00	.00	.00	2965.20	305.00	2968.39	2968.39	2969.05	194.03	6.78	51.08	21.90
*	4250.000	480.00	.00	.00	2965.20	352.00	2968.54	2968.54	2969.25	190.37	7.07	57.11	25.51
*	4250.000	480.00	.00	.00	2965.20	433.00	2968.77	2968.77	2969.56	186.23	7.52	66.92	31.73
*	4350.000	530.00	.00	.00	3038.80	217.00	3042.67	3042.67	3043.72	253.64	8.73	28.28	13.63
*	4350.000	530.00	.00	.00	3038.80	305.00	3043.29	3043.29	3044.48	211.95	9.40	38.78	20.95
*	4350.000	530.00	.00	.00	3038.80	352.00	3043.55	3043.55	3044.83	206.02	9.81	43.69	24.52
*	4350.000	530.00	.00	.00	3038.80	433.00	3043.99	3043.99	3045.37	191.50	10.32	52.70	31.29
*	4440.000	480.00	.00	.00	3132.80	217.00	3136.22	3136.22	3137.10	281.95	7.53	28.81	12.92
*	4440.000	480.00	.00	.00	3132.80	305.00	3136.72	3136.72	3137.73	269.23	8.06	37.83	18.59
*	4440.000	480.00	.00	.00	3132.80	352.00	3136.96	3136.96	3138.02	261.53	8.27	42.59	21.77
*	4440.000	480.00	.00	.00	3132.80	433.00	3137.29	3137.29	3138.47	256.08	8.73	49.60	27.06
*	4530.000	480.00	.00	.00	3241.60	217.00	3245.45	3245.45	3246.42	326.74	8.57	27.89	12.00
*	4530.000	480.00	.00	.00	3241.60	305.00	3246.00	3246.00	3247.12	315.50	9.21	36.48	17.17
*	4530.000	480.00	.00	.00	3241.60	352.00	3246.19	3246.19	3247.46	329.67	9.82	39.72	19.39
*	4530.000	480.00	.00	.00	3241.60	433.00	3246.61	3246.61	3248.00	298.32	10.42	47.21	25.07

WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1520.000	3033.00	2313.70	.00	.00	.00	287.12	.00
	1520.000	4531.00	2314.31	.61	.00	.00	318.39	.00
	1520.000	5307.00	2314.50	.19	.00	.00	328.13	.00
	1520.000	6687.00	2315.05	.55	.00	.00	356.31	.00
*	1600.000	3033.00	2326.94	.00	13.24	.00	429.89	420.00
*	1600.000	4531.00	2327.29	.35	12.98	.00	437.05	420.00
*	1600.000	5307.00	2327.45	.16	12.95	.00	440.28	420.00
*	1600.000	6687.00	2327.77	.32	12.72	.00	446.70	420.00
	1740.000	3033.00	2345.89	.00	18.95	.00	509.63	740.00
	1740.000	4531.00	2346.20	.32	18.91	.00	516.61	740.00
	1740.000	5307.00	2346.35	.15	18.90	.00	520.95	740.00
	1740.000	6687.00	2346.54	.19	18.77	.00	526.68	740.00
*	1830.000	3033.00	2361.20	.00	15.31	.00	537.21	480.00
*	1830.000	4531.00	2361.54	.34	15.34	.00	589.53	480.00
*	1830.000	5307.00	2361.69	.15	15.34	.00	607.71	480.00
	1830.000	6687.00	2362.06	.37	15.53	.00	652.05	480.00
	1940.000	3033.00	2376.15	.00	14.95	.00	293.76	580.00
	1940.000	4531.00	2376.65	.50	15.11	.00	331.72	580.00
	1940.000	5307.00	2376.87	.22	15.17	.00	347.87	580.00
	1940.000	6687.00	2377.06	.19	15.00	.00	362.15	580.00
*	2050.000	3033.00	2392.07	.00	15.92	.00	363.71	580.00
*	2050.000	4531.00	2392.48	.41	15.83	.00	385.18	580.00
*	2050.000	5307.00	2392.69	.21	15.82	.00	396.34	580.00
*	2050.000	6687.00	2392.99	.30	15.93	.00	411.99	580.00
	2140.000	3033.00	2404.75	.00	12.69	.00	142.64	480.00
*	2140.000	4531.00	2405.62	.87	13.15	.00	186.27	480.00
*	2140.000	5307.00	2405.99	.37	13.30	.00	206.17	480.00
*	2140.000	6687.00	2406.58	.59	13.59	.00	235.28	480.00
	2250.000	3033.00	2417.14	.00	12.38	.00	301.96	580.00
	2250.000	4531.00	2417.65	.51	12.02	.00	309.83	580.00
	2250.000	5307.00	2417.88	.23	11.89	.00	311.07	580.00
	2250.000	6687.00	2418.22	.35	11.64	.00	314.18	580.00
*	2370.000	3033.00	2435.53	.00	18.40	.00	204.11	630.00
*	2370.000	4531.00	2436.20	.66	18.55	.00	248.40	630.00
*	2370.000	5307.00	2436.47	.28	18.60	.00	264.41	630.00
*	2370.000	6687.00	2436.92	.45	18.69	.00	290.11	630.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2450.000	3033.00	2445.32	.00	9.79	.00	422.75	420.00
	2450.000	4531.00	2445.72	.40	9.53	.00	424.10	420.00
	2450.000	5307.00	2445.91	.19	9.43	.00	424.71	420.00
	2450.000	6687.00	2446.21	.30	9.29	.00	425.71	420.00
*	2510.000	3033.00	2452.29	.00	6.96	.00	235.69	320.00
*	2510.000	4531.00	2453.02	.74	7.30	.00	298.00	320.00
*	2510.000	5307.00	2453.33	.31	7.43	.00	312.90	320.00
*	2510.000	6687.00	2453.62	.29	7.42	.00	326.64	320.00
*	2570.000	3033.00	2462.73	.00	10.45	.00	319.77	320.00
*	2570.000	4531.00	2463.18	.44	10.15	.00	343.96	320.00
*	2570.000	5307.00	2463.37	.20	10.04	.00	344.29	320.00
*	2570.000	6687.00	2463.70	.33	10.08	.00	344.83	320.00
*	2620.000	3033.00	2470.27	.00	7.54	.00	236.46	260.00
*	2620.000	4531.00	2470.90	.63	7.73	.00	314.60	260.00
*	2620.000	5307.00	2471.30	.40	7.93	.00	453.25	260.00
*	2620.000	6687.00	2471.52	.22	7.82	.00	453.87	260.00
*	2690.000	3033.00	2480.29	.00	10.01	.00	158.76	370.00
*	2690.000	4531.00	2481.26	.97	10.36	.00	242.64	370.00
*	2690.000	5307.00	2481.60	.34	10.30	.00	300.24	370.00
*	2690.000	6687.00	2482.09	.49	10.57	.00	393.20	370.00
*	2760.000	1225.00	2494.54	.00	14.25	.00	200.48	370.00
*	2760.000	1782.00	2494.79	.25	13.53	.00	201.26	370.00
*	2760.000	2048.00	2494.92	.13	13.31	.00	201.68	370.00
*	2760.000	2512.00	2495.13	.22	13.04	.00	202.36	370.00
*	2840.000	1225.00	2508.55	.00	14.01	.00	146.05	420.00
*	2840.000	1782.00	2508.92	.37	14.14	.00	147.44	420.00
*	2840.000	2048.00	2509.12	.19	14.20	.00	148.16	420.00
*	2840.000	2512.00	2509.31	.19	14.17	.00	148.87	420.00
*	2900.000	1225.00	2517.34	.00	8.79	.00	155.66	320.00
*	2900.000	1782.00	2517.92	.58	9.00	.00	157.45	320.00
*	2900.000	2048.00	2518.14	.22	9.03	.00	158.13	320.00
*	2900.000	2512.00	2518.50	.36	9.19	.00	159.22	320.00
*	3010.000	1225.00	2534.93	.00	17.59	.00	119.35	580.00
*	3010.000	1782.00	2535.56	.63	17.63	.00	122.53	580.00
*	3010.000	2048.00	2535.83	.27	17.69	.00	123.92	580.00
*	3010.000	2512.00	2536.21	.38	17.71	.00	125.83	580.00
*	3090.000	790.00	2547.88	.00	12.95	.00	39.08	420.00
*	3090.000	1158.00	2548.72	.85	13.17	.00	48.43	420.00
*	3090.000	1334.00	2549.03	.30	13.20	.00	51.79	420.00
*	3090.000	1639.00	2549.59	.57	13.39	.00	58.10	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3160.000	790.00	2566.22	.00	18.34	.00	25.49	370.00
*	3160.000	1158.00	2567.29	1.07	18.57	.00	28.61	370.00
*	3160.000	1334.00	2567.75	.46	18.73	.00	29.96	370.00
*	3160.000	1639.00	2568.48	.73	18.89	.00	32.07	370.00
*	3250.000	790.00	2591.35	.00	25.13	.00	43.40	480.00
*	3250.000	1158.00	2592.03	.68	24.74	.00	48.03	480.00
*	3250.000	1334.00	2592.50	.47	24.75	.00	65.12	480.00
*	3250.000	1639.00	2592.99	.49	24.51	.00	67.37	480.00
*	3320.000	790.00	2603.70	.00	12.35	.00	31.64	370.00
*	3320.000	1158.00	2604.58	.88	12.56	.00	34.18	370.00
*	3320.000	1334.00	2604.95	.37	12.45	.00	35.24	370.00
*	3320.000	1639.00	2605.57	.61	12.57	.00	37.01	370.00
*	3410.000	790.00	2627.50	.00	23.79	.00	26.54	480.00
*	3410.000	1158.00	2628.52	1.02	23.93	.00	29.68	480.00
*	3410.000	1334.00	2628.93	.42	23.98	.00	30.96	480.00
*	3410.000	1639.00	2629.60	.67	24.04	.00	33.03	480.00
*	3470.000	790.00	2647.10	.00	19.60	.00	21.03	320.00
*	3470.000	1158.00	2648.44	1.34	19.92	.00	24.85	320.00
*	3470.000	1334.00	2648.98	.54	20.05	.00	26.40	320.00
*	3470.000	1639.00	2649.83	.85	20.23	.00	28.83	320.00
*	3520.000	790.00	2664.66	.00	17.57	.00	44.21	260.00
*	3520.000	1158.00	2665.33	.67	16.90	.00	46.16	260.00
*	3520.000	1334.00	2665.62	.29	16.64	.00	47.00	260.00
*	3520.000	1639.00	2666.10	.47	16.26	.00	48.36	260.00
*	3590.000	790.00	2687.67	.00	23.01	.00	21.53	370.00
*	3590.000	1158.00	2688.92	1.25	23.59	.00	24.62	370.00
*	3590.000	1334.00	2689.45	.53	23.82	.00	25.91	370.00
*	3590.000	1639.00	2690.24	.79	24.14	.00	27.87	370.00
*	3680.000	790.00	2721.86	.00	34.19	.00	23.91	480.00
*	3680.000	1158.00	2723.03	1.17	34.11	.00	26.48	480.00
*	3680.000	1334.00	2723.59	.56	34.14	.00	27.81	480.00
*	3680.000	1639.00	2724.25	.66	34.01	.00	29.44	480.00
*	3780.000	790.00	2757.33	.00	35.46	.00	23.16	530.00
*	3780.000	1158.00	2758.55	1.22	35.52	.00	26.41	530.00
*	3780.000	1334.00	2759.05	.50	35.46	.00	27.74	530.00
*	3780.000	1639.00	2759.71	.66	35.46	.00	29.49	530.00
*	3880.000	790.00	2807.20	.00	49.87	.00	32.79	530.00
*	3880.000	1158.00	2808.13	.93	49.58	.00	38.45	530.00
*	3880.000	1334.00	2808.52	.39	49.47	.00	40.81	530.00
*	3880.000	1639.00	2809.13	.61	49.42	.00	44.52	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3940.000	790.00	2821.49	.00	14.29	.00	30.43	320.00
*	3940.000	1158.00	2822.56	1.07	14.43	.00	35.85	320.00
*	3940.000	1334.00	2823.02	.46	14.50	.00	38.11	320.00
*	3940.000	1639.00	2823.65	.63	14.52	.00	41.16	320.00
*	3980.000	790.00	2839.72	.00	18.23	.00	30.18	210.00
*	3980.000	1158.00	2840.62	.90	18.05	.00	35.22	210.00
*	3980.000	1334.00	2840.98	.36	17.96	.00	37.32	210.00
*	3980.000	1639.00	2841.60	.62	17.95	.00	40.88	210.00
*	4050.000	217.00	2863.12	.00	23.40	.00	22.20	370.00
*	4050.000	305.00	2863.55	.43	22.93	.00	24.57	370.00
*	4050.000	352.00	2863.76	.21	22.78	.00	25.71	370.00
*	4050.000	433.00	2864.10	.34	22.50	.00	27.54	370.00
*	4160.000	217.00	2925.00	.00	61.89	.00	37.76	580.00
*	4160.000	305.00	2925.29	.28	61.74	.00	39.12	580.00
*	4160.000	352.00	2925.44	.15	61.68	.00	39.84	580.00
*	4160.000	433.00	2925.62	.18	61.52	.00	40.71	580.00
*	4250.000	217.00	2968.07	.00	43.06	.00	37.62	480.00
*	4250.000	305.00	2968.39	.32	43.11	.00	39.97	480.00
*	4250.000	352.00	2968.54	.15	43.10	.00	41.33	480.00
*	250.000	433.00	2968.77	.23	43.16	.00	43.45	480.00
*	4350.000	217.00	3042.67	.00	74.60	.00	15.21	530.00
*	4350.000	305.00	3043.29	.63	74.90	.00	18.23	530.00
*	4350.000	352.00	3043.55	.26	75.01	.00	19.49	530.00
*	4350.000	433.00	3043.99	.44	75.22	.00	21.60	530.00
*	4440.000	217.00	3136.22	.00	93.55	.00	16.84	480.00
*	4440.000	305.00	3136.72	.50	93.43	.00	19.30	480.00
*	4440.000	352.00	3136.96	.24	93.40	.00	20.48	480.00
*	4440.000	433.00	3137.29	.33	93.30	.00	21.87	480.00
*	4530.000	217.00	3245.45	.00	109.23	.00	14.50	480.00
*	4530.000	305.00	3246.00	.55	109.28	.00	16.58	480.00
*	4530.000	352.00	3246.19	.19	109.23	.00	17.26	480.00
*	4530.000	433.00	3246.61	.42	109.32	.00	18.66	480.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1600.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1600.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3160.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3160.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  3160.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
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[illegible]ON SECNO=  3160.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3160.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  3160.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3160.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3160.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  3250.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  3250.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3250.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3250.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=  3320.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3320.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3320.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  3410.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  3410.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3410.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3410.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  3470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  3470.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  3470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3590.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3680.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3680.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   3940.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4050.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4050.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4160.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4160.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4350.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   4440.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4440.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4530.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
   ON SECNO=   4530.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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Stop - Program terminated.

Stop - Program terminated.
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     2/26/90   TIME   16:19: 2           *
*****************************************************
```

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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

RO.OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 2/26/90 16:19: 3

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*****************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
*****************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH                (RO.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                                                          2313.70

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150


QT       4      3033      4531      5307      6687

NC    .048      .048      .042        .1        .3


       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
X1    1520        14      9970     10050
      2340      9940      2320      9960      2312      9970      2311     10000      2311     10030
      2312     10050      2312     10110      2311     10120      2311     10160      2312     10180
GR    2313     10220      2316     10370      2320     10420      2340     10520
```

NC	.05	.05	.048							
X1	1600	14	9982.7	10407.2	400	380	420			
GR	2352.6	9892.9	2329.5	9923.7	2324.4	9982.7	2324.5	9983.7	2324.0	10000.0
GR	2324.8	10038.0	2324.5	10090.7	2326.8	10128.9	2326.4	10216.6	2326.2	10326.8
GR	2326.2	10376.8	2329.7	10407.2	2336.7	10464.6	2343.5	10504.3		
X1	1740	22	9580.0	10116.8	750	730	740			
GR	2364.0	9525.0	2344.0	9580.0	2345.0	9615.0	2344.5	9640.0	2345.5	9670.0
GR	2345.0	9695.0	2345.5	9705.5	2344.5	9750.0	2343.8	9775.0	2345.7	9795.0
GR	2345.7	9855.0	2343.6	9882.0	2344.5	9900.0	2344.5	9950.0	2343.9	9980.0
GR	2343.5	10000.0	2344.1	10034.0	2344.8	10076.6	2347.3	10094.5	2346.0	10116.8
GR	2355.1	10138.4	2366.0	10161.0						
NH	4	999	9601.2	.05	9672.8	.048	10103.7	.05	10141.4	
X1	1830	23	9672.8	10103.7	500	480	480			
GR	2382.0	9341.3	2361.9	9389.2	2355.9	9422.8	2357.6	9438.1	2359.9	9461.3
GR	2361.5	9514.6	2362.9	9601.2	2359.8	9634.2	2362.2	9672.8	2357.7	9691.6
GR	2361.1	9732.7	2360.6	9838.9	2359.4	9884.8	2362.1	9899.5	2359.6	9939.3
GR	2359.0	9961.7	2358.7	10000.0	2361.1	10029.5	2361.4	10056.0	2358.7	10078.9
GR	2361.2	10103.7	2382.6	10137.4	2384.0	10141.4				
NC	.05	.05	.048							
X1	1940	26	9732.1	10028.9	580	580	580			
GR	2406.0	9478.1	2403.3	9507.7	2399.3	9549.7	2396.1	9562.2	2395.9	9569.2
GR	2381.8	9591.9	2376.2	9612.4	2377.3	9631.2	2370.1	9658.1	2373.2	9665.2
GR	2375.0	9681.0	2374.8	9732.1	2373.0	9781.9	2377.0	9793.6	2372.8	9801.8
GR	2374.6	9825.2	2376.4	9886.6	2378.8	9958.9	2377.1	9966.0	2373.8	9988.0
GR	2375.1	10000.0	2376.0	10024.9	2376.2	10028.9	2378.0	10043.6	2382.1	10062.7
GR	2399.9	10099.7								
X1	2050	17	9668.3	10019.1	590	600	580			
GR	2413.3	9559.9	2395.6	9595.3	2390.4	9614.9	2391.2	9652.6	2391.1	9668.3
GR	2390.4	9731.0	2391.9	9829.3	2393.2	9862.9	2391.2	9906.1	2389.5	9919.0
GR	2391.2	9957.9	2390.3	9980.0	2389.4	10000.0	2389.8	10019.1	2392.0	10026.1
GR	2417.6	10050.0	2424.3	10088.5						
X1	2140	17	9829.1	10045.3	470	470	480			
GR	2423.8	9738.5	2417.0	9768.7	2412.3	9802.3	2406.2	9811.3	2404.6	9829.1
GR	2405.7	9856.6	2406.8	9889.7	2403.7	9927.2	2401.3	9946.1	2403.1	9974.5
GR	2401.5	9985.0	2401.3	10000.0	2402.2	10022.4	2401.1	10032.1	2401.7	10045.3
GR	2410.0	10062.1	2426.0	10094.8						

```
X1    2250      14    9753.9   10083.1     450     500     580
GR   2440.9  9722.3    2423.5    9753.9  2416.5  9777.0  2416.0  9790.1  2415.6  9904.6
GR   2415.7  9919.8    2414.0    9974.4  2414.8 10000.0  2415.1 10022.9  2414.1 10025.5
GR   2417.5 10083.0    2417.8   10083.1  2430.1 10152.4  2442.0 10203.5

X1    2370      14    9983.4   10427.1     630     630     630
GR   2455.9  9952.1    2432.3    9983.4  2430.8 10000.0  2432.6 10022.0  2434.6 10125.7
GR   2436.2 10209.9    2438.9   10326.5  2438.0 10371.8  2434.9 10391.2  2438.0 10412.4
GR   2438.5 10427.1    2438.1   10445.3  2449.6 10487.6  2452.0 10514.4

X1    2450      15    9988.6   10396.5     430     410     420
GR   2465.3  9959.5    2442.7    9981.1  2441.9  9988.6  2441.7 10000.0  2442.2 10018.2
GR   2444.3 10055.5    2444.4   10221.2  2444.3 10306.8  2443.3 10396.5  2452.4 10418.3
GR   2454.9 10433.3    2457.1   10550.1  2457.4 10593.2  2462.5 10632.5  2462.5 10640.1

        CONFLUENCE WITH GRAPEVINE WASH
X1    2510      21    9935.4   10144.5     330     310     320
GR   2474.0  9907.3    2452.4    9935.4  2451.8  9952.0  2451.9  9973.1  2451.1 10000.0
GR   2452.9 10018.9    2451.6   10055.8  2454.2 10075.7  2453.7 10144.5  2451.0 10245.3
GR   2446.8 10309.6    2446.9   10325.7  2459.7 10346.5  2461.4 10357.1  2462.3 10394.0
GR   2465.0 10443.2    2465.6   10466.0  2465.3 10486.2  2467.0 10517.1  2467.6 10518.3
     2476.1 10579.7

        WEST BRAID ELIMINATED FROM RUN
X1    2570      13    9685.0   10025.0     310     330     320
GR   2480.0  9655.0    2460.7    9685.0  2460.8  9705.0  2461.0  9720.0  2463.0  9750.0
GR   2461.5  9860.0    2461.0    9920.0  2462.0  9940.0  2460.5  9965.0  2460.0  9985.0
GR   2459.5 10000.0    2462.0   10025.0  2472.0 10026.0

NH       5     .05    9607.6       .04  9673.0     .05  9953.8    .035 10050.2     .05
NH   10201

X1    2620      18    9633.9   10050.2     250     270     260
GR   2491.6  9564.4    2468.0    9607.6  2468.2  9619.0  2470.7  9633.9  2468.6  9653.1
GR   2467.9  9667.0    2469.1    9673.0  2469.4  9688.6  2471.3  9749.8  2471.2  9851.2
GR   2469.9  9953.8    2465.4    9985.6  2466.8 10000.0  2468.6 10016.3  2466.6 10050.2
GR   2487.1 10070.3    2493.6   10134.0  2495.3  10201

NH       5     .05    9673.3       .04  9700.3     .05  9924.9    .035 10020.2     .05
NH   10069

X1    2690      20    9611.9   10020.2     370     370     370
GR   2502.5  9566.6    2490.1    9589.5  2484.2  9611.9  2483.8  9630.6  2482.5  9656.7
GR   2480.8  9673.3    2481.2    9700.3  2481.4  9700.3  2481.2  9722.8  2482.1  9755.8
     2481.5  9839.0    2479.9    9901.0  2478.5  9924.9  2477.1  9979.4  2475.6  9988.7
     2475.3 10000.0    2475.9   10013.0  2478.6 10020.2  2479.6 10040.7  2484.4   10069
```

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QT      4      1225      1782      2048      2512

NC    .05       .05      .048

        QT VALUES FROM CP 50
X1   2760        13    9919.8    9981.2       370       370       370
GR  2530.1    9830.3    2517.9    9869.9    2503.7    9902.5    2494.2    9919.8    2492.5    9961.1
GR  2494.1    9981.2    2494.0    9982.5    2493.4   10000.0    2493.7   10020.8    2494.1   10063.3
GR  2492.1   10116.4    2511.1   10141.8    2513.0   10150.9


X1   2840         9    9986.4   10017.7       410       430       420
GR  2522.3    9954.0    2505.8    9986.4    2502.9    9995.0    2505.4   10000.0    2507.5   10017.7
GR  2507.5   10061.3    2507.4   10125.0    2519.7   10146.8    2530.9   10160.5


NC    .05       .05      .035

X1   2900        10    9988.6   10012.9       310       330       320
GR  2536.3    9963.8    2512.6    9988.6    2512.9    9989.9    2511.6   10000.0    2514.1   10012.9
GR  2516.3   10026.3    2516.6   10065.1    2517.3   10124.9    2516.4   10137.4    2532.3   10169.6


        CONFLUENCE WITH ROWE TRIB. 1.
   3010        11    9991.2   10009.3       580       580       580
  2550.6    9929.2    2533.2    9961.3    2533.2    9973.2    2530.4    9991.2    2531.3   10000.0
GR  2531.3   10009.3    2534.2   10019.7    2534.9   10046.5    2534.5   10076.1    2538.3   10088.3
GR  2555.4   10124.6


QT      4       790      1158      1334      1639

NC    .05       .05      .045

        QT VALUES FROM CP 50A
X1   3090         9    9984.3   10013.1       420       420       420
GR  2561.4    9916.1    2551.5    9941.4    2547.8    9977.2    2546.6    9984.3    2543.7   10000.0
GR  2545.8   10013.1    2548.1   10015.8    2567.3   10043.5    2565.5   10051.1


NC   .055      .055      .045

X1   3160         7    9991.0   10004.8       360       390       370
GR  2581.1    9960.5    2562.4    9991.0    2560.8    9998.3    2561.3   10000.0    2562.9   10004.8
GR  2566.1   10010.1    2589.0   10039.5


