Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

FLOOD STUDY
TECHNICAL DATA NOTEBOOK

for

WHITE TANKS/AGUA FRIA
AREA DRAINAGE MASTER STUDY

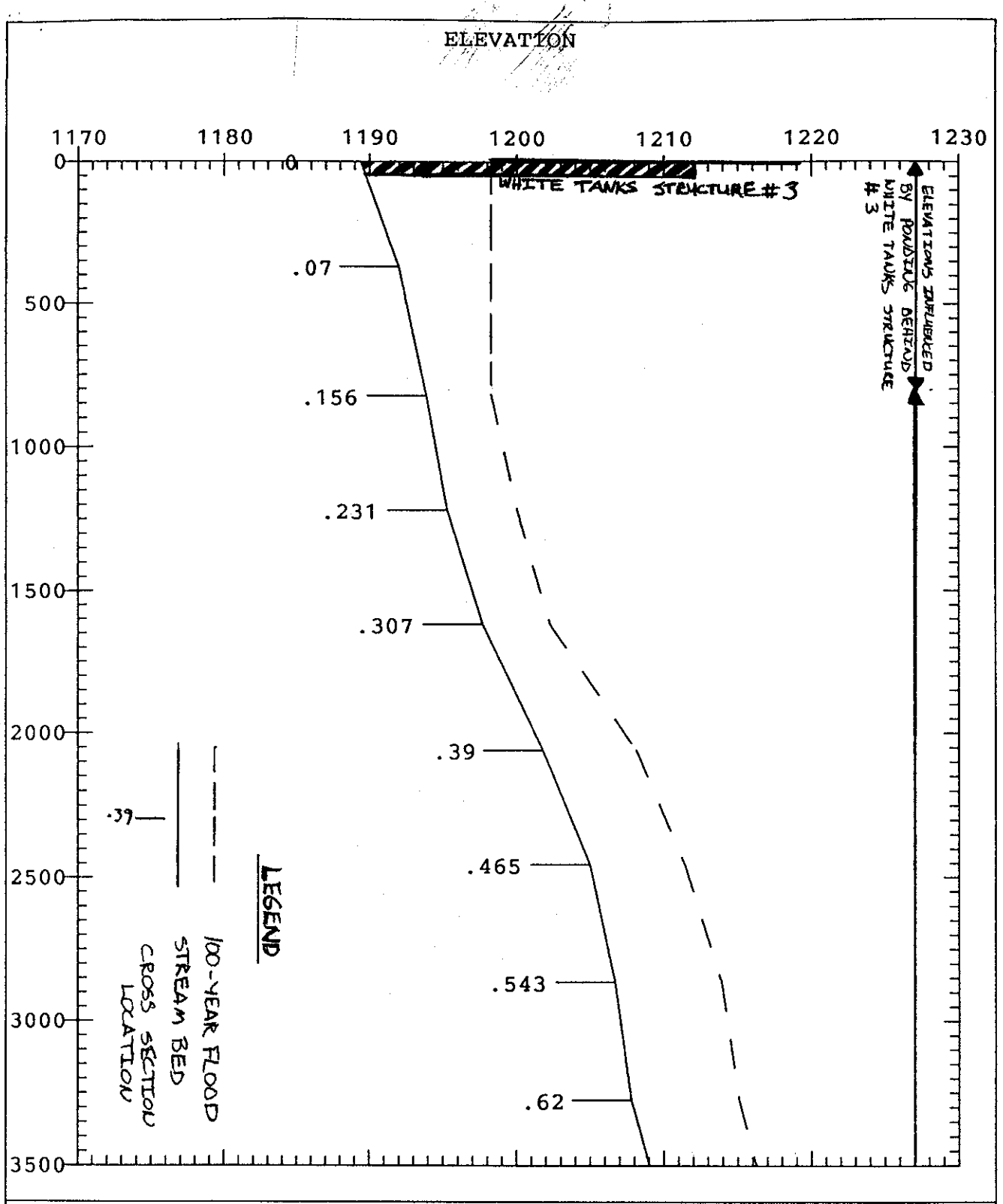
APPENDIX K
VOLUME 14 OF 15

STREAM PROFILES

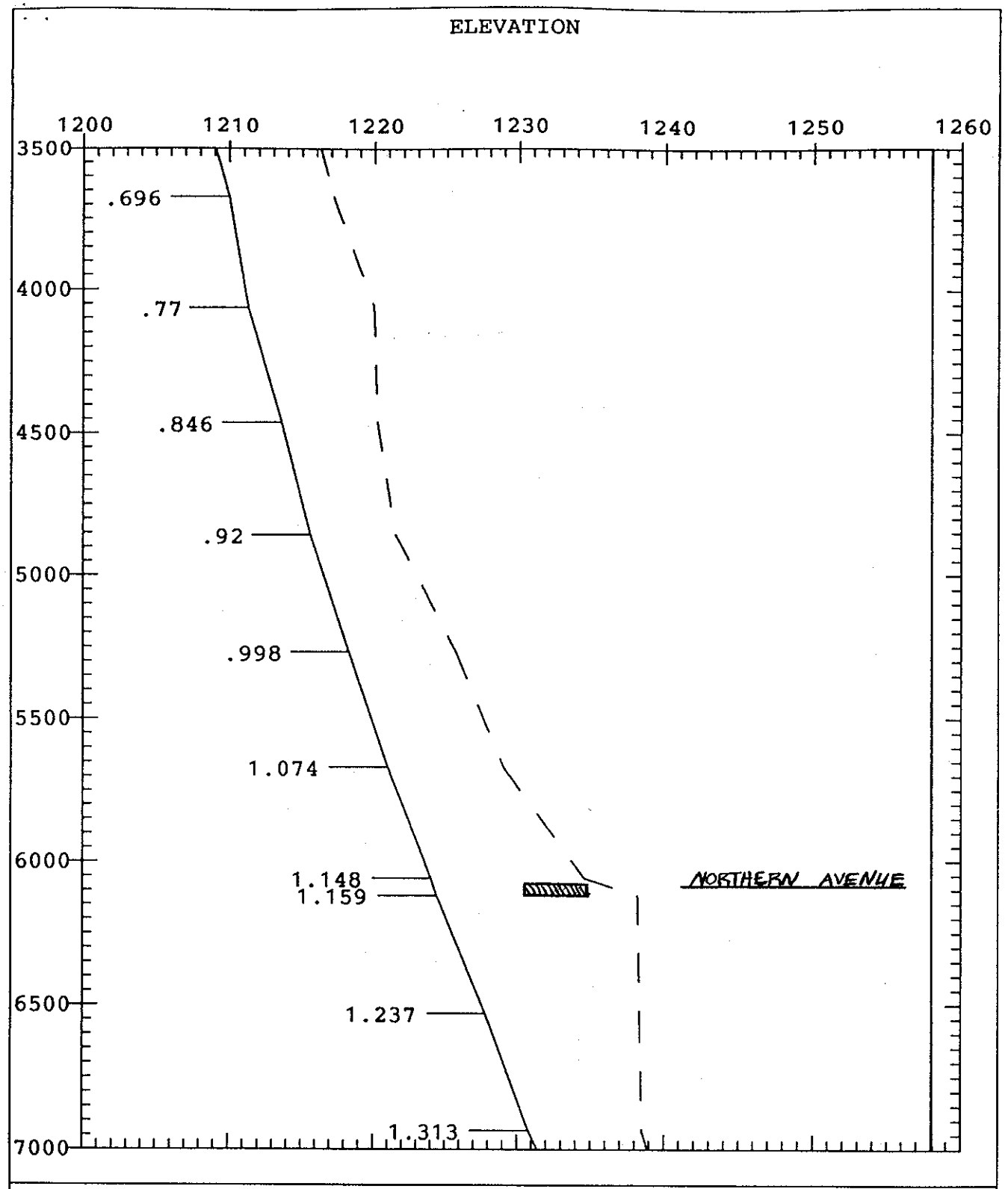
Prepared for:
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

Prepared by:
THE WLB GROUP, INC.
333 East Osborn Road, Suite 380
Phoenix, Arizona 85012
(602) 279-1016