X1   3250        16    9973.2   10009.8       480       480       480
GR  2602.9    9949.4    2590.1    9973.2    2587.9    9987.2    2588.1    9989.2    2588.5    9998.6
GR  2588.9   10000.0    2590.2   10009.8    2590.5   10010.0    2592.4   10019.5    2592.3   10033.3
GR  2597.5   10047.5    2605.3   10064.4    2605.8   10078.4    2604.7   10102.9    2606.0   10128.0
GR  2608.5   10136.2
```

X1	3320	8	9987.9	10009.7	380	360	370			
GR	2618.8	9944.2	2615.5	9964.5	2607.0	9978.5	2600.0	9987.9	2600.6	10000.0
GR	2600.8	10009.7	2602.3	10012.4	2615.6	10032.9				
X1	3410	9	9990.1	10009.4	480	480	480			
GR	2646.1	9924.8	2641.6	9952.5	2634.8	9970.5	2625.2	9987.6	2624.8	9990.1
GR	2622.4	9997.4	2622.2	10000.0	2627.0	10009.4	2648.6	10037.5		
X1	3470	7	9990.8	10000.0	330	310	320			
GR	2664.0	9962.5	2642.3	9990.8	2640.0	9997.9	2643.5	10000.0	2652.6	10014.1
GR	2659.5	10039.0	2664.9	10046.9						
X1	3520	8	10008.9	10017.4	240	280	260			
GR	2679.9	9956.3	2663.3	9981.3	2662.7	9992.0	2662.7	10000.0	2661.1	10008.9
GR	2660.3	10017.4	2673.4	10035.6	2678.3	10046.8				
X1	3590	7	9986.5	10000.0	380	360	370			
GR	2705.3	9961.1	2684.0	9986.5	2681.8	9997.1	2684.8	10000.0	2692.5	10009.8
GR	2708.1	10038.3	2709.8	10042.2						
	3680	9	9993.1	10000.0	480	480	480			
GR	2742.9	9966.4	2727.8	9982.1	2721.5	9985.6	2716.2	9993.1	2716.2	10000.0
GR	2723.2	10011.5	2725.4	10015.7	2738.1	10042.2	2738.0	10044.8		
X1	3780	7	9998.9	10009.1	520	540	530			
GR	2773.8	9958.6	2765.1	9982.6	2760.3	9988.0	2751.6	9998.9	2751.9	10000.0
GR	2753.2	10009.1	2769.1	10031.4						
X1	3880	6	9987.9	10011.4	550	510	530			
GR	2820.3	9956.5	2805.6	9987.9	2802.1	10000.0	2805.7	10011.4	2812.8	10039.3
GR	2822.9	10065.0								
X1	3940	7	9987.4	10000.0	310	330	320			
GR	2833.1	9943.9	2818.2	9987.4	2815.8	9995.1	2817.6	10000.0	2822.7	10010.8
GR	2837.5	10039.6	2837.6	10044.4						

CONFLUENCE WITH ROWE TRIB. 2.

X1	3980	10	9984.3	10011.5	220	200	210			
GR	2853.3	9928.8	2845.4	9954.8	2843.2	9972.7	2839.8	9984.3	2833.9	9995.3
GR	2836.1	10000.0	2838.7	10011.5	2838.8	10012.5	2846.6	10030.7	2853.5	10042.1

```
QT      4      217      305      352      433

        QT VALUES FROM SUBWTRSHD H1F
X1   4050       10   9985.8  10000.0      360      380      370
GR  2884.8   9938.4   2871.6   9958.2   2864.5   9978.5   2861.7   9985.8   2860.8   9994.1
GR  2861.6  10000.0   2865.4  10010.8   2878.7  10032.5   2873.7  10058.0   2882.4  10074.4

X1   4160       16   9968.8  10000.0      580      580      580
GR  2945.6   9901.5   2935.2   9929.9   2927.5   9956.7   2927.5   9960.0   2922.5   9968.8
GR  2923.8   9978.9   2924.7   9986.0   2924.3  10000.0   2927.9  10011.0   2930.6  10024.2
GR  2938.7  10039.0   2945.7  10053.4   2943.8  10089.9   2944.3  10094.1   2948.6  10105.1
GR  2955.8  10127.8

X1   4250       14   9985.1  10007.4      500      460      480
GR  2985.4   9925.3   2982.1   9945.6   2972.7   9965.6   2968.9   9981.3   2968.3   9985.1
GR  2965.2   9996.3   2965.9  10000.0   2967.6  10007.4   2967.8  10010.8   2967.8  10022.8
GR  2976.5  10047.4   2980.0  10064.0   2979.8  10081.6   2985.4  10107.6

X1   4350        7   9990.8  10000.0      530      530      530
GR  3063.1   9953.1   3053.6   9977.8   3038.8   9990.8   3042.0  10000.0   3044.9  10011.4
GR  3059.3  10038.0   3061.9  10046.7

X1   4440        8   9988.3  10013.0      480      480      480
GR  3158.9   9952.6   3145.9   9975.6   3137.1   9988.3   3132.8  10000.0   3138.7  10013.0
GR  3146.0  10040.4   3151.3  10071.6   3152.4  10078.7

X1   4530        5   9991.0  10000.0      480      480      480
GR  3269.5   9947.8   3254.5   9968.2   3241.6   9991.0   3246.1  10000.0   3260.9  10023.3
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     2.70  2313.70      .00  2313.70  2314.24      .54      .00      .00  2312.00
    3033.      5.    1288.    1740.       2.     191.     336.       0.       0.   2312.00
      .00     2.52     6.75     5.17     .048     .042     .048     .000  2311.00  9967.88
    .1400       0.       0.       0.        0        0        0      .00   287.12 10255.00


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     2.94  2326.94  2326.94      .00  2327.54      .60     7.45      .02  2324.40
    3033.     239.    2794.       0.      37.     452.       0.       5.       3.   2329.70
      .02     6.40     6.18      .00     .050     .048     .000     .000  2324.00  9953.33
  .033942     400.     420.     380.       20        8        0      .00   429.89 10383.22


*SECNO 1740.000
 1740.000     2.39  2345.89      .00      .00  2346.26      .38    18.70      .02  2344.00
    3033.      19.    3014.       0.       5.     612.       0.      14.      11.   2346.00
      .06     3.84     4.92      .00     .050     .048     .000     .000  2343.50  9574.79
  .019530     750.     740.     730.        6        0        0      .00   509.63 10084.42


1490 NH CARD USED
*SECNO 1830.000
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1830.000	5.30	2361.20	2361.20	.00	2361.83	.63	12.46	.08	2362.20
3033.	117.	2916.	0.	258.	450.	0.	22.	17.	2361.20
.08	.45	6.48	.00	1.155	.048	.000	.000	2355.90	9393.11
.036075	500.	480.	480.	20	26	0	.00	537.21	10103.70

*SECNO 1940.000

3265 DIVIDED FLOW

1940.000	6.05	2376.15	.00	.00	2376.79	.64	14.96	.00	2374.80
3033.	1436.	1597.	0.	196.	289.	0.	29.	23.	2376.20
.11	7.31	5.53	.00	.050	.048	.000	.000	2370.10	9635.51
.9346	580.	580.	580.	4	0	0	.00	293.76	10027.83

*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2050.000	2.67	2392.07	2392.07	.00	2392.73	.66	14.29	.01	2391.10
3033.	393.	2593.	47.	67.	390.	8.	36.	27.	2389.80
.13	5.84	6.65	5.71	.050	.048	.050	.000	2389.40	9608.62
.032045	590.	580.	600.	5	18	0	.00	363.71	10026.16

*SECNO 2140.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

2140.000	3.65	2404.75	2404.70	.00	2405.93	1.18	13.05	.16	2404.60
3033.	0.	2980.	53.	0.	340.	9.	40.	30.	2401.70
.15	.82	8.76	5.61	.050	.048	.050	.000	2401.10	9827.38
.023432	470.	480.	470.	8	11	0	.00	142.64	10051.48

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

2250.000	3.14	2417.14	.00	.00	2417.67	.53	11.67	.06	2423.50
3033.	0.	3033.	0.	0.	517.	0.	46.	33.	2417.80
.17	.00	5.86	.00	.000	.048	.000	.000	2414.00	9774.90
.017508	450.	580.	500.	6	0	0	.00	301.96	10076.86

*SECNO 2370.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2370.000	4.73	2435.53	2435.53	.00	2436.51	.97	13.82	.13	2432.30
3033.	41.	2992.	0.	7.	377.	0.	53.	36.	2438.50
.20	5.93	7.94	.00	.050	.048	.000	.000	2430.80	9979.11
8287	630.	630.	630.	14	14	0	.00	204.11	10395.54

*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

2450.000	3.62	2445.32	.00	.00	2445.75	.43	9.19	.05	2441.90
3033.	197.	2818.	18.	26.	559.	5.	57.	39.	2443.30
.22	7.59	5.04	3.74	.050	.048	.050	.000	2441.70	9978.59
.017388	430.	420.	410.	7	0	0	.00	422.75	10401.34

*SECNO 2510.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
CONFLUENCE WITH GRAPEVINE WASH

2510.000	5.49	2452.29	2452.29	.00	2453.27	.99	4.94	.17	2452.40
3033.	0.	115.	2918.	0.	49.	360.	61.	42.	2453.70
.23	.00	2.32	8.12	.000	.048	.050	.000	2446.80	9938.58
4182	330.	320.	310.	3	14	0	.00	235.69	10334.45

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2570.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        WEST BRAID ELIMINATED FROM RUN
 2570.000     3.23  2462.73  2462.73      .00  2463.46      .73     6.60      .03  2460.70
    3033.      15.    3018.       0.       3.     441.       0.      64.      44.   2462.00
      .24     4.76     6.85      .05     .050     .048     .050     .000  2459.50  9681.84
  .031540     310.     320.     330.       14       14        0      .00   319.77 10025.07


1490 NH CARD USED
*SECNO 2620.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     4.87  2470.27  2470.27      .00  2471.15      .88     4.49      .05  2470.70
    3033.     227.    2782.      24.      42.     362.       7.      67.      46.   2466.60
      .25     5.35     7.69     3.67     .041     .029     .050     .000  2465.40  9603.44
  .010913     250.     260.     270.        5       14        0      .00   236.46 10053.80


1490 NH CARD USED
*SECNO 2690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     4.99  2480.29  2480.29      .00  2481.42     1.13     4.66      .08  2484.20
    3033.       0.    2932.     101.       0.     339.      26.      70.      47.   2478.60
      .26      .00     8.66     3.91     .000     .038     .050     .000  2475.30  9885.99
  .014707     370.     370.     370.       20        5        0      .00   158.76 10044.75


*SECNO 2760.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50
 2760.000     2.44  2494.54  2494.54      .00  2495.03      .49     6.46      .06  2494.20
    1225.       0.     441.     784.       0.      74.     144.      72.      49.   2494.10
      .28     1.42     5.94     5.46     .050     .048     .050     .000  2492.10  9919.18
  .028757     370.     370.     370.       20        9        0      .00   200.48 10119.66


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     5.65  2508.55  2508.55      .00  2509.22      .66     8.63      .05  2505.80
    1225.      31.     744.     450.       7.      95.     117.      75.      51.   2507.50
      .30     4.18     7.80     3.84     .050     .048     .050     .000  2502.90  9980.99
  .015092     410.     420.     430.        5        21        0      .00   146.05 10127.04


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
     PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
 2900.000     5.74  2517.34  2517.34      .00  2518.27      .93     2.66      .08  2512.60
    1225.      36.     984.     205.      12.     115.      93.      76.      52.   2514.10
      .31     3.06     8.54     2.19     .050     .035     .050     .000  2511.60  9983.64
  .005177     310.     320.     330.       20        5        0      .00   155.66 10139.30


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     4.53  2534.93  2534.93      .00  2535.91      .98     3.85      .02  2530.40
    1225.     421.     679.     125.      80.      70.      40.      79.      53.   2531.30
      .34     5.30     9.76     3.15     .050     .035     .050     .000  2530.40  9958.12
  .008796     580.     580.     580.       20       15        0      .00   119.35 10077.46


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


 3090.000     4.18  2547.88  2547.88      .00  2549.14     1.26     4.82      .08  2546.60
     790.      15.     766.       9.       5.      84.       3.      80.      54.   2545.80
      .35     3.10     9.14     3.49     .050     .045     .050     .000  2543.70  9976.45
  .018837     420.     420.     420.       20       11        0      .00    39.08 10015.54


*SECNO 3160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     5.42  2566.22  2566.22      .00  2567.95     1.73     6.41      .14  2562.40
     790.      56.     693.      40.      12.      62.       9.      81.      55.   2562.90
      .36     4.73    11.13     4.42     .055     .045     .055     .000  2560.80  9984.77
  .015958     360.     370.     390.       20       11        0      .00    25.49 10010.26


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     3.45  2591.35  2591.35      .00  2592.52     1.17     8.80      .06  2590.10
     790.       4.     782.       5.       1.      90.       2.      82.      55.   2590.20
      .37     2.65     8.71     2.25     .055     .045     .055     .000  2587.90  9970.87
  .021300     480.     480.     480.       20       14        0      .00    43.40 10014.27


*SECNO 3320.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     3.70  2603.70  2603.70      .00  2605.15     1.45     7.53      .08  2600.00
     790.      45.     707.      37.       9.      70.       7.      83.      55.   2600.80
      .38     4.91    10.06     5.11     .055     .045     .055     .000  2600.00  9982.93
  .019483     380.     370.     360.       11        8        0      .00    31.64 10014.56


*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     5.30  2627.50  2627.50      .00  2629.12     1.62     9.58      .05  2624.80
     790.      62.     728.       0.      11.      69.       0.      84.      56.   2627.00
      .40     5.69    10.51     1.31     .055     .045     .055     .000  2622.20  9983.51
   0470     480.     480.     480.       20       14        0      .00    26.54 10010.05
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     7.10  2647.10  2647.10      .00  2649.13     2.04     6.15      .12  2642.30
     790.      84.     658.      48.      15.      53.      10.      84.      56.   2643.50
      .41     5.57    12.32     4.78     .055     .045     .055     .000  2640.00  9984.54
  .018031     330.     320.     310.       20       11        0      .00    21.03 10005.57


*SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     4.36  2664.66  2664.66      .00  2665.81     1.15     4.56      .09  2661.10
     790.     353.     368.      69.      59.      34.      13.      85.      56.   2660.30
      .41     5.93    10.93     5.24     .055     .045     .055     .000  2660.30  9979.25
  .017582     240.     260.     280.       20       14        0      .00    44.21 10023.46


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     5.87  2687.67  2687.67      .00  2689.63     1.95     6.63      .24  2684.00
     790.      37.     733.      21.       8.      63.       5.      86.      56.   2684.80
      .42     4.56    11.59     3.94     .055     .045     .055     .000  2681.80  9982.12
  .018065     380.     370.     360.       20       11        0      .00    21.53 10003.65


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     5.66  2721.86  2721.86      .00  2723.66     1.80     7.83      .02  2716.20
     790.     135.     499.     156.      23.      39.      26.      86.      56.   2716.20
      .44     5.98    12.76     5.92     .055     .045     .055     .000  2716.20  9985.40
  .014790     480.     480.     480.       20        8        0      .00    23.91 10009.30
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     5.73  2757.33  2757.33      .00  2759.23     1.90     8.38      .03  2751.60
    790.      124.     607.      59.      21.      50.      12.      88.      57.   2753.20
     .45     6.02    12.24     4.97     .055     .045     .055     .000  2751.60  9991.73
  .016966    520.     530.     540.       20        5        0      .00    23.16 10014.89


*SECNO 3880.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     5.10  2807.20  2807.20      .00  2808.66     1.47     9.52      .04  2805.60
    790.        8.     769.      13.       3.      78.       4.      89.      57.   2805.70
     .47     3.00     9.84     3.01     .055     .045     .055     .000  2802.10  9984.49
  .019005    550.     530.     510.       20       15        0      .00    32.79 10017.28


SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     5.69  2821.49  2821.49      .00  2823.08     1.60     5.50      .04  2818.20
    790.       72.     640.      79.      16.      58.      16.      89.      57.   2817.60
     .48     4.53    11.03     4.92     .055     .045     .055     .000  2815.80  9977.80
  .015619    310.     320.     330.       20        8        0      .00    30.43 10008.23


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     5.82  2839.72  2839.72      .00  2841.18     1.47     3.92      .01  2839.80
    790.        0.     784.       6.       0.      80.       2.      90.      57.   2838.70
     .48      .00     9.76     3.12     .000     .045     .055     .000  2833.90  9984.46
  .022721    220.     210.     200.       20        8        0      .00    30.18 10014.64


*SECNO 4050.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM SUBWTRSHD H1F
 4050.000     2.32  2863.12  2863.12      .00  2863.91      .79     8.34      .07  2861.70
     217.      8.     199.      10.       3.      27.       3.      90.      58.   2861.60
      .50     3.03     7.42     3.19     .055     .045     .055     .000  2860.80  9982.11
  .021844     360.     370.     380.       20       18        0      .00    22.20 10004.31


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     2.50  2925.00  2925.00      .00  2925.54      .54    15.45      .03  2922.50
     217.     29.     186.       2.       6.      31.       1.      91.      58.   2924.30
      .52     5.21     5.99     2.37     .055     .045     .055     .000  2922.50  9964.39
  .3224      580.     580.     580.       20        8        0      .00    37.76 10002.15


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     2.87  2968.07  2968.07      .00  2968.64      .57    12.10      .01  2968.30
     217.      0.     209.       8.       0.      34.       5.      91.      58.   2967.60
      .55      .00     6.17     1.67     .000     .045     .055     .000  2965.20  9985.94
  .019704     500.     480.     460.       20       11        0      .00    37.62 10023.56


*SECNO 4350.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4350.000     3.87  3042.67  3042.67      .00  3043.72     1.05    11.80      .14  3038.80
     217.     33.     182.       2.       7.      21.       1.      91.      59.   3042.00
      .56     5.06     8.73     2.02     .055     .045     .055     .000  3038.80  9987.40
  .025364     530.     530.     530.       20       11        0      .00    15.21 10002.62
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	3.42	3136.22	3136.22	.00	3137.10	.88	12.83	.02	3137.10
217.	0.	217.	0.	0.	29.	0.	92.	59.	3138.70
.58	.00	7.53	.00	.000	.045	.000	.000	3132.80	9990.69
.028195	480.	480.	480.	20	15	0	.00	16.84	10007.54

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	3.85	3245.45	3245.45	.00	3246.42	.97	14.55	.03	3241.60
217.	90.	127.	0.	13.	15.	0.	92.	59.	3246.10
.60	6.89	8.57	.00	.055	.045	.000	.000	3241.60	9984.20
.032674	480.	480.	480.	20	8	0	.00	14.50	9998.70

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   ROWE WASH     (RO.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                     2314.31

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT******************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     3.31  2314.31      .00  2314.31  2314.98      .66      .00      .00  2312.00
   4531.       10.    1822.    2699.       3.     240.     471.       0.       0.   2312.00
     .00     2.99     7.60     5.74     .048     .042     .048     .000  2311.00  9967.11
  .010676      0.       0.       0.        0        0        0      .00   318.39 10285.50


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.29  2327.29  2327.29      .00  2328.06      .77     6.93      .03  2324.40
   4531.      324.    4207.       0.      48.     594.       0.       6.       4.   2329.70
     .02     6.70     7.08      .00     .050     .048     .000     .000  2324.00  9949.24
  .031226     400.     420.     380.       20        5        0      .00   437.05 10386.29


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     2.70  2346.20      .00      .00  2346.73      .53    18.64      .02  2344.00
   4531.       29.    4502.       0.       7.     769.       0.      18.      12.   2346.00
     .05     4.38     5.86      .04     .050     .048     .050     .000  2343.50  9573.95
  .020736     750.     740.     730.        6        0        0      .00   516.61 10117.28
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.64  2361.54  2361.54      .00  2362.34      .80    12.80      .08  2362.20
    4531.     207.    4324.       0.     313.     589.       0.      28.      18.   2361.20
      .07      .66     7.33      .06     .795     .048     .050     .000  2355.90  9391.20
  .035438     500.     480.     480.       20       23        0      .00   589.53 10104.24


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.55  2376.65      .00      .00  2377.45      .80    15.11      .00  2374.80
    4531.    1999.    2530.       1.     247.     395.       1.      38.      24.   2376.20
      .09     8.08     6.41     1.55     .050     .048     .050     .000  2370.10  9610.75
  .019954     580.     580.     580.        7        0        0      .00   331.72 10032.58


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.08  2392.48  2392.48      .00  2393.31      .83    14.09      .01  2391.10
    4531.     629.    3827.      75.      92.     517.      11.      46.      29.   2389.80
      .11     6.83     7.41     6.69     .050     .048     .050     .000  2389.40  9607.07
  .029846     590.     580.     600.        5       14        0      .00   385.18 10026.54


*SECNO 2140.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     4.52  2405.62  2405.62      .00  2406.97     1.34    12.52      .15  2404.60
    4531.      17.    4412.     102.       6.     471.      16.      53.      32.   2401.70
      .13     2.88     9.37     6.58     .050     .048     .050     .000  2401.10  9817.72
  .023058     470.     480.     470.        4       11        0      .00   186.27 10053.24


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     3.65  2417.65      .00      .00  2418.35      .70    11.32      .06  2423.50
    4531.       0.    4531.       0.       0.     674.       0.      60.      35.   2417.80
      .15      .00     6.72      .00     .000     .048     .000     .000  2414.00  9773.22
  .016789     450.     580.     500.        5        0        0      .00   309.83 10083.05


*SECNO 2370.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     5.40  2436.20  2436.20      .00  2437.32     1.12    13.32      .13  2432.30
    4531.      66.    4465.       0.      10.     523.       0.      69.      39.   2438.50
      .17     6.61     8.53      .00     .050     .048     .000     .000  2430.80  9978.23
  .027426     630.     630.     630.       16       14        0      .00   248.40 10400.06


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.02  2445.72      .00      .00  2446.28      .56     8.91      .06  2441.90
    4531.     242.    4260.      29.      30.     723.       7.      75.      42.   2443.30
      .19     8.04     5.89     4.16     .050     .048     .050     .000  2441.70  9978.21
  .016866     430.     420.     410.        6        0        0      .00   424.10 10402.31


*SECNO 2510.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.22  2453.02  2453.02      .00  2454.05     1.03     4.81      .14  2452.40
    4531.       0.     511.     4020.       0.     137.     471.      80.      45.   2453.70
      .20     1.38     3.74     8.53     .050     .048     .050     .000  2446.80  9934.59
  .013832     330.     320.     310.        3       14        0      .00   298.00 10335.65


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         WEST BRAID ELIMINATED FROM RUN
 2570.000     3.68  2463.18  2463.18      .00  2464.09      .91     6.34      .01  2460.70
    4531.      25.     4506.       0.       5.     587.       0.      85.      47.   2462.00
      .22     5.26     7.67      .05     .050     .048     .050     .000  2459.50  9681.15
     9672     310.     320.     330.       16       14        0      .00   343.96 10025.12


1490 NH CARD USED
*SECNO 2620.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     5.50  2470.90  2470.90      .00  2471.86      .95     4.37      .01  2470.70
    4531.     380.     4114.      37.      61.     514.       9.      88.      49.   2466.60
      .23     6.20     8.00     4.06     .041     .029     .050     .000  2465.40  9602.28
  .010820     250.     260.     270.        3       15        0      .00   314.60 10054.42


1490 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 2690.000     5.96  2481.26  2481.26      .00  2482.34     1.08     5.18      .04  2484.20
    4531.       0.     4200.     331.       0.     496.      52.     93.      52.   2478.60
      .24      .00      8.47     6.31     .000     .042     .050     .000  2475.30  9668.81
  .018851     370.     370.     370.       20        8        0      .00   242.64 10050.49


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM CP 50
 2760.000     2.69  2494.79  2494.79      .00  2495.48      .70     7.98      .04  2494.20
    1782.       1.     631.    1150.       0.      89.     178.     96.      54.   2494.10
      .25     2.14      7.08     6.48     .050     .048     .050     .000  2492.10  9918.73
  .031846     370.     370.     370.       20       18        0      .00   201.26 10119.99


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
 2840.000     6.02  2508.92  2508.92      .00  2509.76      .84     9.64      .04  2505.80
    1782.      46.     955.     781.      10.     107.     158.     99.      55.   2507.50
      .27     4.82      8.92     4.94     .050     .048     .050     .000  2502.90  9980.26
  .016937     410.     420.     430.        6       17        0      .00   147.44 10127.70


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.32  2517.92  2517.92      .00  2518.97     1.05     2.93      .06  2512.60
    1782.      51.    1247.     484.      15.     129.     167.     101.      56.   2514.10
      .28     3.45      9.63     2.89     .050     .035     .050     .000  2511.60  9983.03
  .005644     310.     320.     330.       20        8        0      .00   157.45 10140.48


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.16  2535.56  2535.56      .00  2536.67     1.12     4.04      .02  2530.40
    1782.     606.     876.     300.     101.      81.      83.     105.      58.   2531.30
      .30     6.01     10.81     3.61     .050     .035     .050     .000  2530.40  9956.95
  .008830     580.     580.     580.       20       15        0      .00   122.53 10079.49
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50A
 3090.000     5.02  2548.72  2548.72      .00  2550.16     1.44     4.57      .10  2546.60
    1158.      62.    1074.      22.      15.     108.       5.     107.      59.   2545.80
      .31     4.16     9.93     4.39     .050     .045     .050     .000  2543.70  9968.27
  .015791     420.     420.     420.       20        8        0      .00    48.43 10016.70


*SECNO 3160.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     6.49  2567.29  2567.29      .00  2569.38     2.09     5.72      .20  2562.40
    1158.     106.     962.      90.      20.      77.      16.     108.      59.   2562.90
      .32     5.43    12.49     5.71     .055     .045     .055     .000  2560.80  9983.02
  .015137     360.     370.     390.       20       11        0      .00    28.61 10011.63


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     4.13  2592.03  2592.03      .00  2593.50     1.47     8.25      .06  2590.10
    1158.      12.    1127.      19.       3.     114.       6.     109.      60.   2590.20
      .34     3.40     9.84     3.15     .055     .045     .055     .000  2587.90  9969.61
  .019669     480.     480.     480.       20       14        0      .00    48.03 10017.64


*SECNO 3320.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     4.58  2604.58  2604.58      .00  2606.38     1.79     6.92      .10  2600.00
    1158.      76.    1011.      71.      14.      90.      12.     110.      60.   2600.80
      .35     5.41    11.29     5.79     .055     .045     .055     .000  2600.00  9981.74
  .017810     380.     370.     360.       13        8        0      .00    34.18 10015.92
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3410.000     6.32  2628.52  2628.52      .00  2630.47     1.95     8.60      .05  2624.80
    1158.     118.     1036.       4.     19.      89.       1.     112.      61.   2627.00
      .36     6.38    11.66     2.58    .055     .045     .055     .000  2622.20  9981.69
  .018029     480.      480.     480.      20       11        0      .00    29.68 10011.37


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     8.44  2648.44  2648.44      .00  2650.79     2.36     5.56      .12  2642.30
    1158.     155.      896.     107.     25.      66.      19.     112.      61.   2643.50
      .37     6.32    13.62     5.68    .055     .045     .055     .000  2640.00  9982.80
  .016710     330.      320.     310.      20       11        0      .00    24.85 10007.65


SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     5.03  2665.33  2665.33      .00  2666.76     1.43     4.46      .09  2661.10
    1158.     568.      487.     103.     80.      39.      18.     113.      61.   2660.30
      .37     7.12    12.35     5.87    .055     .045     .055     .000  2660.30  9978.24
  .018212     240.      260.     280.      20       14        0      .00    46.16 10024.39


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     7.12  2688.92  2688.92      .00  2691.25     2.33     6.39      .27  2684.00
    1158.      76.     1031.      51.     14.      80.      11.     114.      61.   2684.80
      .38     5.26    12.86     4.75    .055     .045     .055     .000  2681.80  9980.63
  .016241     380.      370.     360.      20       11        0      .00    24.62 10005.25
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     6.83  2723.03  2723.03      .00  2725.18     2.15     7.33      .02  2716.20
    1158.     232.     672.     254.      32.      47.      38.     115.      62.   2716.20
      .39     7.23    14.26     6.62     .055     .045     .055     .000  2716.20  9984.75
  .014383     480.     480.     480.       20        8        0      .00    26.48 10011.23


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     6.95  2758.55  2758.55      .00  2760.82     2.27     7.92      .04  2751.60
    1158.     199.     846.     114.      30.      62.      20.     117.      62.   2753.20
      .41     6.56    13.62     5.67     .055     .045     .055     .000  2751.60  9990.19
  .015573     520.     530.     540.       20        5        0      .00    26.41 10016.60


*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     6.03  2808.13  2808.13      .00  2809.87     1.74     8.54      .05  2805.60
    1158.      26.    1087.      45.       7.     100.      12.     118.      62.   2805.70
      .42     3.82    10.87     3.89     .055     .045     .055     .000  2802.10  9982.50
  .016651     550.     530.     510.       20       15        0      .00    38.45 10020.95


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     6.76  2822.56  2822.56      .00  2824.39     1.83     4.93      .03  2818.20
    1158.     145.     868.     144.      28.      72.      26.     119.      63.   2817.60
      .43     5.24    12.13     5.54     .055     .045     .055     .000  2815.80  9974.66
  .014291     310.     320.     330.       20        8        0      .00    35.85 10010.51
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     6.72  2840.62  2840.62      .00  2842.39     1.78     3.50      .00  2839.80
    1158.       2.    1132.      24.       1.     105.       6.     120.      63.   2838.70
      .43     2.03    10.80     4.13     .055     .045     .055     .000  2833.90  9981.51
  .019693     220.     210.     200.       20        5        0      .00    35.22 10016.74


*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM SUBWTRSHD H1F
     .000     2.75  2863.55  2863.55      .00  2864.49      .94     7.33      .08  2861.70
    305.       16.     270.      20.       4.      33.       5.     120.      63.   2861.60
      .45     3.48     8.19     3.63     .055     .045     .055     .000  2860.80  9980.98
  .020200     360.     370.     380.       20       18        0      .00    24.57 10005.54


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     2.79  2925.29  2925.29      .00  2925.93      .64    13.96      .03  2922.50
    305.       36.     265.       4.       7.      40.       1.     121.      63.   2924.30
      .47     5.24     6.63     2.79     .055     .045     .055     .000  2922.50  9963.89
  .029158     580.     580.     580.       20        5        0      .00    39.12 10003.02


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     3.19  2968.39  2968.39      .00  2969.05      .66    11.30      .00  2968.30
    305.        0.     278.      27.       0.      41.      10.     121.      64.   2967.60
      .49      .04     6.78     2.67     .055     .045     .055     .000  2965.20  9984.51
  .019403     500.     480.     460.       20        8        0      .00    39.97 10024.48
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4350.000	4.49	3043.29	3043.29	.00	3044.48	1.19	10.74	.16	3038.80
305.	45.	250.	9.	9.	27.	3.	122.	64.	3042.00
.51	5.11	9.40	2.88	.055	.045	.055	.000	3038.80	9986.85
.021195	530.	530.	530.	20	11	0	.00	18.23	10005.08

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	3.92	3136.72	3136.72	.00	3137.73	1.01	11.43	.02	3137.10
305.	0.	305.	0.	0.	38.	0.	122.	64.	3138.70
.53	.00	8.06	.00	.000	.045	.000	.000	3132.80	9989.33
26923	480.	480.	480.	20	15	0	.00	19.30	10008.64

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	4.40	3246.00	3246.00	.00	3247.12	1.12	13.97	.03	3241.60
305.	127.	178.	0.	17.	19.	0.	123.	65.	3246.10
.54	7.40	9.21	.00	.055	.045	.000	.000	3241.60	9983.22
.031550	480.	480.	480.	20	8	0	.00	16.58	9999.80

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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH     (RO.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                                                     2314.50

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3



CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     3.50  2314.50      .00  2314.50  2315.28      .78      .00      .00  2312.00
    5307.      13.    2101.    3194.      4.     255.     516.       0.       0.   2312.00
      .00     3.28     8.24     6.19     .048     .042     .048     .000  2311.00  9966.88
 .011563       0.       0.       0.       0        0        0      .00   328.13 10295.00


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.45  2327.45  2327.45      .00  2328.31      .86     7.23      .03  2324.40
    5307.     371.    4936.       0.      54.     659.       0.       7.       4.   2329.70
      .02     6.88     7.49      .00     .050     .048     .000     .000  2324.00  9947.39
  .030646     400.     420.     380.       20        5        0      .00   440.28 10387.67


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     2.85  2346.35      .00      .00  2346.95      .60    18.61      .03  2344.00
    5307.      35.    5272.       0.       8.     844.       0.      20.      12.   2346.00
      .05     4.60     6.24     1.27     .050     .048     .050     .000  2343.50  9573.54
  .020997     750.     740.     730.        7        0        0      .00   520.95 10117.63
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.79  2361.69  2361.69      .00  2362.58      .89    12.81      .08  2362.20
    5307.     256.    5050.       0.     340.     652.       0.      30.      18.   2361.20
      .07      .75     7.74     1.95     .701     .048     .050     .000  2355.90  9390.36
  .034947     500.     480.     480.       20       26        0      .00   607.71 10104.48


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.77  2376.87      .00      .00  2377.75      .88    15.17      .00  2374.80
    5307.    2285.    3018.       4.     271.     443.       2.      42.      24.   2376.20
      .09     8.42     6.81     2.03     .050     .048     .050     .000  2370.10  9609.96
  .020309     580.     580.     580.        7        0        0      .00   347.87 10034.35


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.29  2392.69  2392.69      .00  2393.58      .89    13.79      .00  2391.10
    5307.     754.    4464.      89.     105.     585.      13.      51.      29.   2389.80
      .11     7.16     7.63     7.00     .050     .048     .050     .000  2389.40  9606.26
  .027901     590.     580.     600.        5       11        0      .00   396.34 10026.75


*SECNO 2140.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     4.89  2405.99  2405.99      .00  2407.40     1.41    12.10      .16  2404.60
    5307.      38.    5139.     130.      11.     535.      19.      58.      33.   2401.70
      .12     3.52     9.61     6.97     .050     .048     .050     .000  2401.10  9813.64
  .022970     470.     480.     470.        3       14        0      .00   206.17 10053.98


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     3.88  2417.88      .00      .00  2418.66      .79    11.20      .06  2423.50
    5307.       0.    5307.       0.       0.     745.       0.      67.      36.   2417.80
      .15      .00     7.12      .04     .000     .048     .050     .000  2414.00  9772.46
  .016546     450.     580.     500.        4        0        0      .00   311.07 10083.53


*SECNO 2370.000

3220 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     5.67  2436.47  2436.47      .00  2437.67     1.20    13.11      .12  2432.30
    5307.      79.    5228.       0.      12.     593.       0.      77.      40.   2438.50
      .17     6.86     8.82      .00     .050     .048     .000     .000  2430.80  9977.87
  .026955     630.     630.     630.       16       14        0      .00   264.41 10401.96


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.21  2445.91      .00      .00  2446.54      .63     8.81      .06  2441.90
    5307.     264.    5007.      35.      32.     799.       8.      84.      44.   2443.30
      .18     8.26     6.27     4.35     .050     .048     .050     .000  2441.70  9978.03
  .016757     430.     420.     410.        6        0        0      .00   424.71 10402.75


*SECNO 2510.000
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.53  2453.33  2453.33      .00  2454.37     1.03     4.75      .12  2452.40
    5307.       1.     775.     4531.       1.     178.     525.      89.      46.   2453.70
      .19     1.78     4.35     8.63     .050     .048     .050     .000  2446.80  9934.18
  .013541     330.     320.     310.        3       14        0      .00   312.90 10336.16


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         WEST BRAID ELIMINATED FROM RUN
 2570.000     3.87  2463.37  2463.37      .00  2464.38     1.01     6.14      .00  2460.70
    5307.      30.    5277.       0.       6.     654.       0.      94.      49.   2462.00
      .21     5.41     8.06      .05     .050     .048     .050     .000  2459.50  9680.85
    9366     310.     320.     330.       17       14        0      .00   344.29 10025.14


1490 NH CARD USED
*SECNO 2620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     5.90  2471.30  2471.30      .00  2472.15      .85     3.98      .02  2470.70
    5307.     476.    4787.      44.      74.     639.      11.      99.      51.   2466.60
      .22     6.42     7.50     4.06     .041     .026     .050     .000  2465.40  9601.56
  .009594     250.     260.     270.        3       14        0      .00   453.25 10054.81


1490 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     6.30  2481.60  2481.60      .00  2482.67     1.06     5.15      .07  2484.20
    5307.       0.    4839.     468.       0.     579.      63.     104.      54.   2478.60
      .23      .00     8.36     7.41     .000     .044     .050     .000  2475.30  9665.44
  .021956     370.     370.     370.       20        8        0      .00   300.24 10052.52
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50
 2760.000     2.82  2494.92  2494.92      .00  2495.68      .76     8.89      .03  2494.20
    2048.       1.     720.    1327.       0.      97.     196.     108.      56.   2494.10
      .24     2.42     7.40     6.77     .050     .048     .050     .000  2492.10  9918.49
  .030977     370.     370.     370.       20       18        0      .00   201.68 10120.17


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     6.22  2509.12  2509.12      .00  2510.00      .88     9.46      .04  2505.80
    2048.      54.    1039.     955.      11.     113.     179.     111.      58.   2507.50
      .26     4.99     9.19     5.33     .050     .048     .050     .000  2502.90  9979.89
  .016725     410.     420.     430.        6       19        0      .00   148.16 10128.04


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.54  2518.14  2518.14      .00  2519.25     1.11     3.00      .07  2512.60
    2048.      58.    1362.     628.      16.     135.     196.     114.      59.   2514.10
      .27     3.62    10.10     3.21     .050     .035     .050     .000  2511.60  9982.80
  .005882     310.     320.     330.       20        8        0      .00   158.13 10140.93


*SECNO 3010.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.43  2535.83  2535.83      .00  2536.98     1.15     4.10      .01  2530.40
    2048.     689.     958.     401.     110.      86.     103.     118.      61.   2531.30
      .29     6.25    11.15     3.91     .050     .035     .050     .000  2530.40  9956.45
  .008672     580.     580.     580.       20       12        0      .00   123.92 10080.37


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
 3090.000     5.33  2549.03  2549.03      .00  2550.58     1.55     4.50      .12  2546.60
    1334.      91.     1214.      29.      20.     117.      6.     120.      62.   2545.80
      .30     4.48     10.39     4.73     .050     .045     .050     .000  2543.70  9965.34
  .015602     420.      420.     420.      20        5        0      .00    51.79 10017.13


*SECNO 3160.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3160.000     6.95  2567.75  2567.75      .00  2569.99     2.23     5.61      .20  2562.40
    1334.     133.     1085.     116.      23.      83.     19.     121.      62.   2562.90
      .31     5.69     13.00     6.12     .055     .045     .055     .000  2560.80  9982.27
     4742     360.      370.     390.      20       11        0      .00    29.96 10012.22


*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3250.000     4.60  2592.50  2592.50      .00  2593.90     1.40     7.32      .08  2590.10
    1334.      19.     1277.      38.       5.     132.     13.     123.      63.   2590.20
      .33     3.52      9.69     3.05     .055     .045     .055     .000  2587.90  9968.73
  .015774     480.      480.     480.      20       14        0      .00    65.12 10033.85


*SECNO 3320.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3320.000     4.95  2604.95  2604.95      .00  2606.90     1.95     6.12      .16  2600.00
    1334.      93.     1153.      88.      16.      98.     15.     124.      63.   2600.80
      .33     5.63     11.81     6.05     .055     .045     .055     .000  2600.00  9981.25
     371     380.      370.     360.      20        8        0      .00    35.24 10016.49
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3410.000	6.73	2628.93	2628.93	.00	2631.04	2.11	8.37	.05	2624.80
1334.	148.	1179.	7.	22.	97.	2.	125.	64.	2627.00
.35	6.66	12.16	2.99	.055	.045	.055	.000	2622.20	9980.95
.017489	480.	480.	480.	20	11	0	.00	30.96	10011.91

*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470.000	8.98	2648.98	2648.98	.00	2651.47	2.49	5.42	.11	2642.30
1334.	193.	1001.	140.	29.	71.	23.	126.	64.	2643.50
.35	6.62	14.15	6.02	.055	.045	.055	.000	2640.00	9982.09
.016356	330.	320.	310.	20	11	0	.00	26.40	10008.49

.O 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3520.000	5.32	2665.62	2665.62	.00	2667.18	1.55	4.42	.09	2661.10
1334.	673.	540.	120.	89.	42.	20.	127.	64.	2660.30
.36	7.59	12.91	6.11	.055	.045	.055	.000	2660.30	9977.80
.018335	240.	260.	280.	20	14	0	.00	47.00	10024.80

*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3590.000	7.65	2689.45	2689.45	.00	2691.93	2.48	6.30	.28	2684.00
1334.	98.	1167.	70.	18.	87.	14.	128.	64.	2684.80
.37	5.53	13.37	5.06	.055	.045	.055	.000	2681.80	9980.00
.015678	380.	370.	360.	20	11	0	.00	25.91	10005.92

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3680.000	7.39	2723.59	2723.59	.00	2725.79	2.20	6.98	.03	2716.20
1334.	278.	743.	313.	37.	51.	45.	130.	65.	2716.20
.38	7.56	14.57	6.98	.055	.045	.055	.000	2716.20	9984.44
.013513	480.	480.	480.	20	8	0	.00	27.81	10012.25

*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3780.000	7.45	2759.05	2759.05	.00	2761.48	2.43	7.60	.07	2751.60
1334.	237.	955.	143.	35.	67.	24.	131.	65.	2753.20
.39	6.80	14.21	5.95	.055	.045	.055	.000	2751.60	9989.56
.015248	520.	530.	540.	20	5	0	.00	27.74	10017.31

*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3880.000	6.42	2808.52	2808.52	.00	2810.36	1.84	8.28	.06	2805.60
1334.	37.	1231.	66.	9.	109.	16.	133.	65.	2805.70
.41	4.11	11.28	4.20	.055	.045	.055	.000	2802.10	9981.67
.015966	550.	530.	510.	20	15	0	.00	40.81	10022.47

*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3940.000	7.22	2823.02	2823.02	.00	2824.91	1.88	4.71	.01	2818.20
1334.	185.	964.	185.	34.	77.	31.	134.	66.	2817.60
.42	5.46	12.46	5.94	.055	.045	.055	.000	2815.80	9973.32
.013590	310.	320.	330.	20	8	0	.00	38.11	10011.43

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
CONFLUENCE WITH ROWE TRIB. 2.

3980.000	7.08	2840.98	2840.98	.00	2842.90	1.92	3.35	.01	2839.80
1334.	6.	1293.	35.	2.	115.	8.	134.	66.	2838.70
.42	2.55	11.27	4.48	.055	.045	.055	.000	2833.90	9980.27
.019011	220.	210.	200.	20	5	0	.00	37.32	10017.59

*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES FROM SUBWTRSHD H1F

.000	2.96	2863.76	2863.76	.00	2864.77	1.01	7.08	.09	2861.70
352.	20.	306.	25.	6.	36.	7.	135.	66.	2861.60
.43	3.68	8.53	3.82	.055	.045	.055	.000	2860.80	9980.43
.019512	360.	370.	380.	20	18	0	.00	25.71	10006.14

*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4160.000	2.94	2925.44	2925.44	.00	2926.12	.69	13.22	.03	2922.50
352.	40.	307.	6.	8.	45.	2.	136.	67.	2924.30
.46	5.22	6.86	2.94	.055	.045	.055	.000	2922.50	9963.63
.026962	580.	580.	580.	20	6	0	.00	39.84	10003.47

*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4250.000	3.34	2968.54	2968.54	.00	2969.25	.71	10.79	.01	2968.30
352.	0.	314.	38.	0.	44.	13.	136.	67.	2967.60
.48	.90	7.07	3.04	.055	.045	.055	.000	2965.20	9983.57
.019037	500.	480.	460.	20	8	0	.00	41.33	10024.90

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4350.000	4.75	3043.55	3043.55	.00	3044.83	1.28	10.49	.17	3038.80
352.	52.	285.	15.	10.	29.	5.	137.	67.	3042.00
.50	5.24	9.81	3.21	.055	.045	.055	.000	3038.80	9986.62
.020602	530.	530.	530.	20	14	0	.00	19.49	10006.11

*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4440.000	4.16	3136.96	3136.96	.00	3138.02	1.06	11.10	.02	3137.10
352.	0.	352.	0.	0.	43.	0.	137.	68.	3138.70
.51	.00	8.27	.00	.000	.045	.000	.000	3132.80	9988.68
.026153	480.	480.	480.	20	15	0	.00	20.48	10009.16