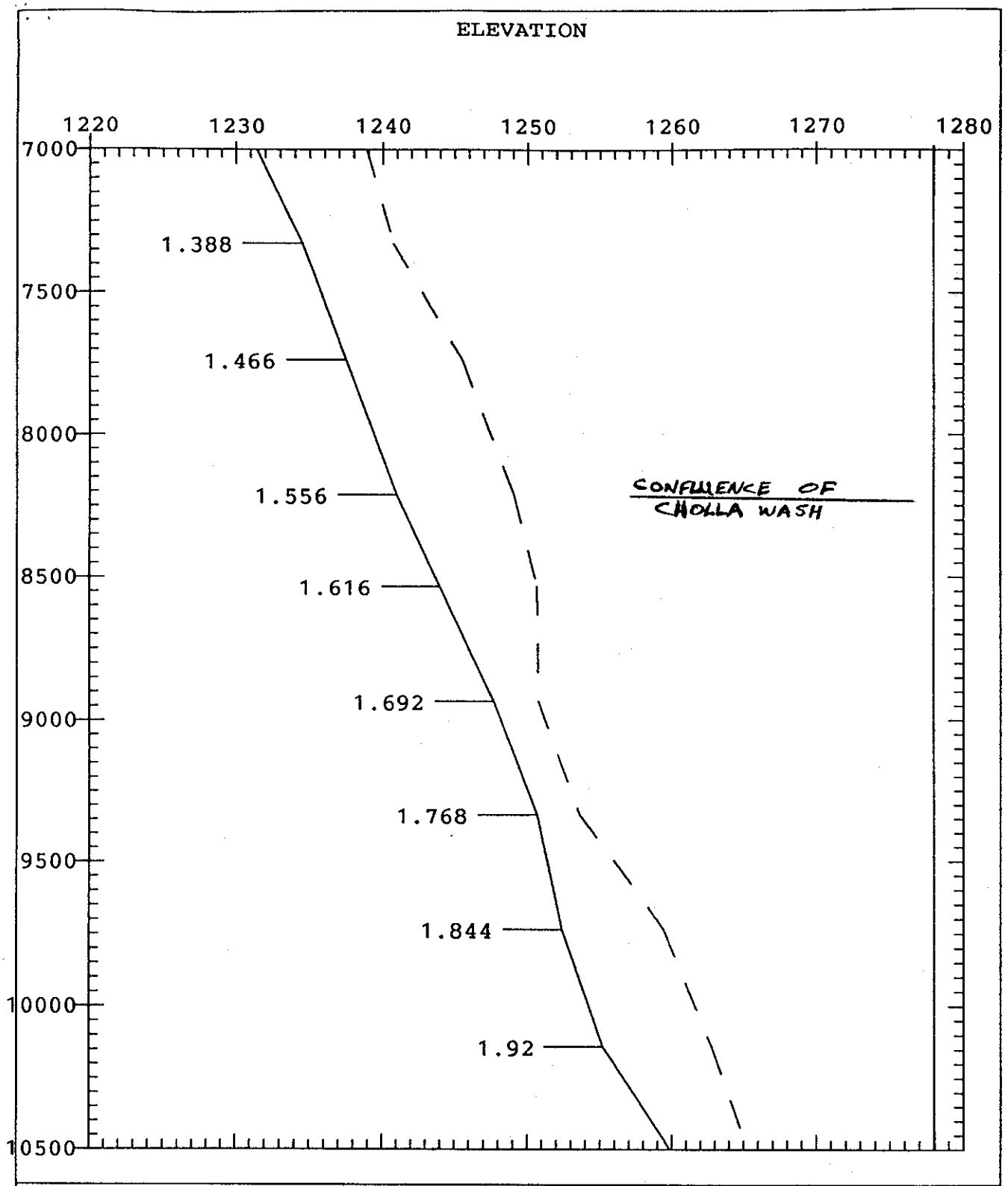
May 28, 1992



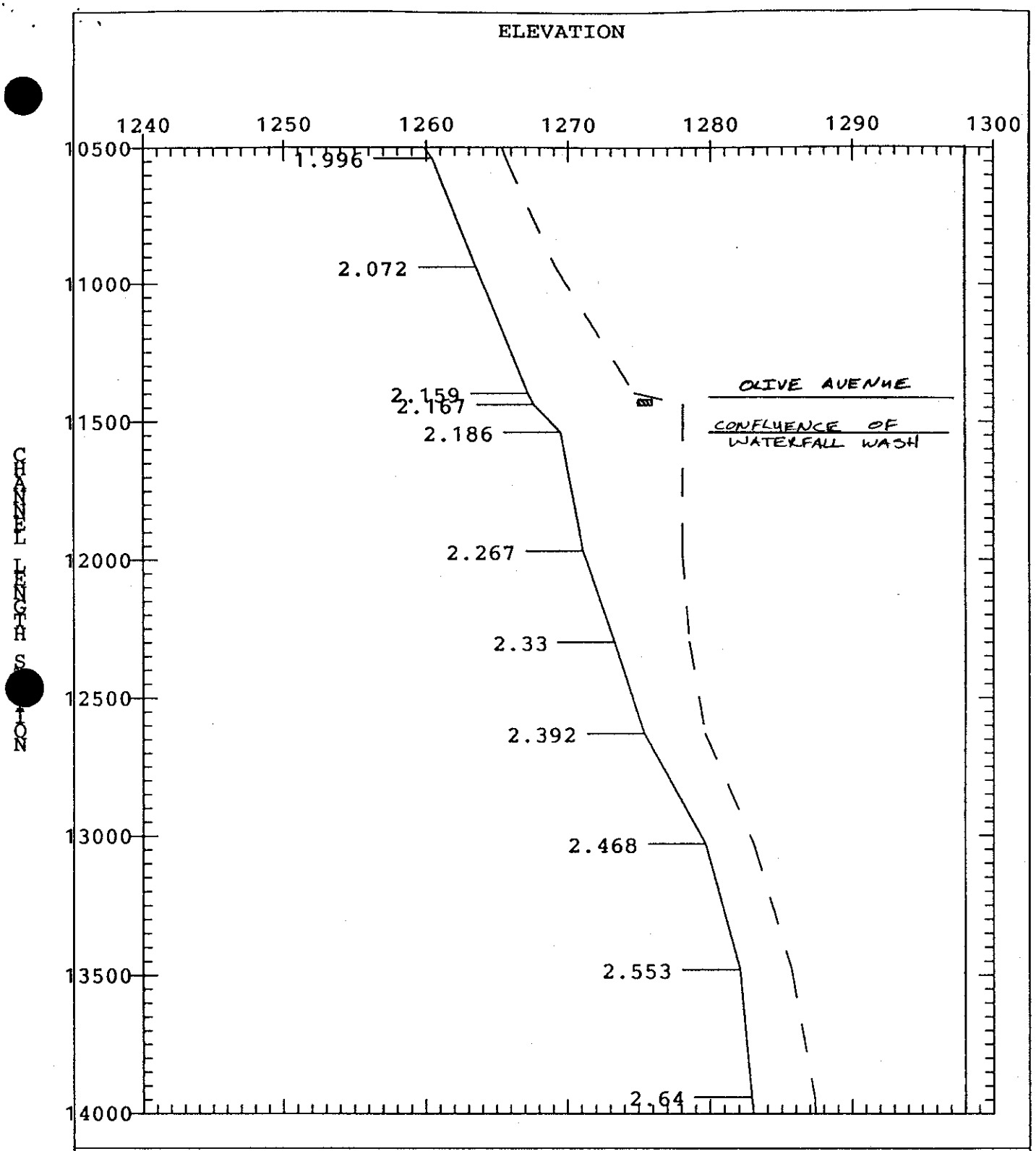
WASH "1" - BEARDSLEY CANAL WASH



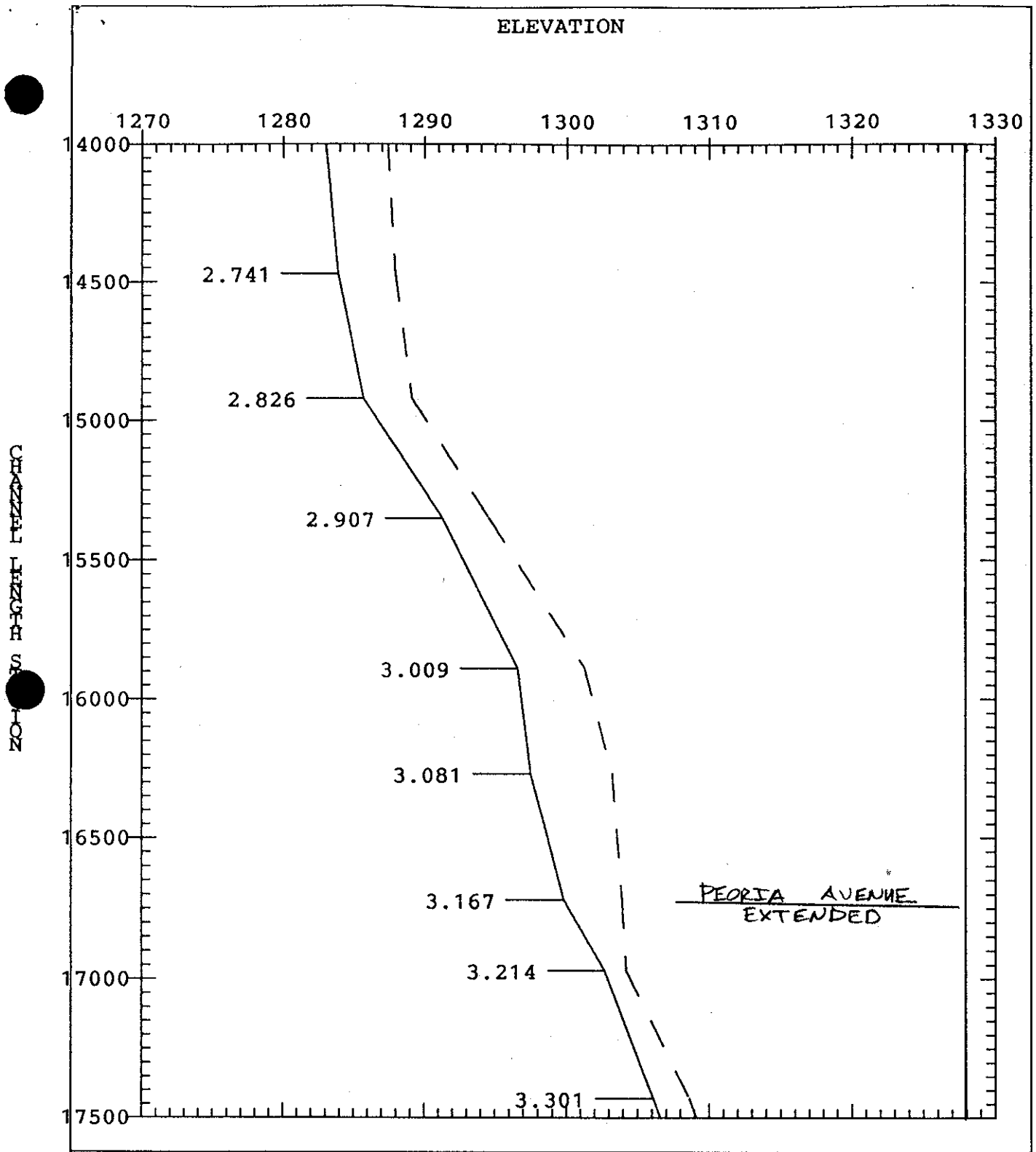
WASH "1" - BEARDSLEY CANAL WASH



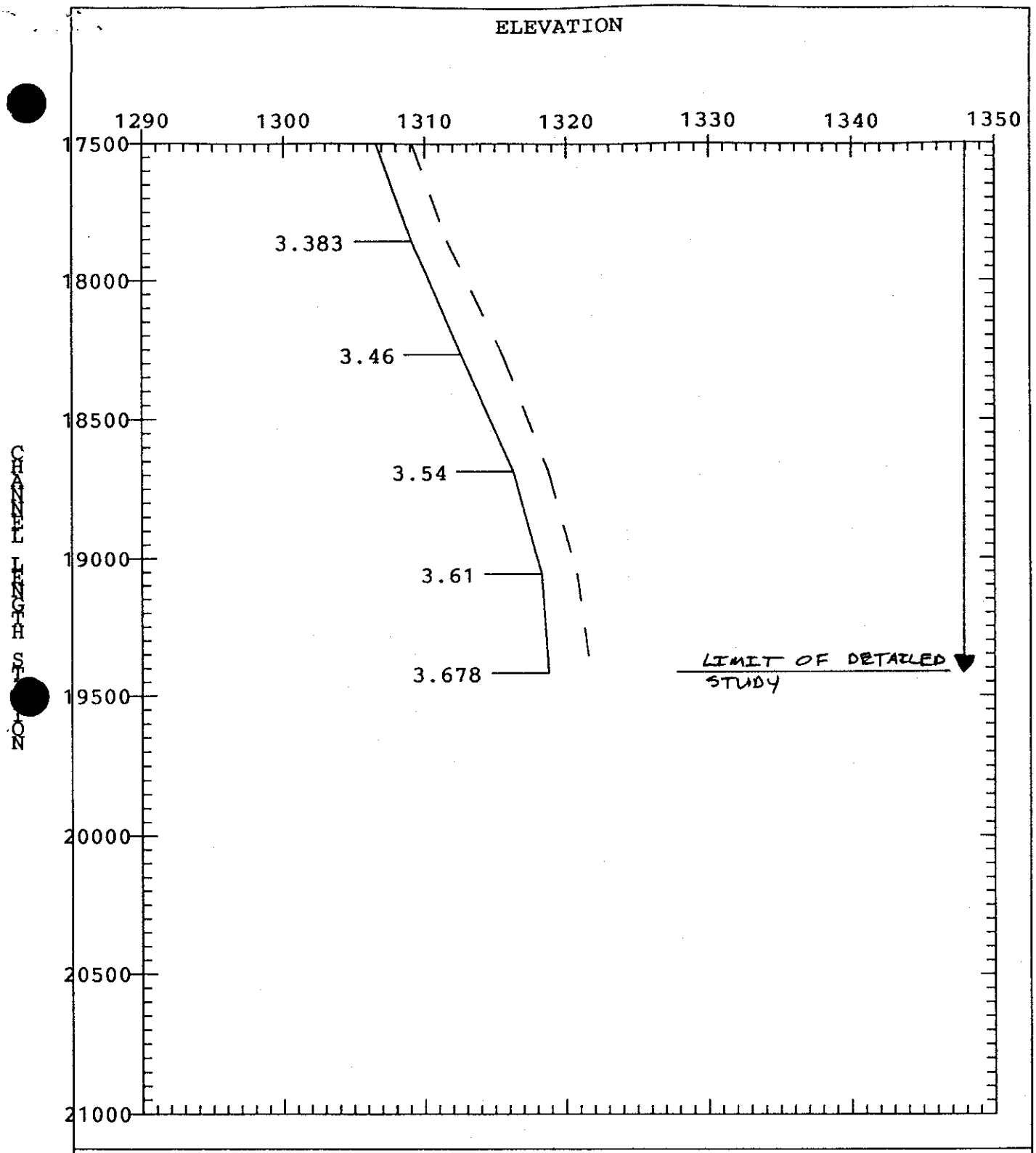
WASH "1" - BEARDSLEY CANAL WASH



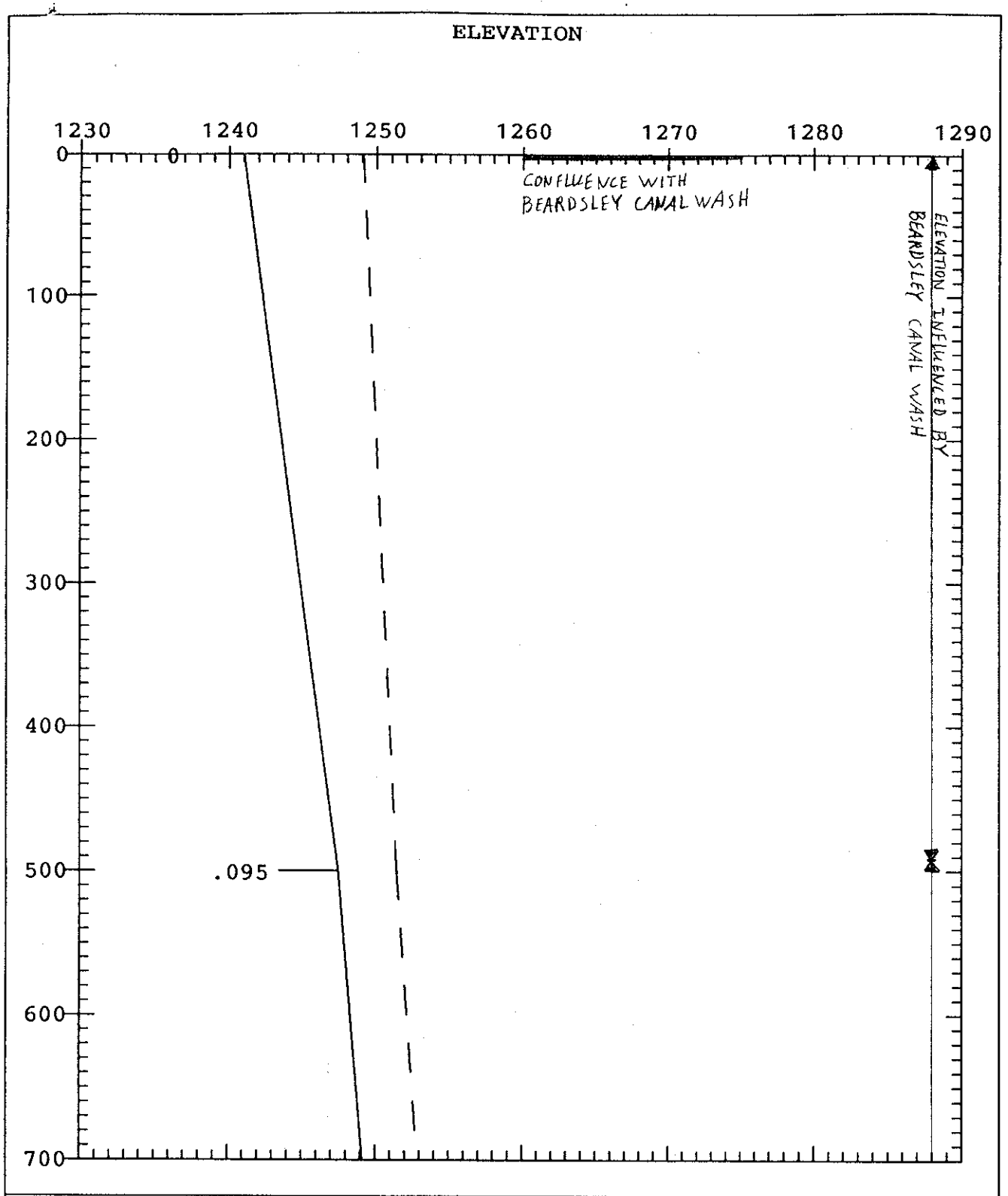
WASH "1" - BEARDSLEY CANAL WASH



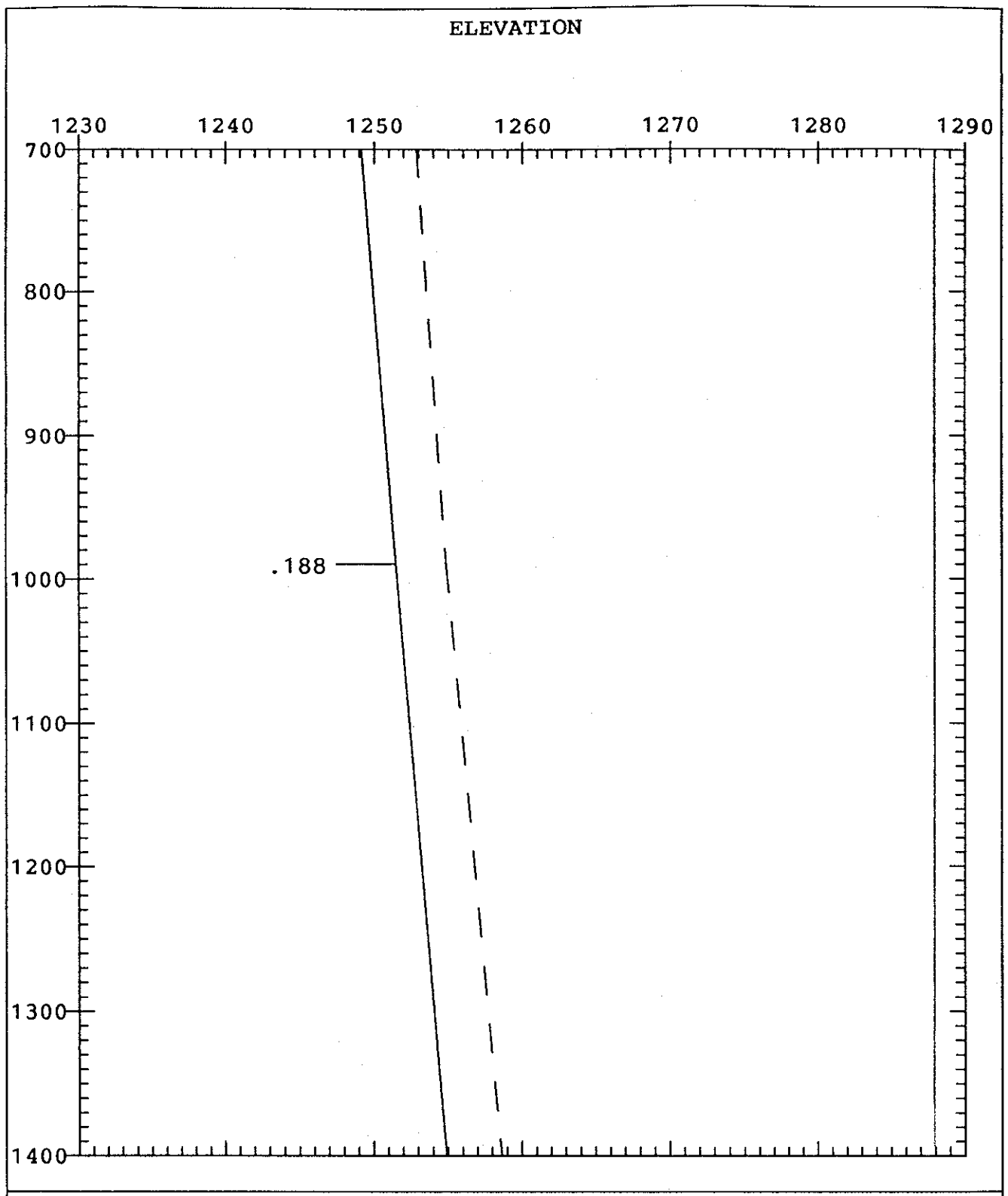
WASH "1" - BEARDSLEY CANAL WASH



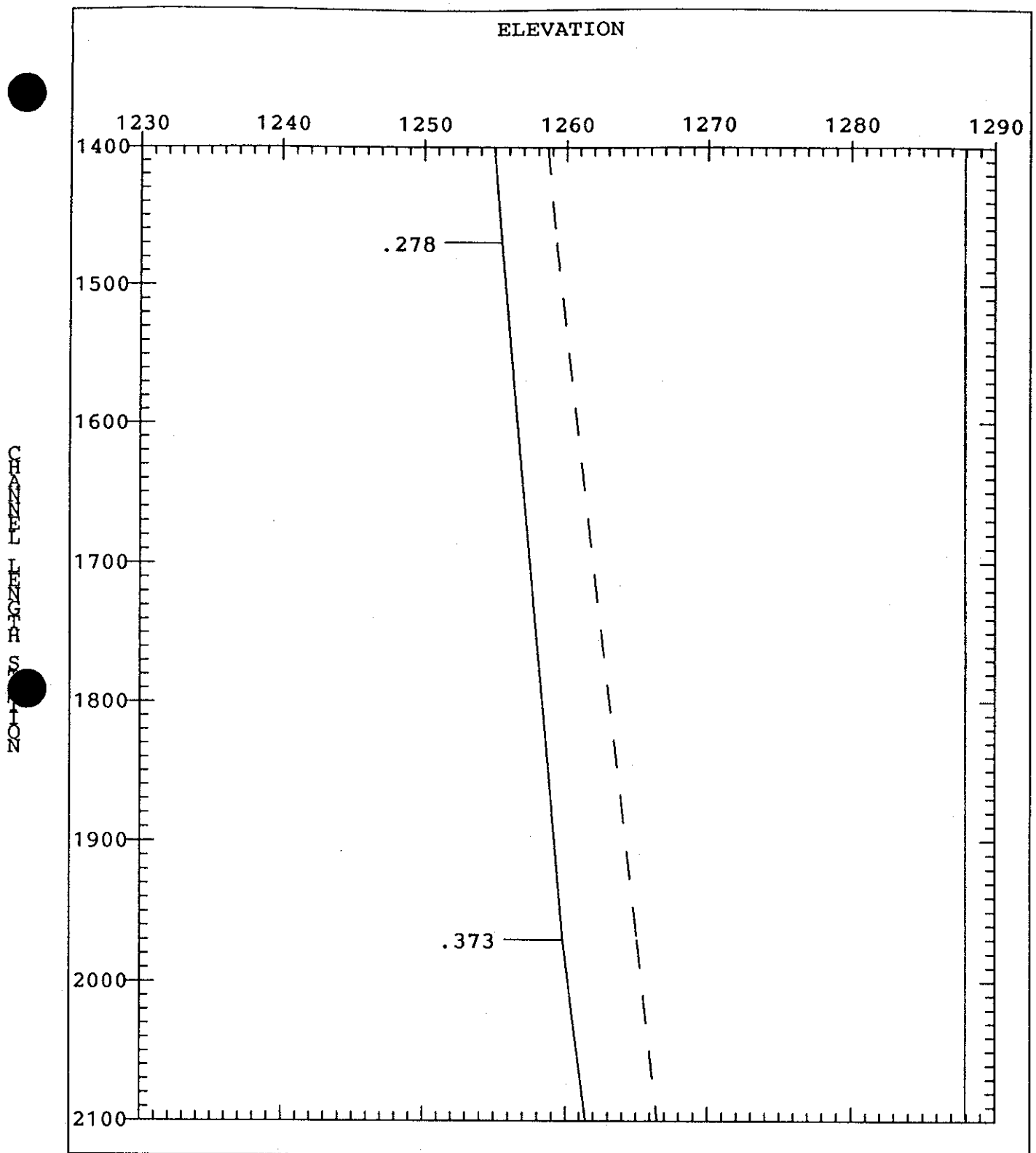
WASH "1" - BEARDSLEY CANAL WASH



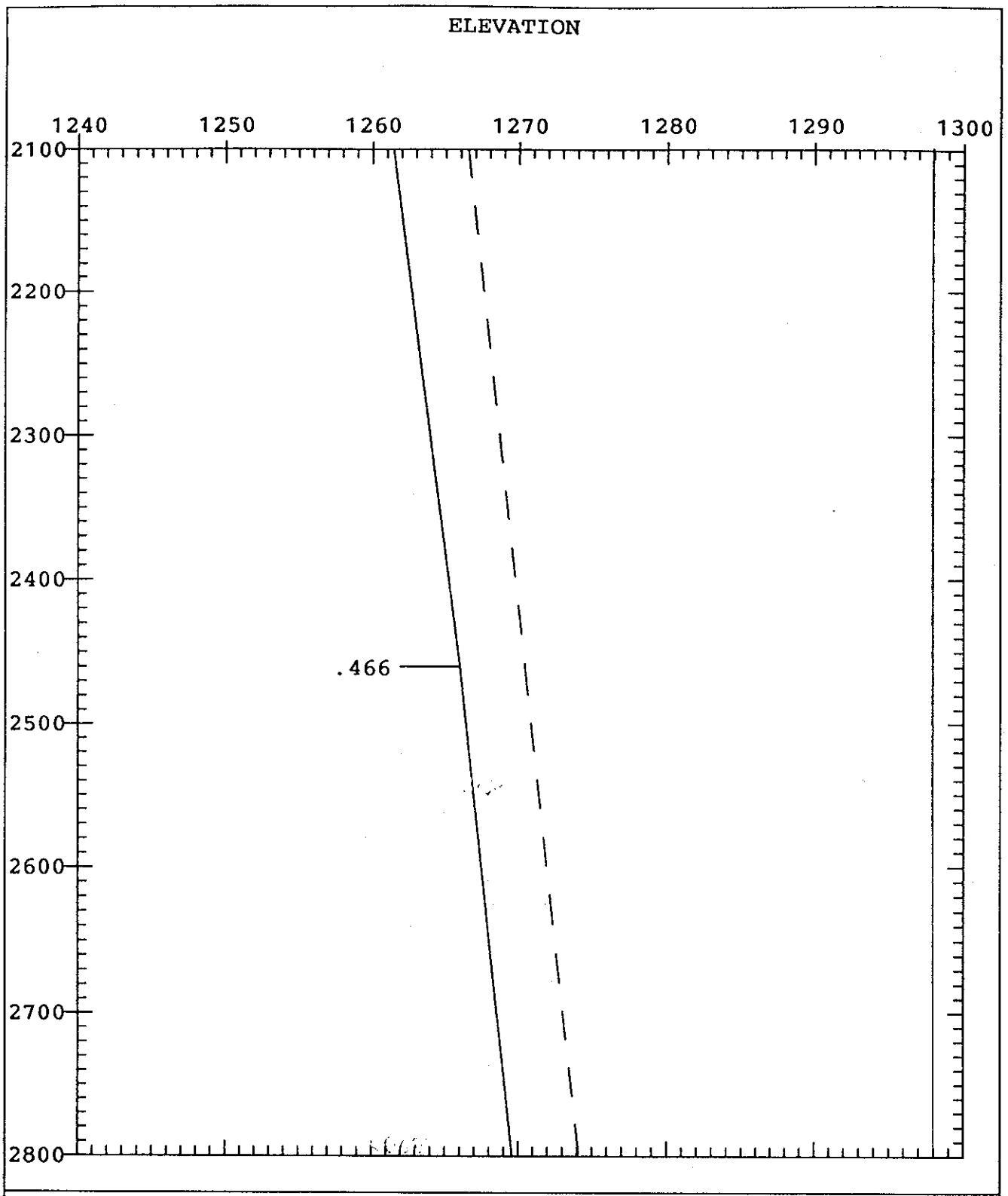
WASH 1A - CHOLLA WASH



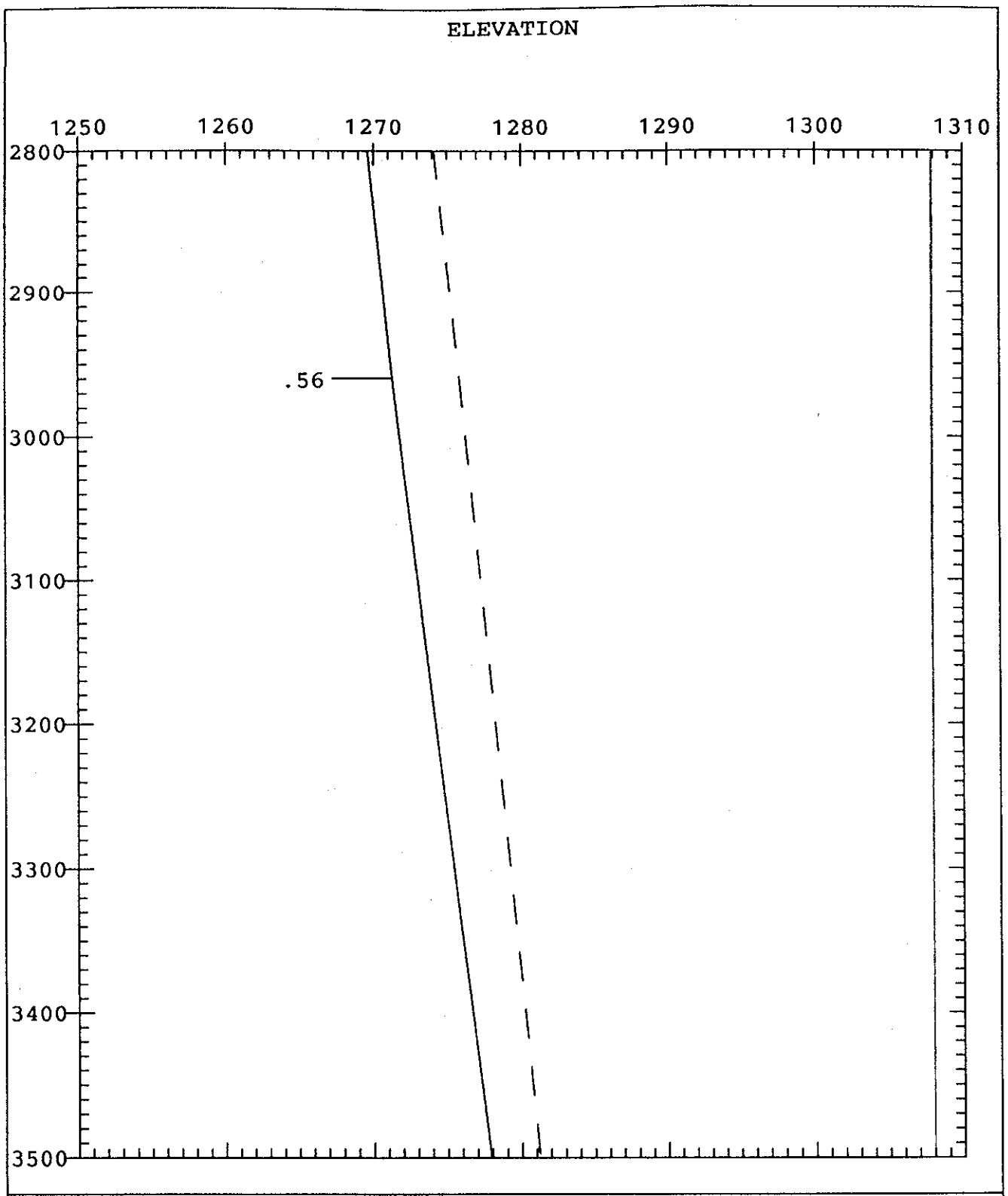
WASH 1A - CHOLLA WASH



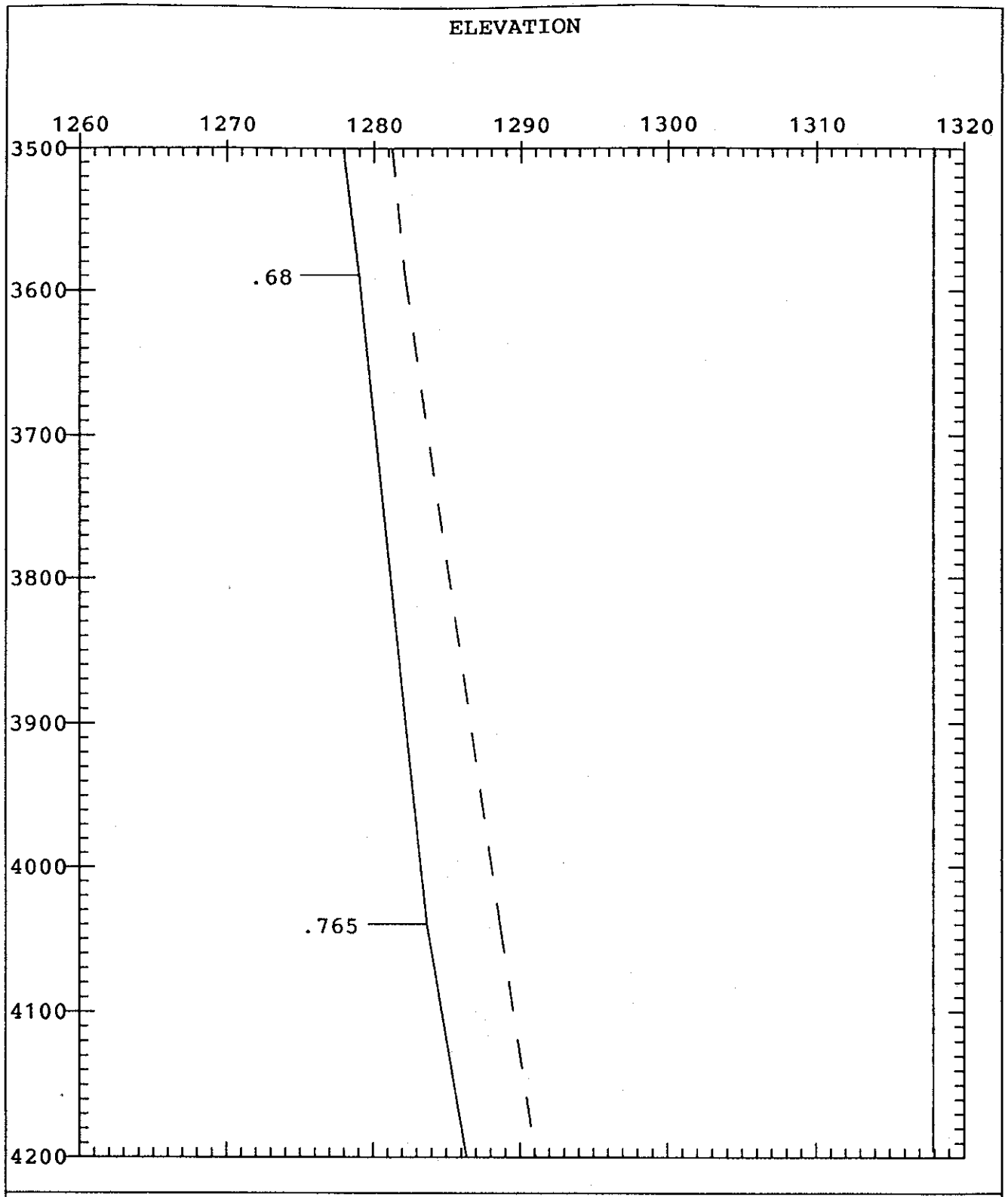
WASH 1A - CHOLLA WASH



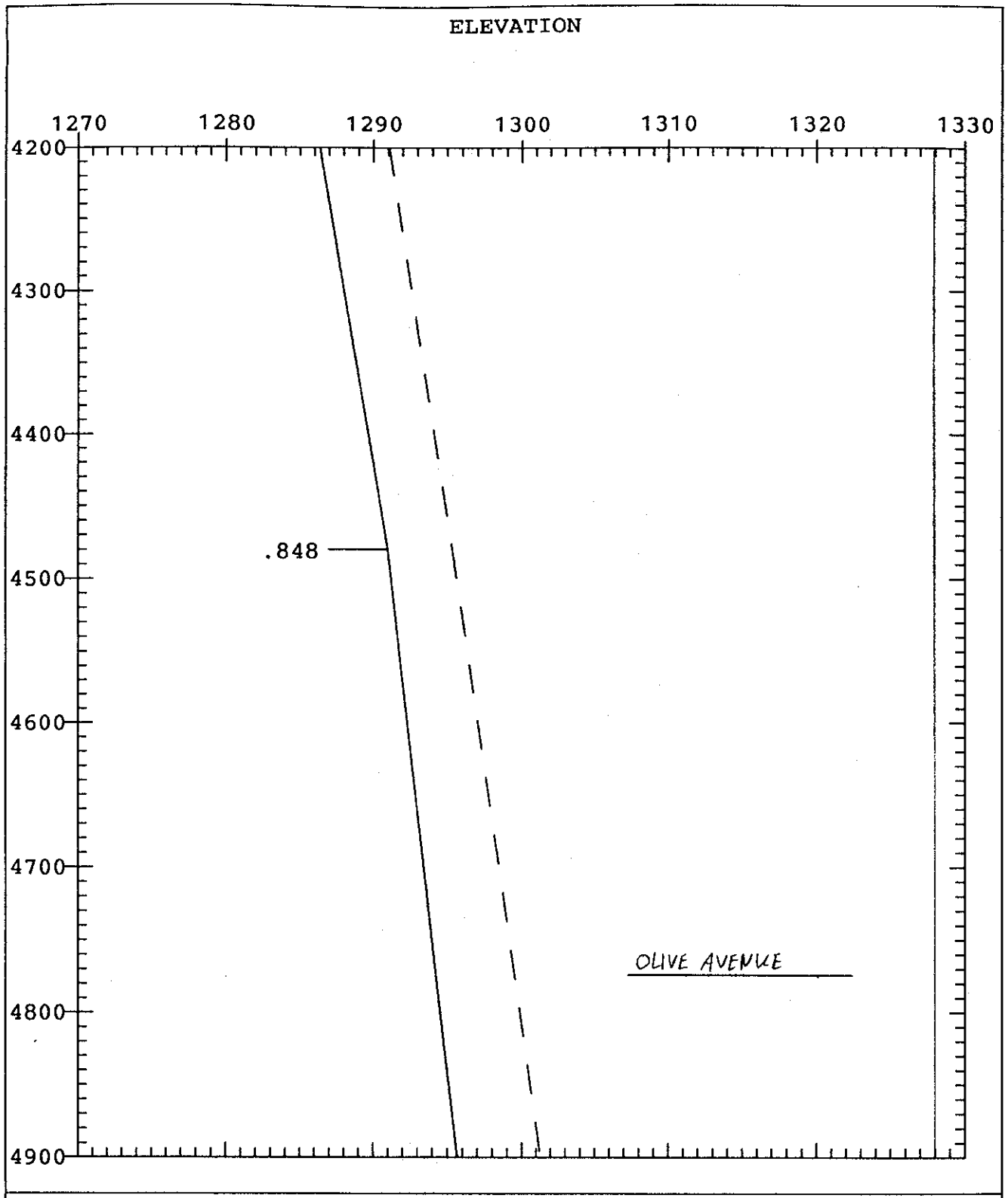
WASH 1A - CHOLLA WASH



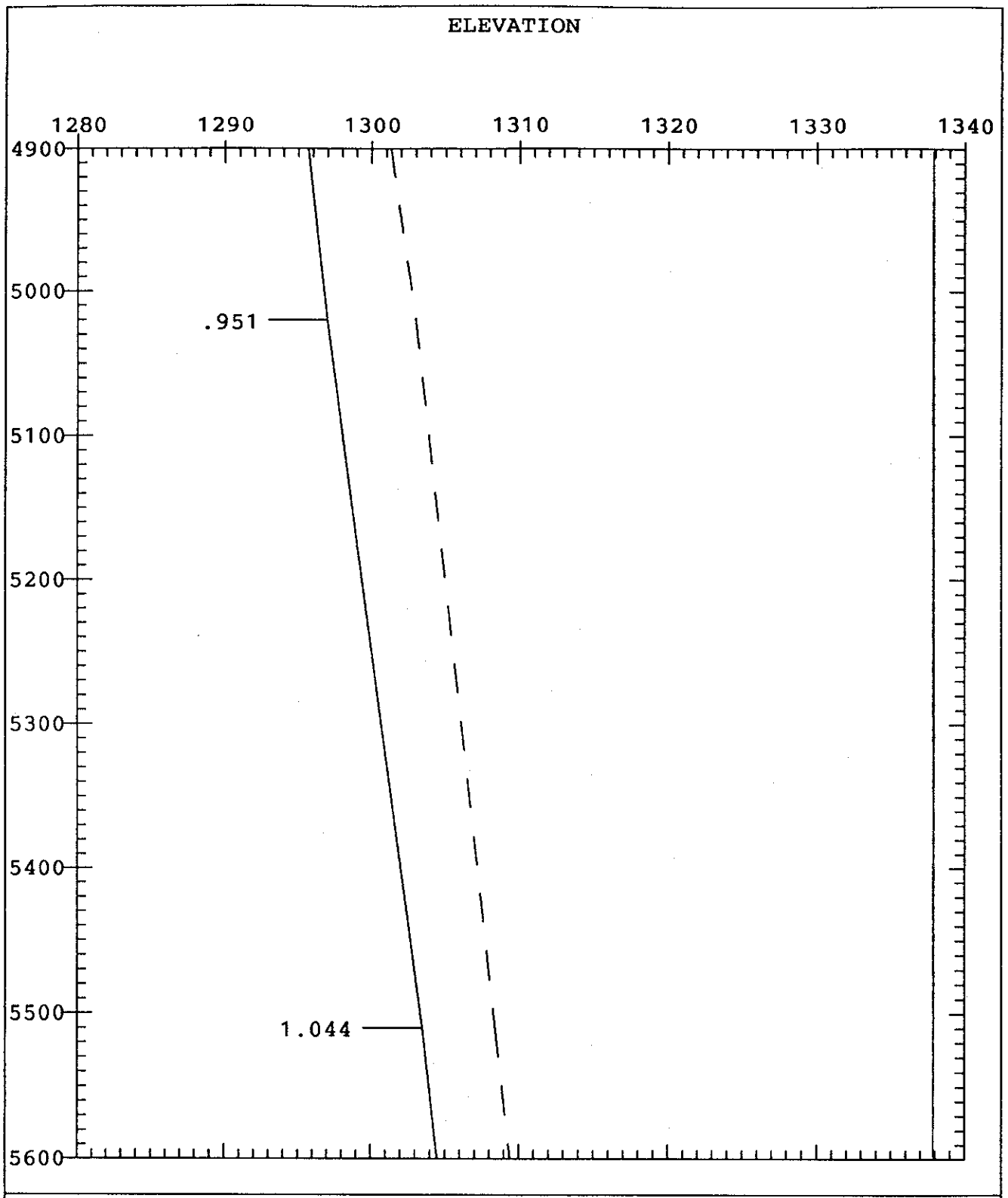
WASH 1A - CHOLLA WASH



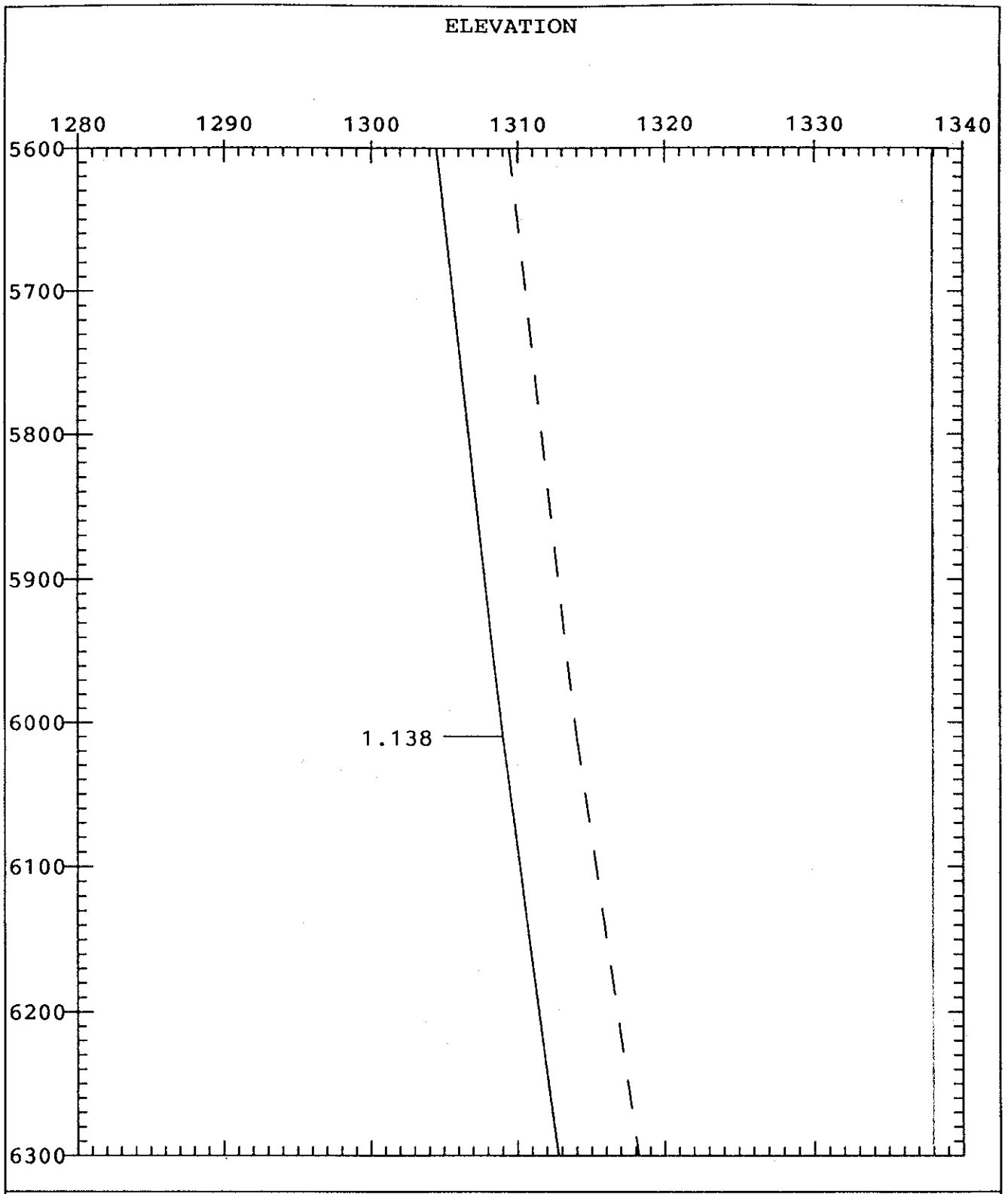
WASH 1A - CHOLLA WASH



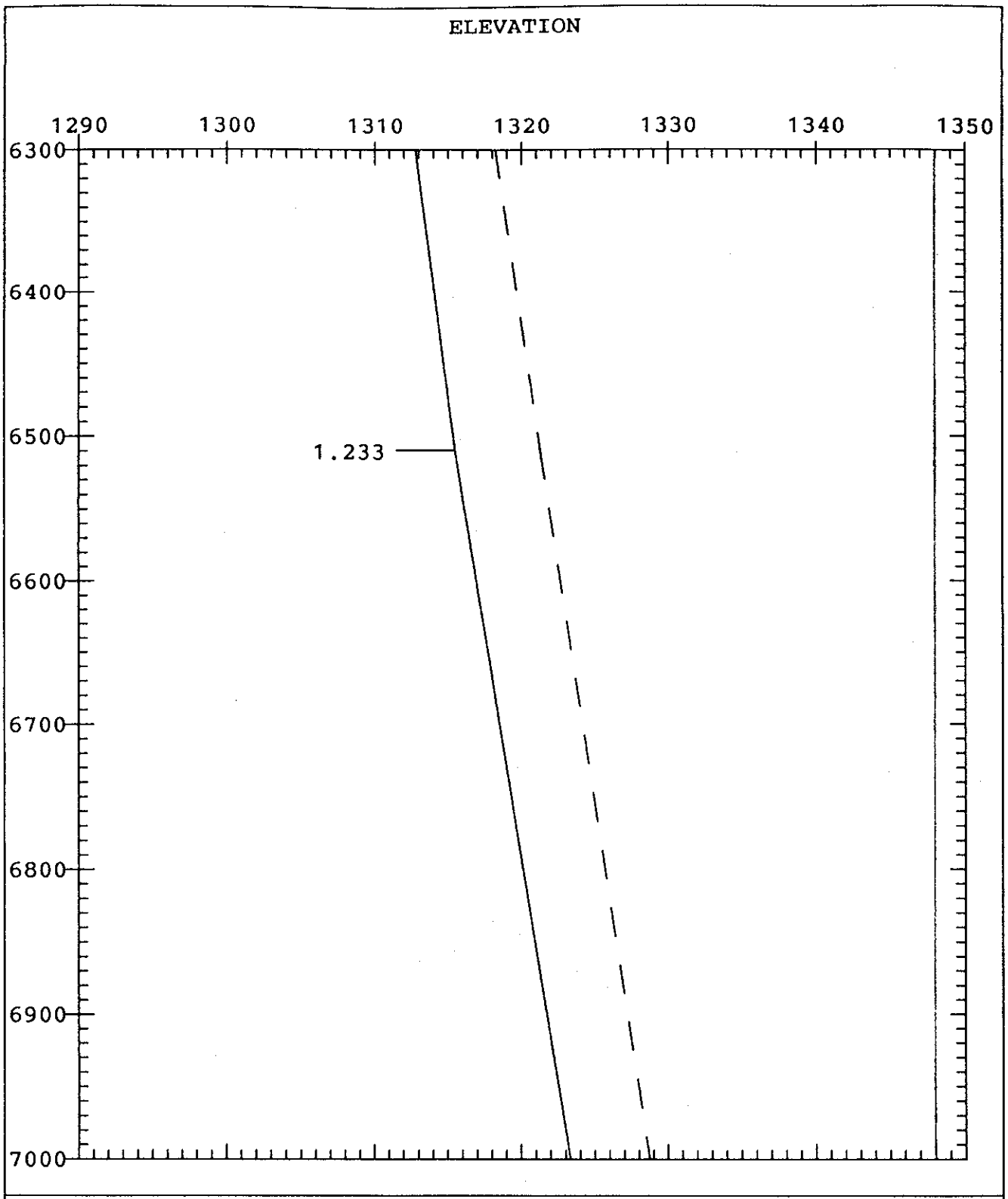
WASH 1A - CHOLLA WASH



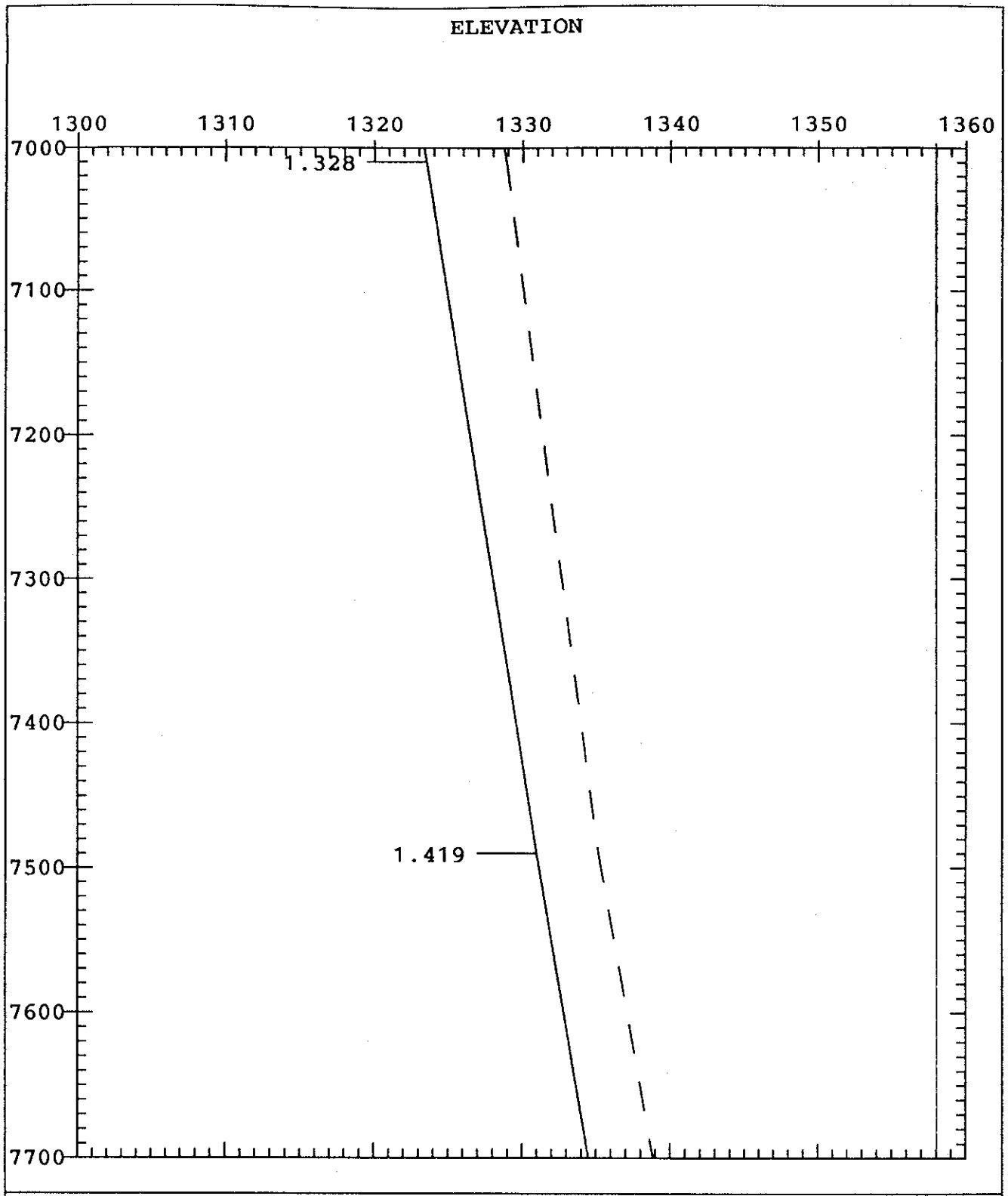
WASH 1A - CHOLLA WASH



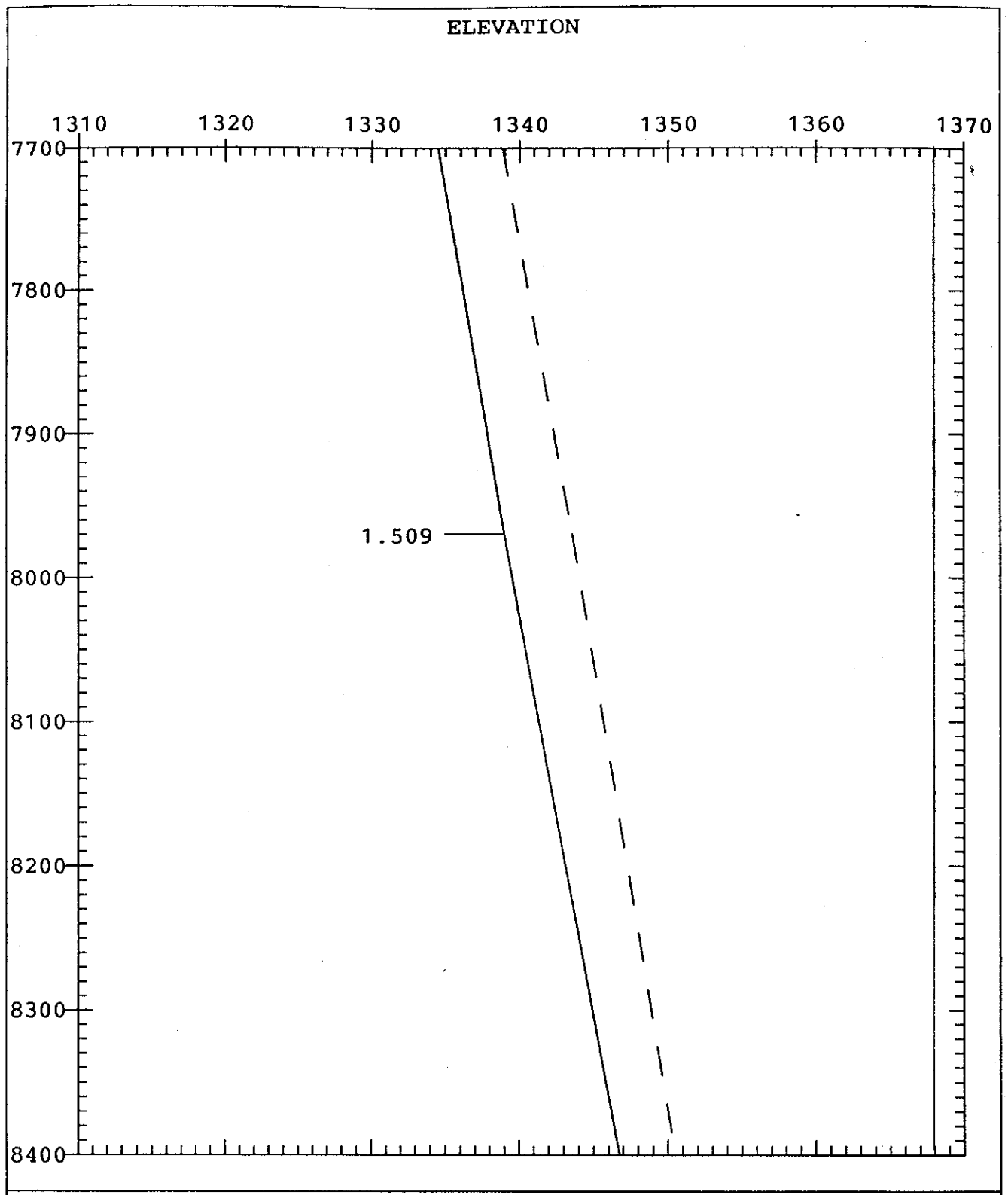
WASH 1A - CHOLLA WASH



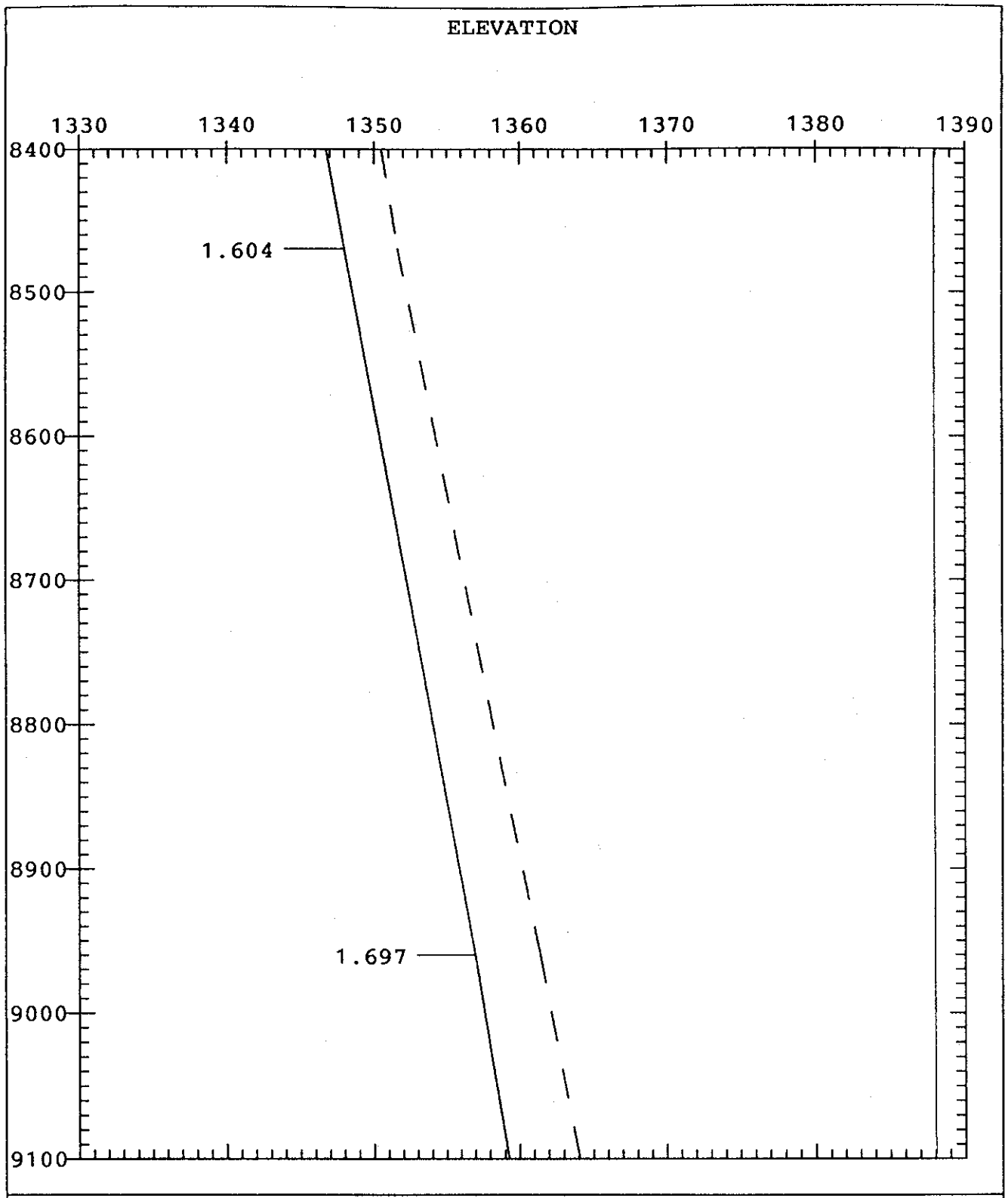
WASH 1A - CHOLLA WASH



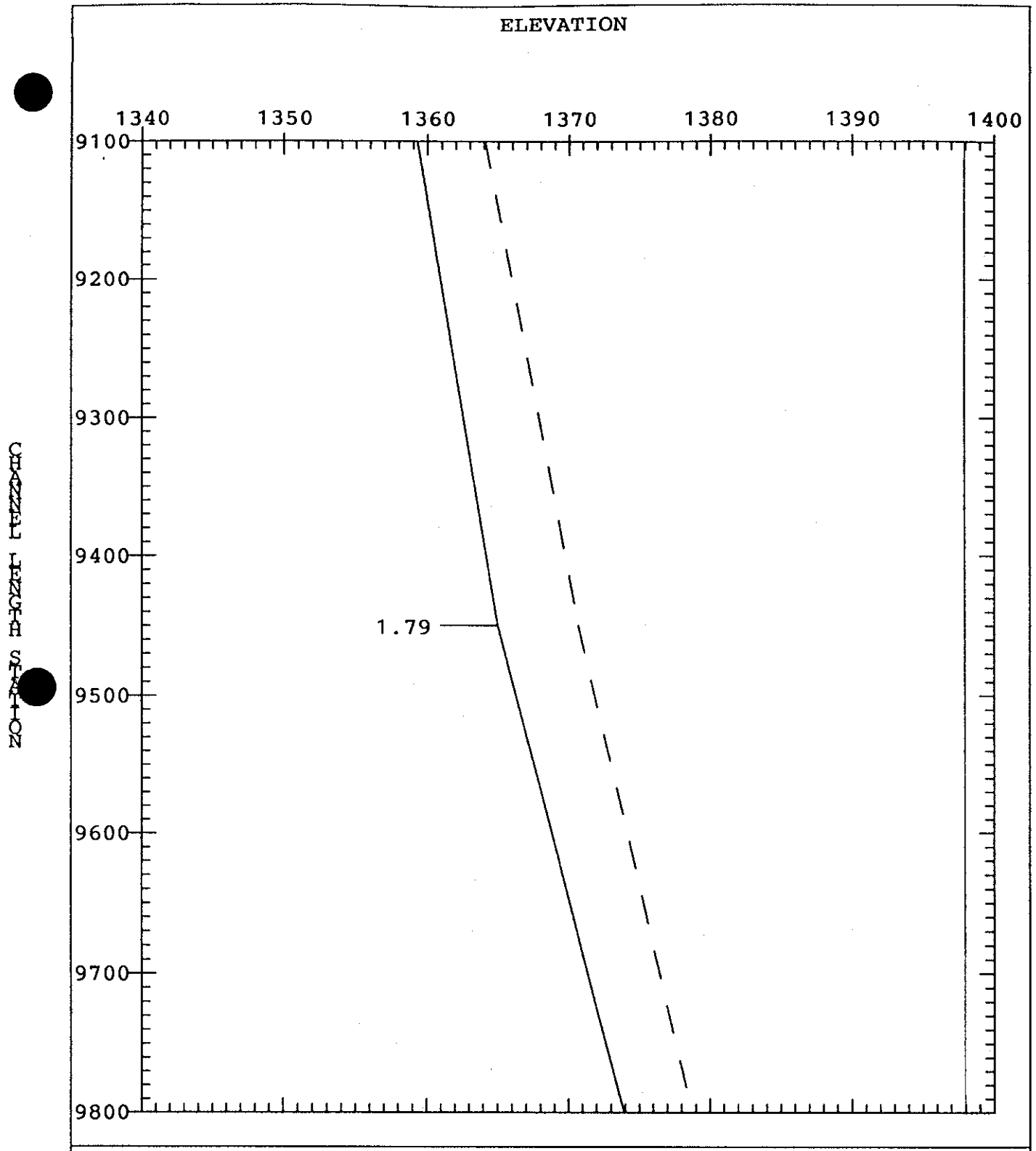
WASH 1A - CHOLLA WASH



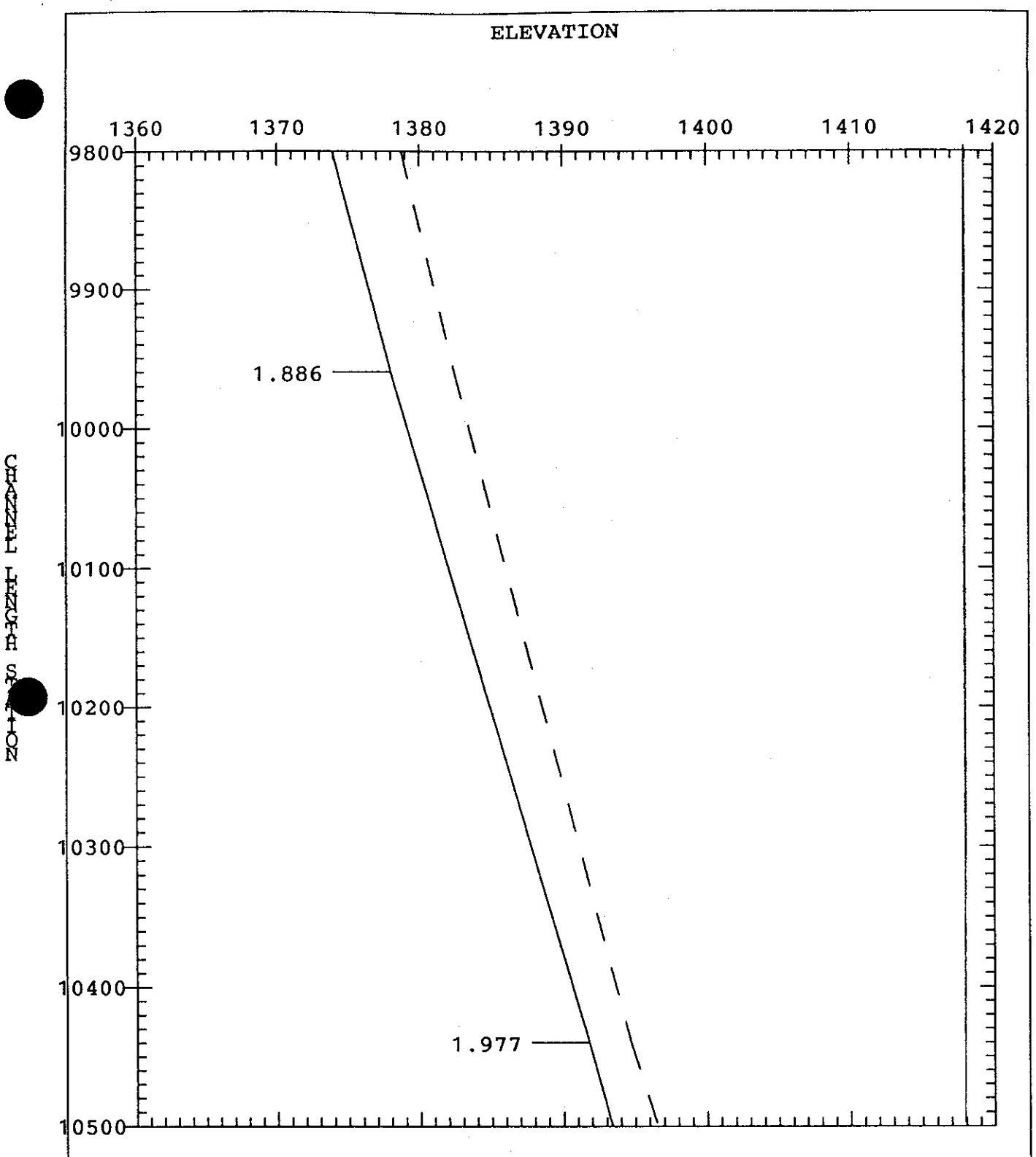
WASH 1A - CHOLLA WASH



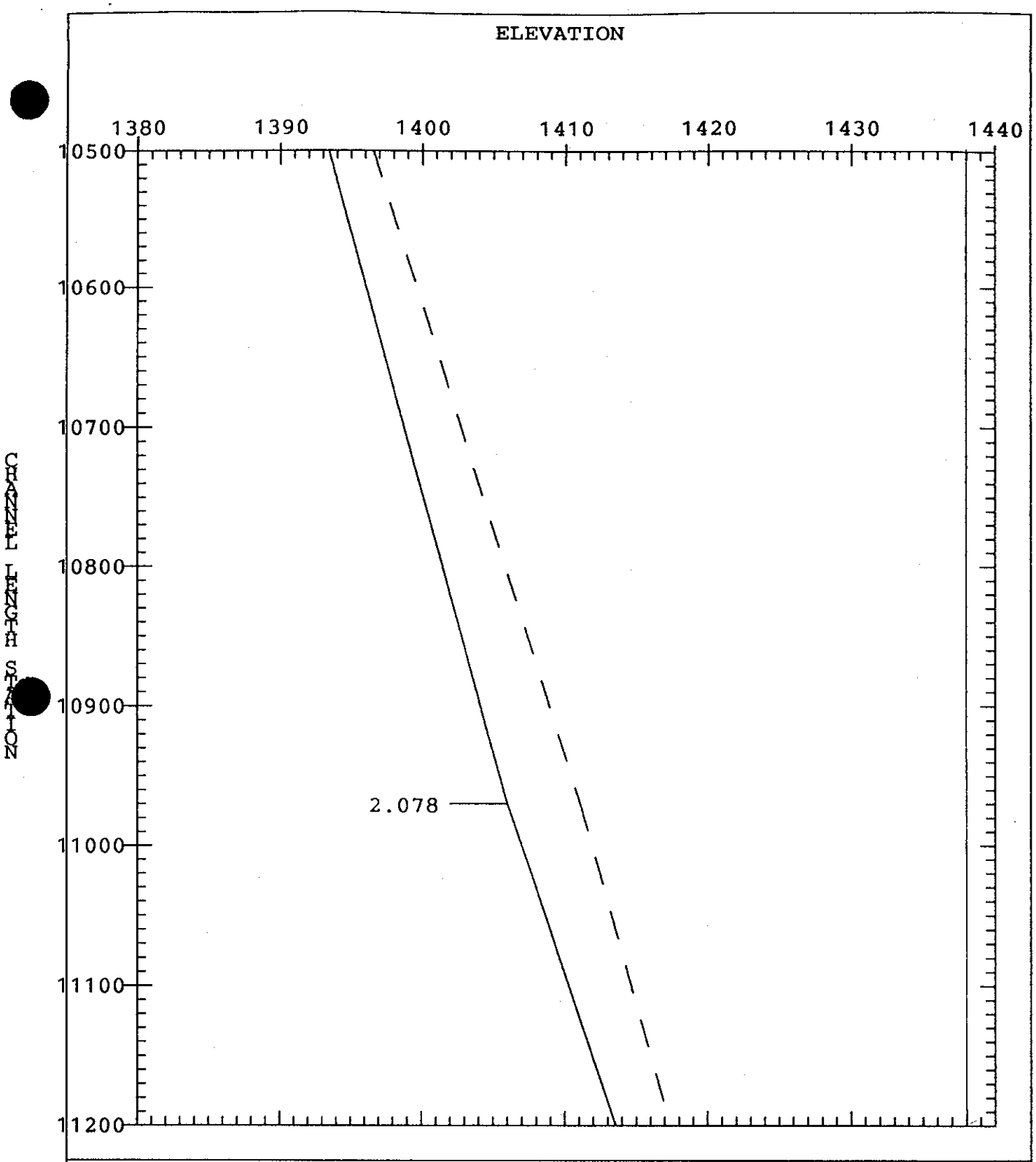
WASH 1A - CHOLLA WASH



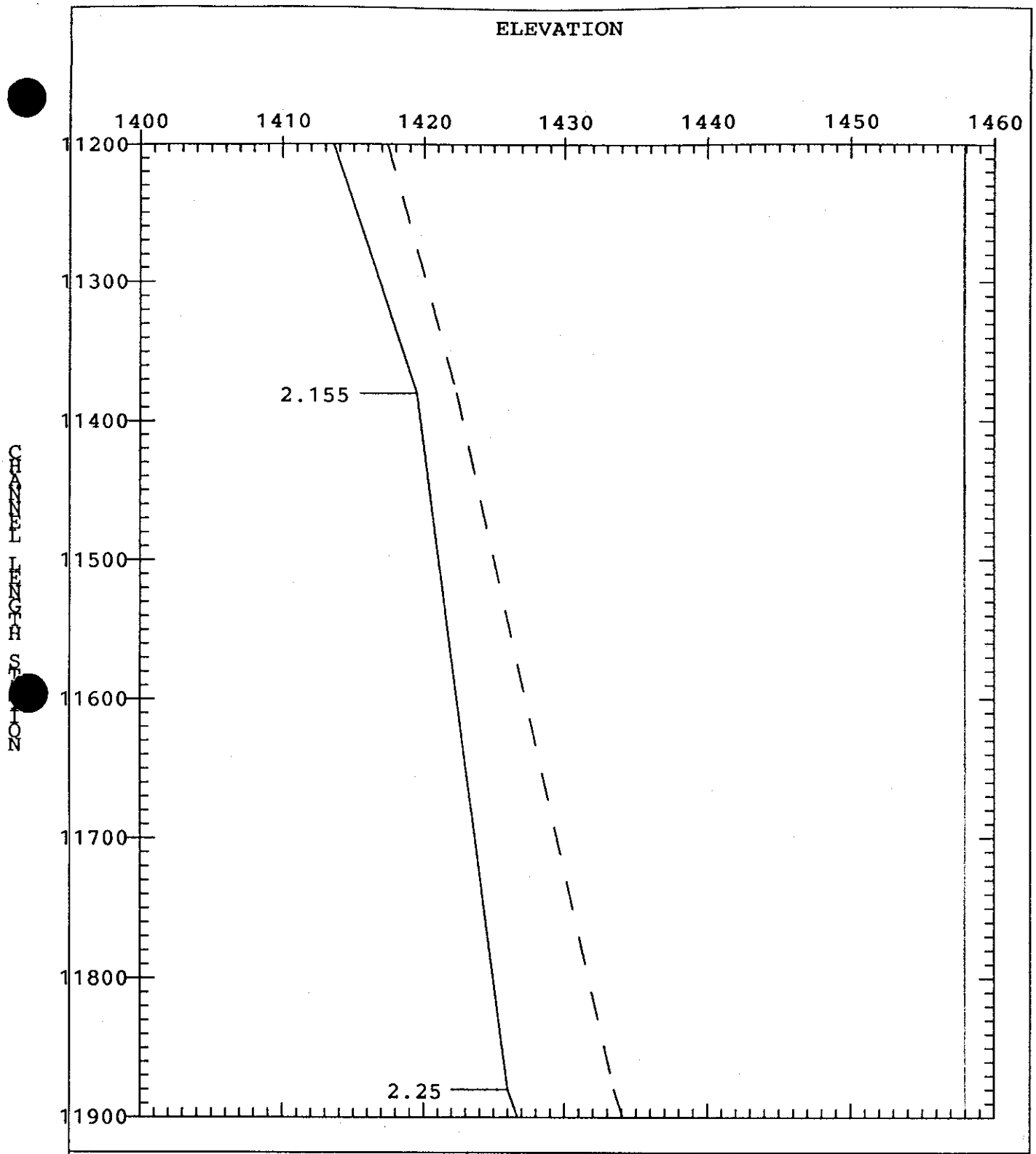
WASH 1A - CHOLLA WASH