*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4530.000	4.59	3246.19	3246.19	.00	3247.46	1.27	14.05	.06	3241.60
352.	145.	207.	0.	19.	21.	0.	138.	68.	3246.10
.53	7.78	9.82	.05	.055	.045	.055	.000	3241.60	9982.88
.032967	480.	480.	480.	20	8	0	.00	17.26	10000.15

```
T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH     (RO.DAT)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                5                                                                 2315.05

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15                  -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4


CCHV=     .100 CEHV=     .300
*SECNO 1520.000
       *******REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         CONC.PT "51" (SEC.1.34-2.69); CONC.PT."50" (SEC.2.76-3.01)
         CONC.PT. "53" (SEC.3.09-3.98); SUBWTRSHD "H1F"(SEC.4.05-4.53 END)
         n-VALUES ARE A WEIGHTED AVG. OF SAND AND OVERBANK n-VALUES,
         USING THE RESPECTIVE WIDTHS OF SAND AND OVERBANK AREAS.
         A WIER WAS USED BETWEEN SEC.2.62 - 2.76 DUE TO SPLIT FLOW
         AROUND THE ISLAND AT THE GRAPEVINE CONFLUENCE.
         SEE RUN ROSPLIT.OUT
         QT VALUES FROM CP 51
         COMMON STATION IS 1520 FROM HTA FIS (ROWEWASH.DAT)
         BEGINNING WSEL ARE FROM HTA FIS (ROWEWASH.OUT)
 1520.000     4.05  2315.05      .00  2315.05  2315.85      .80      .00      .00  2312.00
   6687.      20.    2535.    4132.      6.     299.     659.       0.       0.   2312.00
     .00     3.46     8.48     6.27     .048     .042     .048     .000  2311.00  9966.19
 .009904       0.       0.       0.       0        0        0      .00   356.31 10322.50


*SECNO 1600.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1600.000     3.77  2327.77  2327.77      .00  2328.73      .96     6.27      .05  2324.40
   6687.     454.    6233.       0.      66.     788.       0.       8.       4.   2329.70
     .01     6.92     7.91      .00     .050     .048     .000     .000  2324.00  9943.72
  .027177    400.     420.     380.       20       12        0      .00   446.70 10390.43


*SECNO 1740.000

3265 DIVIDED FLOW

 1740.000     3.04  2346.54      .00      .00  2347.30      .76    18.56      .02  2344.00
   6687.      45.    6641.       1.       9.     945.       0.      24.      12.   2346.00
     .04     5.10     7.03     1.80     .050     .048     .050     .000  2343.50  9573.01
  .023191    750.     740.     730.        5        0        0      .00   526.68 10118.09
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN     SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID    ENDST


1490 NH CARD USED
*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     6.16  2362.06  2362.06      .00  2362.96      .90    12.11      .04  2362.20
    6687.     366.    6320.       1.     415.     809.       1.      36.      19.   2361.20
      .06      .88     7.81     2.51     .546     .048     .050     .000  2355.90  9388.81
  .027458     500.     480.     480.       20       23        0      .00   652.05 10105.06


*SECNO 1940.000

3265 DIVIDED FLOW

 1940.000     6.96  2377.06  2377.06      .00  2378.22     1.16    15.18      .08  2374.80
    6687.    2822.    3856.       8.     294.     489.       3.      49.      25.   2376.20
      .08     9.59     7.88     2.67     .050     .048     .050     .000  2370.10  9609.24
  .024989     580.     580.     580.        9       11        0      .00   362.15 10035.95


*SECNO 2050.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2050.000     3.59  2392.99  2392.99      .00  2394.01     1.02    15.26      .01  2391.10
    6687.     972.    5599.     115.     124.     686.      15.      60.      30.   2389.80
      .10     7.83     8.17     7.64     .050     .048     .050     .000  2389.40  9605.13
  .027453     590.     580.     600.        5       11        0      .00   411.99 10027.03


*SECNO 2140.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2140.000     5.48  2406.58  2406.58      .00  2408.05     1.47    11.76      .13  2404.60
    6687.     104.    6404.     180.      21.     650.      24.      68.      34.   2401.70
      .11     4.91     9.85     7.45     .050     .048     .050     .000  2401.10  9810.74
    2080      470.     480.     470.        3       14        0      .00   235.28 10055.18
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2250.000

3301 HV CHANGED MORE THAN HVINS

 2250.000     4.22  2418.22      .00      .00  2419.18      .95    11.07      .05  2423.50
    6687.       0.     6686.       1.       0.     853.       1.      79.      38.   2417.80
      .13      .00      7.83     1.36     .000     .048     .050     .000  2414.00  9771.31
  .016780     450.      580.     500.        5        0        0      .00   314.18 10085.49


*SECNO 2370.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2370.000     6.12  2436.92  2436.92      .00  2438.23     1.31    13.01      .11  2432.30
    6687.     102.     6585.       0.      14.     714.       0.      90.      42.   2438.50
      .15     7.21      9.23      .00     .050     .048     .000     .000  2430.80  9977.27
     6043     630.      630.     630.       17       14        0      .00   290.11 10405.01


*SECNO 2450.000

3301 HV CHANGED MORE THAN HVINS

 2450.000     4.51  2446.21      .00      .00  2446.96      .75     8.67      .06  2441.90
    6687.     304.     6336.      47.      35.     920.      10.      98.      45.   2443.30
      .17     8.64      6.89     4.68     .050     .048     .050     .000  2441.70  9977.75
  .016745     430.      420.     410.        5        0        0      .00   425.71 10403.46


*SECNO 2510.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          CONFLUENCE WITH GRAPEVINE WASH
 2510.000     6.82  2453.62  2453.62      .00  2454.87     1.25     5.17      .15  2452.40
    6687.       2.     1155.     5529.       1.     217.     578.     105.      48.   2453.70
      .18     2.32      5.34     9.57     .050     .048     .050     .000  2446.80  9933.81
     7999     330.      320.     310.        3       11        0      .00   326.64 10336.62
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        WEST BRAID ELIMINATED FROM RUN
 2570.000     4.20  2463.70  2463.70      .00  2464.87     1.17     6.59      .01  2460.70
    6687.      40.    6647.       0.       7.     766.       0.     111.      51.   2462.00
      .19     5.67     8.68      .93     .050     .048     .050     .000  2459.50  9680.34
  .026673     310.     320.     330.       16       14        0      .00   344.83 10025.17


1490 NH CARD USED
*SECNO 2620.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2620.000     6.12  2471.52  2471.52      .00  2472.56     1.04     4.37      .01  2470.70
    6687.     601.    6032.      55.      81.     729.      12.     115.      53.   2466.60
      .20     7.40     8.27     4.60     .041     .028     .050     .000  2465.40  9601.16
  .011596     250.     260.     270.        2       14        0      .00   453.87 10055.02


 NH CARD USED
*SECNO 2690.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2690.000     6.79  2482.09  2482.09      .00  2483.15     1.06     6.02      .01  2484.20
    6687.       0.    5999.     688.       0.     731.     80.     122.      57.   2478.60
      .21      .00     8.20     8.64     .000     .045     .050     .000  2475.30  9660.69
  .024421     370.     370.     370.       20        8        0      .00   393.20 10055.39


*SECNO 2760.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        QT VALUES FROM CP 50
 2760.000     3.03  2495.13  2495.13      .00  2496.00      .87     9.52      .02  2494.20
    2512.       2.     874.    1636.       1.     111.     226.     127.      59.   2494.10
      .23     2.83     7.90     7.24     .050     .048     .050     .000  2492.10  9918.10
  .029790     370.     370.     370.       20       18        0      .00   202.36 10120.46
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2840.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2840.000     6.41  2509.31  2509.31      .00  2510.39     1.08    10.05      .06  2505.80
    2512.      67.    1214.    1231.      12.     119.     201.     130.      61.   2507.50
      .24     5.55    10.19     6.14     .050     .048     .050     .000  2502.90  9979.51
  .019189     410.     420.     430.        4       20        0      .00   148.87 10128.38


*SECNO 2900.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2900.000     6.90  2518.50  2518.50      .00  2519.70     1.20     3.26      .04  2512.60
    2512.      70.    1548.     893.      18.     143.     241.     133.      62.   2514.10
      .25     3.87    10.79     3.70     .050     .035     .050     .000  2511.60  9982.43
  .006174     310.     320.     330.       20        8        0      .00   159.22 10141.65


 O 3010.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 1.
 3010.000     5.81  2536.21  2536.21      .00  2537.48     1.27     4.27      .02  2530.40
    2512.     832.    1104.     576.     123.      93.     130.     138.      64.   2531.30
      .27     6.74    11.90     4.44     .050     .035     .050     .000  2530.40  9955.75
  .008922     580.     580.     580.       20       12        0      .00   125.83 10081.58


*SECNO 3090.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES FROM CP 50A
 3090.000     5.89  2549.59  2549.59      .00  2551.22     1.63     4.44      .11  2546.60
    1639.     157.    1437.      44.      33.     133.       9.     141.      65.   2545.80
      .28     4.83    10.79     5.07     .050     .045     .050     .000  2543.70  9959.86
  .014142     420.     420.     420.       20        5        0      .00    58.10 10017.95


*SECNO 3160.000
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CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3160.000	7.68	2568.48	2568.48	.00	2570.94	2.46	5.26	.25	2562.40
1639.	184.	1290.	166.	30.	93.	25.	142.	65.	2562.90
.29	6.09	13.80	6.69	.055	.045	.055	.000	2560.80	9981.08
.014288	360.	370.	390.	20	11	0	.00	32.07	10013.16

*SECNO 3250.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.000	5.09	2592.99	2592.99	.00	2594.49	1.50	6.94	.10	2590.10
1639.	30.	1521.	88.	8.	150.	25.	144.	66.	2590.20
.30	3.84	10.16	3.56	.055	.045	.055	.000	2587.90	9967.82
.014630	480.	480.	480.	20	14	0	.00	67.37	10035.19

*SECNO 3320.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3320.000	5.57	2605.57	2605.57	.00	2607.74	2.17	5.75	.20	2600.00
1639.	124.	1393.	122.	21.	111.	19.	145.	66.	2600.80
.31	5.93	12.56	6.41	.055	.045	.055	.000	2600.00	9980.42
.016535	380.	370.	360.	20	8	0	.00	37.01	10017.44

*SECNO 3410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3410.000	7.40	2629.60	2629.60	.00	2631.95	2.35	7.98	.05	2624.80
1639.	203.	1420.	16.	29.	110.	4.	147.	67.	2627.00
.32	7.07	12.92	3.57	.055	.045	.055	.000	2622.20	9979.76
6705	480.	480.	480.	20	11	0	.00	33.03	10012.79

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3470.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3470.000     9.83  2649.83  2649.83      .00  2652.52     2.69     5.22      .10  2642.30
    1639.     261.     1175.     203.     37.      79.     31.     148.      67.   2643.50
      .33     7.06     14.95     6.53    .055     .045    .055     .000  2640.00  9980.98
  .015871     330.      320.     310.      20       11       0      .00    28.83 10009.81


*SECNO 3520.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3520.000     5.80  2666.10  2666.10      .00  2667.84     1.74     4.35      .09  2661.10
    1639.     858.      630.     151.    104.      46.     23.     149.      67.   2660.30
      .34     8.29     13.73     6.48    .055     .045    .055     .000  2660.30  9977.09
  .018368     240.      260.     280.      20       14       0      .00    48.36 10025.45


*SECNO 3590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3590.000     8.44  2690.24  2690.24      .00  2693.00     2.76     6.22      .31  2684.00
    1639.     139.      1396.     104.     23.      98.     19.     150.      67.   2684.80
      .35     5.97     14.26     5.54    .055     .045    .055     .000  2681.80  9979.06
  .015269     380.      370.     360.      20       14       0      .00    27.87 10006.92


*SECNO 3680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3680.000     8.05  2724.25  2724.25      .00  2726.75     2.49     7.00      .03  2716.20
    1639.     353.      871.     415.     43.      56.     53.     152.      68.   2716.20
      .36     8.28     15.67     7.77    .055     .045    .055     .000  2716.20  9984.07
  .013945     480.      480.     480.      20       11       0      .00    29.44 10013.51
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3780.000     8.11  2759.71  2759.71      .00  2762.53     2.82     7.88      .10  2751.60
    1639.     303.     1142.     194.      41.      74.      30.     154.      68.   2753.20
      .37     7.35     15.46     6.52     .055     .045     .055     .000  2751.60  9988.74
  .015903     520.      530.     540.       20        8        0      .00    29.49 10018.23


*SECNO 3880.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3880.000     7.03  2809.13  2809.13      .00  2811.14     2.01     8.22      .08  2805.60
    1639.      60.     1471.     108.      13.     124.      23.     155.      69.   2805.70
      .38     4.54     11.91     4.66     .055     .045     .055     .000  2802.10  9980.36
   15093     550.      530.     510.       20       15        0      .00    44.52 10024.88


*SECNO 3940.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3940.000     7.85  2823.65  2823.65      .00  2825.71     2.06     4.55      .01  2818.20
    1639.     255.     1127.     257.      43.      85.      39.     157.      69.   2817.60
      .39     5.89     13.22     6.64     .055     .045     .055     .000  2815.80  9971.49
  .013433     310.      320.     330.       20        8        0      .00    41.16 10012.65


*SECNO 3980.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         CONFLUENCE WITH ROWE TRIB. 2.
 3980.000     7.70  2841.60  2841.60      .00  2843.70     2.10     3.21      .01  2839.80
    1639.      18.     1562.      59.       6.     132.      12.     157.      69.   2838.70
      .39     3.25     11.87     4.93     .055     .045     .055     .000  2833.90  9978.16
  .017569     220.      210.     200.       20        5        0      .00    40.88 10019.03
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4050.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES FROM SUBWTRSHD H1F
 4050.000     3.30  2864.10  2864.10      .00  2865.21     1.11     6.57      .10  2861.70
     433.      30.     367.      36.       7.      41.       9.     158.      69.   2861.60
      .41     3.96     9.02     4.10     .055     .045     .055     .000  2860.80  9979.55
  .018496     360.     370.     380.       20       14        0      .00    27.54 10007.09


*SECNO 4160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4160.000     3.12  2925.62  2925.62      .00  2926.43      .82    12.97      .03  2922.50
     433.      47.     377.       9.       9.      50.       3.     159.      70.   2924.30
      .43     5.49     7.51     3.28     .055     .045     .055     .000  2922.50  9963.31
  .027561     580.     580.     580.       20       11        0      .00    40.71 10004.02


*SECNO 4250.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4250.000     3.57  2968.77  2968.77      .00  2969.56      .78    10.76      .00  2968.30
     433.       1.     373.      59.       1.      50.      17.     160.      70.   2967.60
      .45     1.40     7.52     3.56     .055     .045     .055     .000  2965.20  9982.10
  .018623     500.     480.     460.       20        8        0      .00    43.45 10025.55


*SECNO 4350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4350.000     5.19  3043.99  3043.99      .00  3045.37     1.38    10.01      .18  3038.80
     433.      63.     341.      29.      12.      33.       8.     160.      71.   3042.00
      .46     5.35    10.32     3.65     .055     .045     .055     .000  3038.80  9986.24
  .019150     530.     530.     530.       20       14        0      .00    21.60 10007.83
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 :NO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4440.000     4.49  3137.29  3137.29      .00  3138.47     1.18    10.57      .02  3137.10
     433.       0.     433.       0.       0.      50.       0.     161.      71.   3138.70
      .48      .04     8.73      .00     .055     .045     .000     .000  3132.80  9988.03
  .025608     480.     480.     480.       20       15        0      .00    21.87 10009.89


*SECNO 4530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4530.000     5.01  3246.61  3246.61      .00  3248.00     1.39    13.25      .06  3241.60
     433.     174.     259.       0.      22.      25.       0.     162.      71.   3246.10
      .49     7.85    10.42     1.67     .055     .045     .055     .000  3241.60  9982.15
  .029832     480.     480.     480.       20        8        0      .00    18.66 10000.80
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THIS RUN EXECUTED 2/26/90 16:20:59

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

ROWE WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1520.000	2313.70	3033.00	2.70	2.52	6.75	5.17	4.54	1288.42	1740.03	287.12	114.00	.00
	1520.000	2314.31	4531.00	3.31	2.99	7.60	5.74	9.96	1821.99	2699.05	318.39	106.76	.00
	1520.000	2314.50	5307.00	3.50	3.28	8.24	6.19	12.80	2100.57	3193.63	328.13	115.63	.00
	1520.000	2315.05	6687.00	4.05	3.46	8.48	6.27	20.13	2534.85	4132.02	356.31	99.04	.00
*	1600.000	2326.94	3033.00	2.94	6.40	6.18	.00	238.74	2794.26	.00	429.89	339.42	13.24
*	1600.000	2327.29	4531.00	3.29	6.70	7.08	.00	324.26	4206.74	.00	437.05	312.26	12.98
*	1600.000	2327.45	5307.00	3.45	6.88	7.49	.00	370.63	4936.36	.00	440.28	306.46	12.95
*	1600.000	2327.77	6687.00	3.77	6.92	7.91	.00	454.31	6232.69	.00	446.70	271.77	12.72
	1740.000	2345.89	3033.00	2.39	3.84	4.92	.00	18.92	3014.08	.00	509.63	195.30	18.95
	1740.000	2346.20	4531.00	2.70	4.38	5.86	.04	29.15	4501.84	.00	516.61	207.36	18.91
	1740.000	2346.35	5307.00	2.85	4.60	6.24	1.27	34.88	5271.93	.18	520.95	209.97	18.90
	1740.000	2346.54	6687.00	3.04	5.10	7.03	1.80	45.33	6641.04	.63	526.68	231.91	18.77
*	1830.000	2361.20	3033.00	5.30	.45	6.48	.00	116.67	2916.33	.00	537.21	360.75	15.31
*	1830.000	2361.54	4531.00	5.64	.66	7.33	.06	207.22	4323.77	.01	589.53	354.38	15.34
*	1830.000	2361.69	5307.00	5.79	.75	7.74	1.95	256.38	5050.25	.37	607.71	349.47	15.34
*	1830.000	2362.06	6687.00	6.16	.88	7.81	2.51	365.66	6319.87	1.47	652.05	274.58	15.53
	1940.000	2376.15	3033.00	6.05	7.31	5.53	.00	1435.56	1597.44	.00	293.76	193.46	14.95
	1940.000	2376.65	4531.00	6.55	8.08	6.41	1.55	1999.30	2530.42	1.28	331.72	199.54	15.11
	1940.000	2376.87	5307.00	6.77	8.42	6.81	2.03	2284.86	3018.45	3.69	347.87	203.09	15.17
	1940.000	2377.06	6687.00	6.96	9.59	7.88	2.67	2822.40	3856.47	8.14	362.15	249.89	15.00
*	2050.000	2392.07	3033.00	2.67	5.84	6.65	5.71	393.07	2593.35	46.58	363.71	320.45	15.92
*	2050.000	2392.48	4531.00	3.08	6.83	7.41	6.69	629.22	3827.19	74.58	385.18	298.46	15.83
*	2050.000	2392.69	5307.00	3.29	7.16	7.63	7.00	754.06	4463.55	89.39	396.34	279.01	15.82
*	2050.000	2392.99	6687.00	3.59	7.83	8.17	7.64	972.44	5599.23	115.33	411.99	274.53	15.93
	2140.000	2404.75	3033.00	3.65	.82	8.76	5.61	.11	2979.90	52.99	142.64	234.32	12.69
*	2140.000	2405.62	4531.00	4.52	2.88	9.37	6.58	16.77	4411.79	102.44	186.27	230.58	13.15
*	2140.000	2405.99	5307.00	4.89	3.52	9.61	6.97	37.88	5139.37	129.75	206.17	229.70	13.30
*	2140.000	2406.58	6687.00	5.48	4.91	9.85	7.45	103.84	6403.52	179.64	235.28	220.80	13.59

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2250.000	2417.14	3033.00	3.14	.00	5.86	.00	.00	3033.00	.00	301.96	175.08	12.38
	2250.000	2417.65	4531.00	3.65	.00	6.72	.00	.00	4531.00	.00	309.83	167.89	12.02
	2250.000	2417.88	5307.00	3.88	.00	7.12	.04	.00	5307.00	.00	311.07	165.46	11.89
	2250.000	2418.22	6687.00	4.22	.00	7.83	1.36	.00	6686.31	.69	314.18	167.80	11.64
*	2370.000	2435.53	3033.00	4.73	5.93	7.94	.00	41.13	2991.87	.00	204.11	282.87	18.40
*	2370.000	2436.20	4531.00	5.40	6.61	8.53	.00	66.49	4464.50	.00	248.40	274.26	18.55
*	2370.000	2436.47	5307.00	5.67	6.86	8.82	.00	79.17	5227.83	.00	264.41	269.55	18.60
*	2370.000	2436.92	6687.00	6.12	7.21	9.23	.00	102.03	6584.97	.00	290.11	260.43	18.69
	2450.000	2445.32	3033.00	3.62	7.59	5.04	3.74	196.95	2817.75	18.30	422.75	173.88	9.79
	2450.000	2445.72	4531.00	4.02	8.04	5.89	4.16	241.62	4260.12	29.25	424.10	168.66	9.53
	2450.000	2445.91	5307.00	4.21	8.26	6.27	4.35	264.22	5007.33	35.45	424.71	167.57	9.43
	2450.000	2446.21	6687.00	4.51	8.64	6.89	4.68	303.94	6335.80	47.26	425.71	167.45	9.29
*	2510.000	2452.29	3033.00	5.49	.00	2.32	8.12	.00	114.78	2918.22	235.69	141.82	6.96
*	2510.000	2453.02	4531.00	6.22	1.38	3.74	8.53	.35	510.75	4019.90	298.00	138.32	7.30
*	2510.000	2453.33	5307.00	6.53	1.78	4.35	8.63	1.01	774.57	4531.41	312.90	135.41	7.43
*	2510.000	2453.62	6687.00	6.82	2.32	5.34	9.57	2.25	1155.47	5529.28	326.64	159.99	7.42
*	2570.000	2462.73	3033.00	3.23	4.76	6.85	.05	15.30	3017.70	.00	319.77	315.40	10.45
*	2570.000	2463.18	4531.00	3.68	5.26	7.67	.05	25.04	4505.96	.00	343.96	296.72	10.15
*	2570.000	2463.37	5307.00	3.87	5.41	8.06	.05	30.04	5276.96	.00	344.29	283.66	10.04
*	2570.000	2463.70	6687.00	4.20	5.67	8.68	.93	39.63	6647.23	.14	344.83	266.73	10.08
*	2620.000	2470.27	3033.00	4.87	5.35	7.69	3.67	226.67	2782.02	24.30	236.46	109.13	7.54
*	2620.000	2470.90	4531.00	5.50	6.20	8.00	4.06	380.09	4114.02	36.89	314.60	108.20	7.73
*	2620.000	2471.30	5307.00	5.90	6.42	7.50	4.06	475.58	4787.45	43.97	453.25	95.94	7.93
*	2620.000	2471.52	6687.00	6.12	7.40	8.27	4.60	600.94	6031.50	54.55	453.87	115.96	7.82
*	2690.000	2480.29	3033.00	4.99	.00	8.66	3.91	.00	2932.28	100.72	158.76	147.07	10.01
*	2690.000	2481.26	4531.00	5.96	.00	8.47	6.31	.00	4200.33	330.67	242.64	188.51	10.36
*	2690.000	2481.60	5307.00	6.30	.00	8.36	7.41	.00	4838.54	468.46	300.24	219.56	10.30
*	2690.000	2482.09	6687.00	6.79	.00	8.20	8.64	.00	5998.65	688.35	393.20	244.21	10.57
*	2760.000	2494.54	1225.00	2.44	1.42	5.94	5.46	.15	440.53	784.32	200.48	287.57	14.25
*	2760.000	2494.79	1782.00	2.69	2.14	7.08	6.48	.67	630.91	1150.42	201.26	318.46	13.53
*	2760.000	2494.92	2048.00	2.82	2.42	7.40	6.77	1.14	719.78	1327.08	201.68	309.77	13.31
*	2760.000	2495.13	2512.00	3.03	2.83	7.90	7.24	2.25	873.65	1636.10	202.36	297.90	13.04
*	2840.000	2508.55	1225.00	5.65	4.18	7.80	3.84	31.13	743.79	450.07	146.05	150.92	14.01
*	2840.000	2508.92	1782.00	6.02	4.82	8.92	4.94	46.23	954.63	781.14	147.44	169.37	14.14
*	2840.000	2509.12	2048.00	6.22	4.99	9.19	5.33	53.86	1039.01	955.13	148.16	167.25	14.20
*	2840.000	2509.31	2512.00	6.41	5.55	10.19	6.14	67.06	1213.61	1231.33	148.87	191.89	14.17
*	2900.000	2517.34	1225.00	5.74	3.06	8.54	2.19	35.96	984.47	204.57	155.66	51.77	8.79
*	2900.000	2517.92	1782.00	6.32	3.45	9.63	2.89	51.14	1246.59	484.26	157.45	56.44	9.00
*	2900.000	2518.14	2048.00	6.54	3.62	10.10	3.21	58.22	1362.11	627.67	158.13	58.82	9.03
*	2900.000	2518.50	2512.00	6.90	3.87	10.79	3.70	70.44	1548.46	893.09	159.22	61.74	9.19

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3010.000	2534.93	1225.00	4.53	5.30	9.76	3.15	421.24	678.74	125.01	119.35	87.96	17.59
*	3010.000	2535.56	1782.00	5.16	6.01	10.81	3.61	605.72	875.79	300.49	122.53	88.30	17.63
*	3010.000	2535.83	2048.00	5.43	6.25	11.15	3.91	688.72	958.33	400.95	123.92	86.72	17.69
*	3010.000	2536.21	2512.00	5.81	6.74	11.90	4.44	831.58	1104.48	575.94	125.83	89.22	17.71
*	3090.000	2547.88	790.00	4.18	3.10	9.14	3.49	14.98	766.19	8.83	39.08	188.37	12.95
*	3090.000	2548.72	1158.00	5.02	4.16	9.93	4.39	62.14	1073.59	22.27	48.43	157.91	13.17
*	3090.000	2549.03	1334.00	5.33	4.48	10.39	4.73	90.57	1214.01	29.42	51.79	156.02	13.20
*	3090.000	2549.59	1639.00	5.89	4.83	10.79	5.07	157.27	1437.44	44.29	58.10	141.42	13.39
*	3160.000	2566.22	790.00	5.42	4.73	11.13	4.42	56.29	693.38	40.33	25.49	159.58	18.34
*	3160.000	2567.29	1158.00	6.49	5.43	12.49	5.71	105.85	962.43	89.72	28.61	151.37	18.57
*	3160.000	2567.75	1334.00	6.95	5.69	13.00	6.12	132.97	1084.67	116.36	29.96	147.42	18.73
*	3160.000	2568.48	1639.00	7.68	6.09	13.80	6.69	183.71	1289.78	165.51	32.07	142.88	18.89
*	3250.000	2591.35	790.00	3.45	2.65	8.71	2.25	3.87	781.58	4.55	43.40	213.00	25.13
*	3250.000	2592.03	1158.00	4.13	3.40	9.84	3.15	11.75	1126.77	19.48	48.03	196.69	24.74
*	3250.000	2592.50	1334.00	4.60	3.52	9.69	3.05	18.91	1276.73	38.36	65.12	157.74	24.75
*	3250.000	2592.99	1639.00	5.09	3.84	10.16	3.56	29.88	1521.11	88.01	67.37	146.30	24.51
*	3320.000	2603.70	790.00	3.70	4.91	10.06	5.11	45.22	707.31	37.47	31.64	194.83	12.35
*	3320.000	2604.58	1158.00	4.58	5.41	11.29	5.79	76.35	1010.96	70.69	34.18	178.10	12.56
*	3320.000	2604.95	1334.00	4.95	5.63	11.81	6.05	92.73	1152.80	88.47	35.24	173.71	12.45
*	3320.000	2605.57	1639.00	5.57	5.93	12.56	6.41	123.52	1393.15	122.33	37.01	165.35	12.57
*	3410.000	2627.50	790.00	5.30	5.69	10.51	1.31	62.24	727.55	.21	26.54	204.70	23.79
*	3410.000	2628.52	1158.00	6.32	6.38	11.66	2.58	118.50	1035.64	3.86	29.68	180.29	23.93
*	3410.000	2628.93	1334.00	6.73	6.66	12.16	2.99	148.12	1178.62	7.26	30.96	174.89	23.98
*	3410.000	2629.60	1639.00	7.40	7.07	12.92	3.57	203.45	1419.82	15.72	33.03	167.05	24.04
*	3470.000	2647.10	790.00	7.10	5.57	12.32	4.78	83.61	658.50	47.89	21.03	180.31	19.60
*	3470.000	2648.44	1158.00	8.44	6.32	13.62	5.68	155.18	895.63	107.19	24.85	167.10	19.92
*	3470.000	2648.98	1334.00	8.98	6.62	14.15	6.02	192.57	1001.28	140.15	26.40	163.56	20.05
*	3470.000	2649.83	1639.00	9.83	7.06	14.95	6.53	261.20	1174.88	202.92	28.83	158.71	20.23
*	3520.000	2664.66	790.00	4.36	5.93	10.93	5.24	352.50	368.19	69.30	44.21	175.82	17.57
*	3520.000	2665.33	1158.00	5.03	7.12	12.35	5.87	568.02	486.61	103.37	46.16	182.12	16.90
*	3520.000	2665.62	1334.00	5.32	7.59	12.91	6.11	673.34	540.23	120.43	47.00	183.35	16.64
*	3520.000	2666.10	1639.00	5.80	8.29	13.73	6.48	858.15	629.70	151.14	48.36	183.68	16.26
*	3590.000	2687.67	790.00	5.87	4.56	11.59	3.94	36.63	732.73	20.64	21.53	180.65	23.01
*	3590.000	2688.92	1158.00	7.12	5.26	12.86	4.75	75.91	1030.73	51.36	24.62	162.41	23.59
*	3590.000	2689.45	1334.00	7.65	5.53	13.37	5.06	97.79	1166.70	69.51	25.91	156.78	23.82
*	3590.000	2690.24	1639.00	8.44	5.97	14.26	5.54	138.59	1396.03	104.37	27.87	152.69	24.14
*	3680.000	2721.86	790.00	5.66	5.98	12.76	5.92	135.36	498.66	155.98	23.91	147.90	34.19
*	3680.000	2723.03	1158.00	6.83	7.23	14.26	6.62	231.70	672.48	253.81	26.48	143.83	34.11
*	3680.000	2723.59	1334.00	7.39	7.56	14.57	6.98	277.84	742.96	313.20	27.81	135.13	34.14