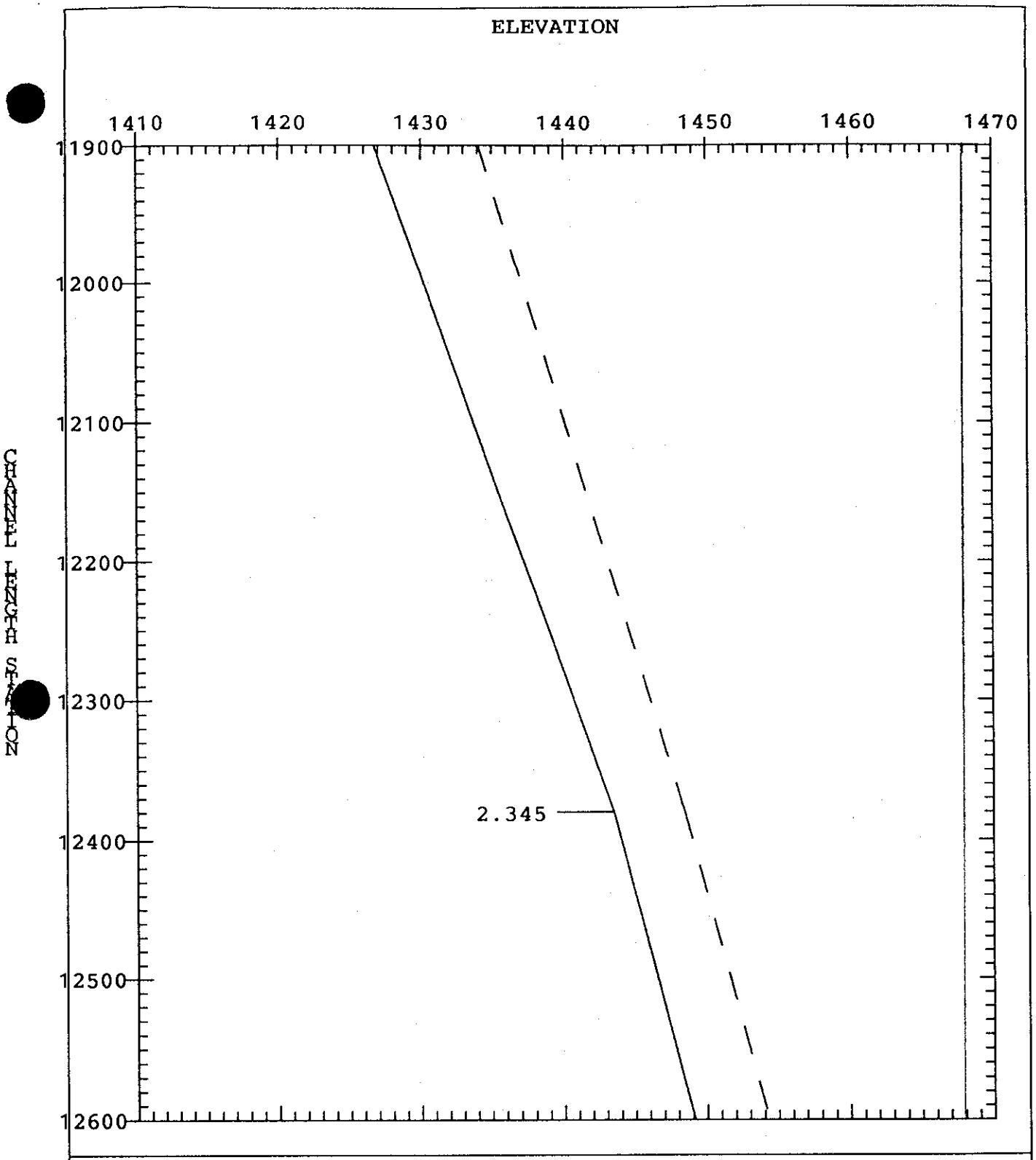
WASH 1A - CHOLLA WASH



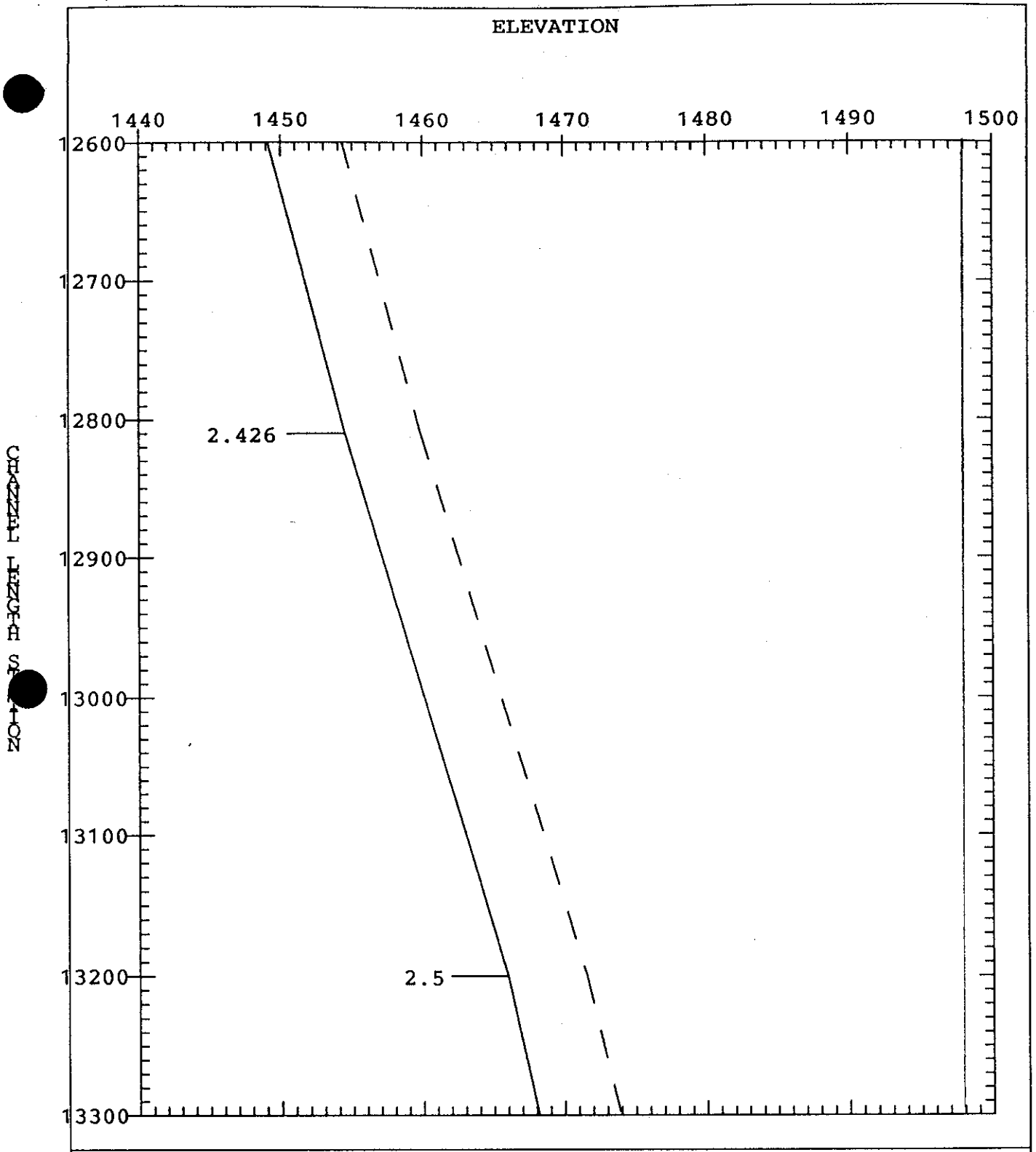
WASH 1A - CHOLLA WASH



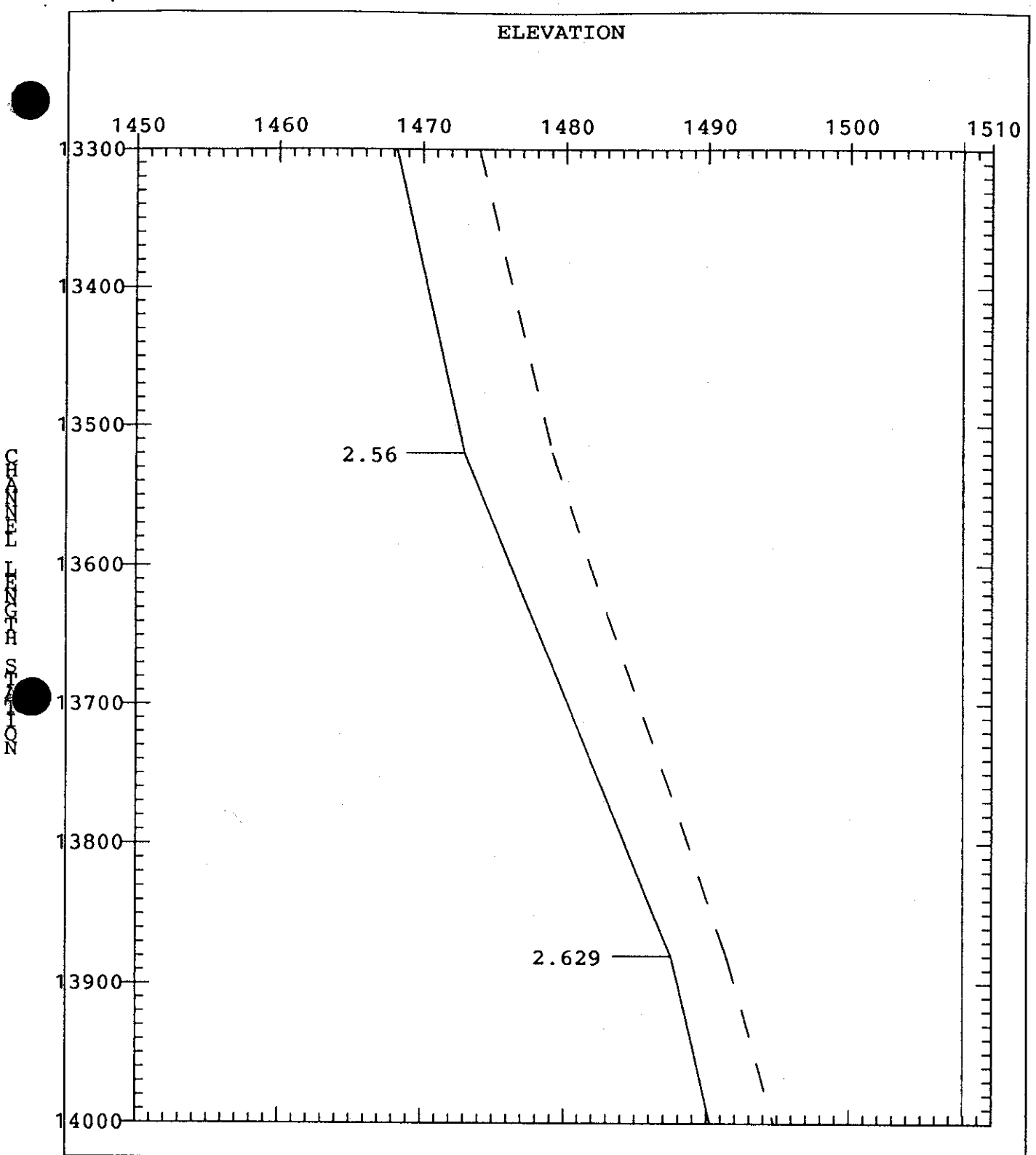
WASH 1A - CHOLLA WASH



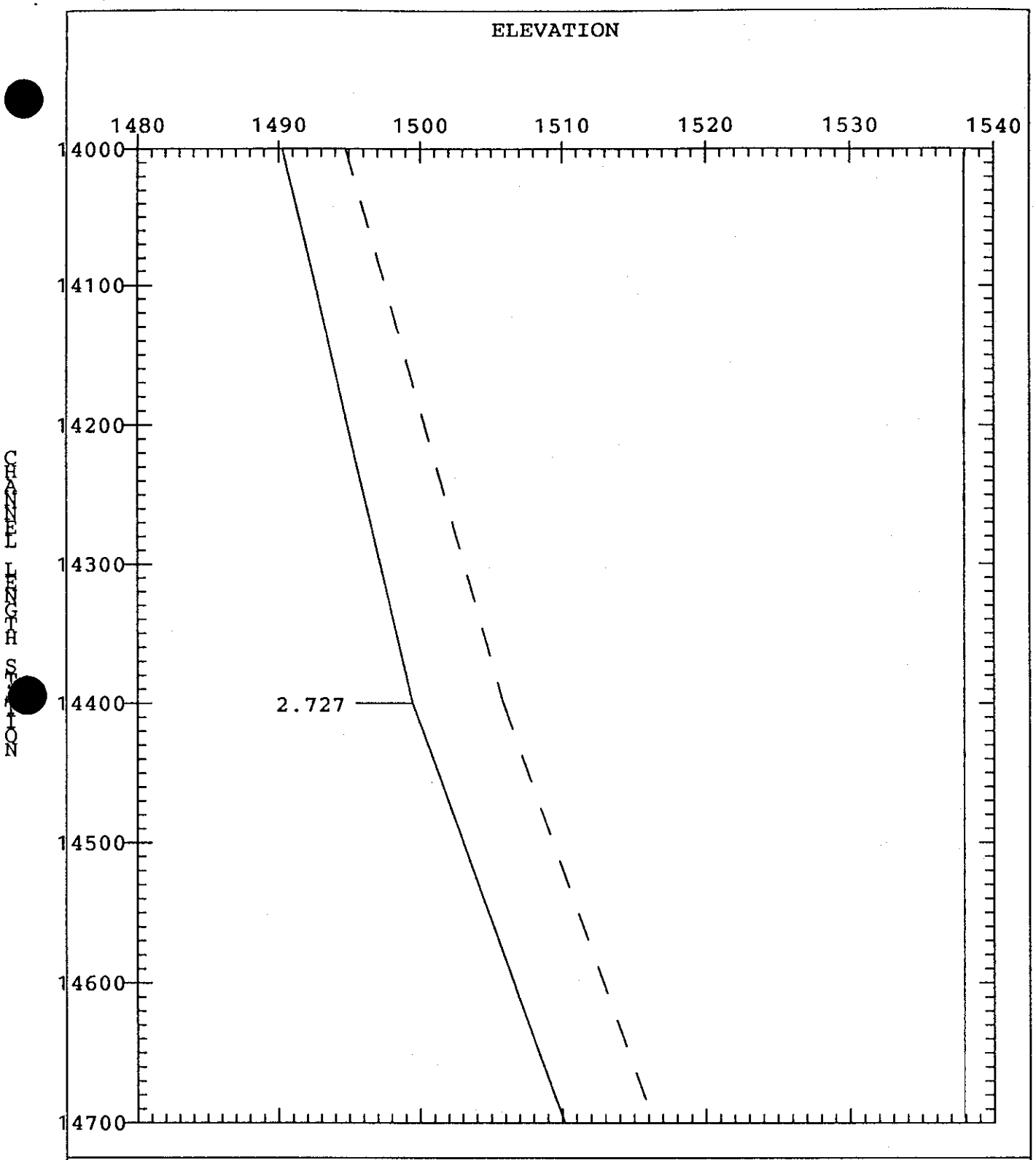
WASH 1A - CHOLLA WASH



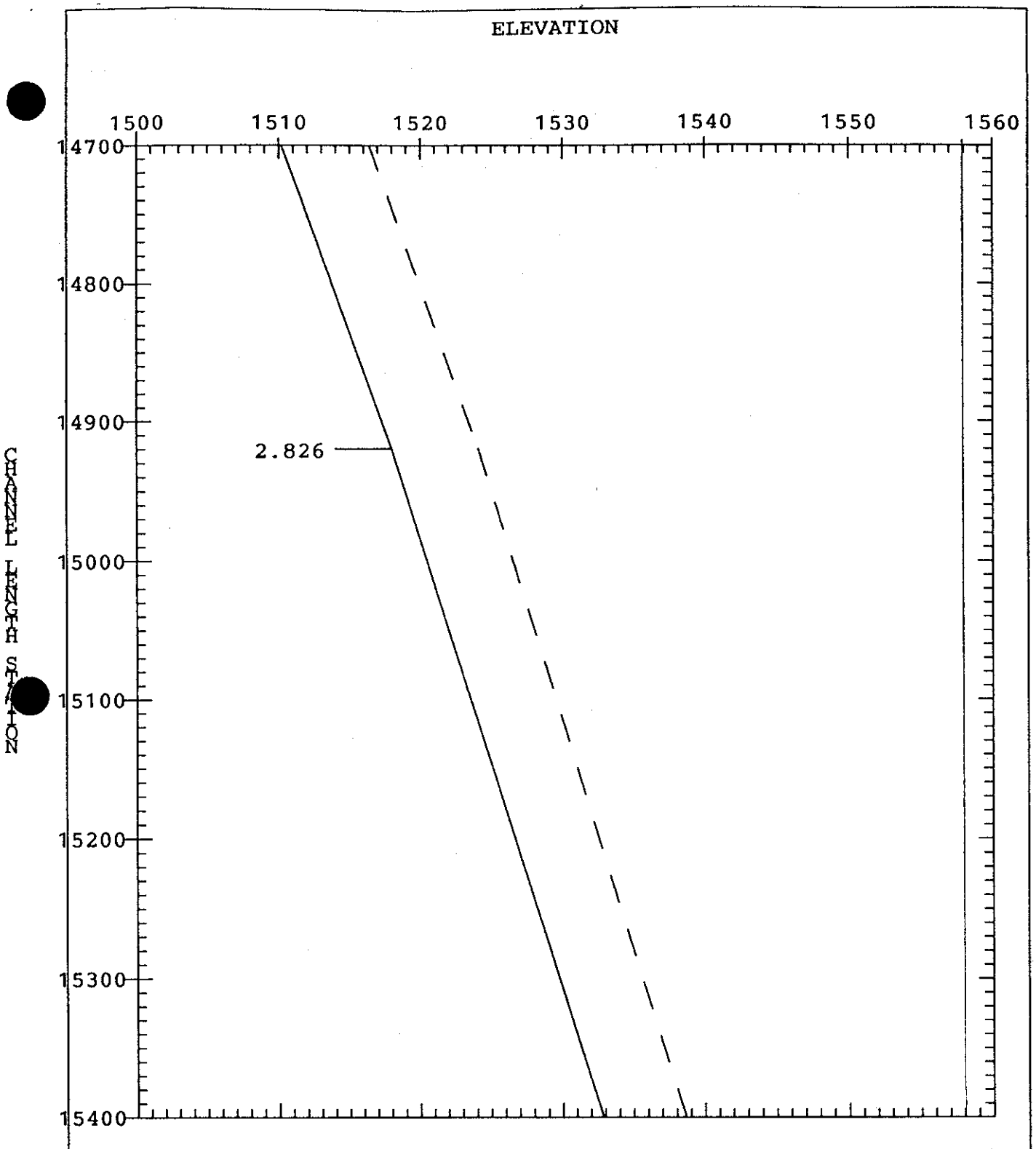
WASH 1A - CHOLLA WASH



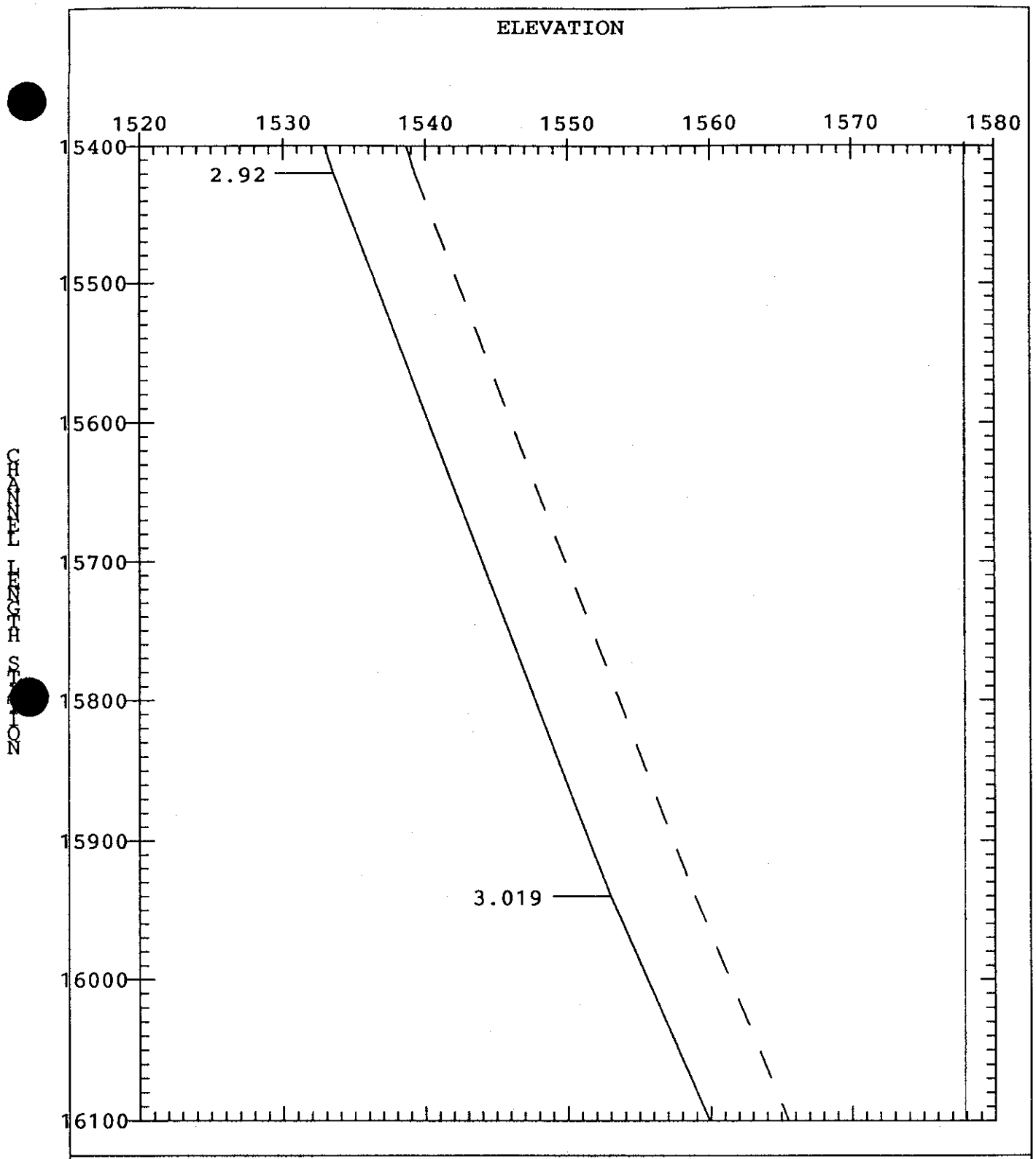
WASH 1A - CHOLLA WASH



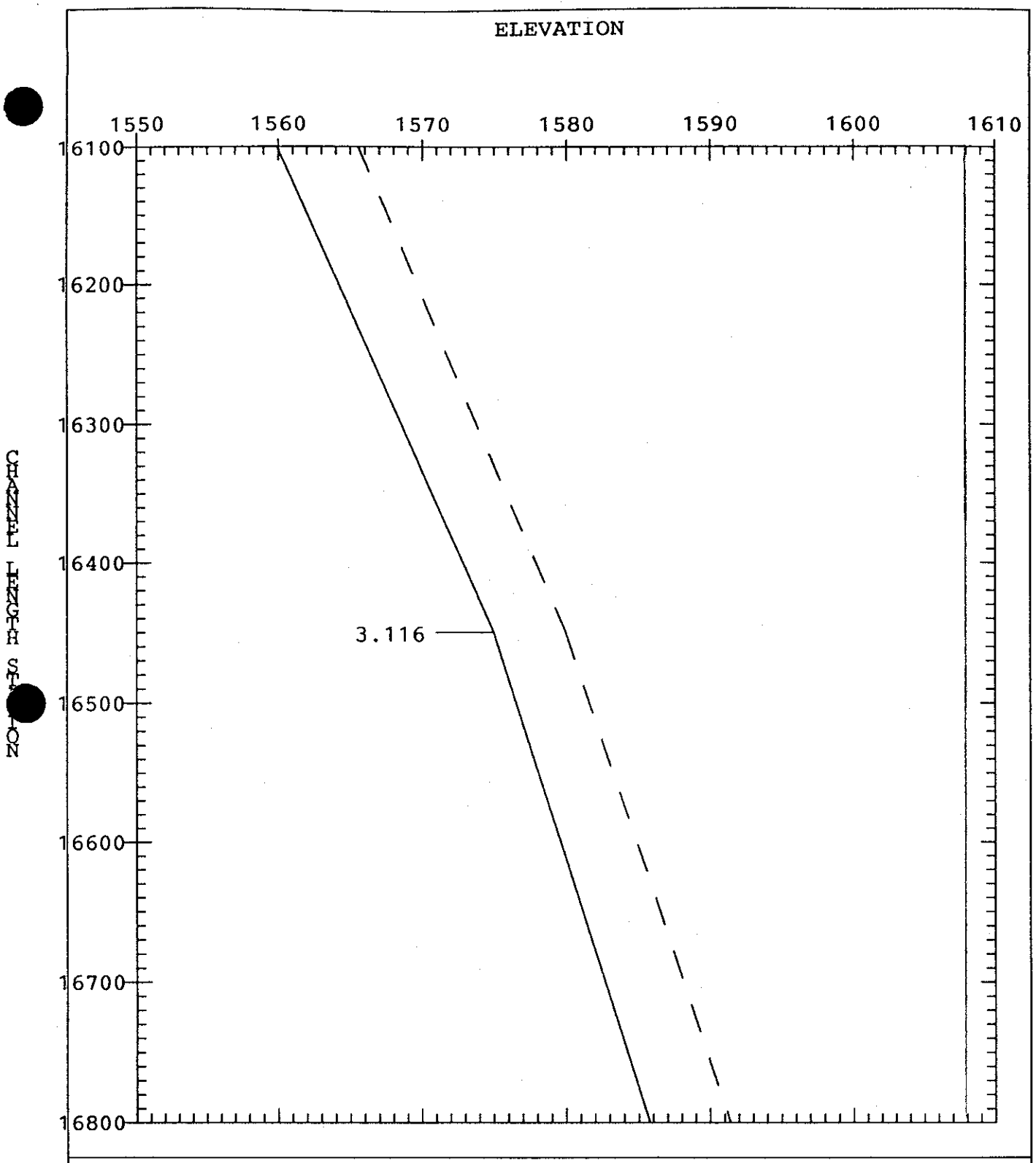
WASH 1A - CHOLLA WASH



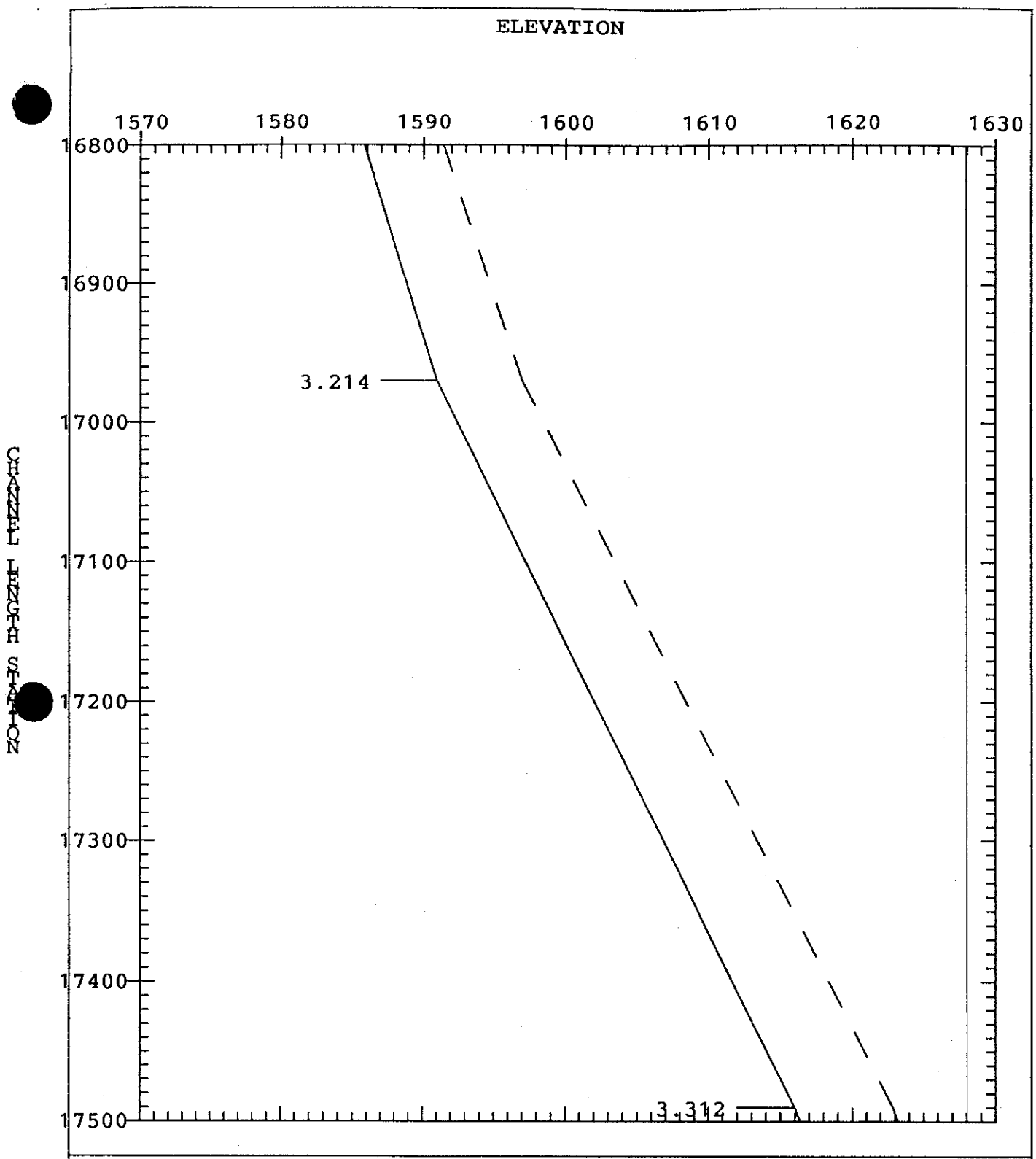
WASH 1A - CHOLLA WASH



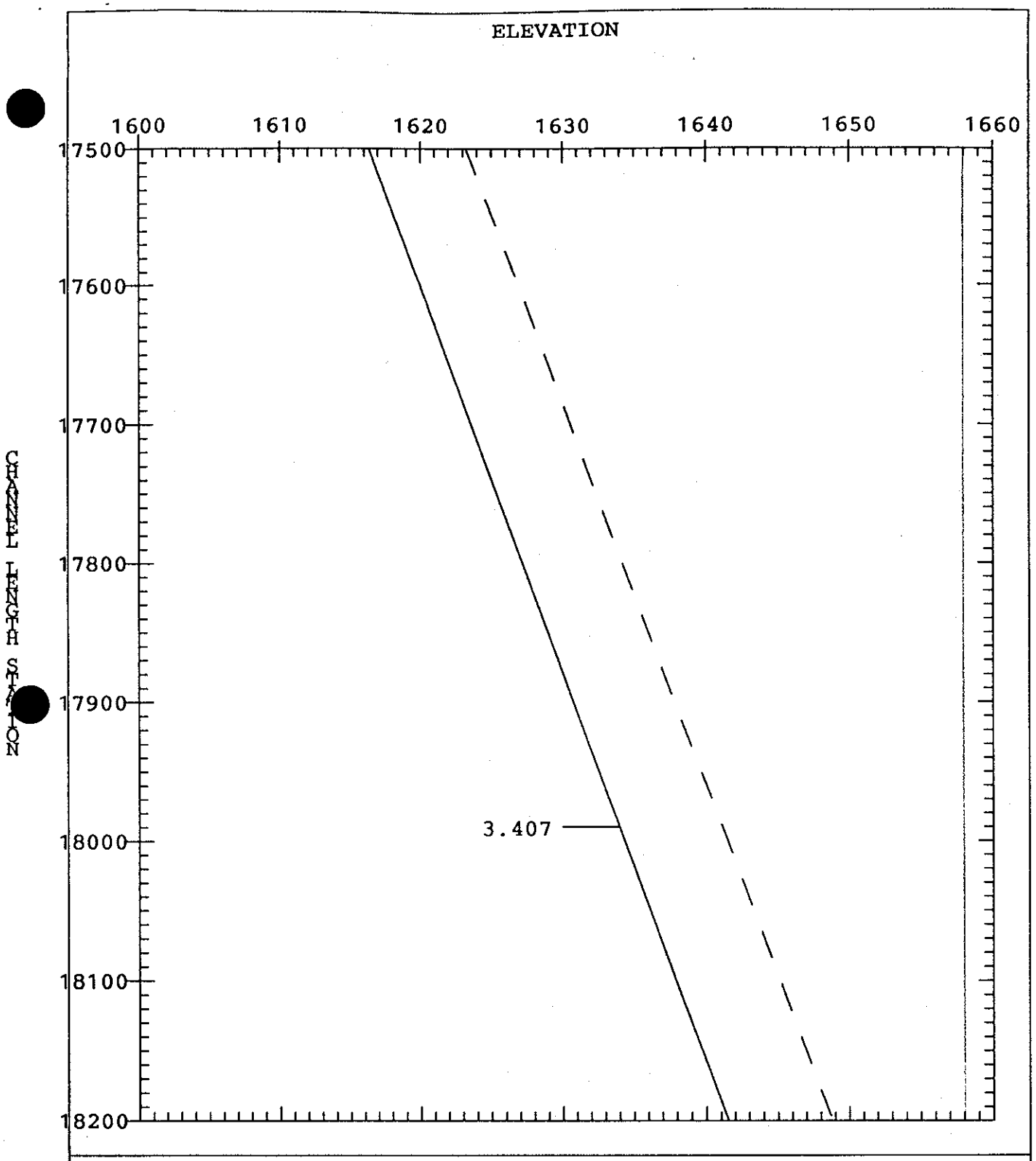
WASH 1A - CHOLLA WASH



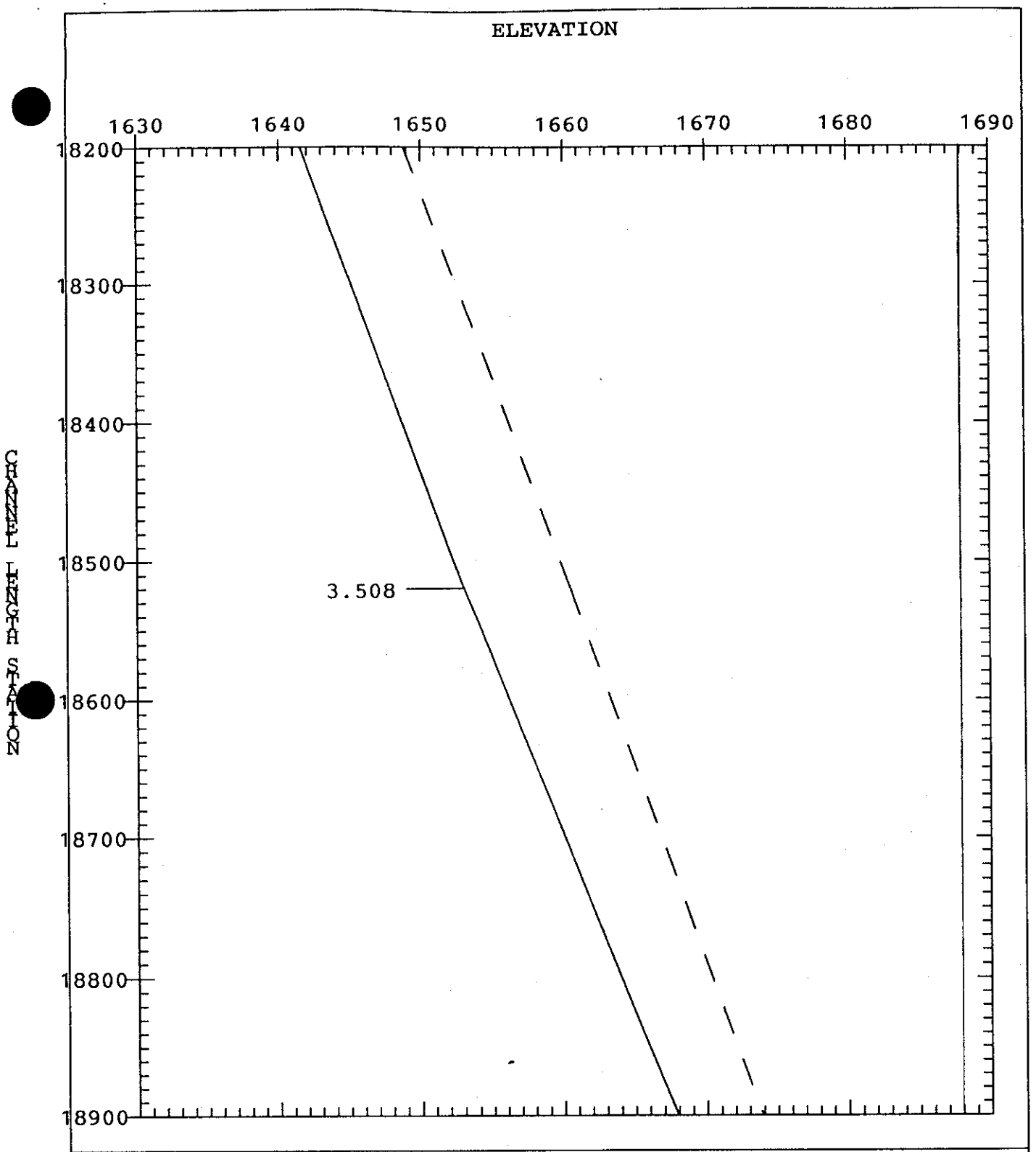
WASH 1A - CHOLLA WASH



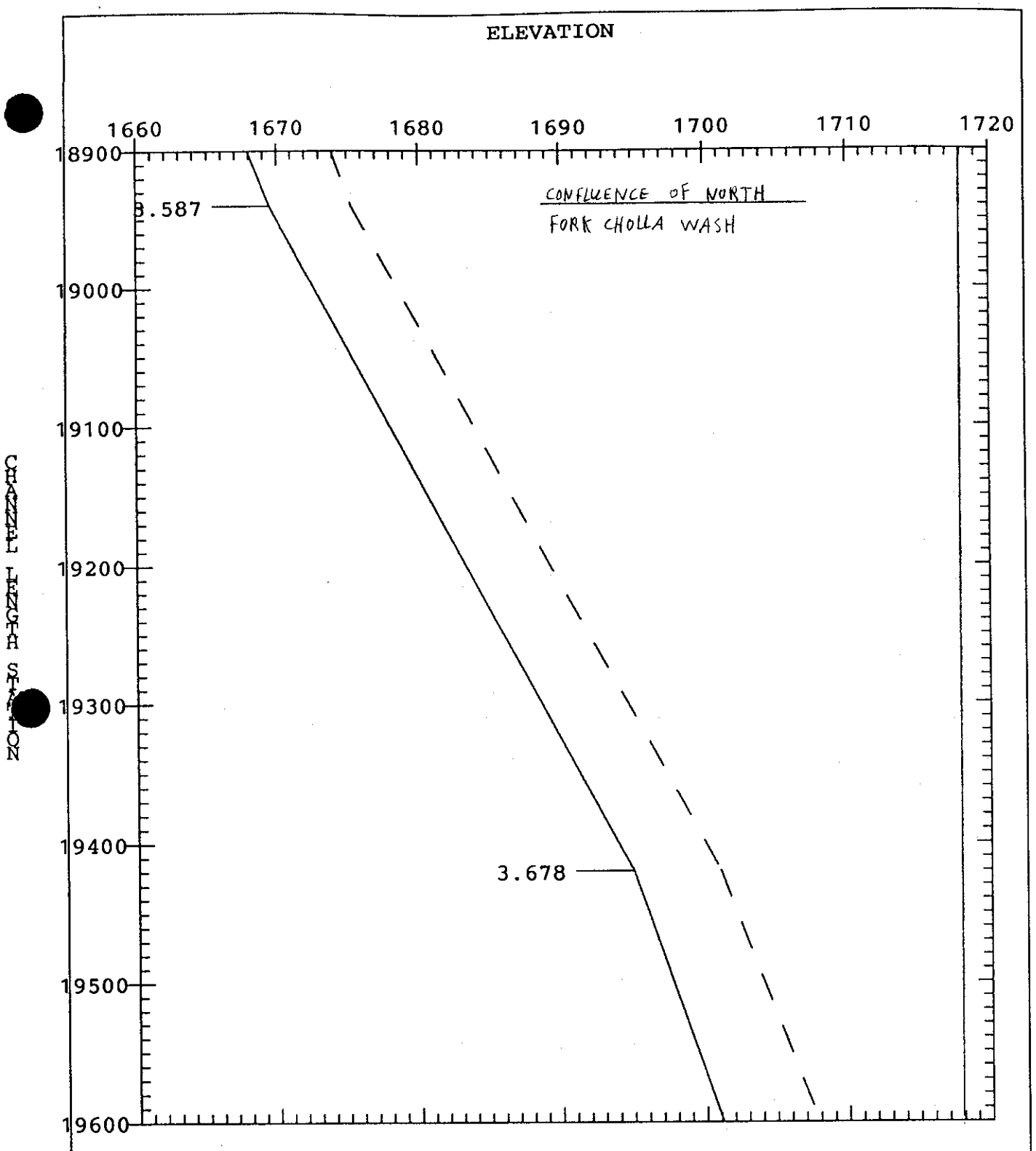
WASH 1A - CHOLLA WASH



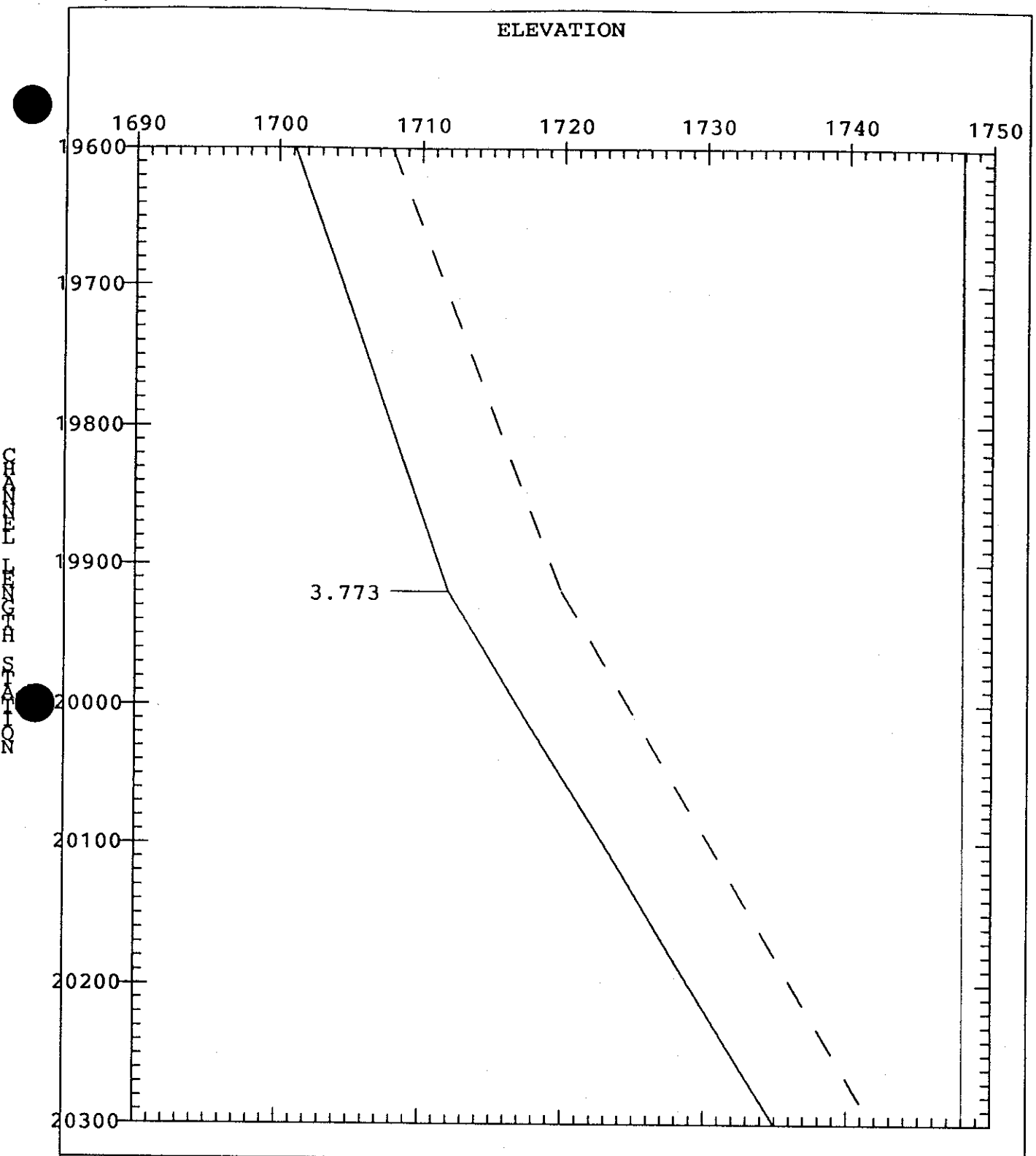
WASH 1A - CHOLLA WASH



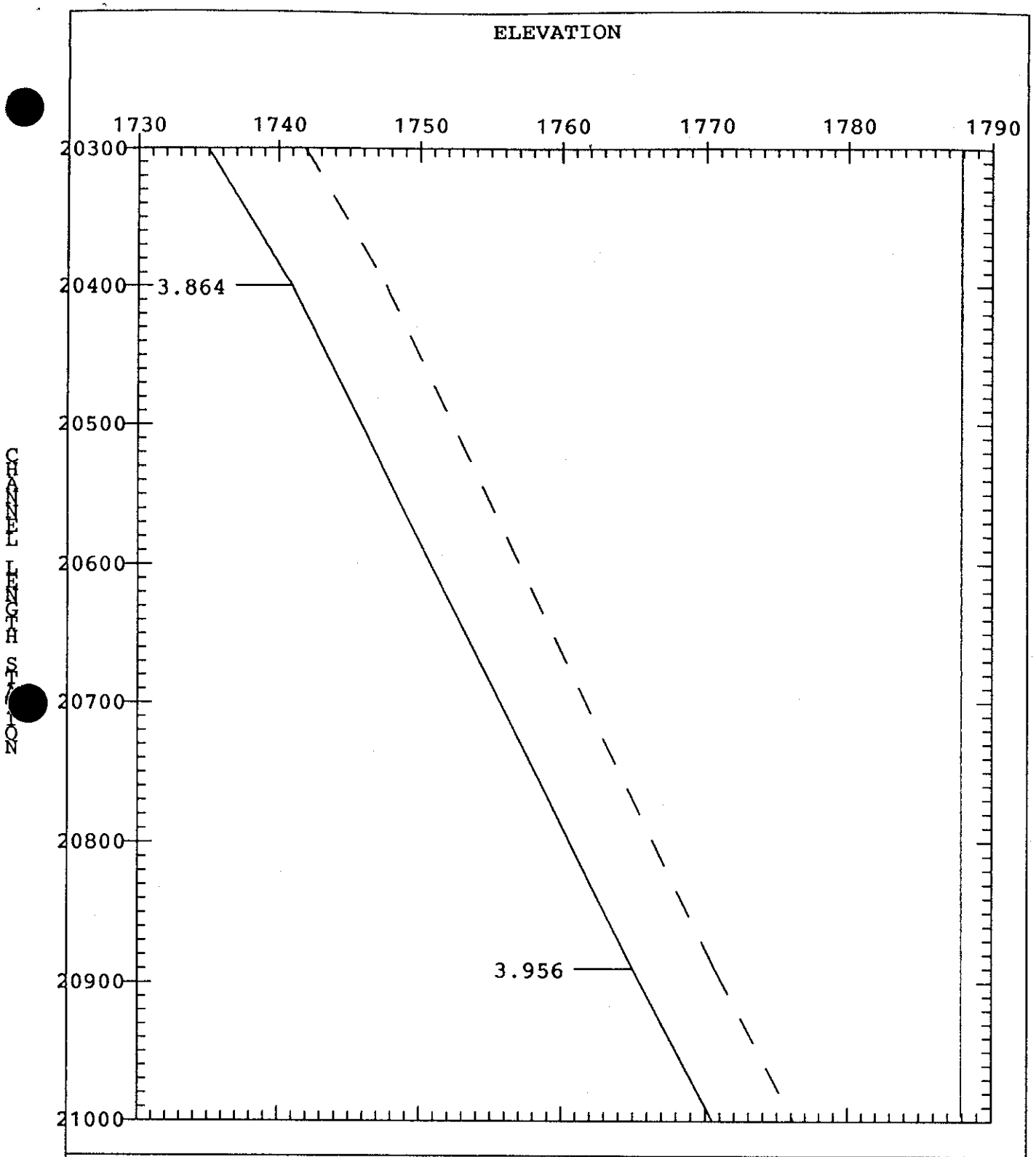
WASH 1A - CHOLLA WASH



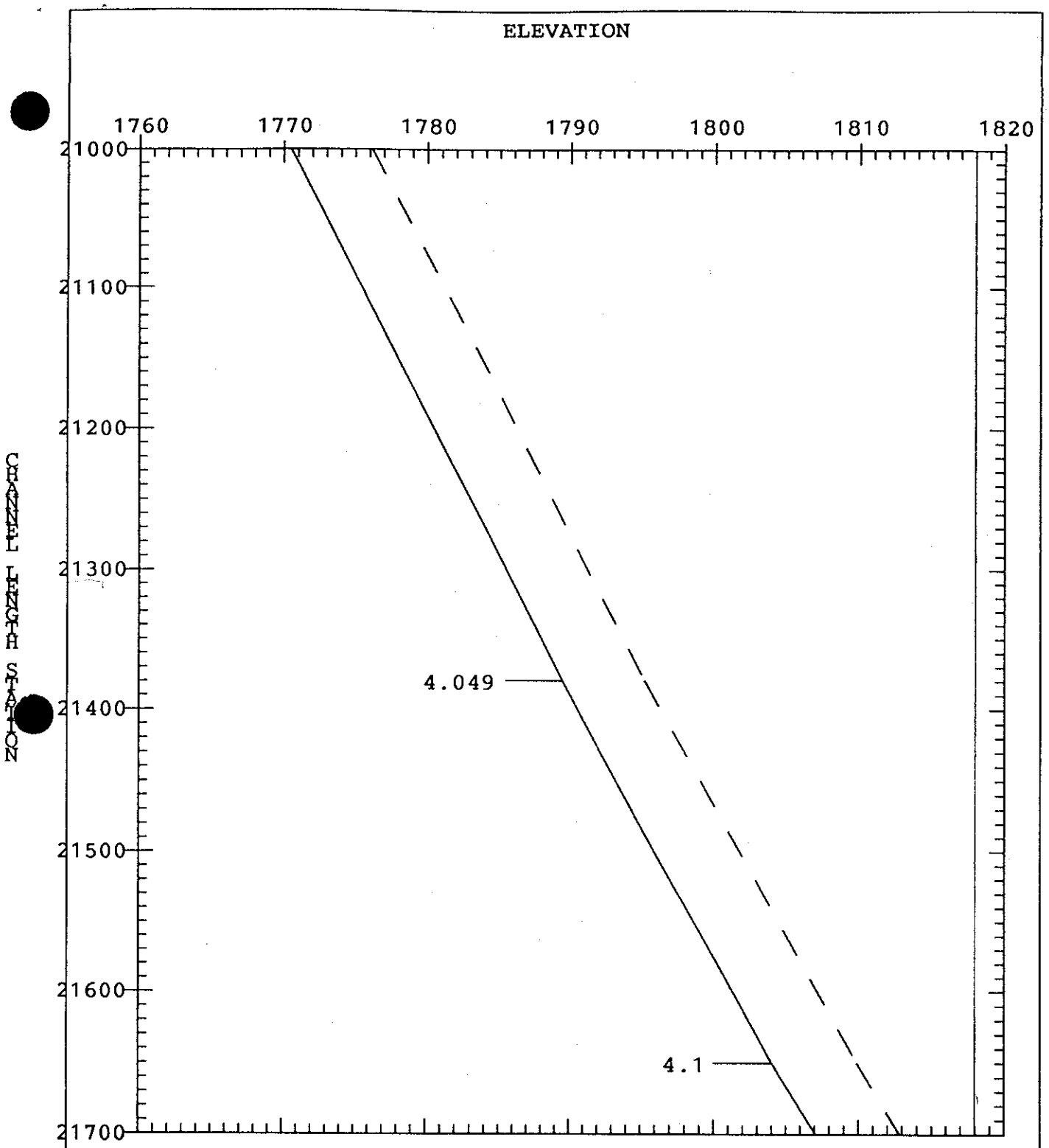
WASH 1A - CHOLLA WASH



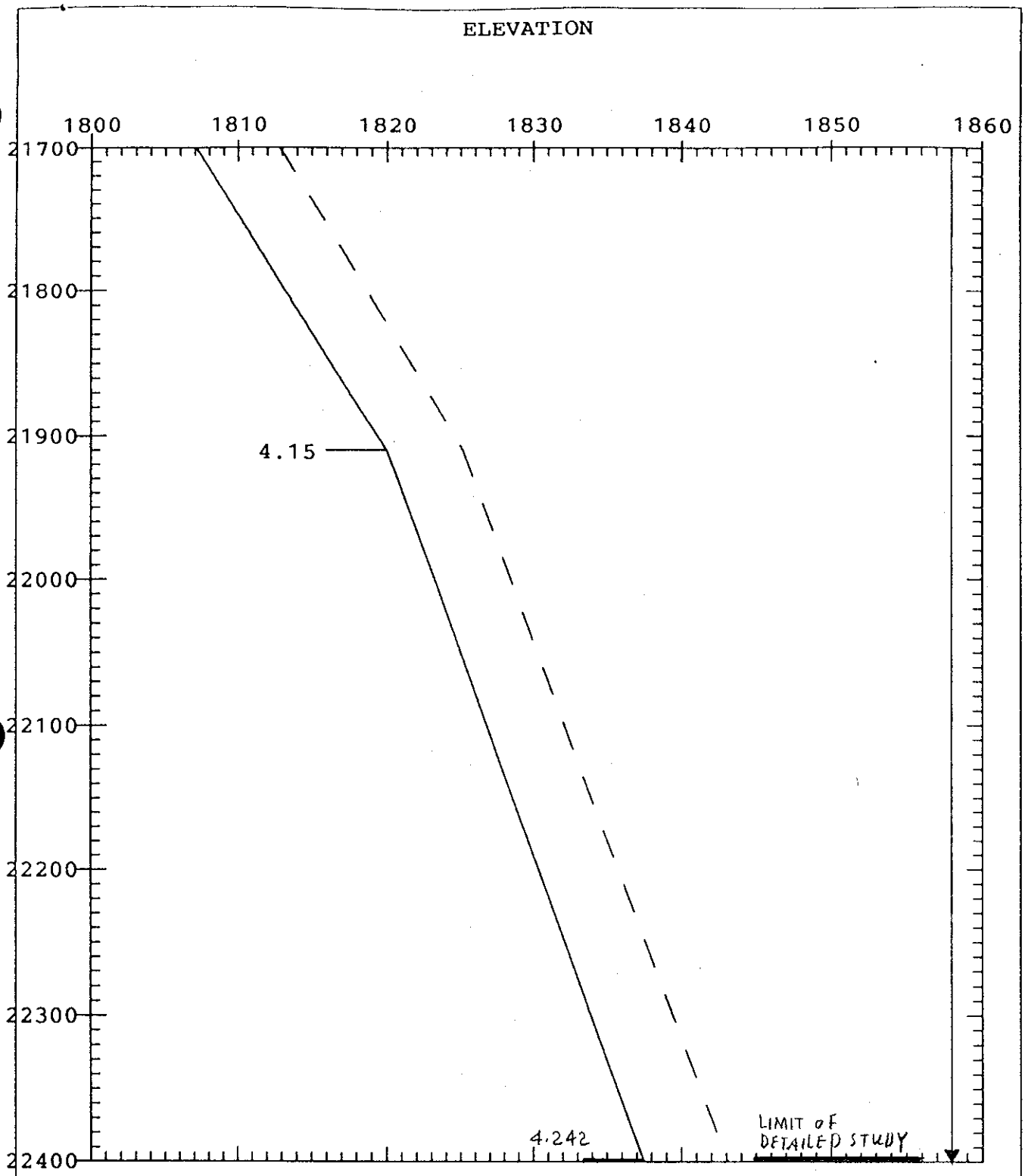
WASH 1A - CHOLLA WASH



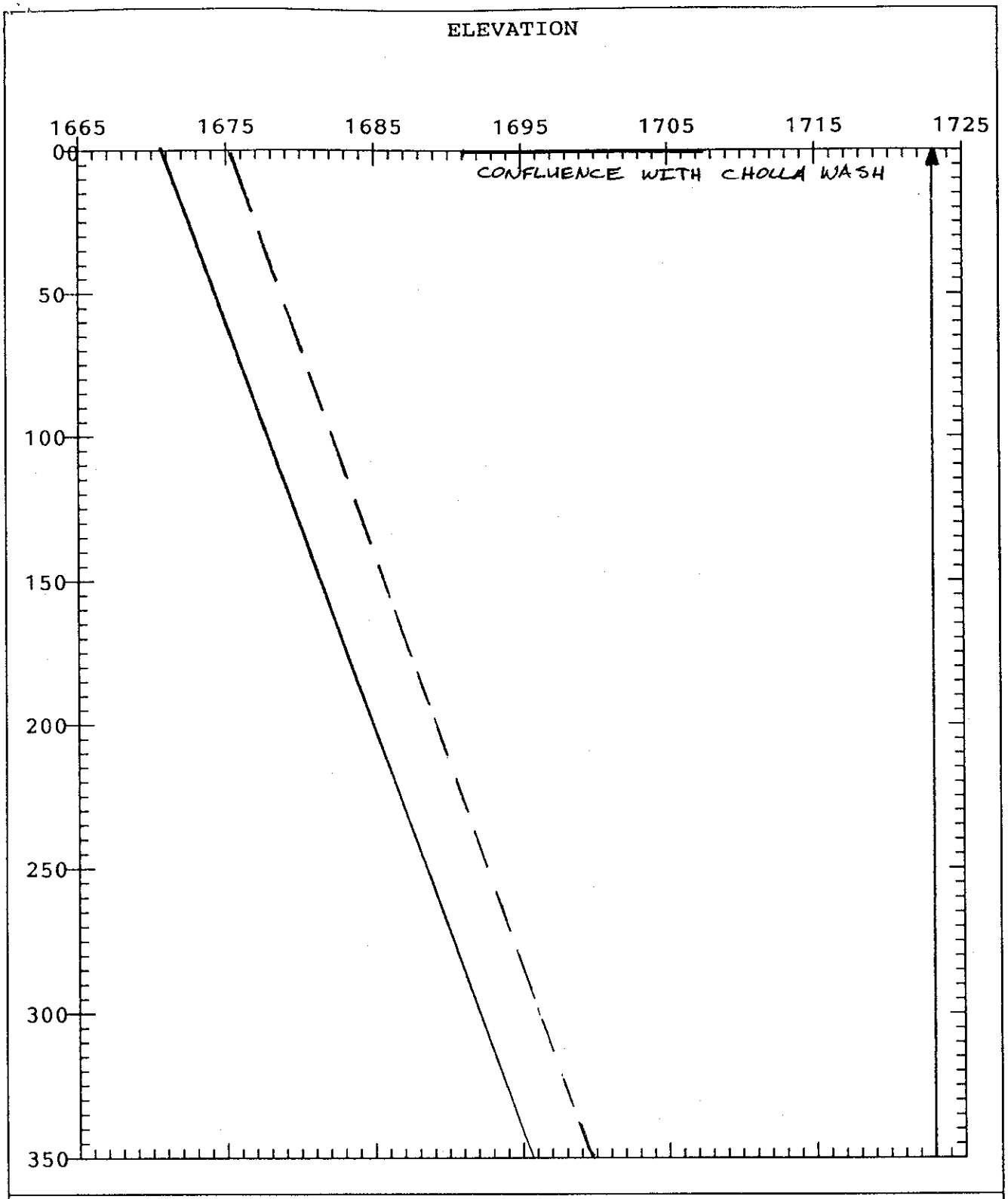
WASH 1A - CHOLLA WASH



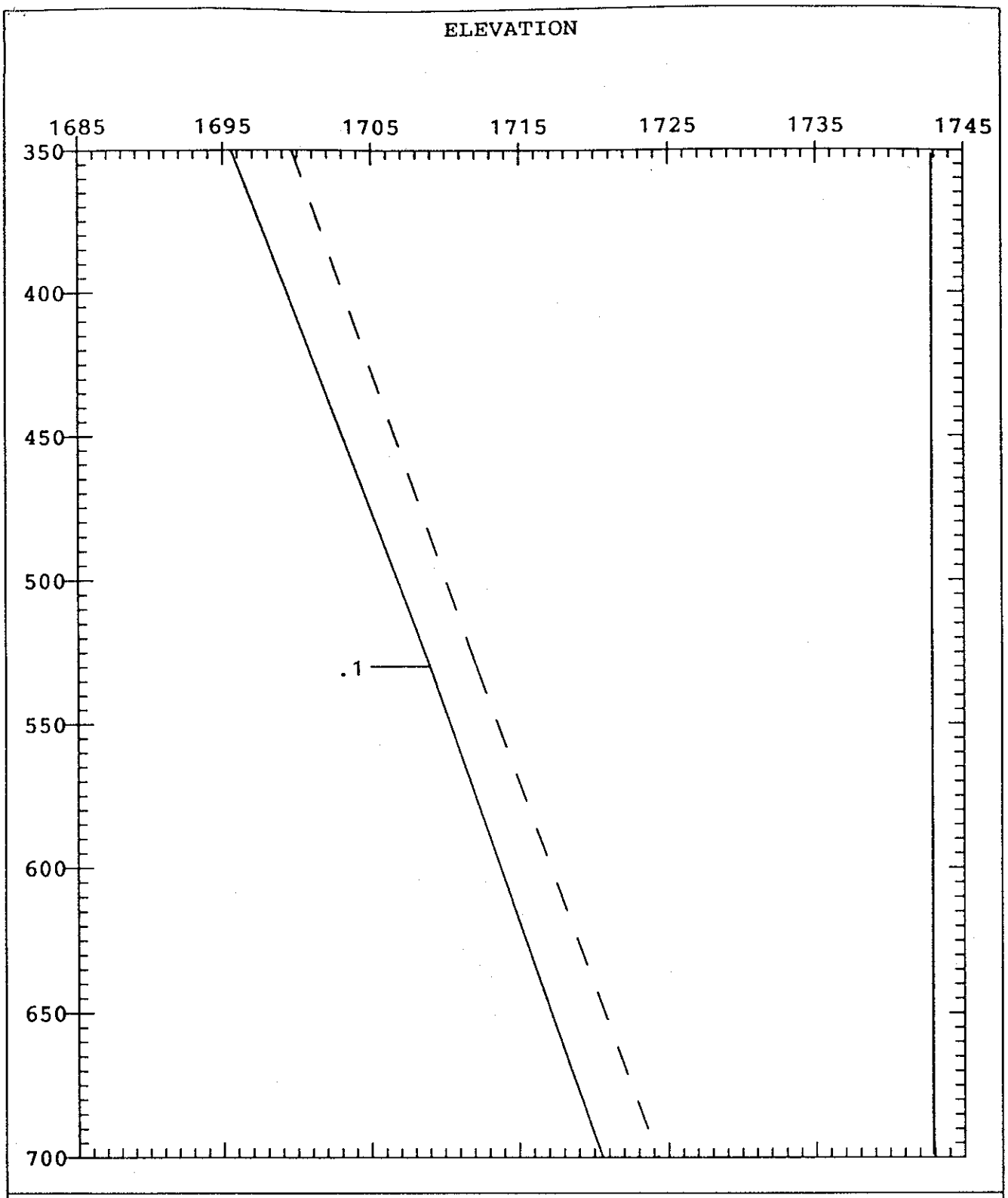
WASH 1A - CHOLLA WASH



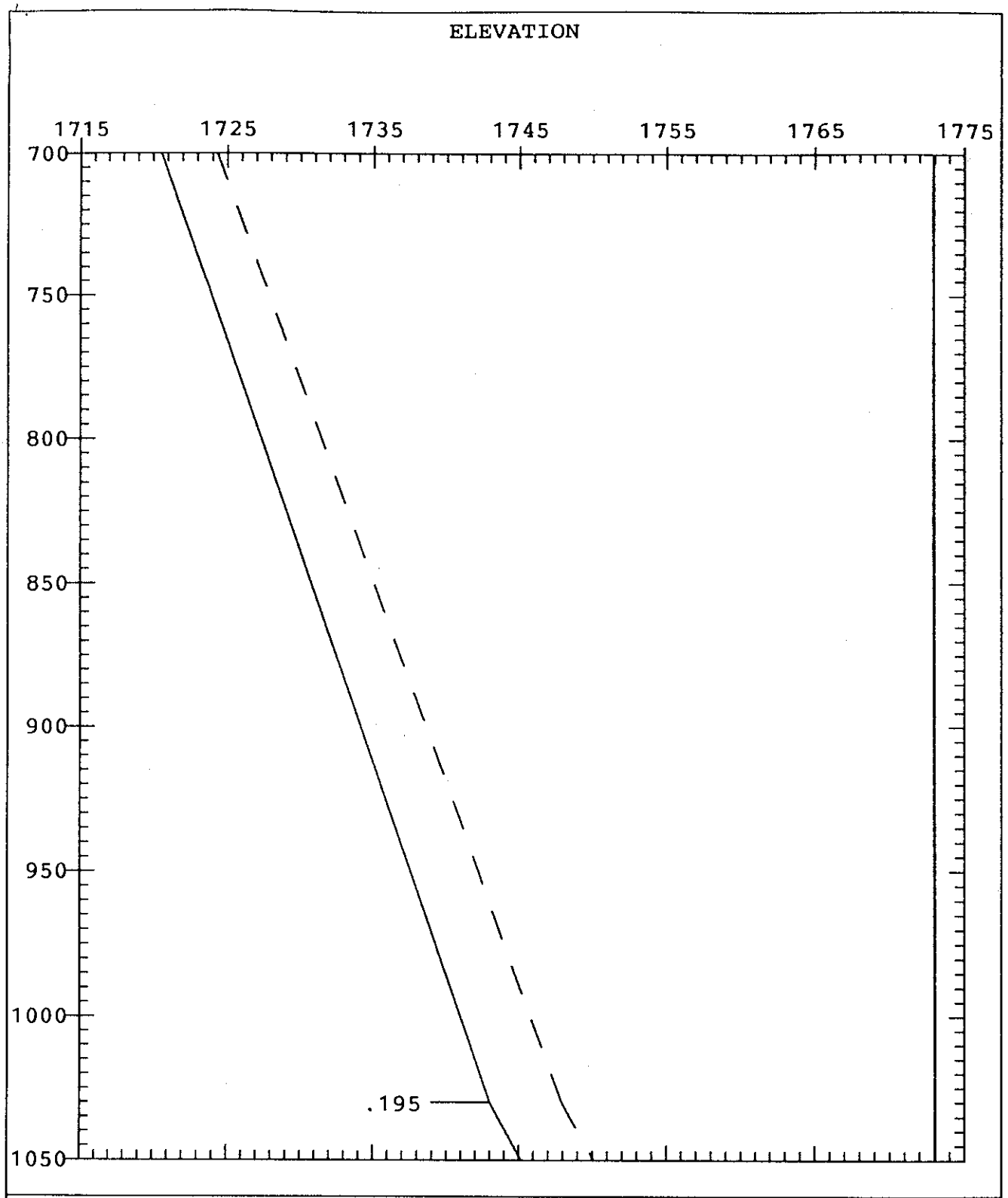
WASH 1A - CHOLLA WASH



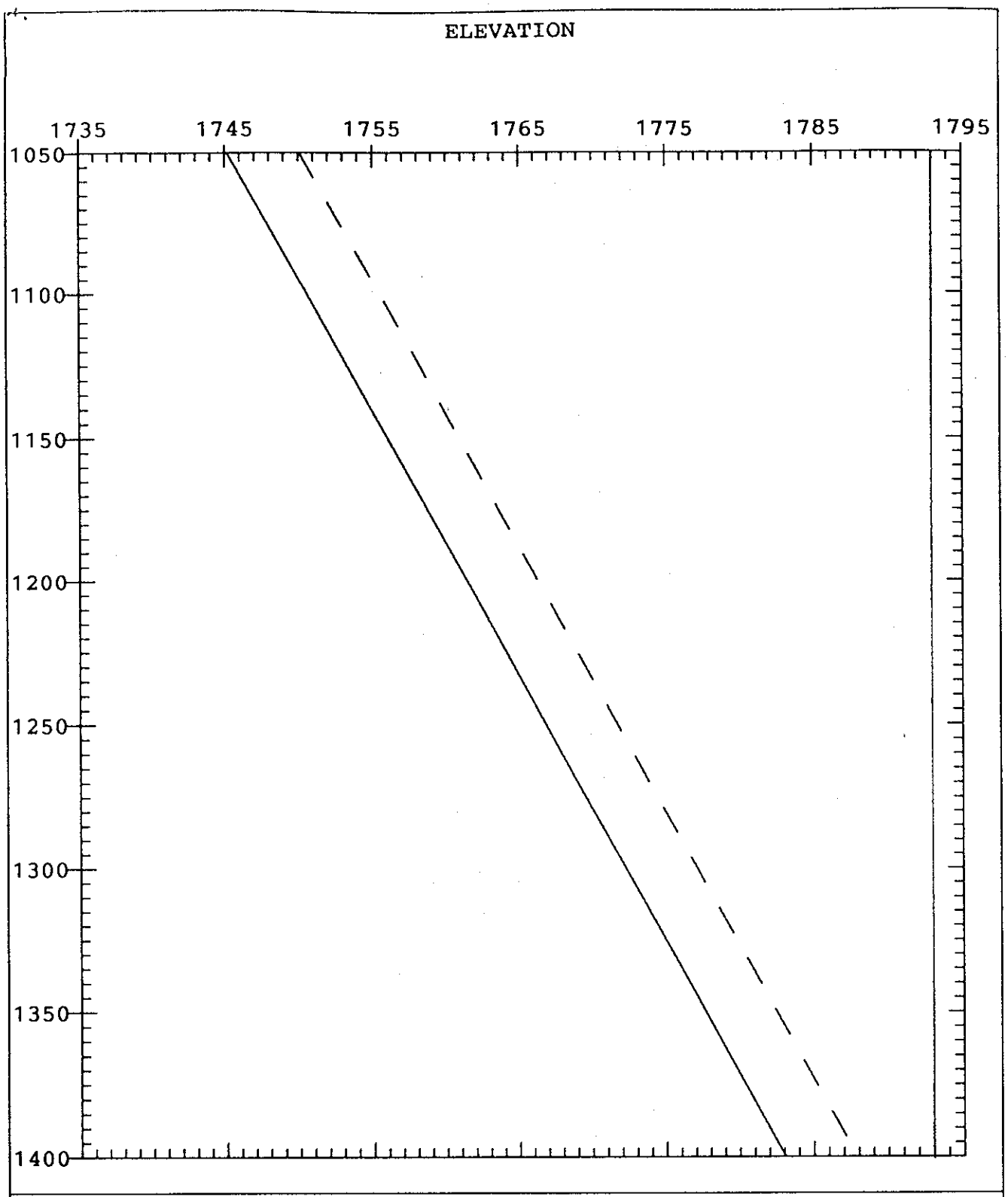
WASH 1A1 - NORTH FORK CHOLLA WASH



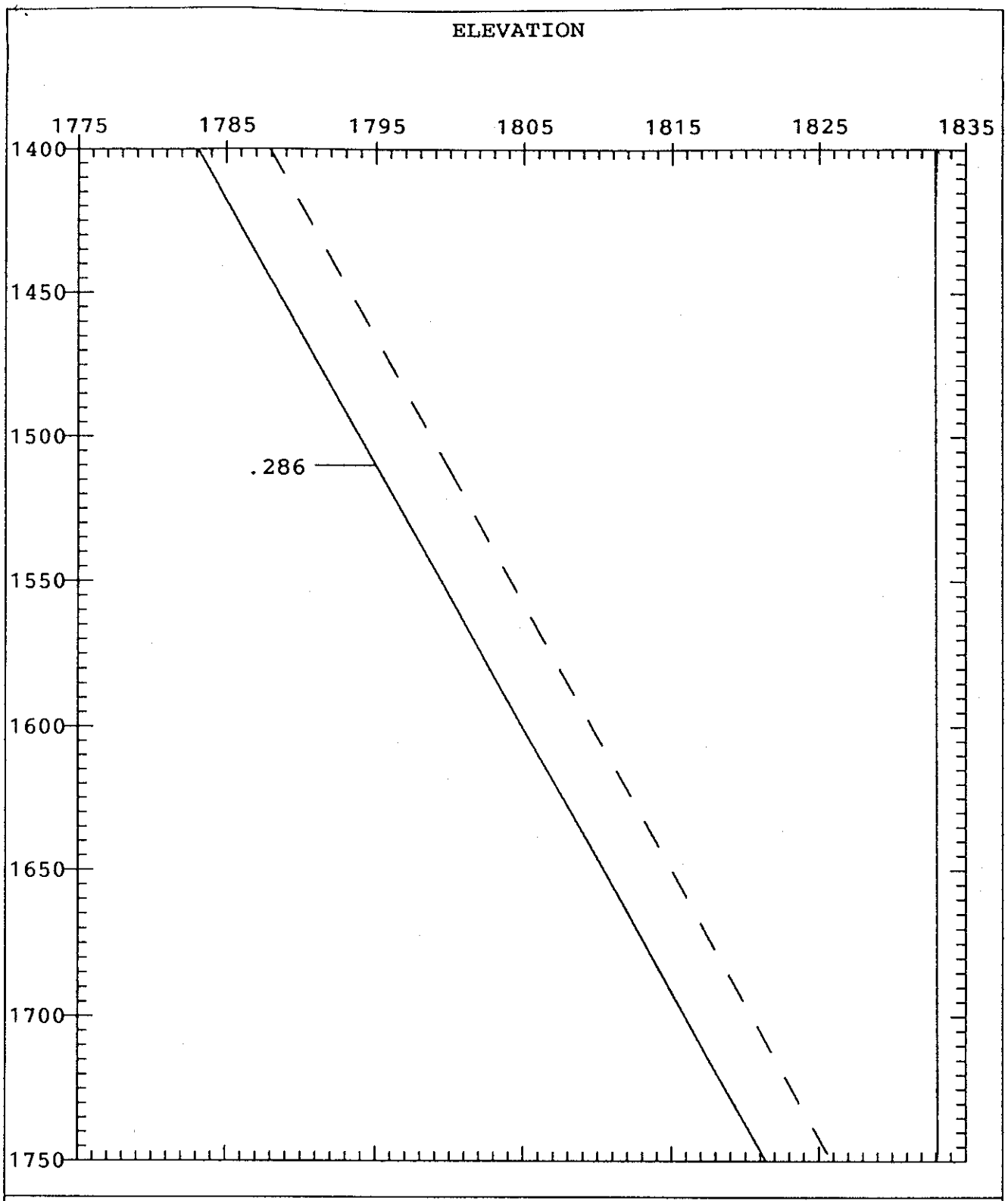
WASH 1A1 - NORTH FORK CHOLLA WASH



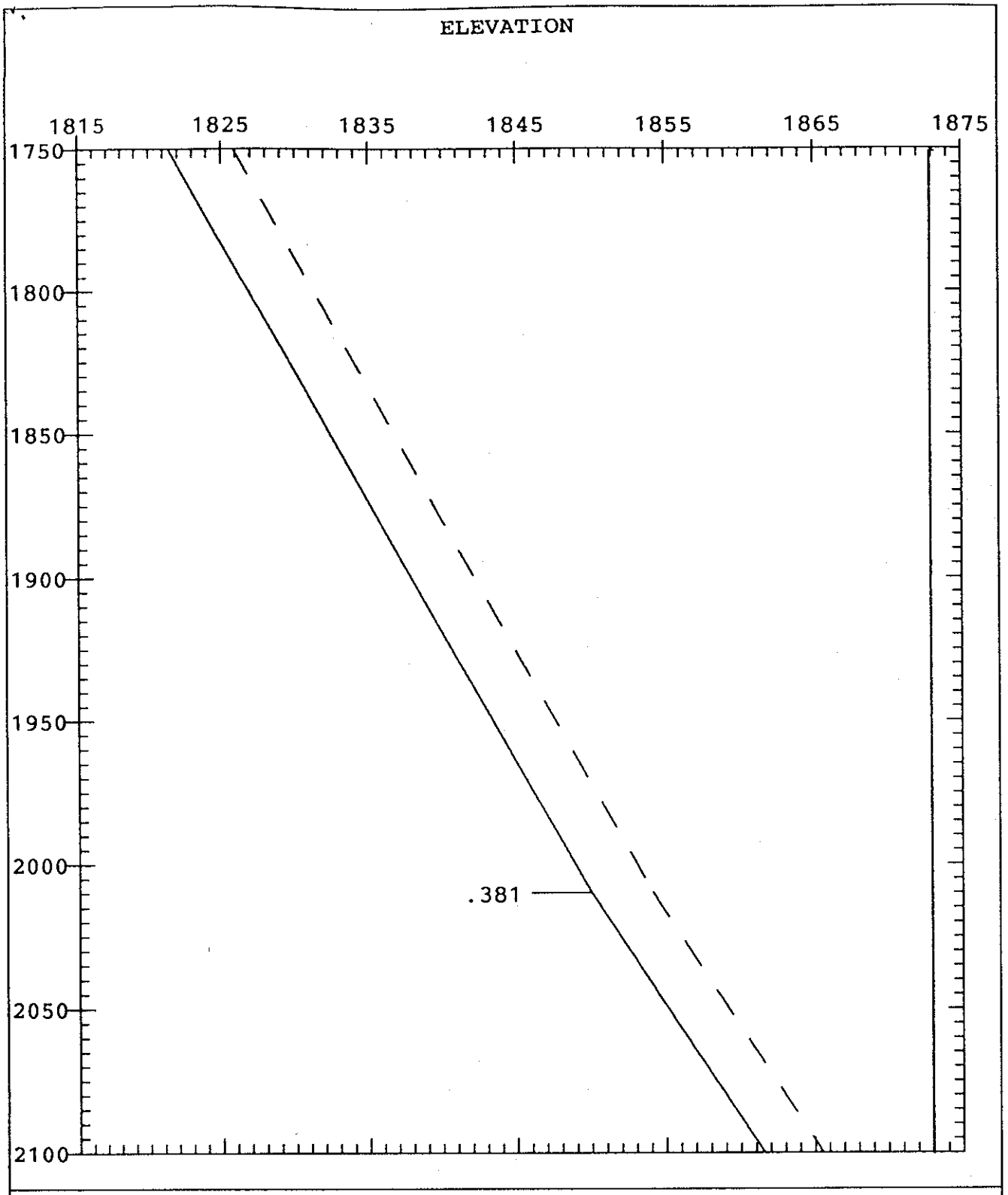
WASH 1A1 - NORTH FORK CHOLLA WASH