*	3680.000	2724.25	1639.00	8.05	8.28	15.67	7.77	353.01	870.73	415.26	29.44	139.45	34.01

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3780.000	2757.33	790.00	5.73	6.02	12.24	4.97	123.65	606.98	59.37	23.16	169.66	35.46
*	3780.000	2758.55	1158.00	6.95	6.56	13.62	5.67	198.63	845.60	113.76	26.41	155.73	35.52
*	3780.000	2759.05	1334.00	7.45	6.80	14.21	5.95	236.62	954.52	142.86	27.74	152.48	35.46
*	3780.000	2759.71	1639.00	8.11	7.35	15.46	6.52	302.77	1142.38	193.84	29.49	159.03	35.46
*	3880.000	2807.20	790.00	5.10	3.00	9.84	3.01	8.17	768.60	13.23	32.79	190.05	49.87
*	3880.000	2808.13	1158.00	6.03	3.82	10.87	3.89	26.08	1086.83	45.08	38.45	166.51	49.58
*	3880.000	2808.52	1334.00	6.42	4.11	11.28	4.20	37.39	1231.05	65.56	40.81	159.66	49.47
*	3880.000	2809.13	1639.00	7.03	4.54	11.91	4.66	60.37	1471.00	107.63	44.52	150.93	49.42
*	3940.000	2821.49	790.00	5.69	4.53	11.03	4.92	71.54	639.74	78.72	30.43	156.19	14.29
*	3940.000	2822.56	1158.00	6.76	5.24	12.13	5.54	145.49	868.14	144.38	35.85	142.91	14.43
*	3940.000	2823.02	1334.00	7.22	5.46	12.46	5.94	185.34	963.89	184.77	38.11	135.90	14.50
*	3940.000	2823.65	1639.00	7.85	5.89	13.22	6.64	255.29	1126.98	256.73	41.16	134.33	14.52
*	3980.000	2839.72	790.00	5.82	.00	9.76	3.12	.00	783.92	6.08	30.18	227.21	18.23
*	3980.000	2840.62	1158.00	6.72	2.03	10.80	4.13	2.31	1132.06	23.63	35.22	196.93	18.05
*	3980.000	2840.98	1334.00	7.08	2.55	11.27	4.48	6.07	1293.08	34.85	37.32	190.11	17.96
*	3980.000	2841.60	1639.00	7.70	3.25	11.87	4.93	17.95	1561.84	59.20	40.88	175.69	17.95
*	4050.000	2863.12	217.00	2.32	3.03	7.42	3.19	7.92	198.66	10.42	22.20	218.44	23.40
*	4050.000	2863.55	305.00	2.75	3.48	8.19	3.63	15.54	269.84	19.62	24.57	202.00	22.93
*	4050.000	2863.76	352.00	2.96	3.68	8.53	3.82	20.34	306.34	25.33	25.71	195.12	22.78
*	4050.000	2864.10	433.00	3.30	3.96	9.02	4.10	29.62	367.12	36.25	27.54	184.96	22.50
*	4160.000	2925.00	217.00	2.50	5.21	5.99	2.37	28.74	186.46	1.79	37.76	332.24	61.89
*	4160.000	2925.29	305.00	2.79	5.24	6.63	2.79	35.84	265.01	4.15	39.12	291.58	61.74
*	4160.000	2925.44	352.00	2.94	5.22	6.86	2.94	39.65	306.54	5.81	39.84	269.62	61.68
*	4160.000	2925.62	433.00	3.12	5.49	7.51	3.28	46.95	377.36	8.69	40.71	275.61	61.52
*	4250.000	2968.07	217.00	2.87	.00	6.17	1.67	.00	209.37	7.62	37.62	197.04	43.06
*	4250.000	2968.39	305.00	3.19	.04	6.78	2.67	.00	278.36	26.64	39.97	194.03	43.11
*	4250.000	2968.54	352.00	3.34	.90	7.07	3.04	.17	313.73	38.10	41.33	190.37	43.10
*	4250.000	2968.77	433.00	3.57	1.40	7.52	3.56	.99	372.73	59.28	43.45	186.23	43.16
*	4350.000	3042.67	217.00	3.87	5.06	8.73	2.02	33.21	182.02	1.76	15.21	253.64	74.60
*	4350.000	3043.29	305.00	4.49	5.11	9.40	2.88	45.36	250.17	9.47	18.23	211.95	74.90
*	4350.000	3043.55	352.00	4.75	5.24	9.81	3.21	51.97	284.79	15.24	19.49	206.02	75.01
*	4350.000	3043.99	433.00	5.19	5.35	10.32	3.65	63.41	341.08	28.51	21.60	191.50	75.22
*	4440.000	3136.22	217.00	3.42	.00	7.53	.00	.00	217.00	.00	16.84	281.95	93.55
*	4440.000	3136.72	305.00	3.92	.00	8.06	.00	.00	305.00	.00	19.30	269.23	93.43
*	4440.000	3136.96	352.00	4.16	.00	8.27	.00	.00	352.00	.00	20.48	261.53	93.40
*	4440.000	3137.29	433.00	4.49	.04	8.73	.00	.00	433.00	.00	21.87	256.08	93.30
*	4530.000	3245.45	217.00	3.85	6.89	8.57	.00	90.10	126.90	.00	14.50	326.74	109.23
*	4530.000	3246.00	305.00	4.40	7.40	9.21	.00	126.64	178.36	.00	16.58	315.50	109.28
*	4530.000	3246.19	352.00	4.59	7.78	9.82	.05	145.05	206.95	.00	17.26	329.67	109.23
*	4530.000	3246.61	433.00	5.01	7.85	10.42	1.67	173.98	258.68	.34	18.66	298.32	109.32

WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1520.000	.00	.00	.00	2311.00	3033.00	2313.70	.00	2314.24	114.00	6.75	529.04	284.07
	1520.000	.00	.00	.00	2311.00	4531.00	2314.31	.00	2314.98	106.76	7.60	713.76	438.52
	1520.000	.00	.00	.00	2311.00	5307.00	2314.50	.00	2315.28	115.63	8.24	775.16	493.54
	1520.000	.00	.00	.00	2311.00	6687.00	2315.05	.00	2315.85	99.04	8.48	963.39	671.92
*	1600.000	420.00	.00	.00	2324.00	3033.00	2326.94	2326.94	2327.54	339.42	6.18	489.32	164.63
*	1600.000	420.00	.00	.00	2324.00	4531.00	2327.29	2327.29	2328.06	312.26	7.08	642.67	256.41
*	1600.000	420.00	.00	.00	2324.00	5307.00	2327.45	2327.45	2328.31	306.46	7.49	712.60	303.15
*	1600.000	420.00	.00	.00	2324.00	6687.00	2327.77	2327.77	2328.73	271.77	7.91	853.25	405.63
	1740.000	740.00	.00	.00	2343.50	3033.00	2345.89	.00	2346.26	195.30	4.92	617.36	217.03
	1740.000	740.00	.00	.00	2343.50	4531.00	2346.20	.00	2346.73	207.36	5.86	775.36	314.65
	1740.000	740.00	.00	.00	2343.50	5307.00	2346.35	.00	2346.95	209.97	6.24	851.99	366.25
	1740.000	740.00	.00	.00	2343.50	6687.00	2346.54	.00	2347.30	231.91	7.03	953.92	439.11
*	1830.000	480.00	.00	.00	2355.90	3033.00	2361.20	2361.20	2361.83	360.75	6.48	708.29	159.69
*	1830.000	480.00	.00	.00	2355.90	4531.00	2361.54	2361.54	2362.34	354.38	7.33	902.60	240.69
*	1830.000	480.00	.00	.00	2355.90	5307.00	2361.69	2361.69	2362.58	349.47	7.74	992.33	283.88
	1830.000	480.00	.00	.00	2355.90	6687.00	2362.06	2362.06	2362.96	274.58	7.81	1225.36	403.55
	1940.000	580.00	.00	.00	2370.10	3033.00	2376.15	.00	2376.79	193.46	5.53	485.35	218.06
	1940.000	580.00	.00	.00	2370.10	4531.00	2376.65	.00	2377.45	199.54	6.41	642.88	320.76
	1940.000	580.00	.00	.00	2370.10	5307.00	2376.87	.00	2377.75	203.09	6.81	716.71	372.39
	1940.000	580.00	.00	.00	2370.10	6687.00	2377.06	2377.06	2378.22	249.89	7.88	786.42	423.02
*	2050.000	580.00	.00	.00	2389.40	3033.00	2392.07	2392.07	2392.73	320.45	6.65	465.72	169.43
*	2050.000	580.00	.00	.00	2389.40	4531.00	2392.48	2392.48	2393.31	298.46	7.41	619.85	262.27
*	2050.000	580.00	.00	.00	2389.40	5307.00	2392.69	2392.69	2393.58	279.01	7.63	703.51	317.71
*	2050.000	580.00	.00	.00	2389.40	6687.00	2392.99	2392.99	2394.01	274.53	8.17	824.78	403.59
	2140.000	480.00	.00	.00	2401.10	3033.00	2404.75	2404.70	2405.93	234.32	8.76	349.59	198.14
*	2140.000	480.00	.00	.00	2401.10	4531.00	2405.62	2405.62	2406.97	230.58	9.37	492.41	298.39
*	2140.000	480.00	.00	.00	2401.10	5307.00	2405.99	2405.99	2407.40	229.70	9.61	564.30	350.16
*	2140.000	480.00	.00	.00	2401.10	6687.00	2406.58	2406.58	2408.05	220.80	9.85	695.53	450.02
	2250.000	580.00	.00	.00	2414.00	3033.00	2417.14	.00	2417.67	175.08	5.86	517.49	229.22
	2250.000	580.00	.00	.00	2414.00	4531.00	2417.65	.00	2418.35	167.89	6.72	673.79	349.68
	2250.000	580.00	.00	.00	2414.00	5307.00	2417.88	.00	2418.66	165.46	7.12	745.01	412.57
	2250.000	580.00	.00	.00	2414.00	6687.00	2418.22	.00	2419.18	167.80	7.83	854.00	516.23
*	2370.000	630.00	.00	.00	2430.80	3033.00	2435.53	2435.53	2436.51	282.87	7.94	383.73	180.33
*	2370.000	630.00	.00	.00	2430.80	4531.00	2436.20	2436.20	2437.32	274.26	8.53	533.21	273.60
*	2370.000	630.00	.00	.00	2430.80	5307.00	2436.47	2436.47	2437.67	269.55	8.82	604.26	323.25
*	2370.000	630.00	.00	.00	2430.80	6687.00	2436.92	2436.92	2438.23	260.43	9.23	727.93	414.37

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2450.000	420.00	.00	.00	2441.70	3033.00	2445.32	.00	2445.75	173.88	5.04	590.15	230.01
	2450.000	420.00	.00	.00	2441.70	4531.00	2445.72	.00	2446.28	168.66	5.89	760.40	348.89
	2450.000	420.00	.00	.00	2441.70	5307.00	2445.91	.00	2446.54	167.57	6.27	838.63	409.96
	2450.000	420.00	.00	.00	2441.70	6687.00	2446.21	.00	2446.96	167.45	6.89	965.07	516.76
*	2510.000	320.00	.00	.00	2446.80	3033.00	2452.29	2452.29	2453.27	141.82	2.32	408.96	254.68
*	2510.000	320.00	.00	.00	2446.80	4531.00	2453.02	2453.02	2454.05	138.32	3.74	608.38	385.26
*	2510.000	320.00	.00	.00	2446.80	5307.00	2453.33	2453.33	2454.37	135.41	4.35	703.39	456.06
*	2510.000	320.00	.00	.00	2446.80	6687.00	2453.62	2453.62	2454.87	159.99	5.34	795.04	528.67
*	2570.000	320.00	.00	.00	2459.50	3033.00	2462.73	2462.73	2463.46	315.40	6.85	443.80	170.78
*	2570.000	320.00	.00	.00	2459.50	4531.00	2463.18	2463.18	2464.09	296.72	7.67	592.10	263.04
*	2570.000	320.00	.00	.00	2459.50	5307.00	2463.37	2463.37	2464.38	283.66	8.06	660.07	315.10
*	2570.000	320.00	.00	.00	2459.50	6687.00	2463.70	2463.70	2464.87	266.73	8.68	772.79	409.45
*	2620.000	260.00	.00	.00	2465.40	3033.00	2470.27	2470.27	2471.15	109.13	7.69	410.59	290.33
*	2620.000	260.00	.00	.00	2465.40	4531.00	2470.90	2470.90	2471.86	108.20	8.00	584.67	435.59
*	2620.000	260.00	.00	.00	2465.40	5307.00	2471.30	2471.30	2472.15	95.94	7.50	723.50	541.80
*	2620.000	260.00	.00	.00	2465.40	6687.00	2471.52	2471.52	2472.56	115.96	8.27	822.50	620.98
*	2690.000	370.00	.00	.00	2475.30	3033.00	2480.29	2480.29	2481.42	147.07	8.66	364.27	250.10
*	2690.000	370.00	.00	.00	2475.30	4531.00	2481.26	2481.26	2482.34	188.51	8.47	548.13	330.01
*	2690.000	370.00	.00	.00	2475.30	5307.00	2481.60	2481.60	2482.67	219.56	8.36	642.06	358.16
	690.000	370.00	.00	.00	2475.30	6687.00	2482.09	2482.09	2483.15	244.21	8.20	810.85	427.91
*	2760.000	370.00	.00	.00	2492.10	1225.00	2494.54	2494.54	2495.03	287.57	5.94	217.85	72.24
*	2760.000	370.00	.00	.00	2492.10	1782.00	2494.79	2494.79	2495.48	318.46	7.08	267.09	99.86
*	2760.000	370.00	.00	.00	2492.10	2048.00	2494.92	2494.92	2495.68	309.77	7.40	293.80	116.36
*	2760.000	370.00	.00	.00	2492.10	2512.00	2495.13	2495.13	2496.00	297.90	7.90	337.49	145.54
*	2840.000	420.00	.00	.00	2502.90	1225.00	2508.55	2508.55	2509.22	150.92	7.80	220.18	99.72
*	2840.000	420.00	.00	.00	2502.90	1782.00	2508.92	2508.92	2509.76	169.37	8.92	274.74	136.93
*	2840.000	420.00	.00	.00	2502.90	2048.00	2509.12	2509.12	2510.00	167.25	9.19	303.10	158.36
*	2840.000	420.00	.00	.00	2502.90	2512.00	2509.31	2509.31	2510.39	191.89	10.19	331.71	181.34
*	2900.000	320.00	.00	.00	2511.60	1225.00	2517.34	2517.34	2518.27	51.77	8.54	220.38	170.25
*	2900.000	320.00	.00	.00	2511.60	1782.00	2517.92	2517.92	2518.97	56.44	9.63	311.50	237.21
*	2900.000	320.00	.00	.00	2511.60	2048.00	2518.14	2518.14	2519.25	58.82	10.10	346.48	267.04
*	2900.000	320.00	.00	.00	2511.60	2512.00	2518.50	2518.50	2519.70	61.74	10.79	403.11	319.69
*	3010.000	580.00	.00	.00	2530.40	1225.00	2534.93	2534.93	2535.91	87.96	9.76	188.75	130.61
*	3010.000	580.00	.00	.00	2530.40	1782.00	2535.56	2535.56	2536.67	88.30	10.81	264.96	189.64
*	3010.000	580.00	.00	.00	2530.40	2048.00	2535.83	2535.83	2536.98	86.72	11.15	298.72	219.92
*	3010.000	580.00	.00	.00	2530.40	2512.00	2536.21	2536.21	2537.48	89.22	11.90	345.94	265.94
*	3090.000	420.00	.00	.00	2543.70	790.00	2547.88	2547.88	2549.14	188.37	9.14	91.15	57.56
*	3090.000	420.00	.00	.00	2543.70	1158.00	2548.72	2548.72	2550.16	157.91	9.93	128.16	92.15
*	3090.000	420.00	.00	.00	2543.70	1334.00	2549.03	2549.03	2550.58	156.02	10.39	143.29	106.80
*	3090.000	420.00	.00	.00	2543.70	1639.00	2549.59	2549.59	2551.22	141.42	10.79	174.46	137.82

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3160.000	370.00	.00	.00	2560.80	790.00	2566.22	2566.22	2567.95	159.58	11.13	83.36	62.54
*	3160.000	370.00	.00	.00	2560.80	1158.00	2567.29	2567.29	2569.38	151.37	12.49	112.29	94.12
*	3160.000	370.00	.00	.00	2560.80	1334.00	2567.75	2567.75	2569.99	147.42	13.00	125.85	109.87
*	3160.000	370.00	.00	.00	2560.80	1639.00	2568.48	2568.48	2570.94	142.88	13.80	148.36	137.12
*	3250.000	480.00	.00	.00	2587.90	790.00	2591.35	2591.35	2592.52	213.00	8.71	93.21	54.13
*	3250.000	480.00	.00	.00	2587.90	1158.00	2592.03	2592.03	2593.50	196.69	9.84	124.09	82.57
*	3250.000	480.00	.00	.00	2587.90	1334.00	2592.50	2592.50	2593.90	157.74	9.69	149.77	106.21
*	3250.000	480.00	.00	.00	2587.90	1639.00	2592.99	2592.99	2594.49	146.30	10.16	182.26	135.51
*	3320.000	370.00	.00	.00	2600.00	790.00	2603.70	2603.70	2605.15	194.83	10.06	86.87	56.60
*	3320.000	370.00	.00	.00	2600.00	1158.00	2604.58	2604.58	2606.38	178.10	11.29	115.83	86.77
*	3320.000	370.00	.00	.00	2600.00	1334.00	2604.95	2604.95	2606.90	173.71	11.81	128.67	101.21
*	3320.000	370.00	.00	.00	2600.00	1639.00	2605.57	2605.57	2607.74	165.35	12.56	150.83	127.46
*	3410.000	480.00	.00	.00	2622.20	790.00	2627.50	2627.50	2629.12	204.70	10.51	80.31	55.22
*	3410.000	480.00	.00	.00	2622.20	1158.00	2628.52	2628.52	2630.47	180.29	11.66	108.92	86.24
*	3410.000	480.00	.00	.00	2622.20	1334.00	2628.93	2628.93	2631.04	174.89	12.16	121.57	100.87
*	3410.000	480.00	.00	.00	2622.20	1639.00	2629.60	2629.60	2631.95	167.05	12.92	143.04	126.81
*	3470.000	320.00	.00	.00	2640.00	790.00	2647.10	2647.10	2649.13	180.31	12.32	78.48	58.83
*	3470.000	320.00	.00	.00	2640.00	1158.00	2648.44	2648.44	2650.79	167.10	13.62	109.20	89.58
*	3470.000	320.00	.00	.00	2640.00	1334.00	2648.98	2648.98	2651.47	163.56	14.15	123.14	104.31
*	3470.000	320.00	.00	.00	2640.00	1639.00	2649.83	2649.83	2652.52	158.71	14.95	146.65	130.10
*	3520.000	260.00	.00	.00	2660.30	790.00	2664.66	2664.66	2665.81	175.82	10.93	106.37	59.58
*	3520.000	260.00	.00	.00	2660.30	1158.00	2665.33	2665.33	2666.76	182.12	12.35	136.75	85.81
*	3520.000	260.00	.00	.00	2660.30	1334.00	2665.62	2665.62	2667.18	183.35	12.91	150.26	98.52
*	3520.000	260.00	.00	.00	2660.30	1639.00	2666.10	2666.10	2667.84	183.68	13.73	172.74	120.93
*	3590.000	370.00	.00	.00	2681.80	790.00	2687.67	2687.67	2689.63	180.65	11.59	76.53	58.78
*	3590.000	370.00	.00	.00	2681.80	1158.00	2688.92	2688.92	2691.25	162.41	12.86	105.39	90.87
*	3590.000	370.00	.00	.00	2681.80	1334.00	2689.45	2689.45	2691.93	156.78	13.37	118.68	106.54
*	3590.000	370.00	.00	.00	2681.80	1639.00	2690.24	2690.24	2693.00	152.69	14.26	139.98	132.64
*	3680.000	480.00	.00	.00	2716.20	790.00	2721.86	2721.86	2723.66	147.90	12.76	88.06	64.96
*	3680.000	480.00	.00	.00	2716.20	1158.00	2723.03	2723.03	2725.18	143.83	14.26	117.53	96.56
*	3680.000	480.00	.00	.00	2716.20	1334.00	2723.59	2723.59	2725.79	135.13	14.57	132.68	114.76
*	3680.000	480.00	.00	.00	2716.20	1639.00	2724.25	2724.25	2726.75	139.45	15.67	151.63	138.80
*	3780.000	530.00	.00	.00	2751.60	790.00	2757.33	2757.33	2759.23	169.66	12.24	82.07	60.65
*	3780.000	530.00	.00	.00	2751.60	1158.00	2758.55	2758.55	2760.82	155.73	13.62	112.42	92.79
*	3780.000	530.00	.00	.00	2751.60	1334.00	2759.05	2759.05	2761.48	152.48	14.21	125.97	108.03
*	3780.000	530.00	.00	.00	2751.60	1639.00	2759.71	2759.71	2762.53	159.03	15.46	144.79	129.97
*	3880.000	530.00	.00	.00	2802.10	790.00	2807.20	2807.20	2808.66	190.05	9.84	85.19	57.31
*	3880.000	530.00	.00	.00	2802.10	1158.00	2808.13	2808.13	2809.87	166.51	10.87	118.43	89.74
*	3880.000	530.00	.00	.00	2802.10	1334.00	2808.52	2808.52	2810.36	159.66	11.28	133.83	105.57
*	3880.000	530.00	.00	.00	2802.10	1639.00	2809.13	2809.13	2811.14	150.93	11.91	159.91	133.41

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3940.000	320.00	.00	.00	2815.80	790.00	2821.49	2821.49	2823.08	156.19	11.03	89.80	63.21
*	3940.000	320.00	.00	.00	2815.80	1158.00	2822.56	2822.56	2824.39	142.91	12.13	125.43	96.87
*	3940.000	320.00	.00	.00	2815.80	1334.00	2823.02	2823.02	2824.91	135.90	12.46	142.44	114.43
*	3940.000	320.00	.00	.00	2815.80	1639.00	2823.65	2823.65	2825.71	134.33	13.22	167.30	141.41
*	3980.000	210.00	.00	.00	2833.90	790.00	2839.72	2839.72	2841.18	227.21	9.76	82.30	52.41
*	3980.000	210.00	.00	.00	2833.90	1158.00	2840.62	2840.62	2842.39	196.93	10.80	111.67	82.52
*	3980.000	210.00	.00	.00	2833.90	1334.00	2840.98	2840.98	2842.90	190.11	11.27	124.89	96.75
*	3980.000	210.00	.00	.00	2833.90	1639.00	2841.60	2841.60	2843.70	175.69	11.87	149.10	123.65
*	4050.000	370.00	.00	.00	2860.80	217.00	2863.12	2863.12	2863.91	218.44	7.42	32.67	14.68
*	4050.000	370.00	.00	.00	2860.80	305.00	2863.55	2863.55	2864.49	202.00	8.19	42.82	21.46
*	4050.000	370.00	.00	.00	2860.80	352.00	2863.76	2863.76	2864.77	195.12	8.53	48.09	25.20
*	4050.000	370.00	.00	.00	2860.80	433.00	2864.10	2864.10	2865.21	184.96	9.02	57.04	31.84
*	4160.000	580.00	.00	.00	2922.50	217.00	2925.00	2925.00	2925.54	332.24	5.99	37.40	11.91
*	4160.000	580.00	.00	.00	2922.50	305.00	2925.29	2925.29	2925.93	291.58	6.63	48.29	17.86
*	4160.000	580.00	.00	.00	2922.50	352.00	2925.44	2925.44	2926.12	269.62	6.86	54.22	21.44
*	4160.000	580.00	.00	.00	2922.50	433.00	2925.62	2925.62	2926.43	275.61	7.51	61.45	26.08
*	4250.000	480.00	.00	.00	2965.20	217.00	2968.07	2968.07	2968.64	197.04	6.17	38.52	15.46
*	4250.000	480.00	.00	.00	2965.20	305.00	2968.39	2968.39	2969.05	194.03	6.78	51.08	21.90
*	4250.000	480.00	.00	.00	2965.20	352.00	2968.54	2968.54	2969.25	190.37	7.07	57.11	25.51
*	4250.000	480.00	.00	.00	2965.20	433.00	2968.77	2968.77	2969.56	186.23	7.52	66.92	31.73
*	4350.000	530.00	.00	.00	3038.80	217.00	3042.67	3042.67	3043.72	253.64	8.73	28.28	13.63
*	4350.000	530.00	.00	.00	3038.80	305.00	3043.29	3043.29	3044.48	211.95	9.40	38.78	20.95
*	4350.000	530.00	.00	.00	3038.80	352.00	3043.55	3043.55	3044.83	206.02	9.81	43.69	24.52
*	4350.000	530.00	.00	.00	3038.80	433.00	3043.99	3043.99	3045.37	191.50	10.32	52.70	31.29
*	4440.000	480.00	.00	.00	3132.80	217.00	3136.22	3136.22	3137.10	281.95	7.53	28.81	12.92
*	4440.000	480.00	.00	.00	3132.80	305.00	3136.72	3136.72	3137.73	269.23	8.06	37.83	18.59
*	4440.000	480.00	.00	.00	3132.80	352.00	3136.96	3136.96	3138.02	261.53	8.27	42.59	21.77
*	4440.000	480.00	.00	.00	3132.80	433.00	3137.29	3137.29	3138.47	256.08	8.73	49.60	27.06
*	4530.000	480.00	.00	.00	3241.60	217.00	3245.45	3245.45	3246.42	326.74	8.57	27.89	12.00
*	4530.000	480.00	.00	.00	3241.60	305.00	3246.00	3246.00	3247.12	315.50	9.21	36.48	17.17
*	4530.000	480.00	.00	.00	3241.60	352.00	3246.19	3246.19	3247.46	329.67	9.82	39.72	19.39
*	4530.000	480.00	.00	.00	3241.60	433.00	3246.61	3246.61	3248.00	298.32	10.42	47.21	25.07

WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1520.000	3033.00	2313.70	.00	.00	.00	287.12	.00
	1520.000	4531.00	2314.31	.61	.00	.00	318.39	.00
	1520.000	5307.00	2314.50	.19	.00	.00	328.13	.00
	1520.000	6687.00	2315.05	.55	.00	.00	356.31	.00
*	1600.000	3033.00	2326.94	.00	13.24	.00	429.89	420.00
*	1600.000	4531.00	2327.29	.35	12.98	.00	437.05	420.00
*	1600.000	5307.00	2327.45	.16	12.95	.00	440.28	420.00
*	1600.000	6687.00	2327.77	.32	12.72	.00	446.70	420.00
	1740.000	3033.00	2345.89	.00	18.95	.00	509.63	740.00
	1740.000	4531.00	2346.20	.32	18.91	.00	516.61	740.00
	1740.000	5307.00	2346.35	.15	18.90	.00	520.95	740.00
	1740.000	6687.00	2346.54	.19	18.77	.00	526.68	740.00
*	1830.000	3033.00	2361.20	.00	15.31	.00	537.21	480.00
*	1830.000	4531.00	2361.54	.34	15.34	.00	589.53	480.00
*	1830.000	5307.00	2361.69	.15	15.34	.00	607.71	480.00
	1830.000	6687.00	2362.06	.37	15.53	.00	652.05	480.00
	1940.000	3033.00	2376.15	.00	14.95	.00	293.76	580.00
	1940.000	4531.00	2376.65	.50	15.11	.00	331.72	580.00
	1940.000	5307.00	2376.87	.22	15.17	.00	347.87	580.00
	1940.000	6687.00	2377.06	.19	15.00	.00	362.15	580.00
*	2050.000	3033.00	2392.07	.00	15.92	.00	363.71	580.00
*	2050.000	4531.00	2392.48	.41	15.83	.00	385.18	580.00
*	2050.000	5307.00	2392.69	.21	15.82	.00	396.34	580.00
*	2050.000	6687.00	2392.99	.30	15.93	.00	411.99	580.00
	2140.000	3033.00	2404.75	.00	12.69	.00	142.64	480.00
*	2140.000	4531.00	2405.62	.87	13.15	.00	186.27	480.00
*	2140.000	5307.00	2405.99	.37	13.30	.00	206.17	480.00
*	2140.000	6687.00	2406.58	.59	13.59	.00	235.28	480.00
	2250.000	3033.00	2417.14	.00	12.38	.00	301.96	580.00
	2250.000	4531.00	2417.65	.51	12.02	.00	309.83	580.00
	2250.000	5307.00	2417.88	.23	11.89	.00	311.07	580.00
	2250.000	6687.00	2418.22	.35	11.64	.00	314.18	580.00
*	2370.000	3033.00	2435.53	.00	18.40	.00	204.11	630.00
*	2370.000	4531.00	2436.20	.66	18.55	.00	248.40	630.00
*	2370.000	5307.00	2436.47	.28	18.60	.00	264.41	630.00
*	2370.000	6687.00	2436.92	.45	18.69	.00	290.11	630.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2450.000	3033.00	2445.32	.00	9.79	.00	422.75	420.00
	2450.000	4531.00	2445.72	.40	9.53	.00	424.10	420.00
	2450.000	5307.00	2445.91	.19	9.43	.00	424.71	420.00
	2450.000	6687.00	2446.21	.30	9.29	.00	425.71	420.00
*	2510.000	3033.00	2452.29	.00	6.96	.00	235.69	320.00
*	2510.000	4531.00	2453.02	.74	7.30	.00	298.00	320.00
*	2510.000	5307.00	2453.33	.31	7.43	.00	312.90	320.00
*	2510.000	6687.00	2453.62	.29	7.42	.00	326.64	320.00
*	2570.000	3033.00	2462.73	.00	10.45	.00	319.77	320.00
*	2570.000	4531.00	2463.18	.44	10.15	.00	343.96	320.00
*	2570.000	5307.00	2463.37	.20	10.04	.00	344.29	320.00
*	2570.000	6687.00	2463.70	.33	10.08	.00	344.83	320.00
*	2620.000	3033.00	2470.27	.00	7.54	.00	236.46	260.00
*	2620.000	4531.00	2470.90	.63	7.73	.00	314.60	260.00
*	2620.000	5307.00	2471.30	.40	7.93	.00	453.25	260.00
*	2620.000	6687.00	2471.52	.22	7.82	.00	453.87	260.00
*	2690.000	3033.00	2480.29	.00	10.01	.00	158.76	370.00
*	2690.000	4531.00	2481.26	.97	10.36	.00	242.64	370.00
*	2690.000	5307.00	2481.60	.34	10.30	.00	300.24	370.00
*	2690.000	6687.00	2482.09	.49	10.57	.00	393.20	370.00
*	2760.000	1225.00	2494.54	.00	14.25	.00	200.48	370.00
*	2760.000	1782.00	2494.79	.25	13.53	.00	201.26	370.00
*	2760.000	2048.00	2494.92	.13	13.31	.00	201.68	370.00
*	2760.000	2512.00	2495.13	.22	13.04	.00	202.36	370.00
*	2840.000	1225.00	2508.55	.00	14.01	.00	146.05	420.00
*	2840.000	1782.00	2508.92	.37	14.14	.00	147.44	420.00
*	2840.000	2048.00	2509.12	.19	14.20	.00	148.16	420.00
*	2840.000	2512.00	2509.31	.19	14.17	.00	148.87	420.00
*	2900.000	1225.00	2517.34	.00	8.79	.00	155.66	320.00
*	2900.000	1782.00	2517.92	.58	9.00	.00	157.45	320.00
*	2900.000	2048.00	2518.14	.22	9.03	.00	158.13	320.00
*	2900.000	2512.00	2518.50	.36	9.19	.00	159.22	320.00
*	3010.000	1225.00	2534.93	.00	17.59	.00	119.35	580.00
*	3010.000	1782.00	2535.56	.63	17.63	.00	122.53	580.00
*	3010.000	2048.00	2535.83	.27	17.69	.00	123.92	580.00
*	3010.000	2512.00	2536.21	.38	17.71	.00	125.83	580.00
*	3090.000	790.00	2547.88	.00	12.95	.00	39.08	420.00
*	3090.000	1158.00	2548.72	.85	13.17	.00	48.43	420.00
*	3090.000	1334.00	2549.03	.30	13.20	.00	51.79	420.00
*	3090.000	1639.00	2549.59	.57	13.39	.00	58.10	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3160.000	790.00	2566.22	.00	18.34	.00	25.49	370.00
*	3160.000	1158.00	2567.29	1.07	18.57	.00	28.61	370.00
*	3160.000	1334.00	2567.75	.46	18.73	.00	29.96	370.00
*	3160.000	1639.00	2568.48	.73	18.89	.00	32.07	370.00
*	3250.000	790.00	2591.35	.00	25.13	.00	43.40	480.00
*	3250.000	1158.00	2592.03	.68	24.74	.00	48.03	480.00
*	3250.000	1334.00	2592.50	.47	24.75	.00	65.12	480.00
*	3250.000	1639.00	2592.99	.49	24.51	.00	67.37	480.00
*	3320.000	790.00	2603.70	.00	12.35	.00	31.64	370.00
*	3320.000	1158.00	2604.58	.88	12.56	.00	34.18	370.00
*	3320.000	1334.00	2604.95	.37	12.45	.00	35.24	370.00
*	3320.000	1639.00	2605.57	.61	12.57	.00	37.01	370.00
*	3410.000	790.00	2627.50	.00	23.79	.00	26.54	480.00
*	3410.000	1158.00	2628.52	1.02	23.93	.00	29.68	480.00
*	3410.000	1334.00	2628.93	.42	23.98	.00	30.96	480.00
*	3410.000	1639.00	2629.60	.67	24.04	.00	33.03	480.00
*	3470.000	790.00	2647.10	.00	19.60	.00	21.03	320.00
*	3470.000	1158.00	2648.44	1.34	19.92	.00	24.85	320.00
*	3470.000	1334.00	2648.98	.54	20.05	.00	26.40	320.00
*	3470.000	1639.00	2649.83	.85	20.23	.00	28.83	320.00
*	3520.000	790.00	2664.66	.00	17.57	.00	44.21	260.00
*	3520.000	1158.00	2665.33	.67	16.90	.00	46.16	260.00
*	3520.000	1334.00	2665.62	.29	16.64	.00	47.00	260.00
*	3520.000	1639.00	2666.10	.47	16.26	.00	48.36	260.00
*	3590.000	790.00	2687.67	.00	23.01	.00	21.53	370.00
*	3590.000	1158.00	2688.92	1.25	23.59	.00	24.62	370.00
*	3590.000	1334.00	2689.45	.53	23.82	.00	25.91	370.00
*	3590.000	1639.00	2690.24	.79	24.14	.00	27.87	370.00
*	3680.000	790.00	2721.86	.00	34.19	.00	23.91	480.00
*	3680.000	1158.00	2723.03	1.17	34.11	.00	26.48	480.00
*	3680.000	1334.00	2723.59	.56	34.14	.00	27.81	480.00
*	3680.000	1639.00	2724.25	.66	34.01	.00	29.44	480.00
*	3780.000	790.00	2757.33	.00	35.46	.00	23.16	530.00
*	3780.000	1158.00	2758.55	1.22	35.52	.00	26.41	530.00
*	3780.000	1334.00	2759.05	.50	35.46	.00	27.74	530.00
*	3780.000	1639.00	2759.71	.66	35.46	.00	29.49	530.00
*	3880.000	790.00	2807.20	.00	49.87	.00	32.79	530.00
*	3880.000	1158.00	2808.13	.93	49.58	.00	38.45	530.00
*	3880.000	1334.00	2808.52	.39	49.47	.00	40.81	530.00
*	3880.000	1639.00	2809.13	.61	49.42	.00	44.52	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3940.000	790.00	2821.49	.00	14.29	.00	30.43	320.00
*	3940.000	1158.00	2822.56	1.07	14.43	.00	35.85	320.00
*	3940.000	1334.00	2823.02	.46	14.50	.00	38.11	320.00
*	3940.000	1639.00	2823.65	.63	14.52	.00	41.16	320.00
*	3980.000	790.00	2839.72	.00	18.23	.00	30.18	210.00
*	3980.000	1158.00	2840.62	.90	18.05	.00	35.22	210.00
*	3980.000	1334.00	2840.98	.36	17.96	.00	37.32	210.00
*	3980.000	1639.00	2841.60	.62	17.95	.00	40.88	210.00
*	4050.000	217.00	2863.12	.00	23.40	.00	22.20	370.00
*	4050.000	305.00	2863.55	.43	22.93	.00	24.57	370.00
*	4050.000	352.00	2863.76	.21	22.78	.00	25.71	370.00
*	4050.000	433.00	2864.10	.34	22.50	.00	27.54	370.00
*	4160.000	217.00	2925.00	.00	61.89	.00	37.76	580.00
*	4160.000	305.00	2925.29	.28	61.74	.00	39.12	580.00
*	4160.000	352.00	2925.44	.15	61.68	.00	39.84	580.00
*	4160.000	433.00	2925.62	.18	61.52	.00	40.71	580.00
*	4250.000	217.00	2968.07	.00	43.06	.00	37.62	480.00
*	4250.000	305.00	2968.39	.32	43.11	.00	39.97	480.00
*	4250.000	352.00	2968.54	.15	43.10	.00	41.33	480.00
*	250.000	433.00	2968.77	.23	43.16	.00	43.45	480.00
*	4350.000	217.00	3042.67	.00	74.60	.00	15.21	530.00
*	4350.000	305.00	3043.29	.63	74.90	.00	18.23	530.00
*	4350.000	352.00	3043.55	.26	75.01	.00	19.49	530.00
*	4350.000	433.00	3043.99	.44	75.22	.00	21.60	530.00
*	4440.000	217.00	3136.22	.00	93.55	.00	16.84	480.00
*	4440.000	305.00	3136.72	.50	93.43	.00	19.30	480.00
*	4440.000	352.00	3136.96	.24	93.40	.00	20.48	480.00
*	4440.000	433.00	3137.29	.33	93.30	.00	21.87	480.00
*	4530.000	217.00	3245.45	.00	109.23	.00	14.50	480.00
*	4530.000	305.00	3246.00	.55	109.28	.00	16.58	480.00
*	4530.000	352.00	3246.19	.19	109.23	.00	17.26	480.00
*	4530.000	433.00	3246.61	.42	109.32	.00	18.66	480.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   3980.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3980.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3980.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3980.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3980.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3980.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3980.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3980.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3980.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3980.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4050.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4050.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4050.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4050.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4050.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4050.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4050.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4050.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4050.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4050.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4050.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4050.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4160.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
```