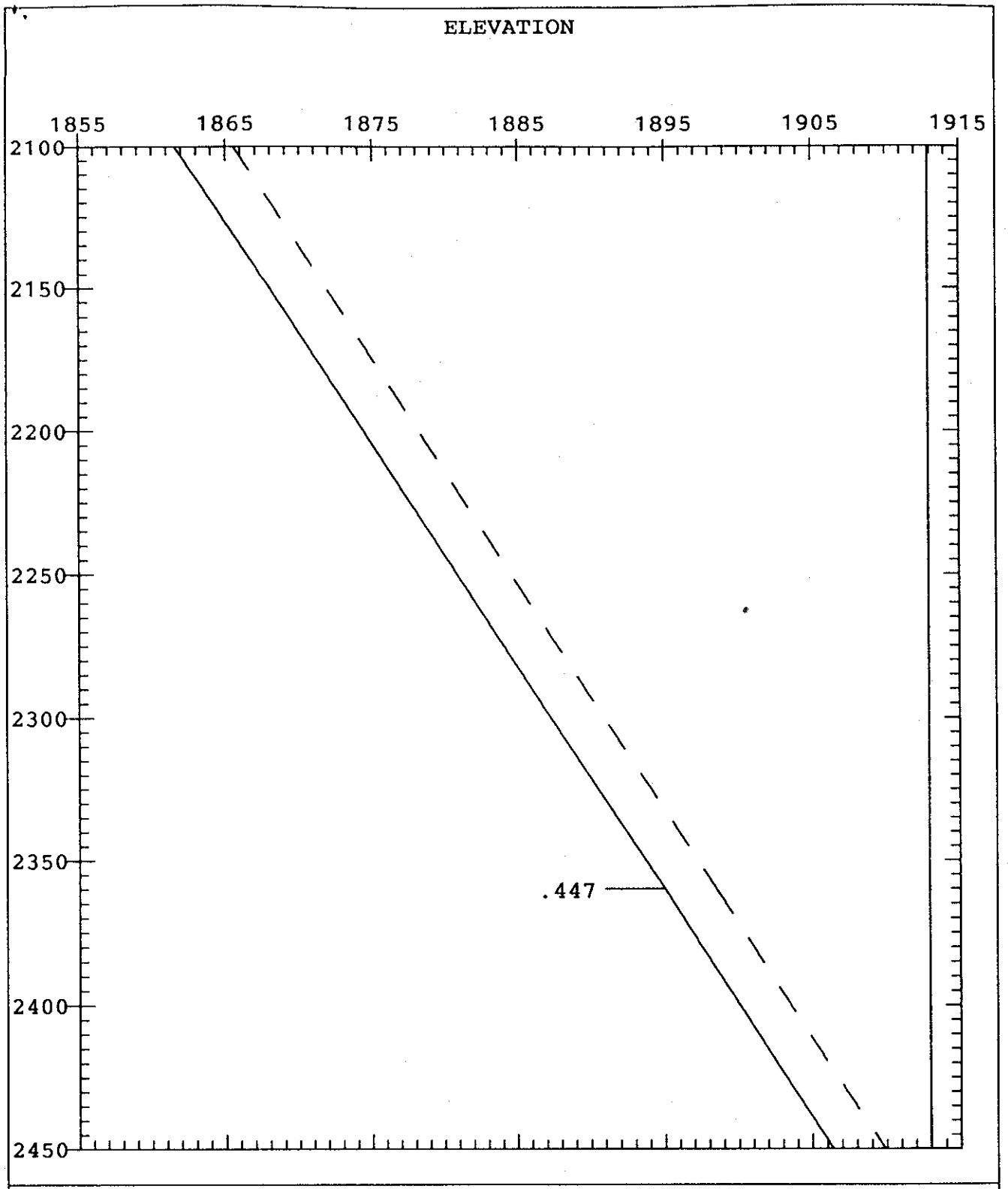
WASH 1A1 - NORTH FORK CHOLLA WASH



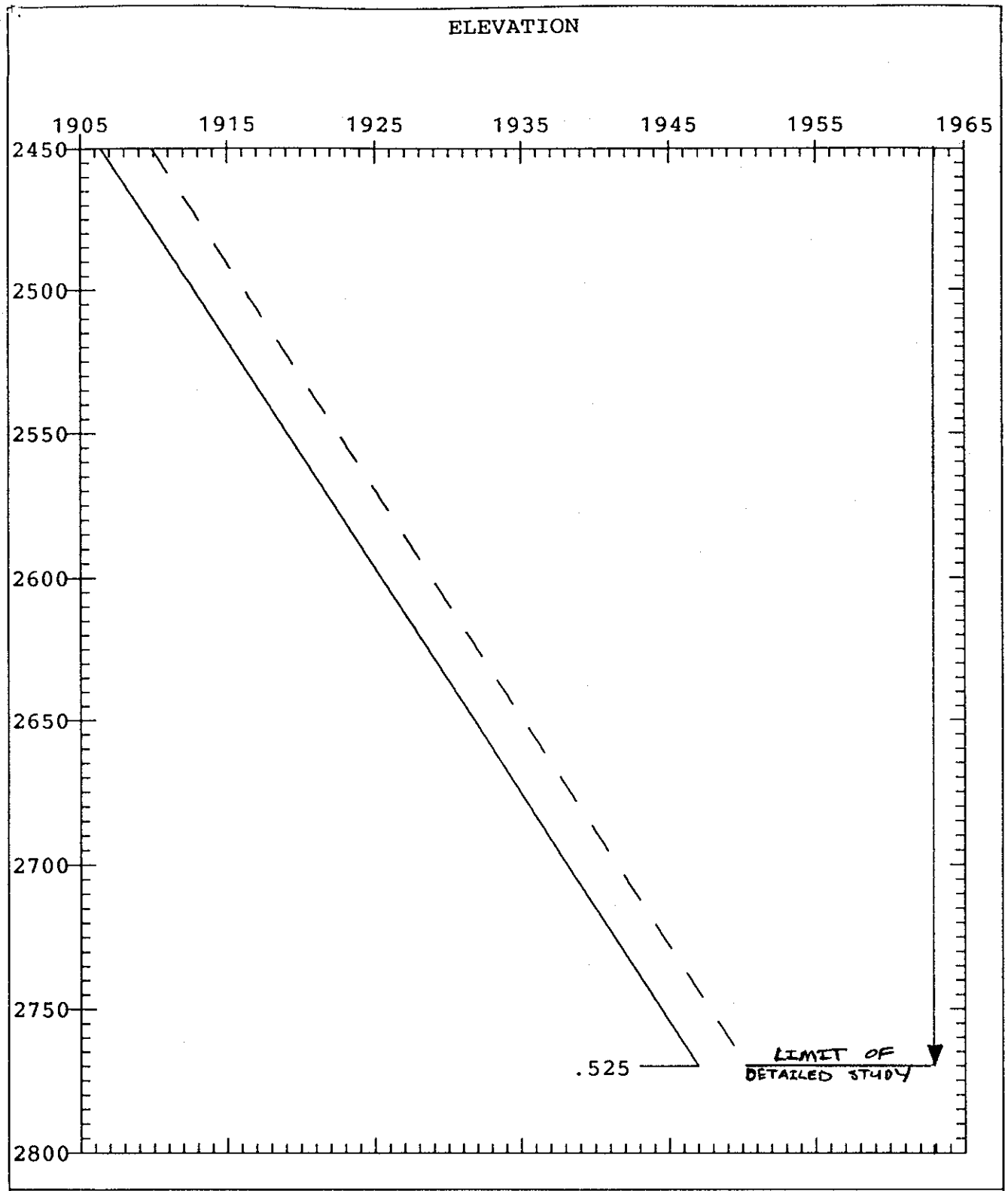
WASH 1A1 - NORTH FORK CHOLLA WASH



WASH 1A1 - NORTH FORK CHOLLA WASH

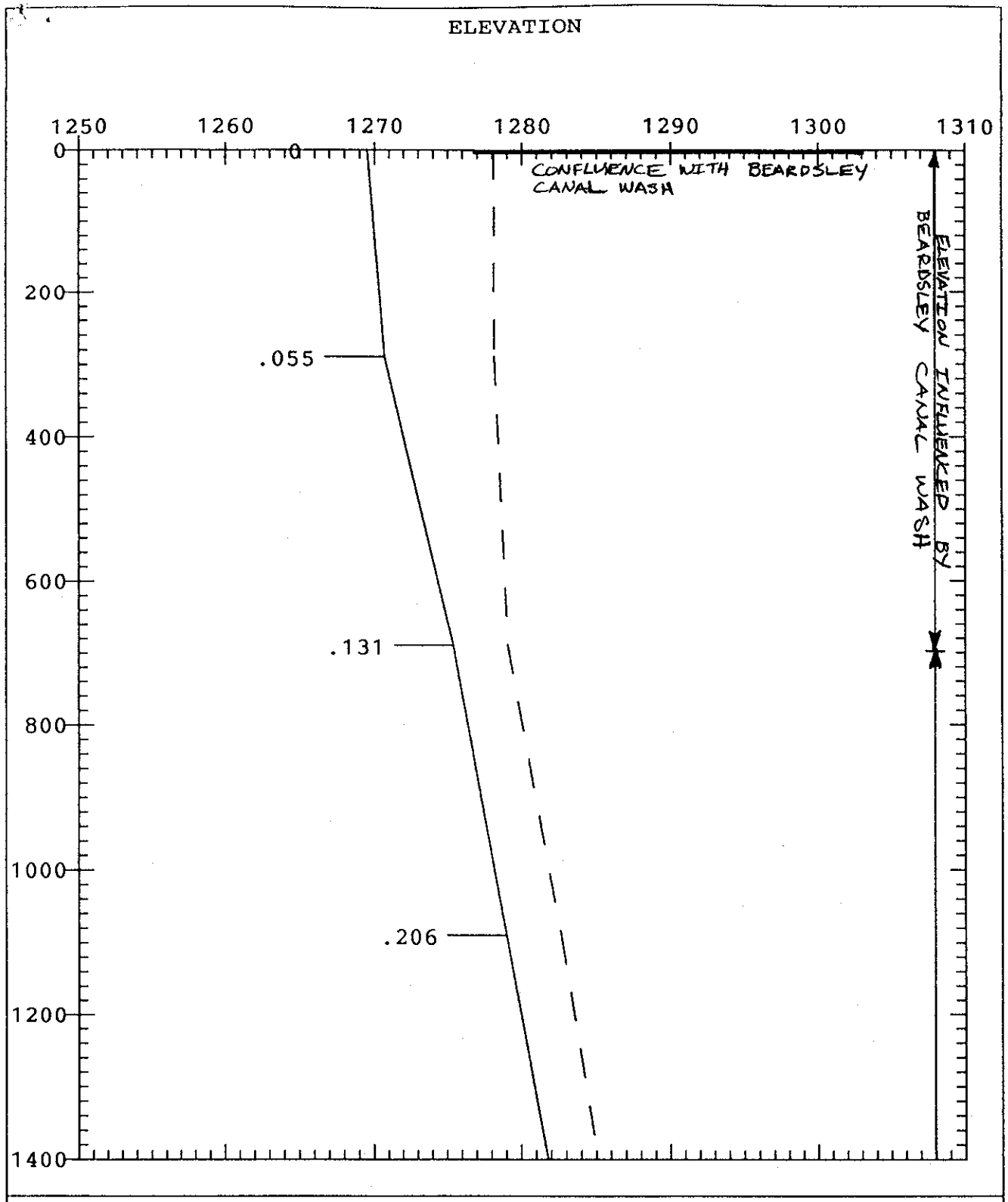


WASH 1A1 - NORTH FORK CHOLLA WASH

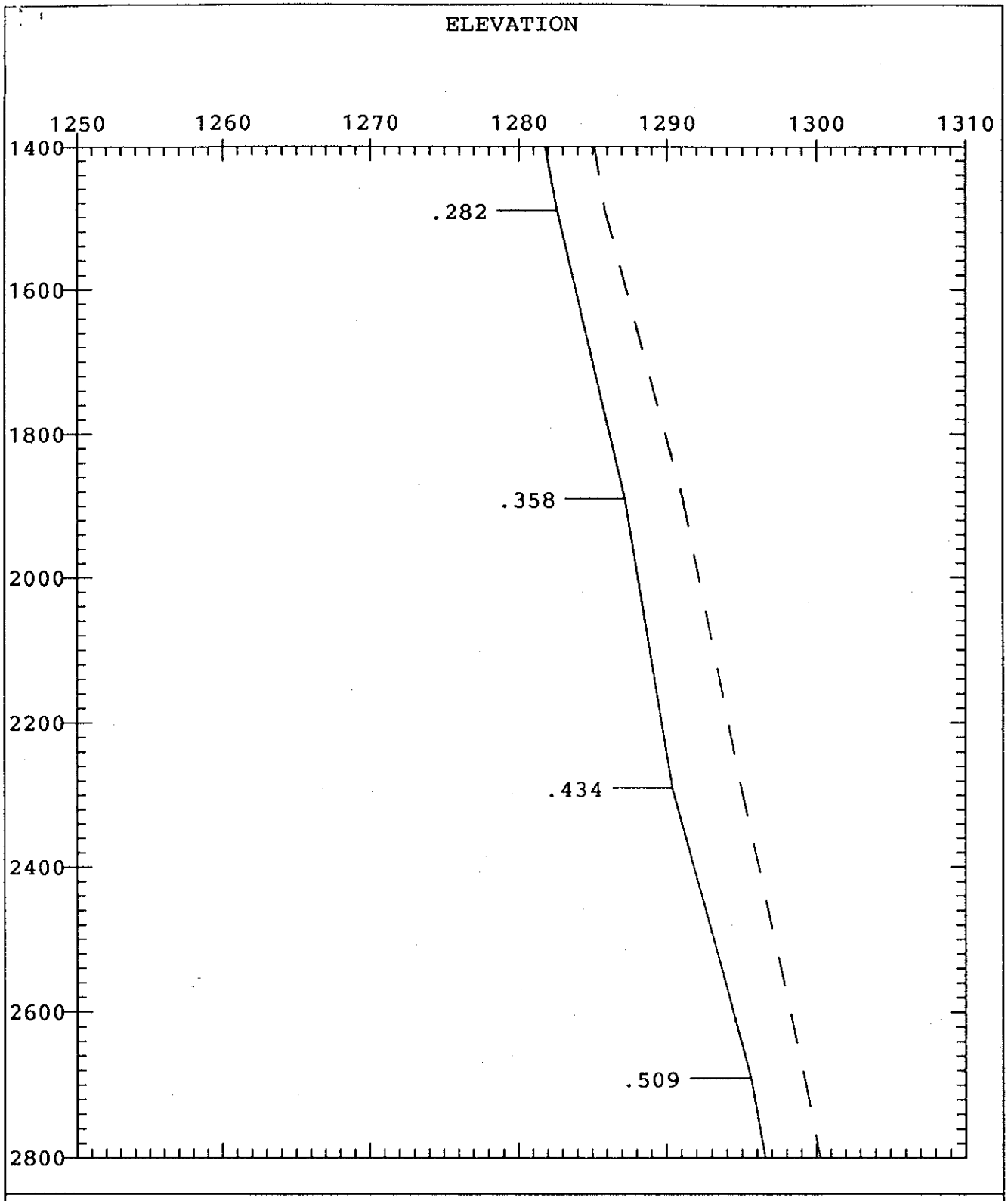


WASH 1A1 - NORTH FORK CHOLLA WASH

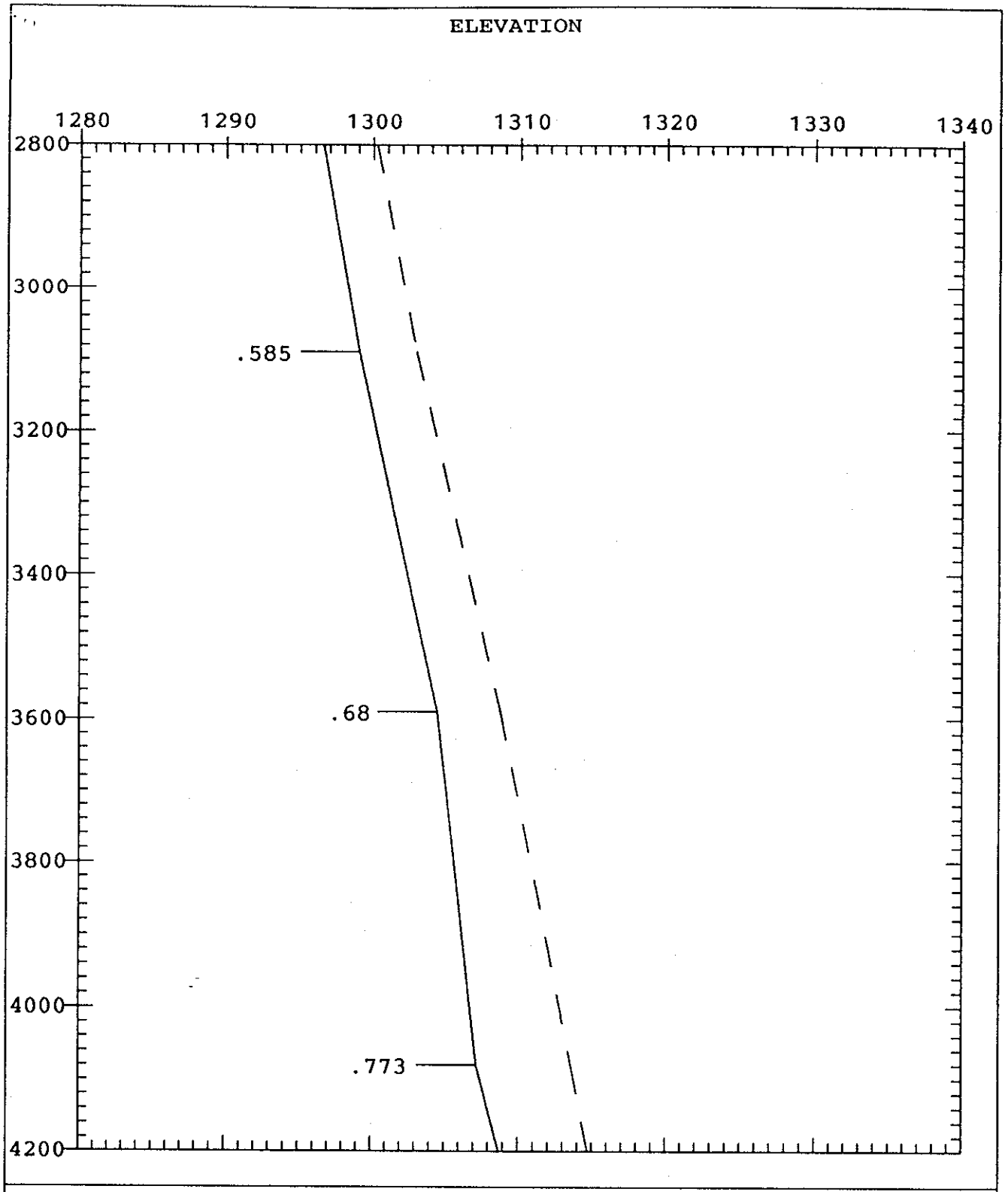
CHANNEL LENGTH STATION



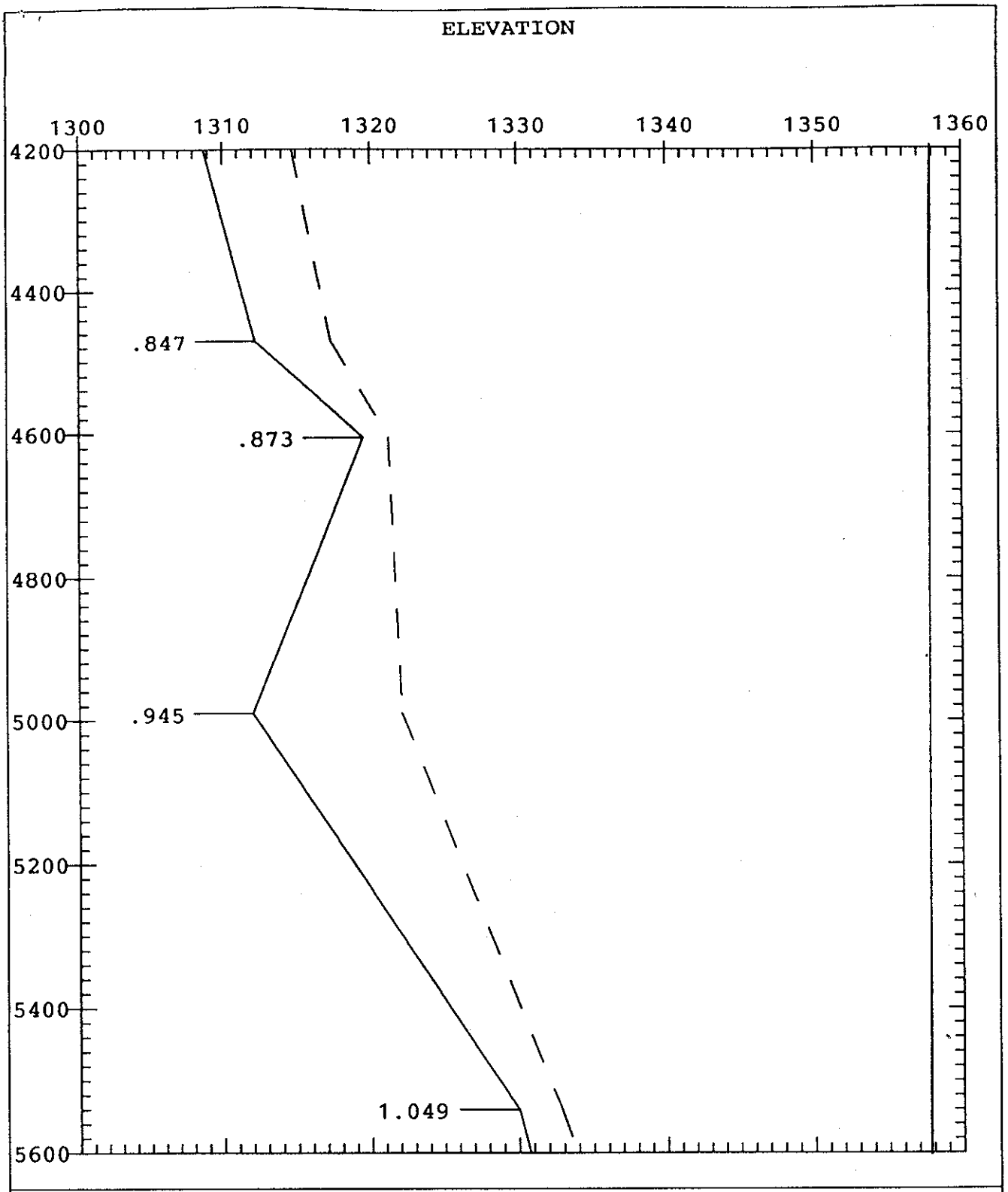
WASH 1B - WATERFALL WASH



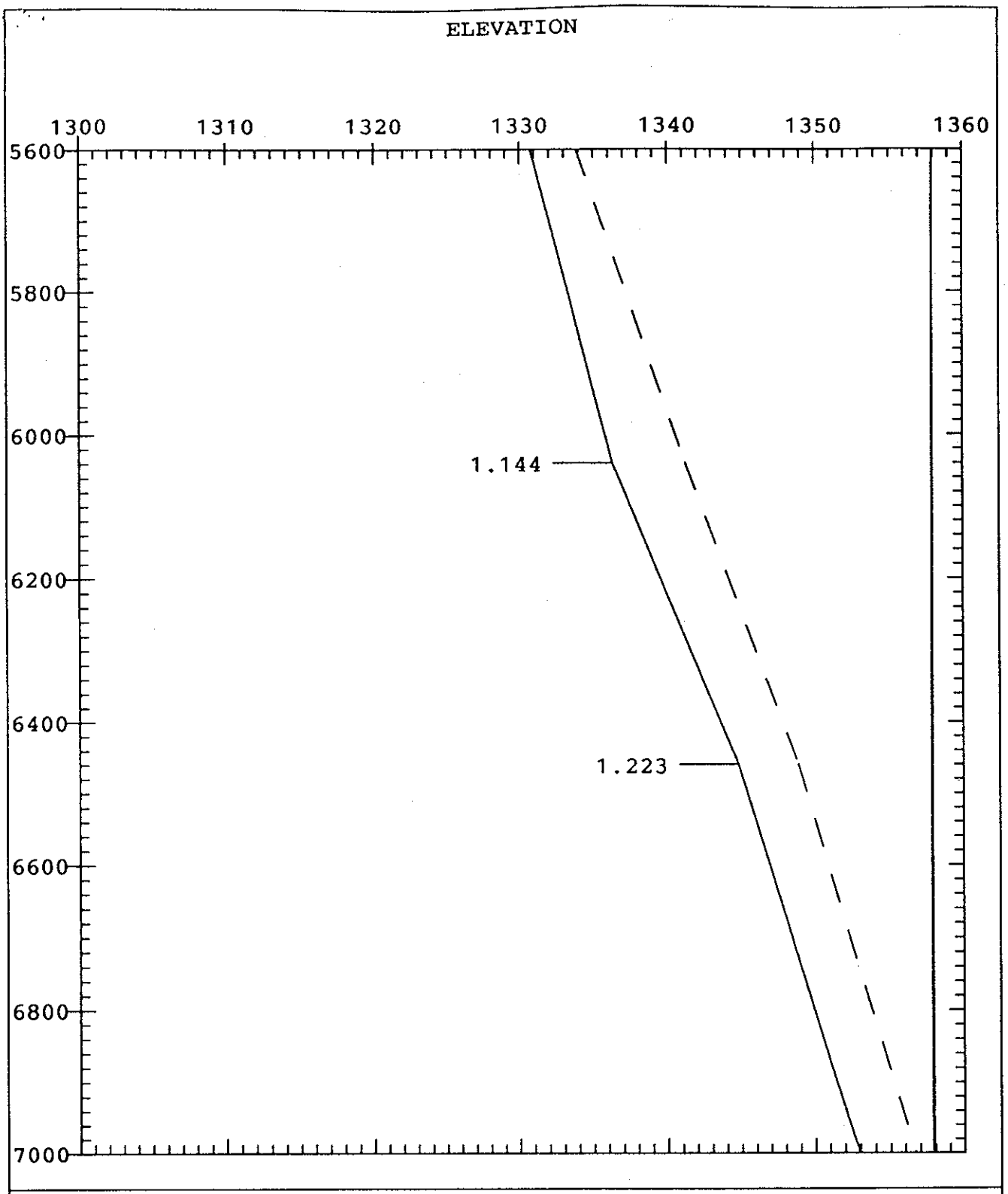
WASH 1B - WATERFALL WASH



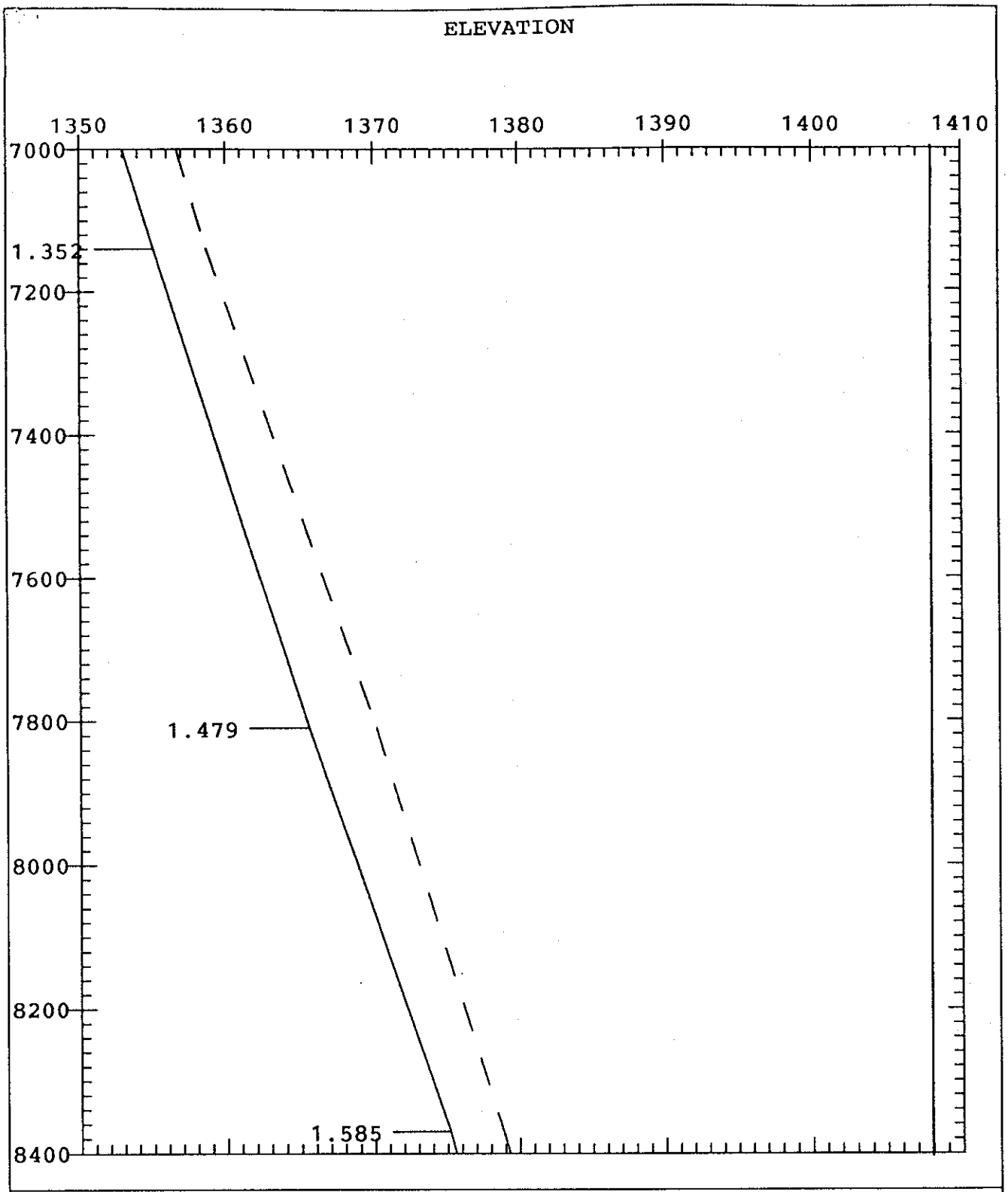
WASH 1B - WATERFALL WASH



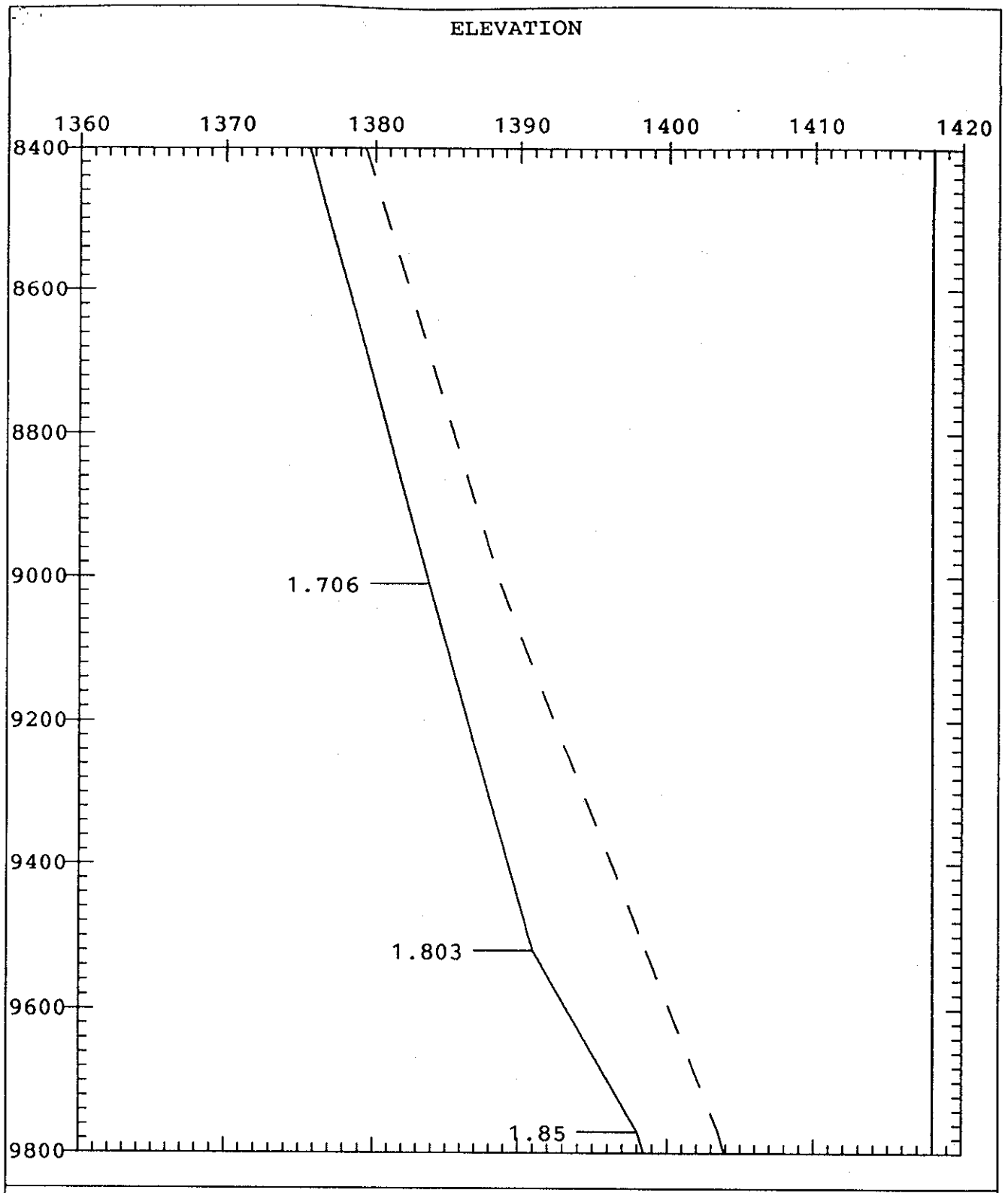
WASH 1B - WATERFALL WASH



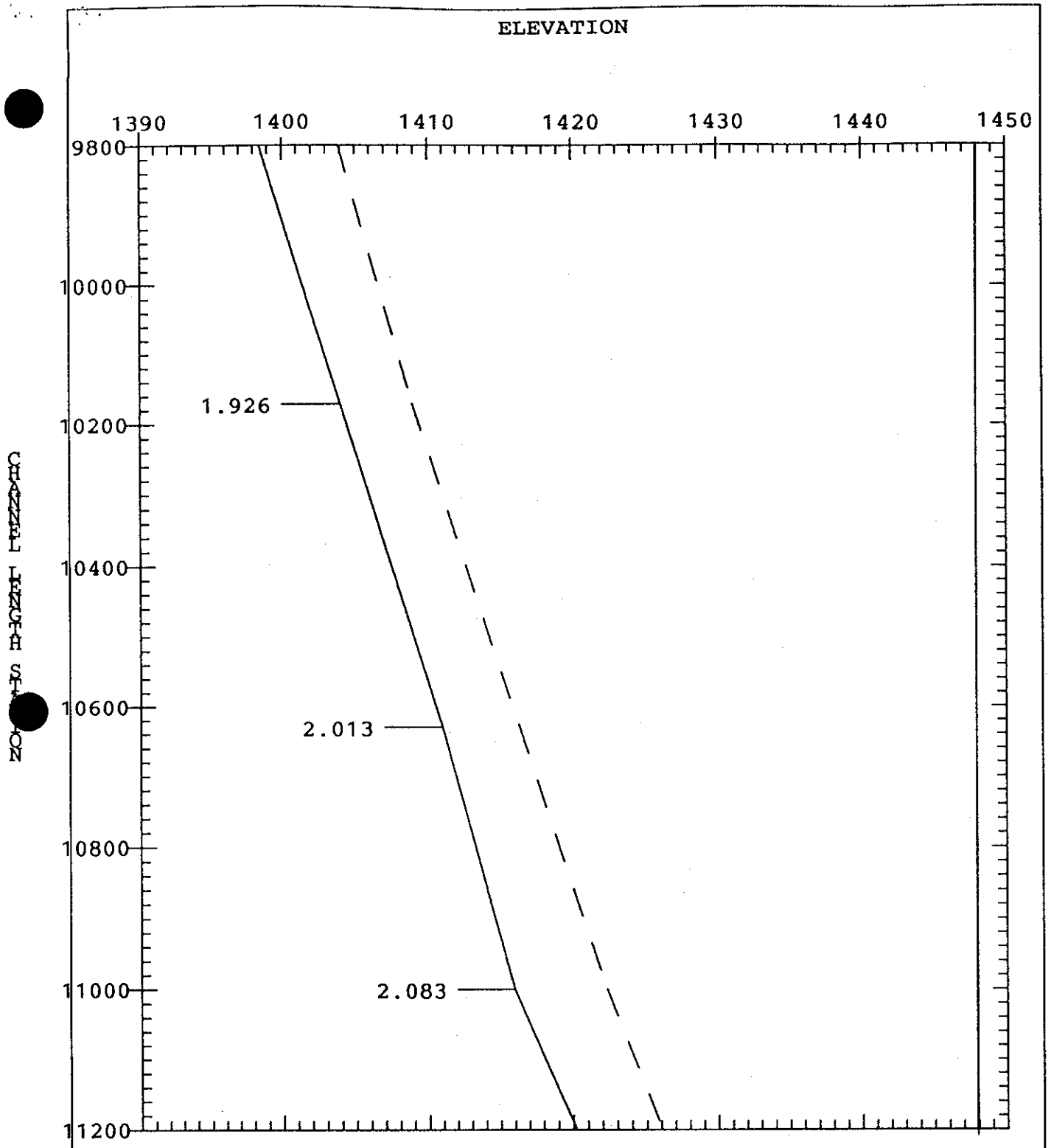
WASH 1B - WATERFALL WASH



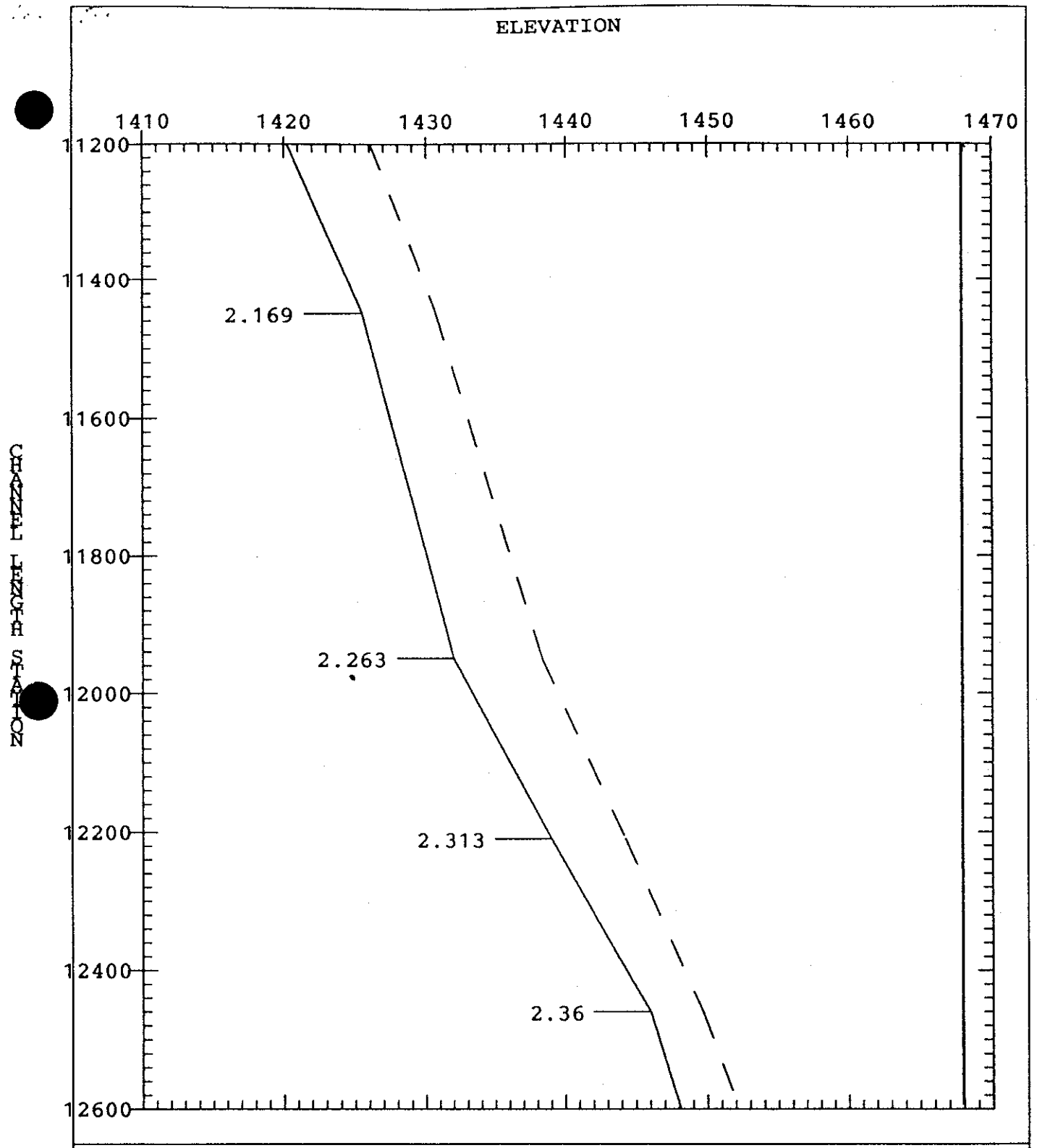
WASH 1B - WATERFALL WASH



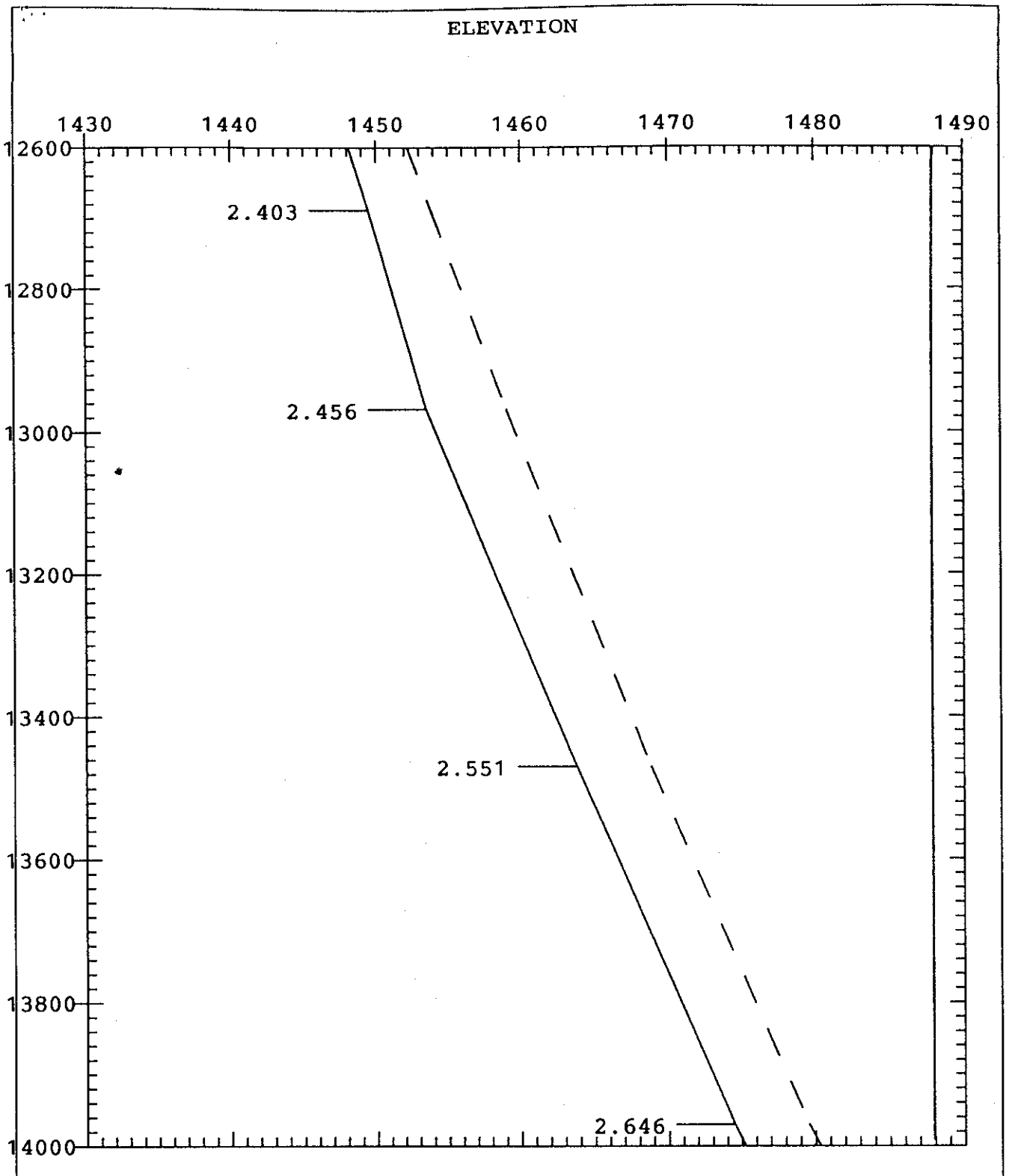
WASH 1B - WATERFALL WASH



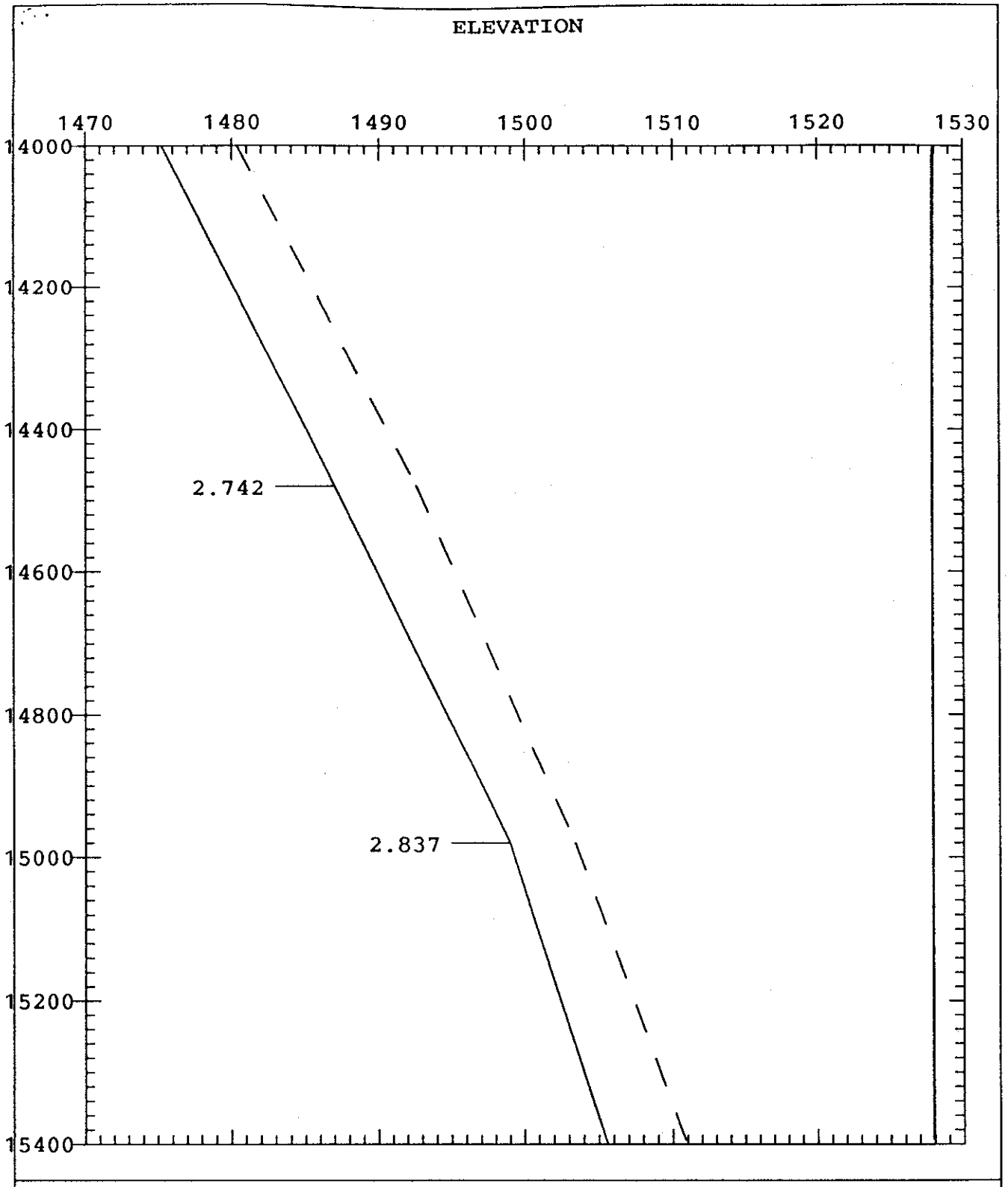
WASH 1B - WATERFALL WASH



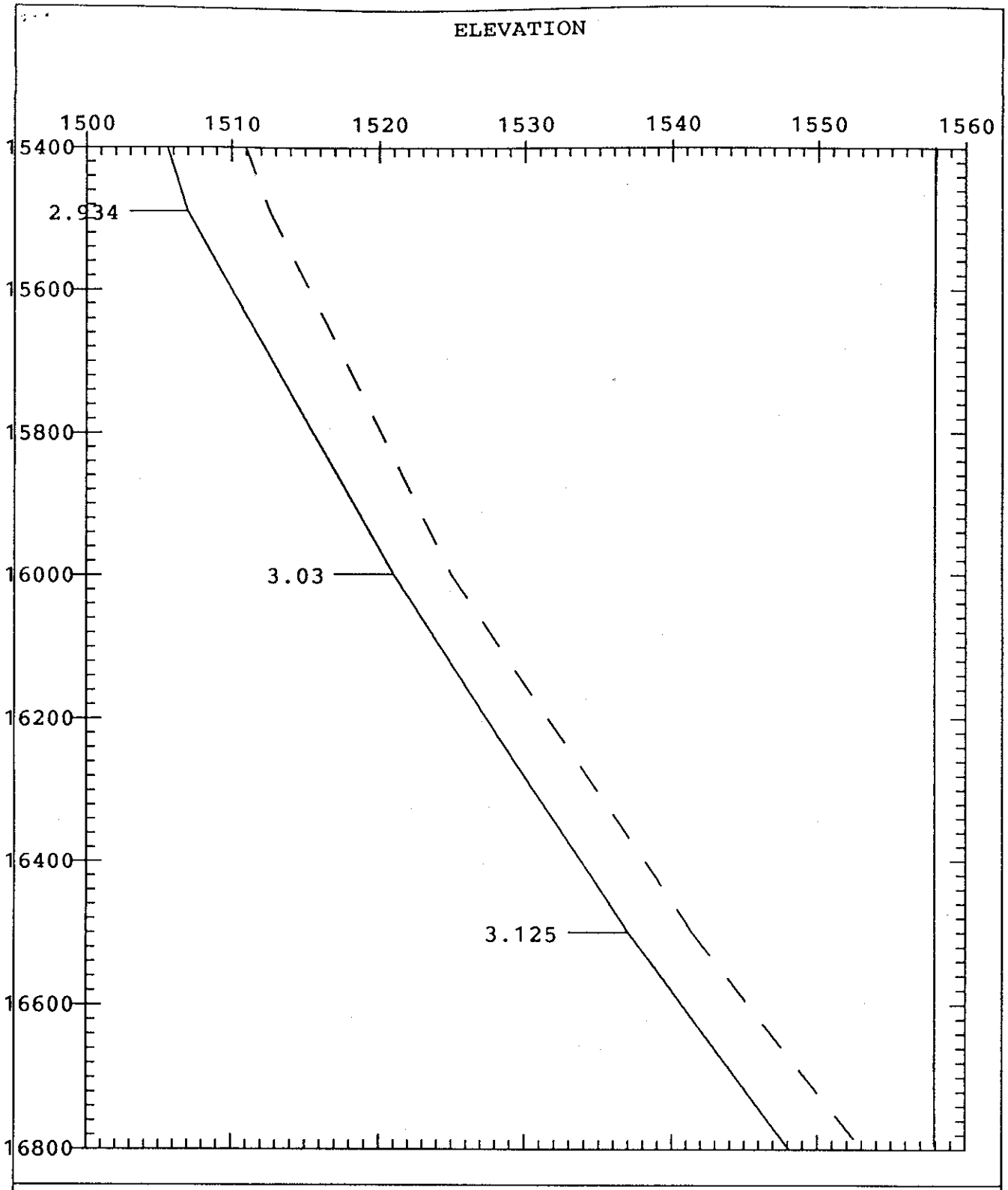
WASH 1B - WATERFALL WASH



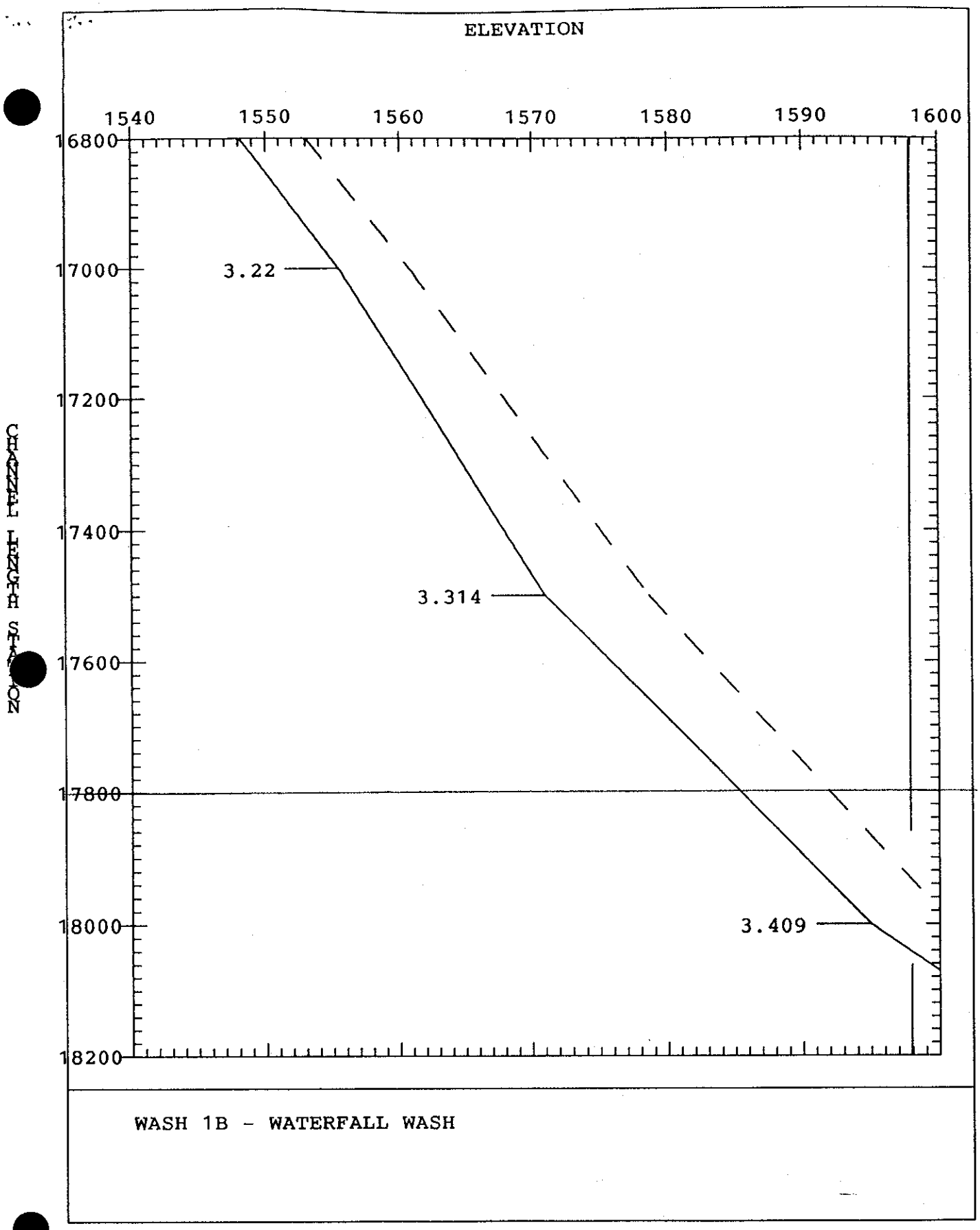
WASH 1B - WATERFALL WASH

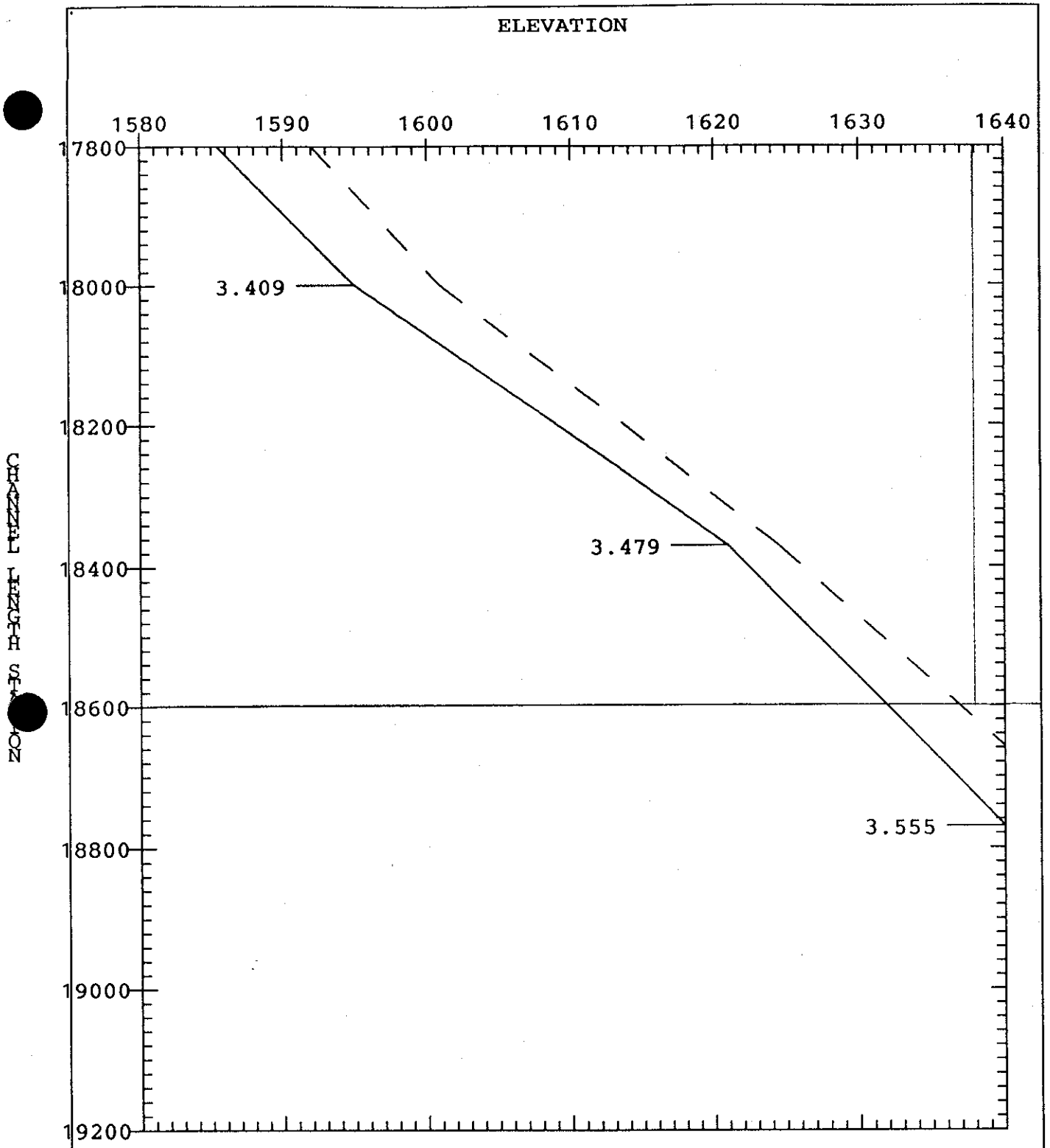


WASH 1B - WATERFALL WASH

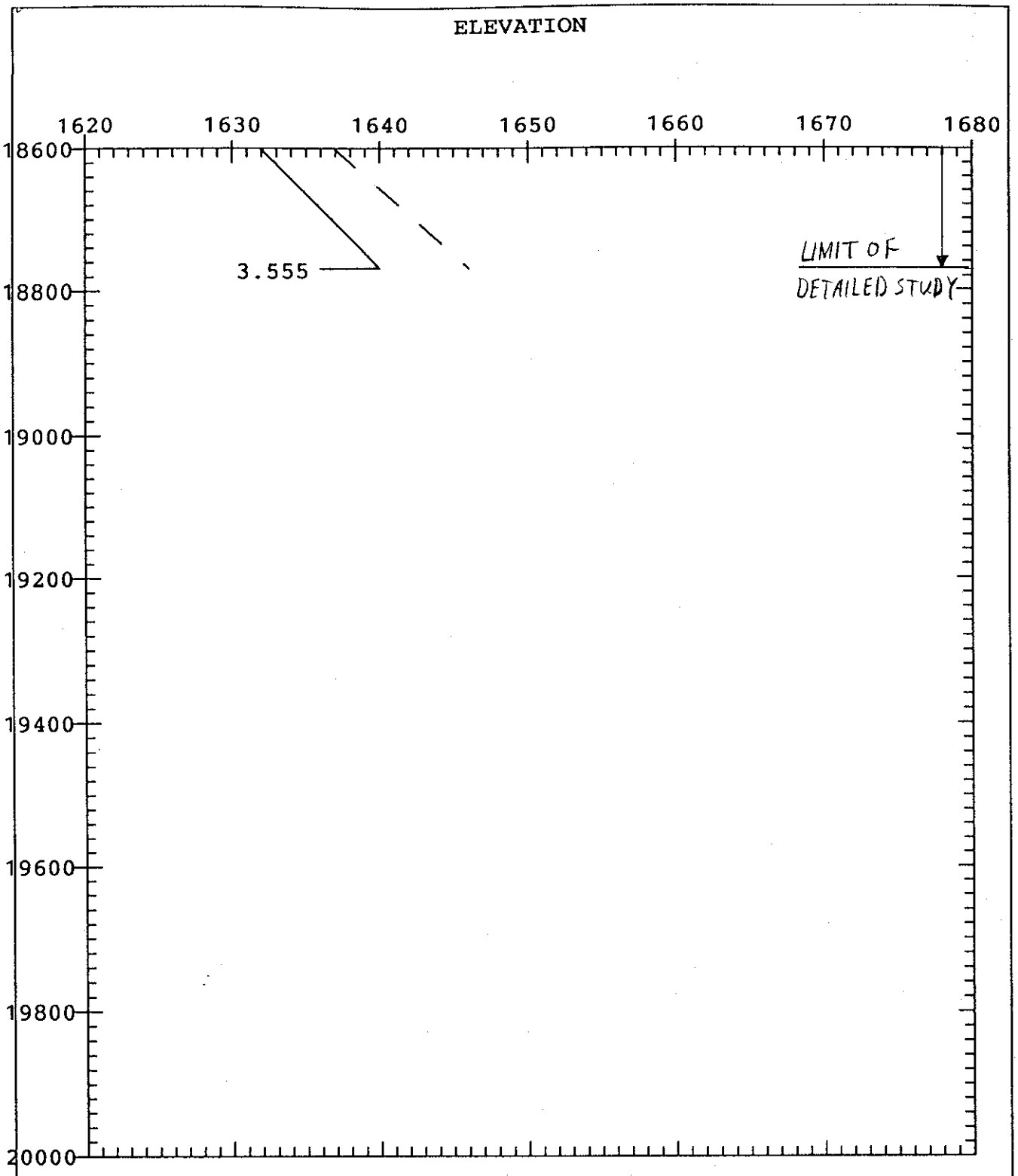


WASH 1B - WATERFALL WASH

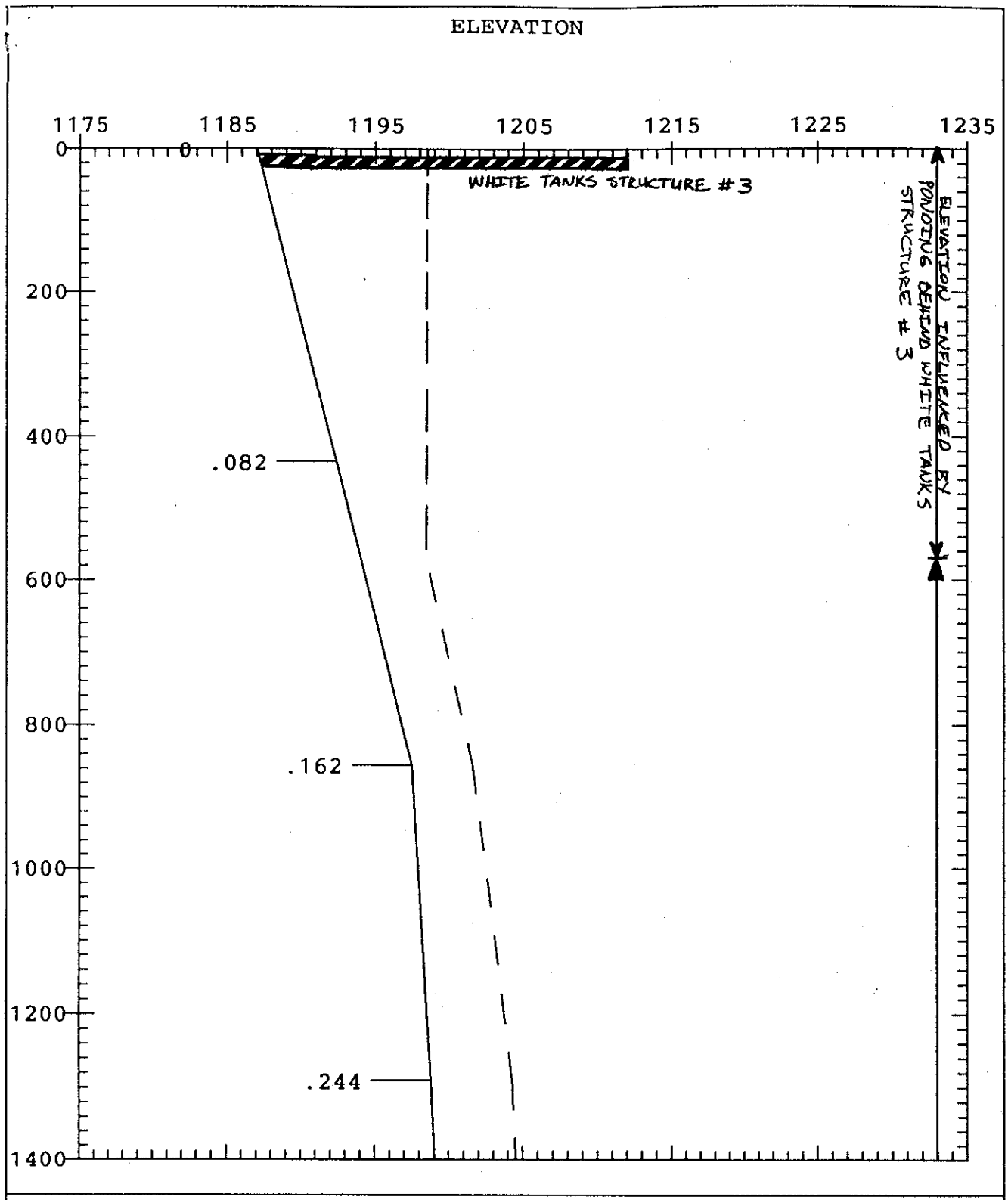

ELEVATION
1540
1550
1560
1570
1580
1590
1600
16800
17000
17200
17400
17600
17800
18000
18200
CHANNEL LENGTH STATION
3.22
3.314
3.409
WASH 1B - WATERFALL WASH