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 ON SECNO=   4160.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4160.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4160.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4160.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4160.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4160.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4160.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4160.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4160.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4250.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4250.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4250.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4250.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4250.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4250.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4250.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4250.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4250.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4250.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4250.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4250.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4350.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
   ON SECNO=   4350.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
  .ON SECNO=   4350.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4350.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4350.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4350.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4350.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4350.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4350.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4350.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4350.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4350.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4440.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4440.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4440.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4440.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4440.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4440.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4440.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4440.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4440.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4440.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4440.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4440.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4530.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
   ON SECNO=   4530.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
  ION SECNO=   4530.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4530.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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C[illegible] I SECNO=   4530.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4530.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4530.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4530.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4530.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4530.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4530.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4530.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

Stop - Program terminated.

Stop - Program terminated.
```

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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  ATED:  SEPTEMBER 1989                              *
*  RUN DATE     2/26/90    TIME    16:21:27           *
*******************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

ROT1 .OUT

100 YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:21:27

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH, TRIB. 1  (ROT1.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .020                           2533.19

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      435      624      714      872

NC    .055     .055     .045       .1       .3

          *****REVISED STREAMFLOWS FROM CVCRK43R.OUT (HEC-1 ; CH2M)******
          COMMON SECTION IS SEC. 3010 FROM ROWE WASH (RO.DAT)
          SEC. 000 = 3040 OF ROWE WASH
          ALL FLOW IS FROM SUBWATERSHED "H1C".
          STARTING W.S. ELEV. IS COMPUTED BY SLOPE AREA METHOD AT ROWE
X1    3010       11    9991.2   10009.3
GR  2550.6   9929.2   2533.2    9961.3   2533.2    9973.2   2530.4    9991.2   2531.3   10000.0
GR  2531.3  10009.3   2534.2   10019.7   2534.9   10046.5   2534.5   10076.1   2538.3   10088.3
GR  2555.3  10124.6


X1      70       10    9995.5   10026.1      550       510       530
GR  2575.1   9911.7   2558.7    9954.8   2555.0    9968.7   2552.7    9995.5   2552.4   10000.0
    2555.5  10026.1   2555.4   10039.2   2554.7   10061.7   2553.7   10086.0   2574.6   10108.8
```

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X1     160       11     9984.1   10000.0      470      490      480
GR  2594.3   9942.3    2581.8    9965.2   2581.6   9966.2   2577.8   9984.1   2575.6   9990.8
GR  2576.2  10000.0    2579.0   10012.0   2580.1  10057.5   2581.9  10070.3   2593.1  10089.2
GR  2602.2  10103.8

X1     230        8     9989.2   10000.0      390      350      370
GR  2614.2   9948.4    2599.6    9979.4   2595.8   9989.2   2594.9   9995.1   2597.2  10000.0
GR  2601.3  10008.1    2619.8   10025.1   2624.8  10032.6

X1     290        8     9981.8   10014.3      320      320      320
GR  2652.6   9931.1    2640.4    9963.2   2634.1   9981.8   2630.2   9998.6   2629.7  10000.0
GR  2635.2  10014.3    2642.6   10057.3   2649.1  10072.4

X1     400        9    10000.0   10033.5      590      570      580
GR  2693.4   9939.8    2680.1    9972.8   2678.9  10000.0   2674.2  10015.4   2673.5  10017.0
GR  2677.4  10033.5    2680.4   10044.3   2696.5  10077.3   2699.0  10081.9

X1     490        7     9987.9   10024.7      480      480      480
GR  2752.0   9951.2    2735.2    9987.9   2730.8   9999.2   2731.5  10000.0   2732.4  10010.4
GR  2735.9  10024.7    2754.2   10057.6

NC     .05      .05      .045

X1     590        9     9988.3   10010.6      520      540      530
GR  2794.2   9950.6    2782.6    9970.7   2770.6   9988.3   2766.6   9995.0   2768.4   9999.8
GR  2767.8  10000.0    2777.3   10010.6   2794.7  10034.4   2797.9  10046.7

X1     690        9     9988.7   10000.0      530      530      530
GR  2852.9   9931.4    2849.6    9936.2   2848.2   9955.3   2842.6   9965.6   2841.0   9976.5
GR  2833.3   9988.7    2828.9   10000.0   2842.2  10009.9   2858.0  10036.1

NC    .045     .045      .045

X1     780       15     9985.7   10000.0      480      480      480
GR  2914.3   9919.7    2908.4    9936.0   2903.1   9941.8   2903.6   9955.6   2899.4   9961.7
GR  2892.9   9978.4    2890.6    9985.7   2886.8   9995.8   2888.1  10000.0   2895.1  10013.6
GR  2895.1  10013.9    2901.0   10023.8   2903.5  10035.1   2911.9  10044.8   2915.9  10051.1

X1     850        6     9999.8   10020.7      370      370      370
GR  2965.3   9953.3    2951.2    9982.3   2941.1   9999.8   2943.2  10000.0   2948.3  10020.7
GR  2942.4  10042.0
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  CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 3010.000
          *****REVISED STREAMFLOWS FROM CVCRK43R.OUT (HEC-1 ; CH2M)******
          COMMON SECTION IS SEC. 3010 FROM ROWE WASH (RO.DAT)
          SEC. 000 = 3040 OF ROWE WASH
          ALL FLOW IS FROM SUBWATERSHED "H1C".
          STARTING W.S. ELEV. IS COMPUTED BY SLOPE AREA METHOD AT ROWE
 3010.000     2.79  2533.19      .00  2533.19  2533.91      .72      .00      .00  2530.40
    435.      119.     293.      23.      25.      38.       6.       0.       0.   2531.30
     .00     4.74     7.68     3.60     .055     .045     .055     .000  2530.40  9973.26
  .020091       0.       0.       0.        0        0        0      .00    42.81 10016.08


*SECNO 70.000

3265 DIVIDED FLOW

     MINIMUM SPECIFIC ENERGY
3    CRITICAL DEPTH ASSUMED
   70.000     2.52  2554.92  2554.92      .00  2555.41      .49    11.68      .02  2552.70
    435.      129.     245.      62.      29.      37.      19.       1.       1.   2555.50
     .03     4.47     6.53     3.22     .055     .045     .055     .000  2552.40  9969.61
  .023942     550.     530.     510.        9       12        0      .00    84.38 10087.33


*SECNO 160.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     3.22  2578.82  2578.82      .00  2579.87     1.06    10.70      .17  2577.80
    435.        6.     362.      67.       2.      41.      15.       2.       1.   2576.20
     .04     2.45     8.82     4.58     .055     .045     .055     .000  2575.60  9979.31
  .020813     470.     480.     490.       10       11        0      .00    31.90 10011.21


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
230.000	4.15	2599.05	2599.05	.00	2600.34	1.28	7.26	.07	2595.80
435.	66.	358.	11.	14.	37.	3.	2.	2.	2597.20
.06	4.86	9.79	3.24	.055	.045	.055	.000	2594.90	9980.81
.018545	390.	370.	350.	20	11	0	.00	22.84	10003.66

*SECNO 290.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

290.000	4.06	2633.76	2633.76	.00	2634.77	1.00	6.88	.03	2634.10
435.	0.	435.	0.	0.	54.	0.	3.	2.	2635.20
.07	.00	8.03	.00	.000	.045	.000	.000	2629.70	9983.25
.025216	320.	320.	320.	20	8	0	.00	27.31	10010.56

*SECNO 400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

400.000	3.89	2677.39	2677.39	.00	2678.38	.99	14.88	.00	2678.90
435.	0.	435.	0.	0.	54.	0.	3.	2.	2677.40
.09	.00	8.00	.00	.000	.045	.000	.000	2673.50	10004.95
.026101	590.	580.	570.	20	11	0	.00	28.51	10033.46

*SECNO 490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

490.000	3.67	2734.47	2734.47	.00	2735.44	.97	12.51	.00	2735.20
435.	0.	435.	0.	0.	55.	0.	4.	3.	2735.90
.10	.00	7.92	.00	.000	.045	.000	.000	2730.80	9989.77
.026014	480.	480.	480.	20	11	0	.00	29.09	10018.86

*SECNO 590.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

590.000	4.79	2771.39	2771.39	.00	2772.82	1.42	13.89	.14	2770.60
435.	1.	434.	0.	0.	45.	0.	5.	3.	2777.30
.12	2.29	9.59	.00	.050	.045	.000	.000	2766.60	9987.14
.026414	520.	530.	540.	20	11	0	.00	16.87	10004.01

:NO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

690.000	5.31	2834.21	2834.21	.00	2835.74	1.52	13.38	.03	2833.30
435.	2.	367.	66.	1.	35.	11.	5.	3.	2828.90
.13	2.45	10.44	6.28	.050	.045	.050	.000	2828.90	9987.25
.024136	530.	530.	530.	20	8	0	.00	16.70	10003.96

*SECNO 780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

780.000	4.38	2891.18	2891.18	.00	2892.42	1.24	10.90	.03	2890.60
435.	1.	379.	55.	1.	41.	9.	6.	3.	2888.10
.15	2.05	9.32	5.95	.045	.045	.045	.000	2886.80	9983.87
.021404	480.	480.	480.	20	15	0	.00	22.11	10005.98

J 850.000

3265 DIVIDED FLOW

3280 CROSS SECTION 850.00 EXTENDED 3.51 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

850.000	4.80	2945.91	2945.91	.00	2946.81	.91	9.70	.03	2941.10
435.	171.	103.	161.	20.	16.	22.	6.	3.	2948.30
.16	8.55	6.62	7.25	.045	.045	.045	.000	2941.10	9991.47
.032841	370.	370.	370.	20	8	0	.00	32.16	10042.00

```
     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   ROWE WASH, TRIBUTARY 1  (ROT1.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                    .020                            2533.61

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    2                -1
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```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 3010.000
3720 CRITICAL DEPTH ASSUMED
          *****REVISED STREAMFLOWS FROM CVCRK43R.OUT (HEC-1 ; CH2M)******
          COMMON SECTION IS SEC. 3010 FROM ROWE WASH (RO.DAT)
          SEC. 000 = 3040 OF ROWE WASH
          ALL FLOW IS FROM SUBWATERSHED "H1C".
          STARTING W.S. ELEV. IS COMPUTED BY SLOPE AREA METHOD AT ROWE
 3010.000     3.22  2533.62  2533.62  2533.61  2534.47      .85      .00      .00  2530.40
    624.      193.     392.      39.      38.      46.      10.       0.       0.   2531.30
     .00     5.07     8.51     4.04     .055     .045     .055     .000  2530.40  9960.52
  .019196       0.       0.       0.        0        4        0      .00    57.12 10017.64


*SECNO 70.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.83  2555.23  2555.23      .00  2555.78      .54    11.26      .03  2552.70
    624.      189.     317.     117.      37.      46.      31.       1.       1.   2555.50
     .03     5.10     6.92     3.78     .055     .045     .055     .000  2552.40  9967.82
  .023284     550.     530.     510.       10       12        0      .00    99.16 10087.67


*SECNO 160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.04  2579.64  2579.64      .00  2580.56      .92     8.41      .11  2577.80
    624.       24.     466.     135.       8.      54.      33.       2.       2.   2576.20
     .04     2.94     8.60     4.09     .055     .045     .055     .000  2575.60  9975.42
  .013649     470.     480.     490.       13       11        0      .00    63.13 10038.56


*SECNO 230.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  230.000     4.98  2599.88  2599.88      .00  2601.30     1.43     5.47      .15  2595.80
    624.      117.     480.      27.      21.      45.       7.       3.       2.   2597.20
     .05     5.48    10.55     3.86     .055     .045     .055     .000  2594.90  9978.82
  .016113     390.     370.     350.       20       11        0      .00    26.47 10005.29


*SECNO 290.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  290.000     4.63  2634.33  2634.33      .00  2635.54     1.21     6.28      .02  2634.10
    624.        0.     624.       0.       0.      71.       0.       4.       2.   2635.20
     .06      .04     8.83      .00     .055     .045     .000     .000  2629.70  9981.11
  .024448     320.     320.     320.       20       11        0      .00    30.93 10012.04


*SECNO 400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  400.000     4.49  2677.99  2677.99      .00  2679.15     1.16    13.70      .01  2678.90
    624.        0.     623.       1.       0.      72.       1.       5.       3.   2677.40
     .08      .00     8.63     1.77     .000     .045     .055     .000  2673.50 10002.97
  .022830     590.     580.     570.       20        8        0      .00    32.66 10035.63


*SECNO 490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  490.000     4.25  2735.05  2735.05      .00  2736.19     1.13    11.36      .00  2735.20
    624.        0.     624.       0.       0.      73.       0.       5.       3.   2735.90
     .10      .00     8.55      .00     .000     .045     .000     .000  2730.80  9988.28
  .024561     480.     480.     480.       20       11        0      .00    32.96 10021.24


*SECNO 590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
  590.000     5.64  2772.24  2772.24      .00  2773.92     1.68    12.87      .16  2770.60
     624.       7.     617.       0.       2.      59.       0.       6.       4.   2777.30
      .11     3.56    10.46      .00     .050     .045     .000     .000  2766.60  9985.89
  .024031     520.     530.     540.       20       11        0      .00    19.07 10004.96


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     6.20  2835.10  2835.10      .00  2836.93     1.83    11.92      .04  2833.30
     624.       9.     522.      93.       3.      45.      14.       7.       4.   2828.90
      .13     3.60    11.53     6.51     .050     .045     .050     .000  2828.90  9985.85
  .021095     530.     530.     530.       20        8        0      .00    18.77 10004.62


*SECNO 780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
  780.000     5.13  2891.93  2891.93      .00  2893.37     1.44     9.52      .04  2890.60
     624.       9.     523.      92.       3.      51.      14.       8.       4.   2888.10
      .14     3.33    10.17     6.43     .045     .045     .045     .000  2886.80  9981.48
  .018672     480.     480.     480.       20       15        0      .00    25.95 10007.44


*SECNO 850.000

3265 DIVIDED FLOW

3280 CROSS SECTION    850.00 EXTENDED      4.03 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  850.000     5.33  2946.43  2946.43      .00  2947.50     1.07     8.92      .04  2941.10
     624.     227.     165.     232.      25.      22.      29.       8.       4.   2948.30
      .15     9.21     7.48     7.90     .045     .045     .045     .000  2941.10  9990.56
  .032347     370.     370.     370.       20        8        0      .00    37.13 10042.00
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH, TRIBUTARY 1  (ROT1.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                         .020                                2533.80

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                 -1
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 3010.000
3720 CRITICAL DEPTH ASSUMED
          *****REVISED STREAMFLOWS FROM CVCRK43R.OUT (HEC-1 ; CH2M)******
          COMMON SECTION IS SEC. 3010 FROM ROWE WASH (RO.DAT)
          SEC. 000 = 3040 OF ROWE WASH
          ALL FLOW IS FROM SUBWATERSHED "H1C".
          STARTING W.S. ELEV. IS COMPUTED BY SLOPE AREA METHOD AT ROWE
 3010.000     3.39  2533.79  2533.79  2533.80  2534.70      .91      .00      .00  2530.40
    714.     230.     437.      47.      43.      49.      11.       0.       0.   2531.30
     .00     5.33     8.91     4.24     .055     .045     .055     .000  2530.40  9960.21
  .019332      0.       0.       0.        0        5        0      .00    58.02 10018.23


*SECNO 70.000

3265 DIVIDED FLOW

   MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.95  2555.35  2555.35      .00  2555.93      .57    11.32      .03  2552.70
    714.     218.     351.     145.      41.      49.      36.       1.       1.   2555.50
     .02     5.39     7.11     3.99     .055     .045     .055     .000  2552.40  9967.37
  .023401    550.     530.     510.       11       12        0      .00   104.58 10087.80


*SECNO 160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.30  2579.90  2579.90      .00  2580.80      .91     8.13      .10  2577.80
    714.      32.     508.     174.      10.      58.      44.       3.       2.   2576.20
     .04     3.11     8.74     3.93     .055     .045     .055     .000  2575.60  9974.23
  .012800    470.     480.     490.       20       11        0      .00    74.82 10049.05


*SECNO 230.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     5.27  2600.17  2600.17      .00  2601.69     1.52     5.27      .18  2595.80
     714.     144.     534.      36.      25.      49.       9.       4.       2.   2597.20
      .05     5.89    10.98     4.12     .055     .045     .055     .000  2594.90  9978.20
  .015968     390.     370.     350.       20       11        0      .00    27.67 10005.86


*SECNO 290.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  290.000     4.88  2634.58  2634.58      .00  2635.87     1.29     6.14      .02  2634.10
     714.       1.     713.       0.       0.      78.       0.       4.       3.   2635.20
      .06     1.54     9.12      .00     .055     .045     .000     .000  2629.70  9980.39
  .023501     320.     320.     320.       20       11        0      .00    32.29 10012.68


*SECNO 400.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  400.000     4.74  2678.24  2678.24      .00  2679.47     1.23    13.18      .01  2678.90
     714.       0.     711.       3.       0.      80.       1.       5.       3.   2677.40
      .08      .00     8.91     2.19     .000     .045     .055     .000  2673.50 10002.16
  .022001     590.     580.     570.       20        8        0      .00    34.37 10036.53


*SECNO 490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  490.000     4.48  2735.28  2735.28      .00  2736.50     1.22    11.08      .00  2735.20
     714.       0.     714.       0.       0.      81.       0.       6.       3.   2735.90
      .10      .04     8.85      .00     .055     .045     .000     .000  2730.80  9987.72
  .024258     480.     480.     480.       20       11        0      .00    34.45 10022.17


*SECNO 590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  590.000     6.00  2772.60  2772.60      .00  2774.39     1.78    12.59      .17  2770.60
     714.      12.     702.       0.       3.      65.       0.       7.       4.  2777.30
      .11     4.00    10.79      .00     .050     .045     .000     .000  2766.60  9985.36
  .023272     520.     530.     540.       20       11        0      .00    20.00 10005.36


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     6.58  2835.48  2835.48      .00  2837.43     1.95    11.45      .05  2833.30
     714.      15.     592.     107.       4.      50.      16.       8.       4.  2828.90
      .12     3.99    11.96     6.61     .050     .045     .050     .000  2828.90  9985.24
  .020093     530.     530.     530.       20        8        0      .00    19.66 10004.90


*SECNO 780.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     5.45  2892.25  2892.25      .00  2893.76     1.52     9.06      .04  2890.60
     714.      16.     587.     110.       4.      56.      17.       9.       4.  2888.10
      .14     3.74    10.50     6.62     .045     .045     .045     .000  2886.80  9980.48
  .017762     480.     480.     480.       20       15        0      .00    27.58 10008.05


*SECNO 850.000

3265 DIVIDED FLOW

3280 CROSS SECTION    850.00 EXTENDED      4.26 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  850.000     5.56  2946.66  2946.66      .00  2947.78     1.12     8.59      .04  2941.10
     714.     252.     196.     266.      27.      25.      33.       9.       5.  2948.30
      .15     9.40     7.77     8.10     .045     .045     .045     .000  2941.10  9990.16
  .031598     370.     370.     370.       20        8        0      .00    39.29 10042.00
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T       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH, TRIBUTARY 1  (ROT1.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                5                         .020                                2534.05

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 3010.000
3720 CRITICAL DEPTH ASSUMED
          *****REVISED STREAMFLOWS FROM CVCRK43R.OUT (HEC-1 ; CH2M)******
          COMMON SECTION IS SEC. 3010 FROM ROWE WASH (RO.DAT)
          SEC. 000 = 3040 OF ROWE WASH
          ALL FLOW IS FROM SUBWATERSHED "H1C".
          STARTING W.S. ELEV. IS COMPUTED BY SLOPE AREA METHOD AT ROWE
 3010.000     3.67  2534.07  2534.07  2534.05  2535.08     1.01      .00      .00  2530.40
    872.      298.     512.      62.      52.      54.      14.       0.       0.   2531.30
     .00     5.75     9.46     4.53     .055     .045     .055     .000  2530.40  9959.70
  .019143      0.       0.       0.        0        4        0      .00    59.53 10019.23


*SECNO 70.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.17  2555.57  2555.57      .00  2556.16      .60    10.92      .04  2552.70
    872.      265.     406.     201.      47.      56.      48.       2.       1.   2555.50
     .02     5.67     7.27     4.16     .055     .045     .055     .000  2552.40  9966.56
  .021928     550.     530.     510.       12       10        0      .00   121.47 10088.04


*SECNO 160.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  160.000     4.68  2580.28  2580.28      .00  2581.15      .87     7.43      .08  2577.80
    872.       48.     569.     255.      15.      64.      66.       3.       2.   2576.20
     .04     3.29     8.84     3.89     .055     .045     .055     .000  2575.60  9972.40
  .011472     470.     480.     490.       20       11        0      .00    86.40 10058.80


*SECNO 230.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     5.74  2600.64  2600.64      .00  2602.32     1.67     4.92      .24  2595.80
    872.      194.     626.      53.      30.      54.      12.       4.       3.   2597.20
     .05     6.46    11.64     4.50     .055     .045     .055     .000  2594.90  9977.18
    674      390.     370.     350.       20       11        0      .00    29.62 10006.80
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 290.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

290.000	5.28	2634.98	2634.98	.00	2636.40	1.42	5.91	.03	2634.10
872.	3.	869.	0.	1.	91.	0.	5.	3.	2635.20
.06	2.25	9.56	.00	.055	.045	.000	.000	2629.70	9979.19
.022114	320.	320.	320.	20	15	0	.00	34.54	10013.73

*SECNO 400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

400.000	5.14	2678.64	2678.64	.00	2679.98	1.34	12.47	.01	2678.90
872.	0.	864.	8.	0.	93.	3.	6.	3.	2677.40
.08	.00	9.33	2.77	.000	.045	.055	.000	2673.50	10000.85
.020905	590.	580.	570.	20	8	0	.00	37.12	10037.97

*SECNO 490.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

490.000	4.87	2735.67	2735.67	.00	2737.00	1.33	10.50	.00	2735.20
872.	0.	872.	0.	0.	94.	0.	7.	4.	2735.90
.09	1.45	9.26	.00	.055	.045	.000	.000	2730.80	9986.88
.022920	480.	480.	480.	20	11	0	.00	36.86	10023.74

*SECNO 590.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

590.000	6.58	2773.18	2773.18	.00	2775.12	1.94	11.97	.18	2770.60
872.	23.	849.	0.	5.	75.	0.	8.	4.	2777.30
.11	4.63	11.31	.00	.050	.045	.000	.000	2766.60	9984.51
.022273	520.	530.	540.	20	11	0	.00	21.49	10006.00

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 690.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  690.000     7.20  2836.10  2836.10      .00  2838.24     2.14    10.81      .06  2833.30
     872.      28.     713.     131.       6.      57.      19.       9.       4.   2828.90
      .12     4.56    12.62     6.78     .050     .045     .050     .000  2828.90  9984.26
  .018758     530.     530.     530.       20        8        0      .00    21.10 10005.36


*SECNO 780.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     5.98  2892.78  2892.78      .00  2894.38     1.60     8.35      .05  2890.60
     872.      33.     694.     146.       8.      64.      21.      10.       5.   2888.10
      .13     4.31    10.91     6.84     .045     .045     .045     .000  2886.80  9978.78
    .6165     480.     480.     480.       20       15        0      .00    30.32 10009.09


*SECNO 850.000

3265 DIVIDED FLOW

3280 CROSS SECTION    850.00 EXTENDED      4.62 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  850.000     5.92  2947.02  2947.02      .00  2948.23     1.21     8.05      .04  2941.10
     872.     296.     252.     325.      30.      31.      39.      11.       5.   2948.30
      .15     9.74     8.23     8.44     .045     .045     .045     .000  2941.10  9989.54
  .030823     370.     370.     370.       20        5        0      .00    42.63 10042.00
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THIS RUN EXECUTED 2/26/90 16:21:54

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HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -

****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

ROWE WASH, TRIB. 1 (ROT

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	3010.000	2533.19	435.00	2.79	4.74	7.68	3.60	118.68	293.28	23.04	42.81	200.91	.00
*	3010.000	2533.62	624.00	3.22	5.07	8.51	4.04	193.06	391.82	39.12	57.12	191.96	.00
*	3010.000	2533.79	714.00	3.39	5.33	8.91	4.24	230.22	436.65	47.13	58.02	193.32	.00
	3010.000	2534.07	872.00	3.67	5.75	9.46	4.53	298.09	511.64	62.26	59.53	191.43	.00
*	70.000	2554.92	435.00	2.52	4.47	6.53	3.22	128.63	244.66	61.71	84.38	239.42	21.73
*	70.000	2555.23	624.00	2.83	5.10	6.92	3.78	189.47	317.29	117.24	99.16	232.84	21.61
*	70.000	2555.35	714.00	2.95	5.39	7.11	3.99	218.22	350.64	145.13	104.58	234.01	21.56
*	70.000	2555.57	872.00	3.17	5.67	7.27	4.16	264.72	405.85	201.43	121.47	219.28	21.50
*	160.000	2578.82	435.00	3.22	2.45	8.82	4.58	5.95	361.85	67.20	31.90	208.13	23.89
*	160.000	2579.64	624.00	4.04	2.94	8.60	4.09	23.53	465.53	134.94	63.13	136.49	24.41
*	160.000	2579.90	714.00	4.30	3.11	8.74	3.93	32.14	508.18	173.68	74.82	128.00	24.54
*	160.000	2580.28	872.00	4.68	3.29	8.84	3.89	47.83	568.92	255.25	86.40	114.72	24.71
*	230.000	2599.05	435.00	4.15	4.86	9.79	3.24	66.21	357.81	10.97	22.84	185.45	20.24
*	230.000	2599.88	624.00	4.98	5.48	10.55	3.86	117.18	479.52	27.29	26.47	161.13	20.23
*	230.000	2600.17	714.00	5.27	5.89	10.98	4.12	144.36	533.83	35.81	27.67	159.68	20.27
*	230.000	2600.64	872.00	5.74	6.46	11.64	4.50	193.72	625.50	52.78	29.62	156.74	20.36
*	290.000	2633.76	435.00	4.06	.00	8.03	.00	.00	435.00	.00	27.31	252.16	34.71
*	290.000	2634.33	624.00	4.63	.04	8.83	.00	.00	623.99	.00	30.93	244.48	34.46
*	290.000	2634.58	714.00	4.88	1.54	9.12	.00	.52	713.48	.00	32.29	235.01	34.41
*	290.000	2634.98	872.00	5.28	2.25	9.56	.00	2.58	869.42	.00	34.54	221.14	34.34
*	400.000	2677.39	435.00	3.89	.00	8.00	.00	.00	435.00	.00	28.51	261.01	43.63
*	400.000	2677.99	624.00	4.49	.00	8.63	1.77	.00	622.88	1.12	32.66	228.30	43.66
*	400.000	2678.24	714.00	4.74	.00	8.91	2.19	.00	711.20	2.79	34.37	220.01	43.66
*	400.000	2678.64	872.00	5.14	.00	9.33	2.77	.00	864.31	7.69	37.12	209.05	43.66
	490.000	2734.47	435.00	3.67	.00	7.92	.00	.00	435.00	.00	29.09	260.14	57.08
*	490.000	2735.05	624.00	4.25	.00	8.55	.00	.00	624.00	.00	32.96	245.61	57.06
*	490.000	2735.28	714.00	4.48	.04	8.85	.00	.00	714.00	.00	34.45	242.58	57.04
*	490.000	2735.67	872.00	4.87	1.45	9.26	.00	.34	871.66	.00	36.86	229.20	57.02

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	590.000	2771.39	435.00	4.79	2.29	9.59	.00	1.06	433.94	.00	16.87	264.14	36.92
*	590.000	2772.24	624.00	5.64	3.56	10.46	.00	7.04	616.96	.00	19.07	240.31	37.19
*	590.000	2772.60	714.00	6.00	4.00	10.79	.00	11.75	702.25	.00	20.00	232.72	37.32
*	590.000	2773.18	872.00	6.58	4.63	11.31	.00	22.61	849.39	.00	21.49	222.73	37.52
*	690.000	2834.21	435.00	5.31	2.45	10.44	6.28	1.62	367.35	66.03	16.70	241.36	62.82
*	690.000	2835.10	624.00	6.20	3.60	11.53	6.51	9.26	521.57	93.17	18.77	210.95	62.86
*	690.000	2835.48	714.00	6.58	3.99	11.96	6.61	15.07	592.31	106.62	19.66	200.93	62.88
*	690.000	2836.10	872.00	7.20	4.56	12.62	6.78	28.30	712.89	130.81	21.10	187.58	62.92
*	780.000	2891.18	435.00	4.38	2.05	9.32	5.95	1.08	379.12	54.79	22.11	214.04	56.96
*	780.000	2891.93	624.00	5.13	3.33	10.17	6.43	9.32	523.10	91.58	25.95	186.72	56.83
*	780.000	2892.25	714.00	5.45	3.74	10.50	6.62	16.10	587.44	110.46	27.58	177.62	56.76
*	780.000	2892.78	872.00	5.98	4.31	10.91	6.84	32.53	693.83	145.64	30.32	161.65	56.68
*	850.000	2945.91	435.00	4.80	8.55	6.62	7.25	171.01	103.25	160.74	32.16	328.41	54.73
*	850.000	2946.43	624.00	5.33	9.21	7.48	7.90	226.88	165.10	232.01	37.13	323.47	54.51
*	850.000	2946.66	714.00	5.56	9.40	7.77	8.10	252.08	196.08	265.83	39.29	315.98	54.42
*	850.000	2947.02	872.00	5.92	9.74	8.23	8.44	295.51	251.53	324.96	42.63	308.23	54.24

WASH, TRIB. 1 (ROT

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	3010.000	.00	.00	.00	2530.40	435.00	2533.19	.00	2533.91	200.91	7.68	69.59	30.69
*	3010.000	.00	.00	.00	2530.40	624.00	2533.62	2533.62	2534.47	191.96	8.51	93.80	45.04
*	3010.000	.00	.00	.00	2530.40	714.00	2533.79	2533.79	2534.70	193.32	8.91	103.30	51.35
*	3010.000	.00	.00	.00	2530.40	872.00	2534.07	2534.07	2535.08	191.43	9.46	119.70	63.03
*	70.000	530.00	.00	.00	2552.40	435.00	2554.92	2554.92	2555.41	239.42	6.53	85.34	28.11
*	70.000	530.00	.00	.00	2552.40	624.00	2555.23	2555.23	2555.78	232.84	6.92	114.04	40.89
*	70.000	530.00	.00	.00	2552.40	714.00	2555.35	2555.35	2555.93	234.01	7.11	126.21	46.67
*	70.000	530.00	.00	.00	2552.40	872.00	2555.57	2555.57	2556.16	219.28	7.27	150.85	58.89
*	160.000	480.00	.00	.00	2575.60	435.00	2578.82	2578.82	2579.87	208.13	8.82	58.11	30.15
*	160.000	480.00	.00	.00	2575.60	624.00	2579.64	2579.64	2580.56	136.49	8.60	95.16	53.41
*	160.000	480.00	.00	.00	2575.60	714.00	2579.90	2579.90	2580.80	128.00	8.74	112.66	63.11
*	160.000	480.00	.00	.00	2575.60	872.00	2580.28	2580.28	2581.15	114.72	8.84	144.51	81.41
*	230.000	370.00	.00	.00	2594.90	435.00	2599.05	2599.05	2600.34	185.45	9.79	53.58	31.94
*	230.000	370.00	.00	.00	2594.90	624.00	2599.88	2599.88	2601.30	161.13	10.55	73.92	49.16
*	230.000	370.00	.00	.00	2594.90	714.00	2600.17	2600.17	2601.69	159.68	10.98	81.82	56.50
*	230.000	370.00	.00	.00	2594.90	872.00	2600.64	2600.64	2602.32	156.74	11.64	95.47	69.65
*	290.000	320.00	.00	.00	2629.70	435.00	2633.76	2633.76	2634.77	252.16	8.03	54.15	27.39
*	290.000	320.00	.00	.00	2629.70	624.00	2634.33	2634.33	2635.54	244.48	8.83	70.78	39.91
*	290.000	320.00	.00	.00	2629.70	714.00	2634.58	2634.58	2635.87	235.01	9.12	78.54	46.58
*	290.000	320.00	.00	.00	2629.70	872.00	2634.98	2634.98	2636.40	221.14	9.56	92.06	58.64
*	400.000	580.00	.00	.00	2673.50	435.00	2677.39	2677.39	2678.38	261.01	8.00	54.36	26.93
*	400.000	580.00	.00	.00	2673.50	624.00	2677.99	2677.99	2679.15	228.30	8.63	72.77	41.30
*	400.000	580.00	.00	.00	2673.50	714.00	2678.24	2678.24	2679.47	220.01	8.91	81.10	48.14
*	400.000	580.00	.00	.00	2673.50	872.00	2678.64	2678.64	2679.98	209.05	9.33	95.41	60.31
*	490.000	480.00	.00	.00	2730.80	435.00	2734.47	2734.47	2735.44	260.14	7.92	54.96	26.97
*	490.000	480.00	.00	.00	2730.80	624.00	2735.05	2735.05	2736.19	245.61	8.55	72.99	39.82
*	490.000	480.00	.00	.00	2730.80	714.00	2735.28	2735.28	2736.50	242.58	8.85	80.69	45.84
*	490.000	480.00	.00	.00	2730.80	872.00	2735.67	2735.67	2737.00	229.20	9.26	94.39	57.60
*	590.000	530.00	.00	.00	2766.60	435.00	2771.39	2771.39	2772.82	264.14	9.59	45.71	26.77
*	590.000	530.00	.00	.00	2766.60	624.00	2772.24	2772.24	2773.92	240.31	10.46	60.99	40.25
*	590.000	530.00	.00	.00	2766.60	714.00	2772.60	2772.60	2774.39	232.72	10.79	68.02	46.80
*	590.000	530.00	.00	.00	2766.60	872.00	2773.18	2773.18	2775.12	222.73	11.31	80.01	58.43
*	690.000	530.00	.00	.00	2828.90	435.00	2834.21	2834.21	2835.74	241.36	10.44	46.37	28.00
*	690.000	530.00	.00	.00	2828.90	624.00	2835.10	2835.10	2836.93	210.95	11.53	62.11	42.96
*	690.000	530.00	.00	.00	2828.90	714.00	2835.48	2835.48	2837.43	200.93	11.96	69.43	50.37
*	690.000	530.00	.00	.00	2828.90	872.00	2836.10	2836.10	2838.24	187.58	12.62	82.01	63.67

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	780.000	480.00	.00	.00	2886.80	435.00	2891.18	2891.18	2892.42	214.04	9.32	50.42	29.73
*	780.000	480.00	.00	.00	2886.80	624.00	2891.93	2891.93	2893.37	186.72	10.17	68.45	45.67
*	780.000	480.00	.00	.00	2886.80	714.00	2892.25	2892.25	2893.76	177.62	10.50	76.95	53.57
*	780.000	480.00	.00	.00	2886.80	872.00	2892.78	2892.78	2894.38	161.65	10.91	92.43	68.58
*	850.000	370.00	.00	.00	2941.10	435.00	2945.91	2945.91	2946.81	328.41	6.62	57.78	24.00
*	850.000	370.00	.00	.00	2941.10	624.00	2946.43	2946.43	2947.50	323.47	7.48	76.09	34.70
*	850.000	370.00	.00	.00	2941.10	714.00	2946.66	2946.66	2947.78	315.98	7.77	84.87	40.17
*	850.000	370.00	.00	.00	2941.10	872.00	2947.02	2947.02	2948.23	308.23	8.23	99.41	49.67

R WASH, TRIB. 1 (ROT

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	3010.000	435.00	2533.19	.00	.00	.00	42.81	.00
*	3010.000	624.00	2533.62	.43	.00	.01	57.12	.00
*	3010.000	714.00	2533.79	.17	.00	-.01	58.02	.00
*	3010.000	872.00	2534.07	.28	.00	.02	59.53	.00
*	70.000	435.00	2554.92	.00	21.73	.00	84.38	530.00
*	70.000	624.00	2555.23	.31	21.61	.00	99.16	530.00
*	70.000	714.00	2555.35	.12	21.56	.00	104.58	530.00
*	70.000	872.00	2555.57	.22	21.50	.00	121.47	530.00
*	160.000	435.00	2578.82	.00	23.89	.00	31.90	480.00
*	160.000	624.00	2579.64	.83	24.41	.00	63.13	480.00
*	160.000	714.00	2579.90	.25	24.54	.00	74.82	480.00
*	160.000	872.00	2580.28	.39	24.71	.00	86.40	480.00
*	230.000	435.00	2599.05	.00	20.24	.00	22.84	370.00
*	230.000	624.00	2599.88	.82	20.23	.00	26.47	370.00
*	230.000	714.00	2600.17	.29	20.27	.00	27.67	370.00
*	230.000	872.00	2600.64	.48	20.36	.00	29.62	370.00
*	290.000	435.00	2633.76	.00	34.71	.00	27.31	320.00
*	290.000	624.00	2634.33	.57	34.46	.00	30.93	320.00
*	290.000	714.00	2634.58	.25	34.41	.00	32.29	320.00
*	290.000	872.00	2634.98	.40	34.34	.00	34.54	320.00
*	400.000	435.00	2677.39	.00	43.63	.00	28.51	580.00
*	400.000	624.00	2677.99	.60	43.66	.00	32.66	580.00
*	400.000	714.00	2678.24	.25	43.66	.00	34.37	580.00
*	400.000	872.00	2678.64	.40	43.66	.00	37.12	580.00
*	490.000	435.00	2734.47	.00	57.08	.00	29.09	480.00
*	490.000	624.00	2735.05	.58	57.06	.00	32.96	480.00
*	490.000	714.00	2735.28	.23	57.04	.00	34.45	480.00
*	490.000	872.00	2735.67	.38	57.02	.00	36.86	480.00
*	590.000	435.00	2771.39	.00	36.92	.00	16.87	530.00
*	590.000	624.00	2772.24	.85	37.19	.00	19.07	530.00
*	590.000	714.00	2772.60	.36	37.32	.00	20.00	530.00
*	590.000	872.00	2773.18	.58	37.52	.00	21.49	530.00
*	690.000	435.00	2834.21	.00	62.82	.00	16.70	530.00
*	690.000	624.00	2835.10	.89	62.86	.00	18.77	530.00
*	690.000	714.00	2835.48	.38	62.88	.00	19.66	530.00
*	690.000	872.00	2836.10	.62	62.92	.00	21.10	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	780.000	435.00	2891.18	.00	56.96	.00	22.11	480.00
*	780.000	624.00	2891.93	.75	56.83	.00	25.95	480.00
*	780.000	714.00	2892.25	.32	56.76	.00	27.58	480.00
*	780.000	872.00	2892.78	.53	56.68	.00	30.32	480.00
*	850.000	435.00	2945.91	.00	54.73	.00	32.16	370.00
*	850.000	624.00	2946.43	.53	54.51	.00	37.13	370.00
*	850.000	714.00	2946.66	.23	54.42	.00	39.29	370.00
*	850.000	872.00	2947.02	.35	54.24	.00	42.63	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   3010.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3010.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3010.000  PROFILE=  4  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    160.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    160.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    160.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    160.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    160.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    160.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    160.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    160.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    160.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    230.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    230.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    230.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    230.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    290.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    290.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    290.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    290.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    290.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    290.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    400.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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C  ON SECNO=   400.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   400.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   400.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   400.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   400.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   400.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   400.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   400.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   400.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   400.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   490.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   490.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   490.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   490.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   490.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   490.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   490.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   490.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   490.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   490.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   490.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   490.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

   ON SECNO=   590.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CA  ON SECNO=   590.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   590.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   590.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   590.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   590.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   590.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   690.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   690.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   690.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   690.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   690.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   690.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   690.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   690.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   690.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   690.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   690.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   690.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

   ON SECNO=   780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   780.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   780.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

```
 ON SECNO=    780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    780.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    780.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    850.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    850.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    850.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    850.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    850.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    850.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    850.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    850.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    850.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    850.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    850.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    850.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

Stop - Program terminated.

 - Program terminated.
```

```
CAUTION SECNO=    440.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    440.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    440.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    440.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    440.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    440.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    440.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    440.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    440.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    530.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    530.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    530.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    530.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    530.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    530.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    530.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    530.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    530.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    530.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    530.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    530.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

Stop - Program terminated.

Stop - Program terminated.
```

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     2/26/90    TIME    16:22:14           *
*******************************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

ROT2.OUT

100YR CWSEL 2-27-90 DES

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 2/26/90 16:22:14

```
**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH, TRIB. 2 (ROT2.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .021                                2837.93

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      237      345      397      486

NC     .05      .05     .045       .1       .3

       ******REVISED STREAMFLOWS ARE FROM CVCRK43R.OUT**************
         COMMON SECTION IS SEC. 3980 FROM ROWE WASH (RO.DAT)
         SEC. 000 = 3.99 OF ROWE WASH
         ALL FLOW IS DUE TO SUBWATERSHED "H1E"
         START WITH KNOWN W.S. ELEV. IN ROWE WASH (SEC. 3.98).
X1    3980       10   9984.3  10011.5
GR  2853.3   9928.8   2845.4   9954.8   2843.2   9972.7   2839.8   9984.3   2833.9   9995.3
GR  2836.1  10000.0   2838.7  10011.5   2838.8  10012.5   2846.6  10030.7   2853.5  10042.1



X1      50       10   9997.7  10009.5      370      370      370
GR  2876.8   9938.8   2877.8   9956.1   2870.3   9976.1   2861.0   9986.7   2854.1   9997.7
    2854.1  10000.0   2856.8  10009.5   2866.2  10025.0   2875.7  10041.3   2876.9  10044.9
```

X1	110	9	9994.6	10011.4	320	320	320			
GR	2923.0	9909.4	2914.8	9934.9	2909.1	9962.6	2906.8	9985.0	2905.5	9994.6
GR	2902.6	10000.0	2909.1	10011.4	2920.1	10042.4	2922.6	10062.3		
X1	230	10	9985.7	10005.7	630	630	630			
GR	3001.8	9908.2	2995.9	9943.6	2989.8	9974.8	2986.9	9985.7	2983.2	9998.5
GR	2982.8	10000.0	2984.1	10005.7	2987.6	10011.0	2997.6	10030.0	3006.4	10055.9
NC	.055	.055	.045							
X1	320	5	10000.0	10018.0	480	480	480			
GR	3040.8	9962.7	3019.2	10000.0	3022.2	10018.0	3033.1	10046.7	3038.3	10061.1
X1	440	9	9991.1	10006.7	630	630	630			
GR	3117.9	9911.3	3108.1	9942.4	3101.0	9969.2	3095.1	9991.1	3092.1	10000.0
GR	3095.4	10006.7	3096.7	10010.8	3115.0	10040.1	3119.2	10046.1		
NC	.05	.05	.045							
X1	530	7	9990.6	10000.0	480	480	480			
GR	3217.7	9922.1	3211.2	9947.6	3202.3	9977.0	3195.4	9990.6	3195.4	9996.8
GR	3196.3	10000.0	3200.9	10015.6						

```
   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 3980.000
       ******REVISED STREAMFLOWS ARE FROM CVCRK43R.OUT**************
         COMMON SECTION IS SEC. 3980 FROM ROWE WASH (RO.DAT)
         SEC. 000 = 3.99 OF ROWE WASH
         ALL FLOW IS DUE TO SUBWATERSHED "H1E"
         START WITH KNOWN W.S. ELEV. IN ROWE WASH (SEC. 3.98).
 3980.000     4.00  2837.90      .00  2837.93  2838.58      .69      .00      .00  2839.80
    237.       0.     237.       0.       0.      36.       0.       0.       0.   2838.70
     .00      .00     6.65      .00     .000     .045     .000     .000  2833.90  9987.85
  .021006       0.       0.       0.        0        0        5      .00    20.10 10007.95


*SECNO 50.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.07  2857.17  2857.17      .00  2858.13      .97     8.69      .08  2854.10
    237.      43.     194.       0.       7.      23.       0.       0.       0.   2856.80
     .01     5.75     8.29     1.41     .050     .045     .050     .000  2854.10  9992.81
  .026447     370.     370.     370.       20       15        0      .00    17.29 10010.10


*SECNO 110.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  110.000     4.09  2906.69  2906.69      .00  2907.55      .86     7.54      .01  2905.50
    237.      16.     221.       0.       5.      29.       0.       1.       0.   2909.10
     .03     3.04     7.64      .00     .050     .045     .000     .000  2902.60  9985.81
  .021120     320.     320.     320.       20       11        0      .00    21.36 10007.17


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     3.04  2985.84  2985.84      .00  2986.72      .88    14.41      .01  2986.90
    237.       0.     228.       9.       0.      30.       2.       1.       1.   2984.10
     .05      .00     7.62     3.79     .000     .045     .050     .000  2982.80  9989.36
  .024859     630.     630.     630.       20       19        0      .00    18.97 10008.34
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 320.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

320.000	3.01	3022.21	3022.21	.00	3022.95	.74	12.66	.01	3019.20
237.	42.	195.	0.	8.	27.	0.	1.	1.	3022.20
.07	5.39	7.20	.00	.055	.045	.000	.000	3019.20	9994.81
.028041	480.	480.	480.	20	6	0	.00	23.20	10018.01

*SECNO 440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

440.000	3.50	3095.60	3095.60	.00	3096.55	.94	16.89	.06	3095.10
237.	1.	236.	0.	0.	30.	0.	2.	1.	3095.40
.09	1.69	7.81	.04	.055	.045	.055	.000	3092.10	9989.23
.025647	630.	630.	630.	20	11	0	.00	18.11	10007.34

*SECNO 530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

530.000	2.59	3197.99	3197.99	.00	3198.89	.90	10.65	.00	3195.40
237.	30.	189.	17.	7.	23.	5.	2.	1.	3196.30
.11	4.56	8.26	3.60	.050	.045	.050	.000	3195.40	9985.49
.019397	480.	480.	480.	20	15	0	.00	20.25	10005.74

T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 50-YR FLOOD FREQUENCY MODEL
T3 ROWE WASH, TRIB.2 (ROT2.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		3			.021				2838.49	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2		-1							

```
    CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 3980.000
       ******REVISED STREAMFLOWS ARE FROM CVCRK43R.OUT**************
         COMMON SECTION IS SEC. 3980 FROM ROWE WASH (RO.DAT)
         SEC. 000 = 3.99 OF ROWE WASH
         ALL FLOW IS DUE TO SUBWATERSHED "H1E"
         START WITH KNOWN W.S. ELEV. IN ROWE WASH (SEC. 3.98).
 3980.000     4.54  2838.44      .00  2838.49  2839.26      .82      .00      .00  2839.80
    345.       0.     345.       0.       0.     48.       0.       0.       0.   2838.70
     .00      .00     7.26      .00     .000    .045     .000     .000  2833.90  9986.83
  .021003       0.       0.       0.        0       0        5      .00    23.52 10010.35


*SECNO 50.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.65  2857.75  2857.75      .00  2858.92     1.18     8.19      .11  2854.10
    345.       64.     279.       2.      11.     30.       1.       0.       0.   2856.80
     .01     6.06     9.24     2.48     .050    .045     .050     .000  2854.10  9991.89
  .023338     370.     370.     370.       20      15        0      .00    19.17 10011.06


*SECNO 110.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  110.000     4.68  2907.28  2907.28      .00  2908.18      .90     6.74      .03  2905.50
    345.       50.     295.       0.      12.     37.       0.       1.       0.   2909.10
     .02     4.16     8.07      .00     .050    .045     .000     .000  2902.60  9980.36
  .019113     320.     320.     320.       20      11        0      .00    27.84 10008.20


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     3.59  2986.39  2986.39      .00  2987.42     1.03    13.36      .04  2986.90
    345.       0.     327.      18.       0.     39.       4.       1.       1.   2984.10
     .05      .00     8.30     4.43     .000    .045     .050     .000  2982.80  9987.46
  .023658     630.     630.     630.       20      15        0      .00    21.70 10009.17
```

CNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 320.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

320.000	3.41	3022.61	3022.61	.00	3023.59	.98	12.16	.01	3019.20
345.	58.	287.	0.	10.	34.	0.	2.	1.	3022.20
.06	5.78	8.32	1.49	.055	.045	.055	.000	3019.20	9994.10
.027188	480.	480.	480.	20	11	0	.00	24.99	10019.09

*SECNO 440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

440.000	4.09	3096.19	3096.19	.00	3097.30	1.11	15.21	.04	3095.10
345.	6.	337.	2.	2.	39.	1.	2.	1.	3095.40
.08	2.59	8.55	2.07	.055	.045	.055	.000	3092.10	9987.04
.021594	630.	630.	630.	20	11	0	.00	22.15	10009.20

*SECNO 530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

530.000	3.16	3198.56	3198.56	.00	3199.63	1.06	9.46	.00	3195.40
345.	49.	259.	37.	10.	28.	9.	3.	2.	3196.30
.10	5.02	9.16	4.21	.050	.045	.050	.000	3195.40	9984.37
.018046	480.	480.	480.	20	15	0	.00	23.30	10007.67

T1 FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2 100-YR FLOOD FREQUENCY MODEL
T3 ROWE WASH, TRIB.2 (ROT2.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		4			.021				2838.71	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3		-1							

```
    CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 3980.000
       ******REVISED STREAMFLOWS ARE FROM CVCRK43R.OUT**************
         COMMON SECTION IS SEC. 3980 FROM ROWE WASH (RO.DAT)
         SEC. 000 = 3.99 OF ROWE WASH
         ALL FLOW IS DUE TO SUBWATERSHED "H1E"
         START WITH KNOWN W.S. ELEV. IN ROWE WASH (SEC. 3.98).
 3980.000     4.78  2838.68      .00  2838.71  2839.54      .86      .00      .00  2839.80
     397.       0.     397.       0.       0.      53.       0.       0.       0.   2838.70
      .00      .00     7.45      .00     .000     .045     .000     .000  2833.90  9986.39
  .020588       0.       0.       0.        0        0        4      .00    25.01 10011.40


*SECNO 50.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     3.90  2858.00  2858.00      .00  2859.26     1.26     7.92      .12  2854.10
     397.      75.     319.       3.      12.      33.       1.       0.       0.   2856.80
      .01     6.19     9.61     2.84     .050     .045     .050     .000  2854.10  9991.49
  .022254     370.     370.     370.       20       15        0      .00    19.99 10011.47


*SECNO 110.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  110.000     4.89  2907.49  2907.49      .00  2908.43      .95     6.58      .03  2905.50
     397.      68.     329.       0.      15.      39.       0.       1.       0.   2909.10
      .02     4.50     8.33      .00     .050     .045     .000     .000  2902.60  9978.32
  .019070     320.     320.     320.       20       11        0      .00    30.25 10008.57


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     3.83  2986.63  2986.63      .00  2987.71     1.09    13.17      .04  2986.90
     397.       0.     374.      23.       0.      44.       5.       2.       1.   2984.10
      .04      .00     8.53     4.67     .000     .045     .050     .000  2982.80  9986.64
  .023034     630.     630.     630.       20       15        0      .00    22.88 10009.53
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 320.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  320.000     3.62  3022.82  3022.82      .00  3023.87     1.06    11.70      .00  3019.20
     397.      66.     330.       1.      11.      38.       0.       2.       1.   3022.20
      .06     5.85     8.67     1.89     .055     .045     .055     .000  3019.20  9993.76
  .025830     480.     480.     480.      20       11        0      .00    25.86 10019.62


*SECNO 440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     4.33  3096.43  3096.43      .00  3097.62     1.19    14.50      .04  3095.10
     397.      10.     383.       4.       3.      43.       2.       3.       1.   3095.40
      .08     2.89     8.88     2.42     .055     .045     .055     .000  3092.10  9986.16
  .020646     630.     630.     630.      20       11        0      .00    23.80 10009.95


*SECNO 530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  530.000     3.40  3198.80  3198.80      .00  3199.93     1.13     9.15      .01  3195.40
     397.      59.     291.      47.      11.      30.      11.       3.       2.   3196.30
      .10     5.21     9.53     4.45     .050     .045     .050     .000  3195.40  9983.90
  .017645     480.     480.     480.      20       15        0      .00    24.57 10008.47
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      ROWE WASH, TRIB.2 (ROT2.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .021                                2839.0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 3980.000
       ******REVISED STREAMFLOWS ARE FROM CVCRK43R.OUT**************
         COMMON SECTION IS SEC. 3980 FROM ROWE WASH (RO.DAT)
         SEC. 000 = 3.99 OF ROWE WASH
         ALL FLOW IS DUE TO SUBWATERSHED "H1E"
         START WITH KNOWN W.S. ELEV. IN ROWE WASH (SEC. 3.98).
 3980.000     5.06  2838.96      .00  2839.00  2839.96     1.01      .00      .00  2839.80
    486.       0.     486.       0.       0.      60.       0.       0.       0.   2838.70
     .00      .00     8.05     1.33     .000     .045     .050     .000  2833.90  9985.87
  .021006       0.       0.       0.        0        0        5      .00    27.00 10012.87


*SECNO 50.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   [illegible].000     4.30  2858.40  2858.40      .00  2859.79     1.40     7.75      .12  2854.10
    486.      94.     385.       7.      15.      38.       2.       0.       0.   2856.80
     .01     6.40    10.17     3.33     .050     .045     .050     .000  2854.10  9990.85
  .020881     370.     370.     370.       20       15        0      .00    21.28 10012.13


*SECNO 110.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  110.000     5.21  2907.81  2907.81      .00  2908.81     1.00     6.33      .04  2905.50
    486.     104.     382.       0.      21.      44.       0.       1.       0.   2909.10
     .02     4.94     8.66      .00     .050     .045     .000     .000  2902.60  9975.13
  .018743     320.     320.     320.       20       11        0      .00    34.01 10009.14


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     4.14  2986.94  2986.94      .00  2988.17     1.22    13.13      .07  2986.90
    486.       0.     455.      31.       0.      50.       6.       2.       1.   2984.10
     .04      .05     9.08     5.09     .050     .045     .050     .000  2982.80  9985.53
  .023304     630.     630.     630.       20       15        0      .00    24.48 10010.01
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 CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 320.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  320.000     3.94  3023.14  3023.14      .00  3024.32     1.18    11.37      .00  3019.20
     486.      80.     403.       3.      13.      44.       1.       2.       1.   3022.20
      .06     5.98     9.19     2.42     .055     .045     .055     .000  3019.20  9993.20
  .024075     480.     480.     480.       20       11        0      .00    27.26 10020.47


*SECNO 440.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  440.000     4.75  3096.85  3096.85      .00  3098.10     1.24    13.15      .02  3095.10
     486.      19.     457.      10.       6.      50.       3.       3.       2.   3095.40
      .08     3.27     9.19     3.04     .055     .045     .055     .000  3092.10  9984.59
  .018282     630.     630.     630.       20       11        0      .00    26.46 10011.05


*SECNO 530.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  530.000     3.77  3199.17  3199.17      .00  3200.40     1.23     8.47      .00  3195.40
     486.      77.     342.      67.      14.      34.      14.       4.       2.   3196.30
      .09     5.49    10.07     4.80     .050     .045     .050     .000  3195.40  9983.17
  .017054     480.     480.     480.       20       15        0      .00    26.56 10009.73
```

THIS RUN EXECUTED 2/26/90 16:22:31

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

ROWE WASH, TRIB. 2 (ROT2

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	3980.000	2837.90	237.00	4.00	.00	6.65	.00	.00	237.00	.00	20.10	210.06	.00
	3980.000	2838.44	345.00	4.54	.00	7.26	.00	.00	345.00	.00	23.52	210.03	.00
	3980.000	2838.68	397.00	4.78	.00	7.45	.00	.00	397.00	.00	25.01	205.88	.00
	980.000	2838.96	486.00	5.06	.00	8.05	1.33	.00	485.69	.31	27.00	210.06	.00
*	50.000	2857.17	237.00	3.07	5.75	8.29	1.41	43.13	193.71	.16	17.29	264.47	19.27
*	50.000	2857.75	345.00	3.65	6.06	9.24	2.48	64.23	278.94	1.83	19.17	233.38	19.30
*	50.000	2858.00	397.00	3.90	6.19	9.61	2.84	74.99	318.65	3.35	19.99	222.54	19.32
*	50.000	2858.40	486.00	4.30	6.40	10.17	3.33	94.13	384.88	6.98	21.28	208.81	19.44
*	110.000	2906.69	237.00	4.09	3.04	7.64	.00	15.88	221.12	.00	21.36	211.20	49.52
*	110.000	2907.28	345.00	4.68	4.16	8.07	.00	49.56	295.44	.00	27.84	191.13	49.53
*	110.000	2907.49	397.00	4.89	4.50	8.33	.00	68.04	328.96	.00	30.25	190.70	49.49
*	110.000	2907.81	486.00	5.21	4.94	8.66	.00	103.56	382.44	.00	34.01	187.43	49.42
*	230.000	2985.84	237.00	3.04	.00	7.62	3.79	.00	228.31	8.69	18.97	248.59	79.15
*	230.000	2986.39	345.00	3.59	.00	8.30	4.43	.00	327.39	17.61	21.70	236.58	79.11
*	230.000	2986.63	397.00	3.83	.00	8.53	4.67	.00	374.41	22.59	22.88	230.34	79.14
*	230.000	2986.94	486.00	4.14	.05	9.08	5.09	.00	454.84	31.16	24.48	233.04	79.13
*	320.000	3022.21	237.00	3.01	5.39	7.20	.00	42.03	194.97	.00	23.20	280.41	36.36
*	320.000	3022.61	345.00	3.41	5.78	8.32	1.49	58.15	286.51	.34	24.99	271.88	36.22
*	320.000	3022.82	397.00	3.62	5.85	8.67	1.89	66.04	330.01	.94	25.86	258.30	36.19
*	320.000	3023.14	486.00	3.94	5.98	9.19	2.42	80.00	403.21	2.79	27.26	240.75	36.19
*	440.000	3095.60	237.00	3.50	1.69	7.81	.04	.79	236.20	.00	18.11	256.47	73.40
*	440.000	3096.19	345.00	4.09	2.59	8.55	2.07	5.74	337.21	2.05	22.15	215.94	73.58
*	440.000	3096.43	397.00	4.33	2.89	8.88	2.42	9.52	383.42	4.06	23.80	206.46	73.62
*	440.000	3096.85	486.00	4.75	3.27	9.19	3.04	18.68	457.22	10.10	26.46	182.82	73.72
*	530.000	3197.99	237.00	2.59	4.56	8.26	3.60	30.18	189.35	17.47	20.25	193.97	102.39
*	530.000	3198.56	345.00	3.16	5.02	9.16	4.21	49.41	259.07	36.52	23.30	180.46	102.37
*	530.000	3198.80	397.00	3.40	5.21	9.53	4.45	59.24	290.66	47.09	24.57	176.45	102.37
*	530.000	3199.17	486.00	3.77	5.49	10.07	4.80	76.78	342.24	66.98	26.56	170.54	102.31

WASH, TRIB. 2 (ROT2

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	3980.000	.00	.00	.00	2833.90	237.00	2837.90	.00	2838.58	210.06	6.65	35.66	16.35
	3980.000	.00	.00	.00	2833.90	345.00	2838.44	.00	2839.26	210.03	7.26	47.50	23.81
	3980.000	.00	.00	.00	2833.90	397.00	2838.68	.00	2839.54	205.88	7.45	53.25	27.67
	3980.000	.00	.00	.00	2833.90	486.00	2838.96	.00	2839.96	210.06	8.05	60.59	33.53
*	50.000	370.00	.00	.00	2854.10	237.00	2857.17	2857.17	2858.13	264.47	8.29	30.97	14.57
*	50.000	370.00	.00	.00	2854.10	345.00	2857.75	2857.75	2858.92	233.38	9.24	41.51	22.58
*	50.000	370.00	.00	.00	2854.10	397.00	2858.00	2858.00	2859.26	222.54	9.61	46.46	26.61
*	50.000	370.00	.00	.00	2854.10	486.00	2858.40	2858.40	2859.79	208.81	10.17	54.67	33.63
*	110.000	320.00	.00	.00	2902.60	237.00	2906.69	2906.69	2907.55	211.20	7.64	34.15	16.31
*	110.000	320.00	.00	.00	2902.60	345.00	2907.28	2907.28	2908.18	191.13	8.07	48.52	24.95
*	110.000	320.00	.00	.00	2902.60	397.00	2907.49	2907.49	2908.43	190.70	8.33	54.60	28.75
*	110.000	320.00	.00	.00	2902.60	486.00	2907.81	2907.81	2908.81	187.43	8.66	65.13	35.50
*	230.000	630.00	.00	.00	2982.80	237.00	2985.84	2985.84	2986.72	248.59	7.62	32.25	15.03
*	230.000	630.00	.00	.00	2982.80	345.00	2986.39	2986.39	2987.42	236.58	8.30	43.42	22.43
*	230.000	630.00	.00	.00	2982.80	397.00	2986.63	2986.63	2987.71	230.34	8.53	48.70	26.16
*	230.000	630.00	.00	.00	2982.80	486.00	2986.94	2986.94	2988.17	233.04	9.08	56.22	31.84
*	320.000	480.00	.00	.00	3019.20	237.00	3022.21	3022.21	3022.95	280.41	7.20	34.89	14.15
*	320.000	480.00	.00	.00	3019.20	345.00	3022.61	3022.61	3023.59	271.88	8.32	44.74	20.92
*	320.000	480.00	.00	.00	3019.20	397.00	3022.82	3022.82	3023.87	258.30	8.67	49.86	24.70
*	320.000	480.00	.00	.00	3019.20	486.00	3023.14	3023.14	3024.32	240.75	9.19	58.39	31.32
*	440.000	630.00	.00	.00	3092.10	237.00	3095.60	3095.60	3096.55	256.47	7.81	30.79	14.80
*	440.000	630.00	.00	.00	3092.10	345.00	3096.19	3096.19	3097.30	215.94	8.55	42.64	23.48
*	440.000	630.00	.00	.00	3092.10	397.00	3096.43	3096.43	3097.62	206.46	8.88	48.14	27.63
*	440.000	630.00	.00	.00	3092.10	486.00	3096.85	3096.85	3098.10	182.82	9.19	58.80	35.94
*	530.000	480.00	.00	.00	3195.40	237.00	3197.99	3197.99	3198.89	193.97	8.26	34.40	17.02
*	530.000	480.00	.00	.00	3195.40	345.00	3198.56	3198.56	3199.63	180.46	9.16	46.79	25.68
*	530.000	480.00	.00	.00	3195.40	397.00	3198.80	3198.80	3199.93	176.45	9.53	52.45	29.89
*	530.000	480.00	.00	.00	3195.40	486.00	3199.17	3199.17	3200.40	170.54	10.07	61.93	37.22

WASH, TRIB. 2 (ROT2

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	3980.000	237.00	2837.90	.00	.00	-.03	20.10	.00
	3980.000	345.00	2838.44	.54	.00	-.05	23.52	.00
	3980.000	397.00	2838.68	.24	.00	-.03	25.01	.00
	3980.000	486.00	2838.96	.28	.00	-.04	27.00	.00
*	50.000	237.00	2857.17	.00	19.27	.00	17.29	370.00
*	50.000	345.00	2857.75	.58	19.30	.00	19.17	370.00
*	50.000	397.00	2858.00	.25	19.32	.00	19.99	370.00
*	50.000	486.00	2858.40	.40	19.44	.00	21.28	370.00
*	110.000	237.00	2906.69	.00	49.52	.00	21.36	320.00
*	110.000	345.00	2907.28	.59	49.53	.00	27.84	320.00
*	110.000	397.00	2907.49	.21	49.49	.00	30.25	320.00
*	110.000	486.00	2907.81	.33	49.42	.00	34.01	320.00
*	230.000	237.00	2985.84	.00	79.15	.00	18.97	630.00
*	230.000	345.00	2986.39	.55	79.11	.00	21.70	630.00
*	230.000	397.00	2986.63	.24	79.14	.00	22.88	630.00
*	230.000	486.00	2986.94	.32	79.13	.00	24.48	630.00
*	320.000	237.00	3022.21	.00	36.36	.00	23.20	480.00
*	320.000	345.00	3022.61	.41	36.22	.00	24.99	480.00
*	320.000	397.00	3022.82	.20	36.19	.00	25.86	480.00
*	320.000	486.00	3023.14	.32	36.19	.00	27.26	480.00
*	440.000	237.00	3095.60	.00	73.40	.00	18.11	630.00
*	440.000	345.00	3096.19	.59	73.58	.00	22.15	630.00
*	440.000	397.00	3096.43	.24	73.62	.00	23.80	630.00
*	440.000	486.00	3096.85	.42	73.72	.00	26.46	630.00
*	530.000	237.00	3197.99	.00	102.39	.00	20.25	480.00
*	530.000	345.00	3198.56	.57	102.37	.00	23.30	480.00
*	530.000	397.00	3198.80	.24	102.37	.00	24.57	480.00
*	530.000	486.00	3199.17	.37	102.31	.00	26.56	480.00