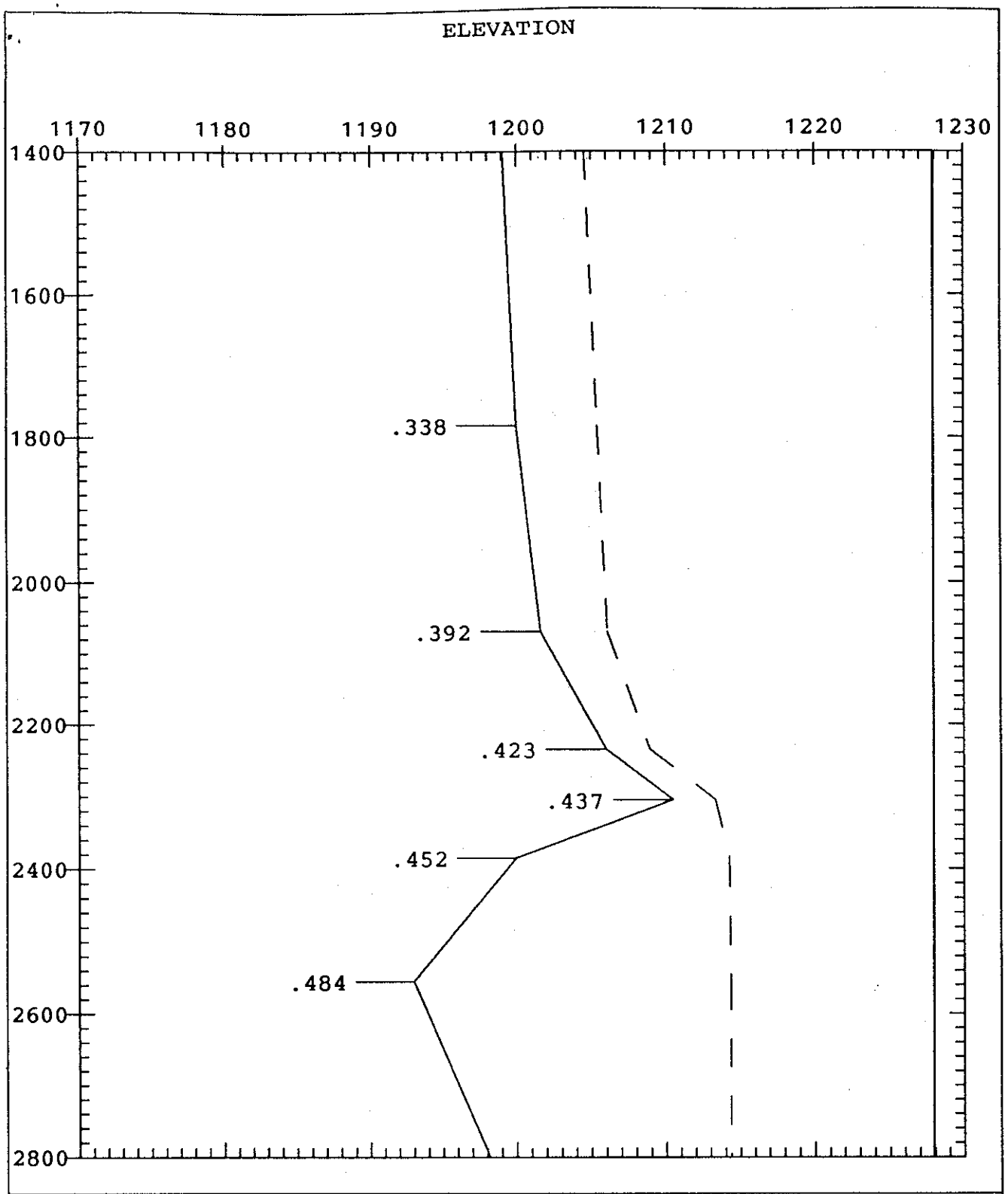
WASH 1B - WATERFALL WASH



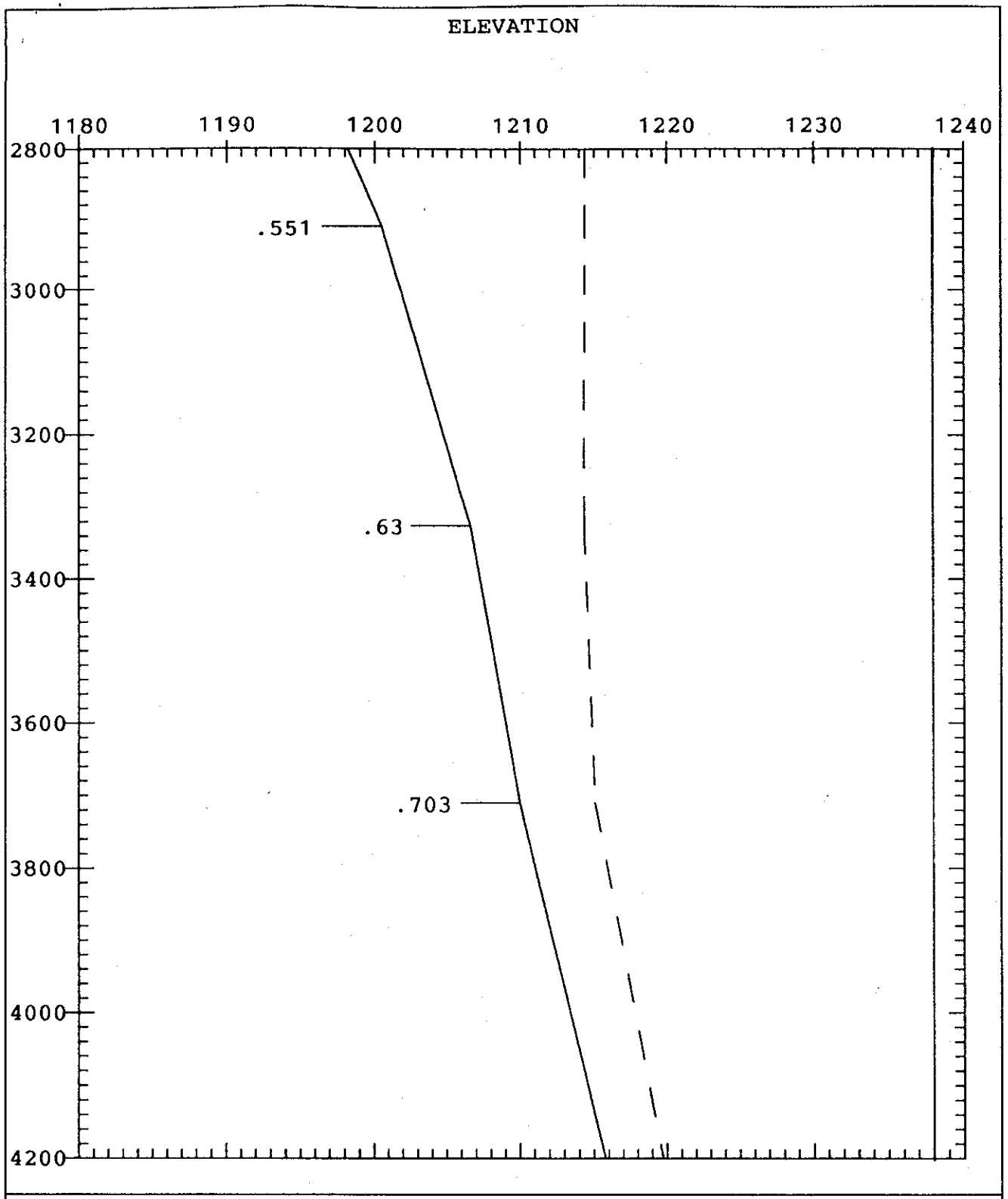
WASH 1B - WATERFALL WASH



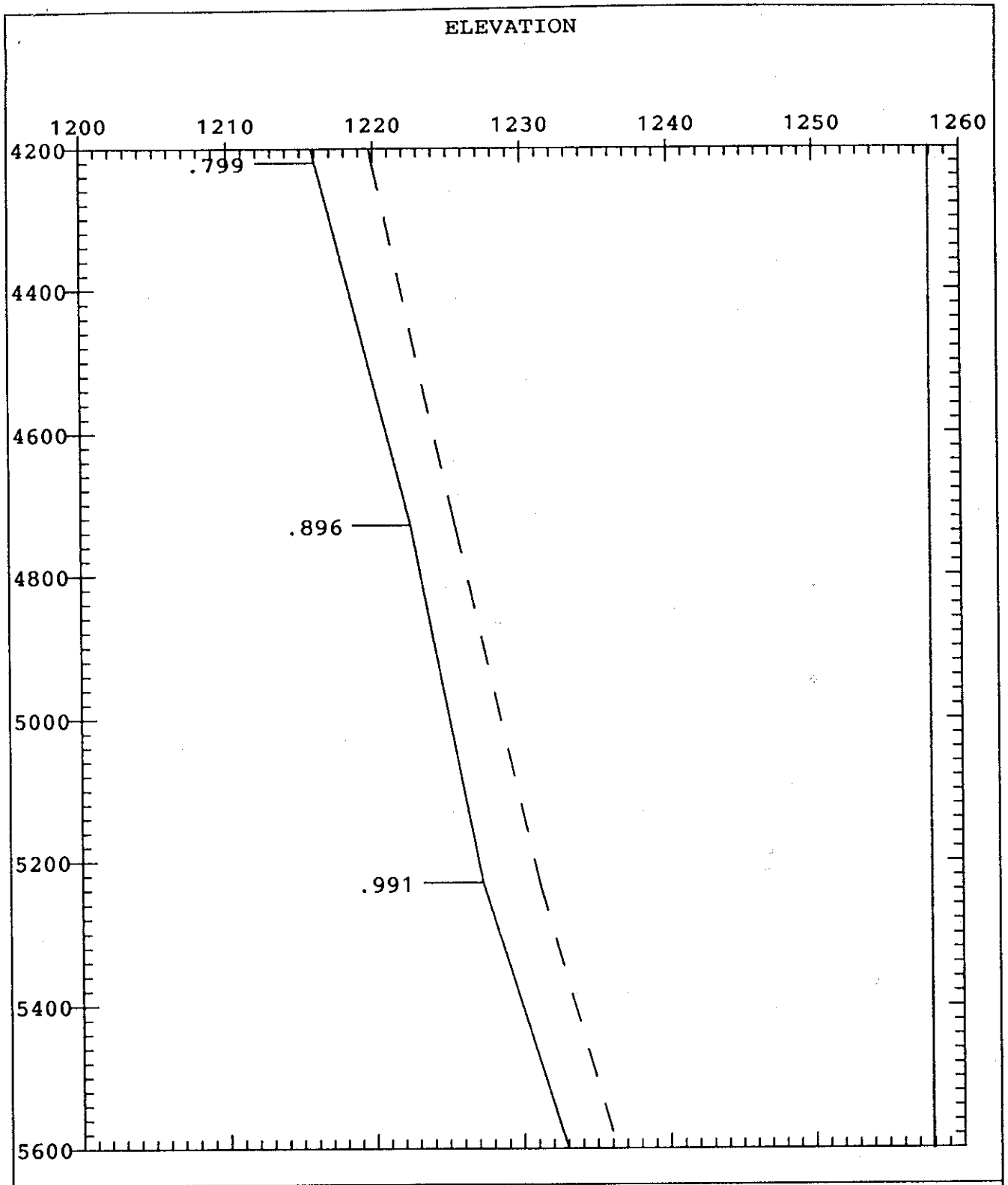
WASH 2 - WHITE TANK #3 WASH



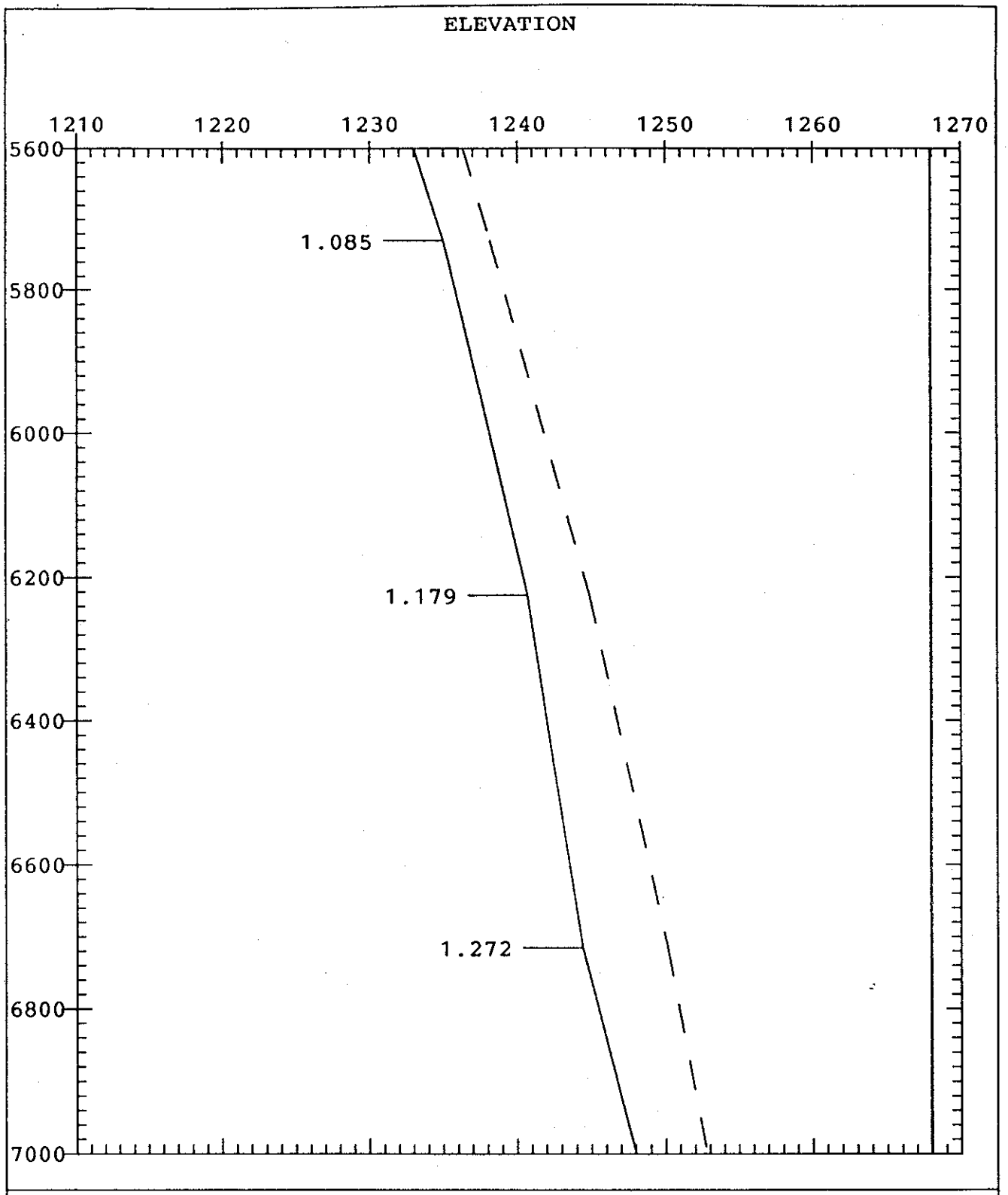
WASH 2 - WHITE TANK #3 WASH



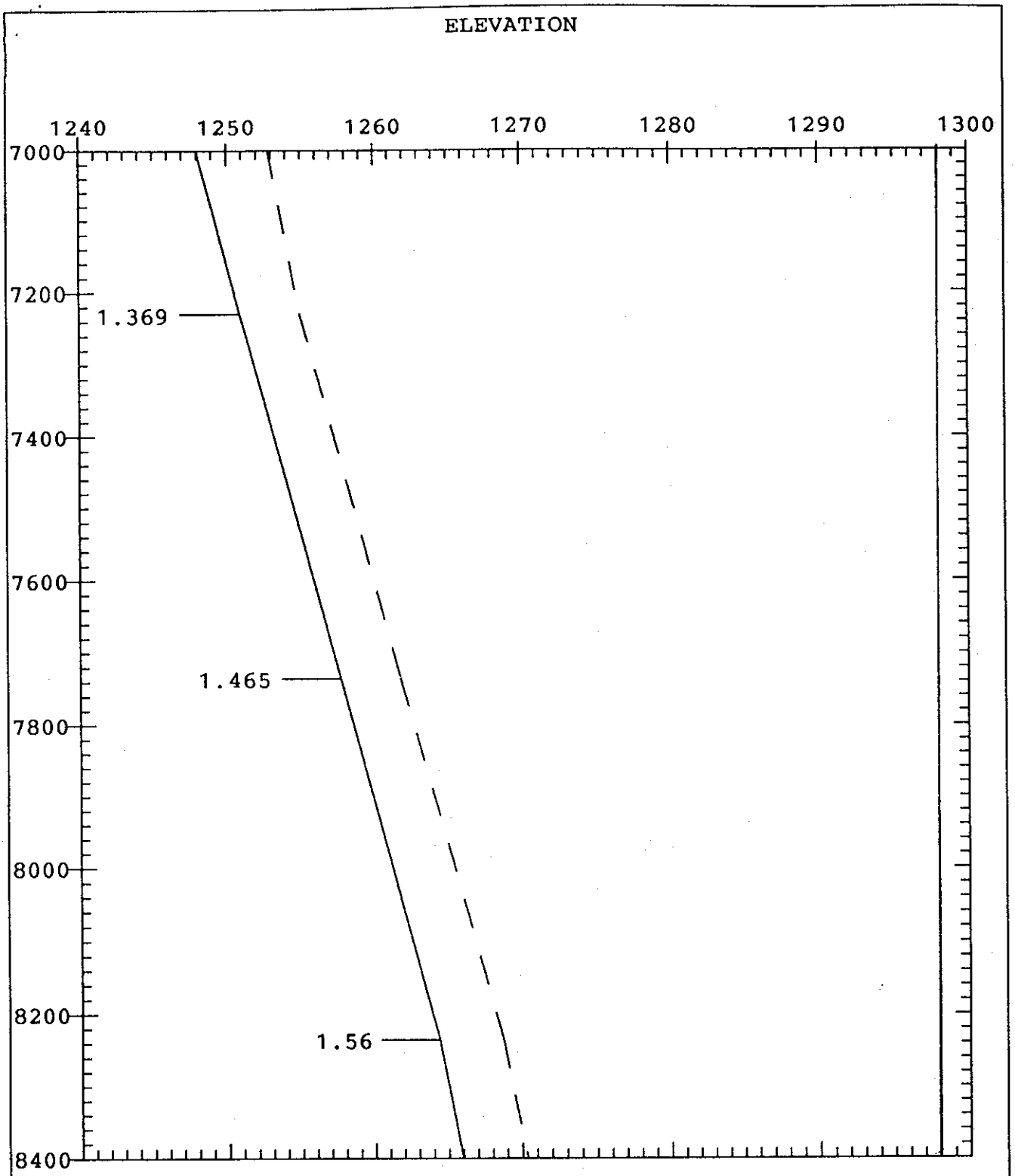
WASH 2 - WHITE TANK #3 WASH



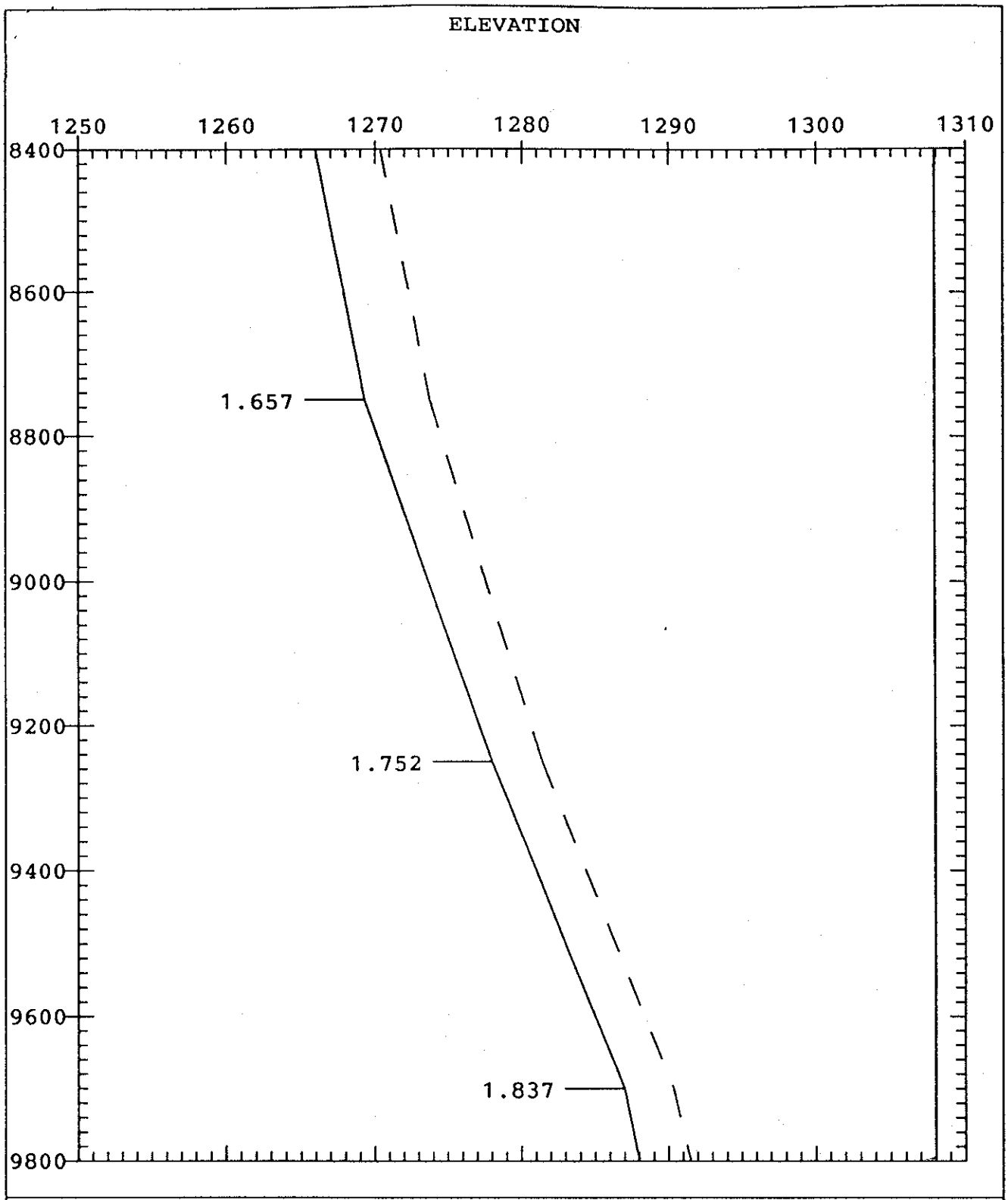
WASH 2 - WHITE TANK #3 WASH



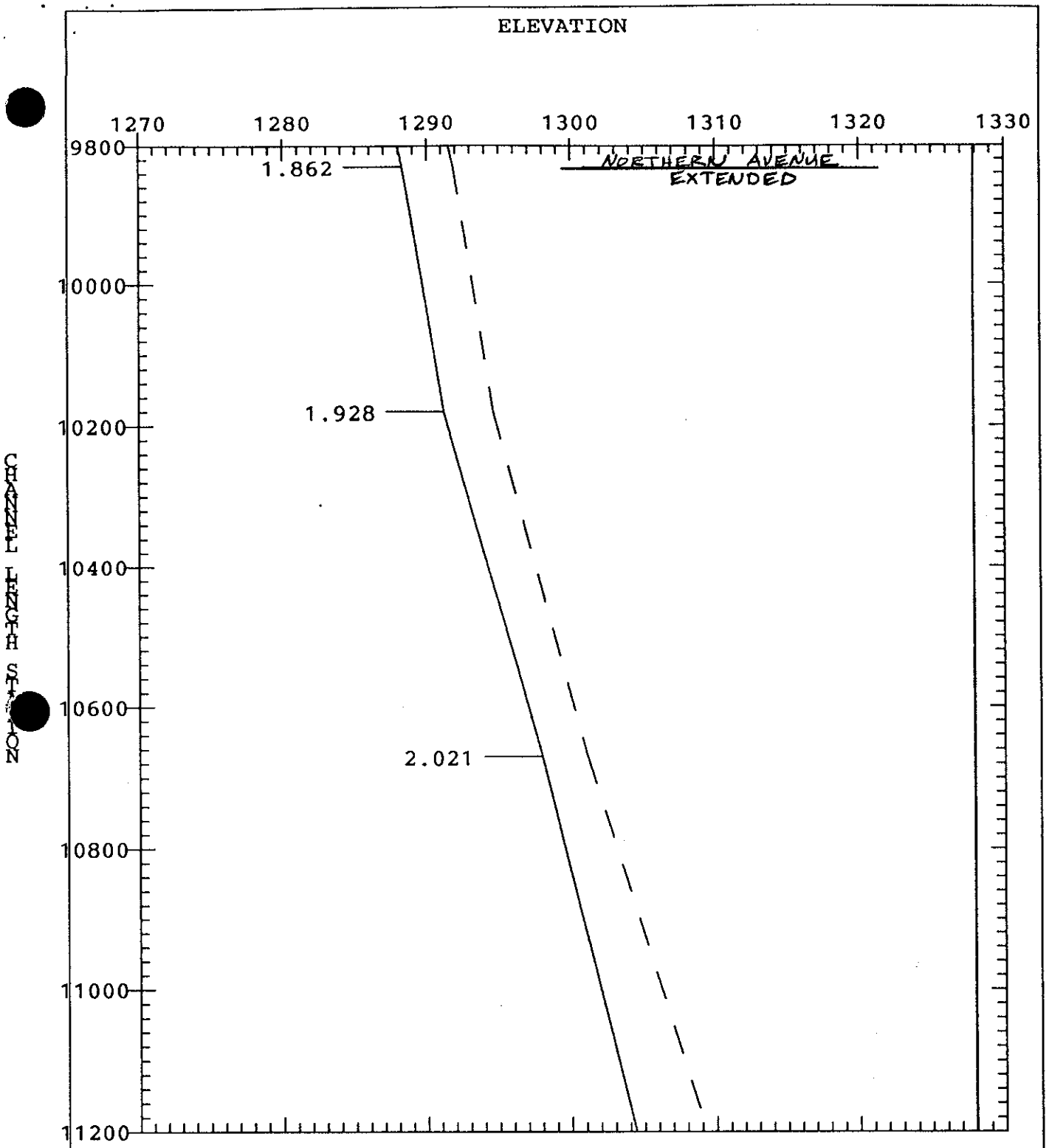
WASH 2 - WHITE TANK #3 WASH



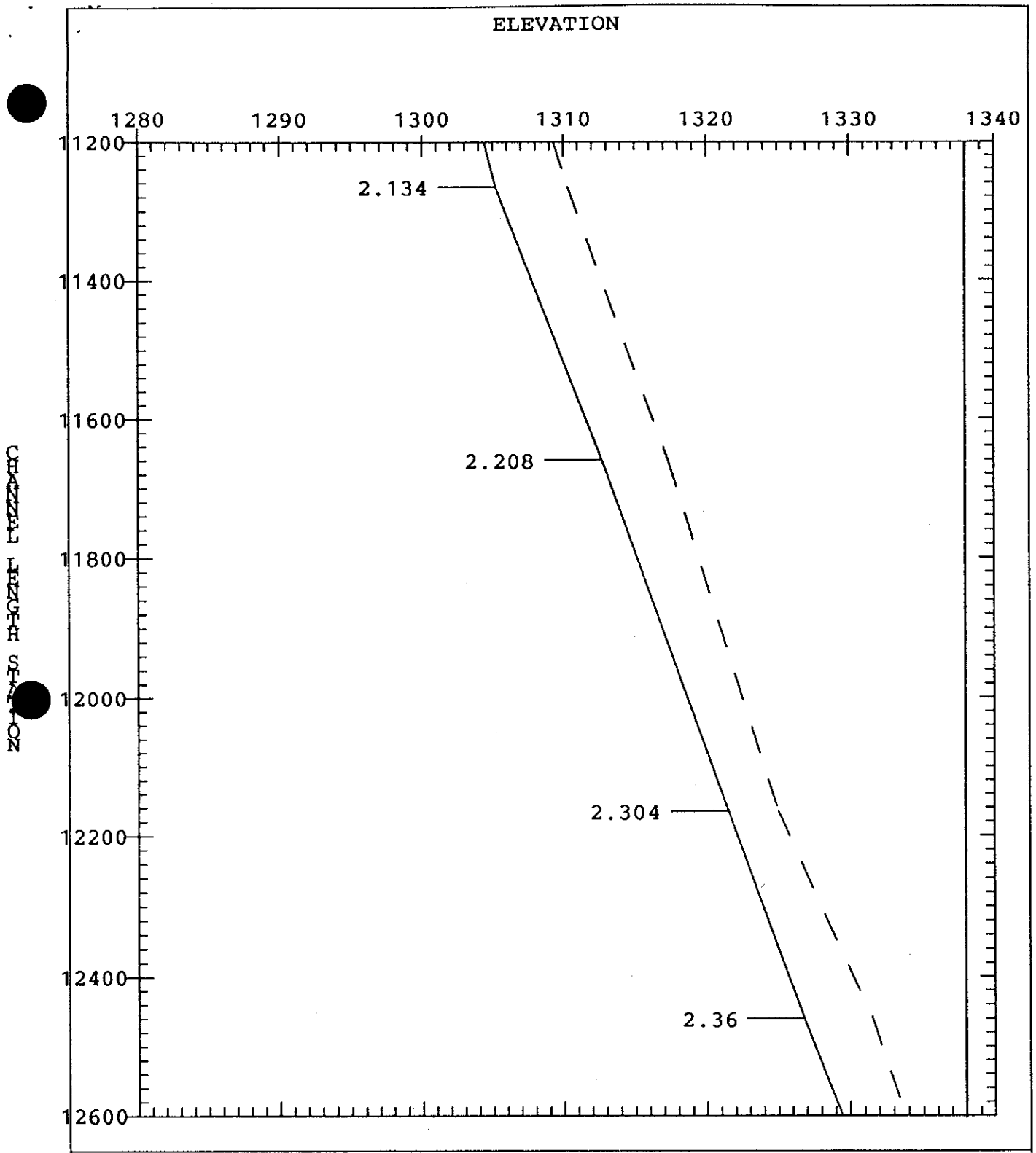
WASH 2 - WHITE TANK #3 WASH



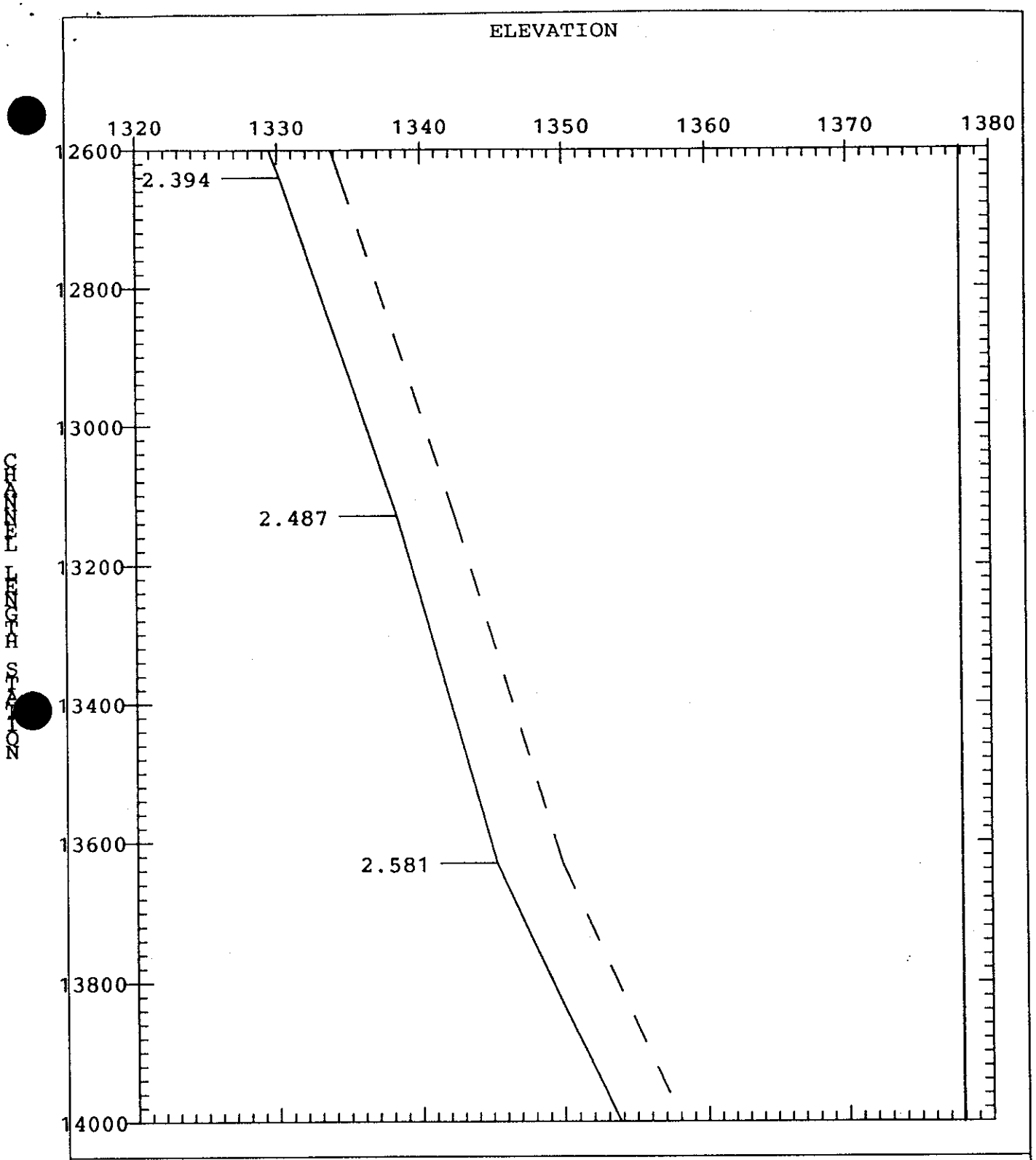
WASH 2 - WHITE TANK #3 WASH



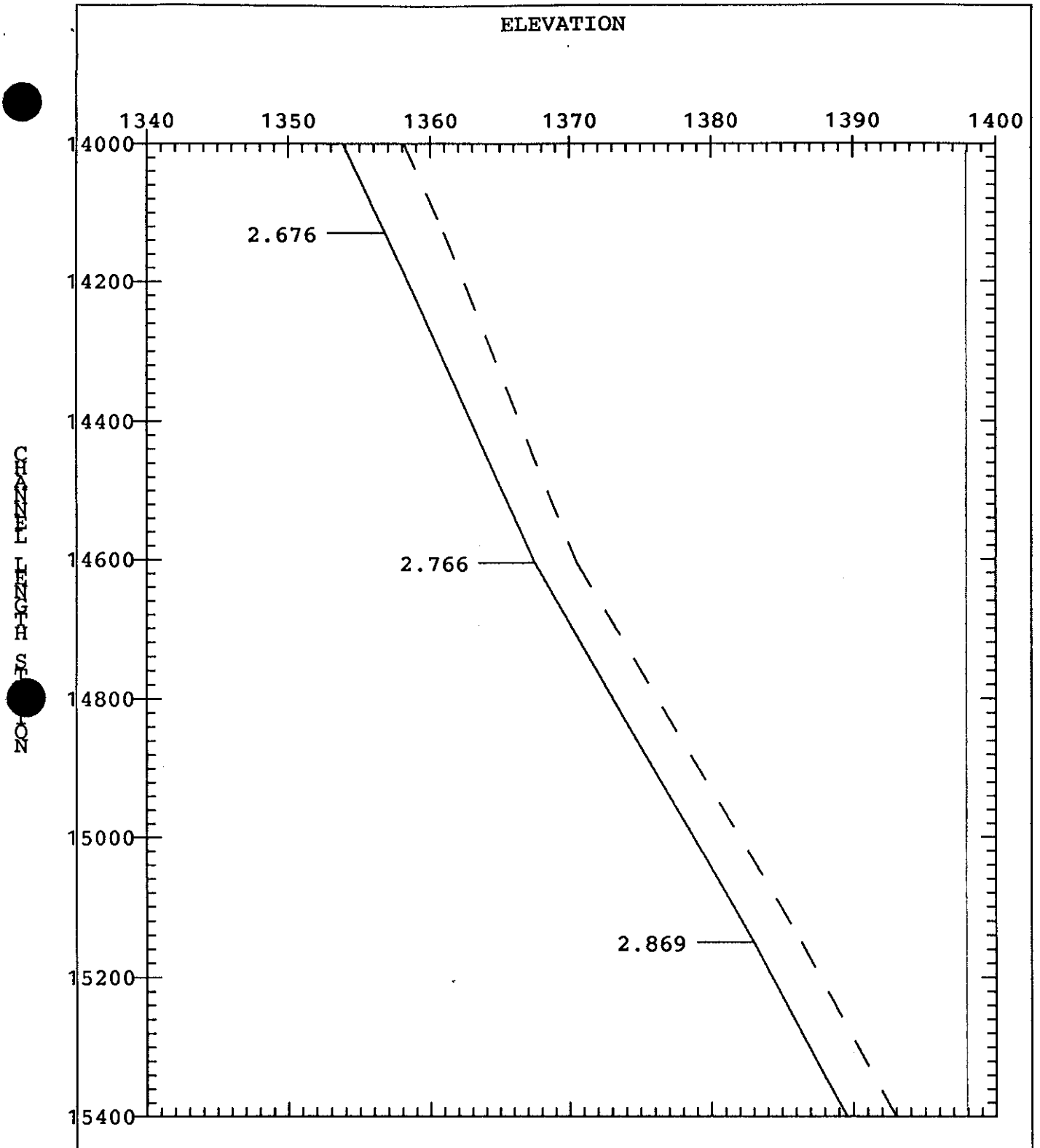
WASH 2 - WHITE TANK #3 WASH



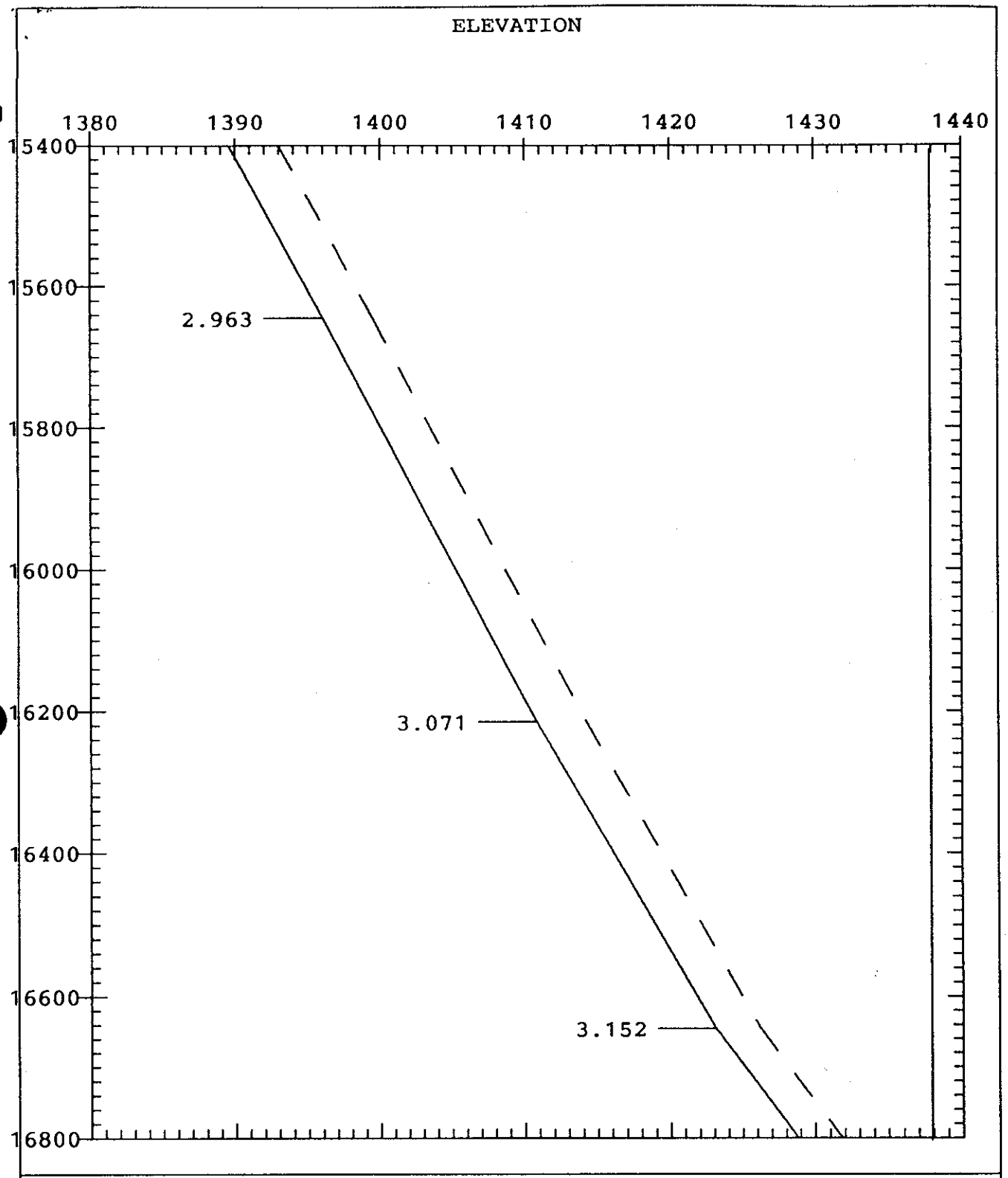
WASH 2 - WHITE TANK #3 WASH



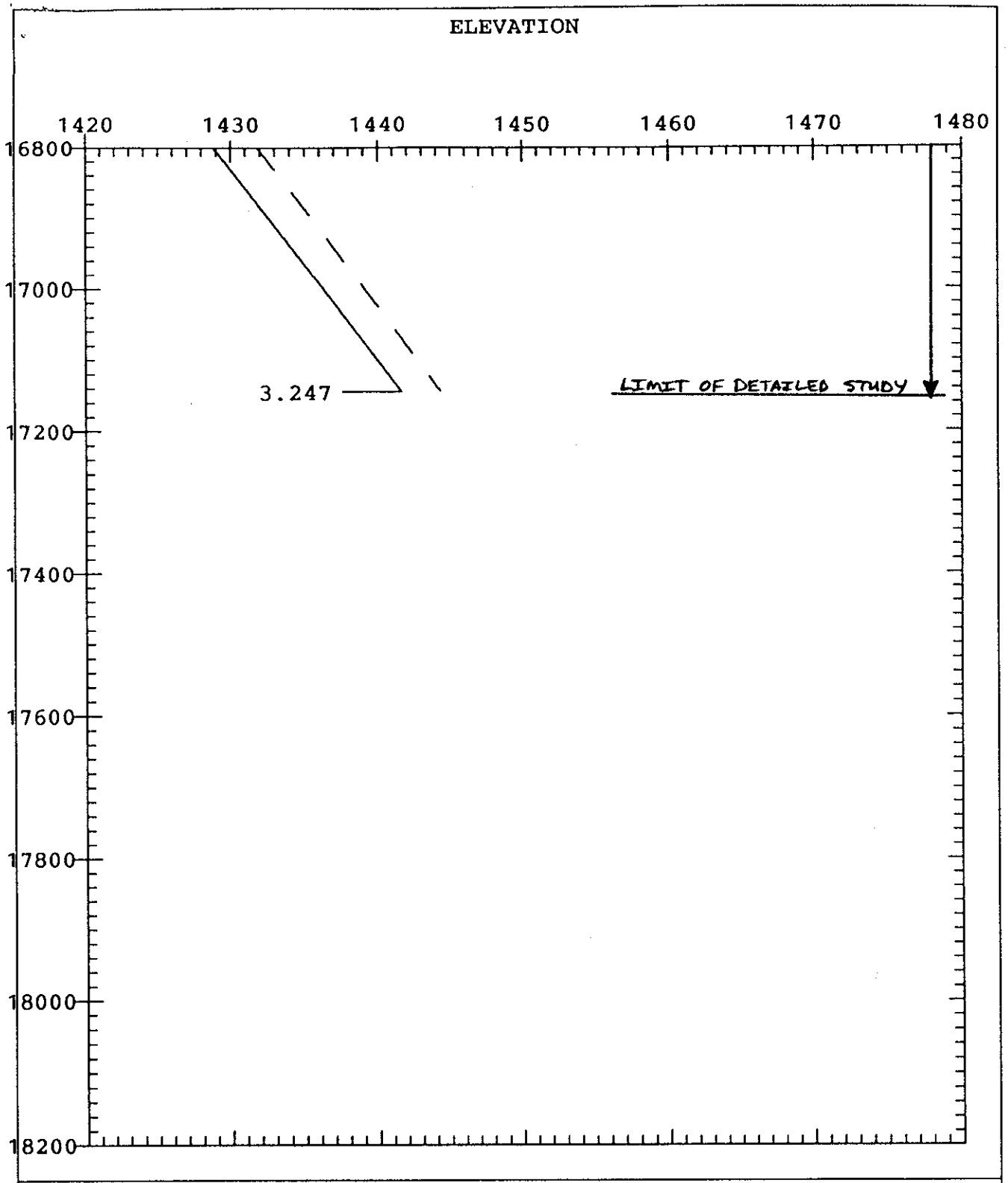
WASH 2 - WHITE TANK #3 WASH



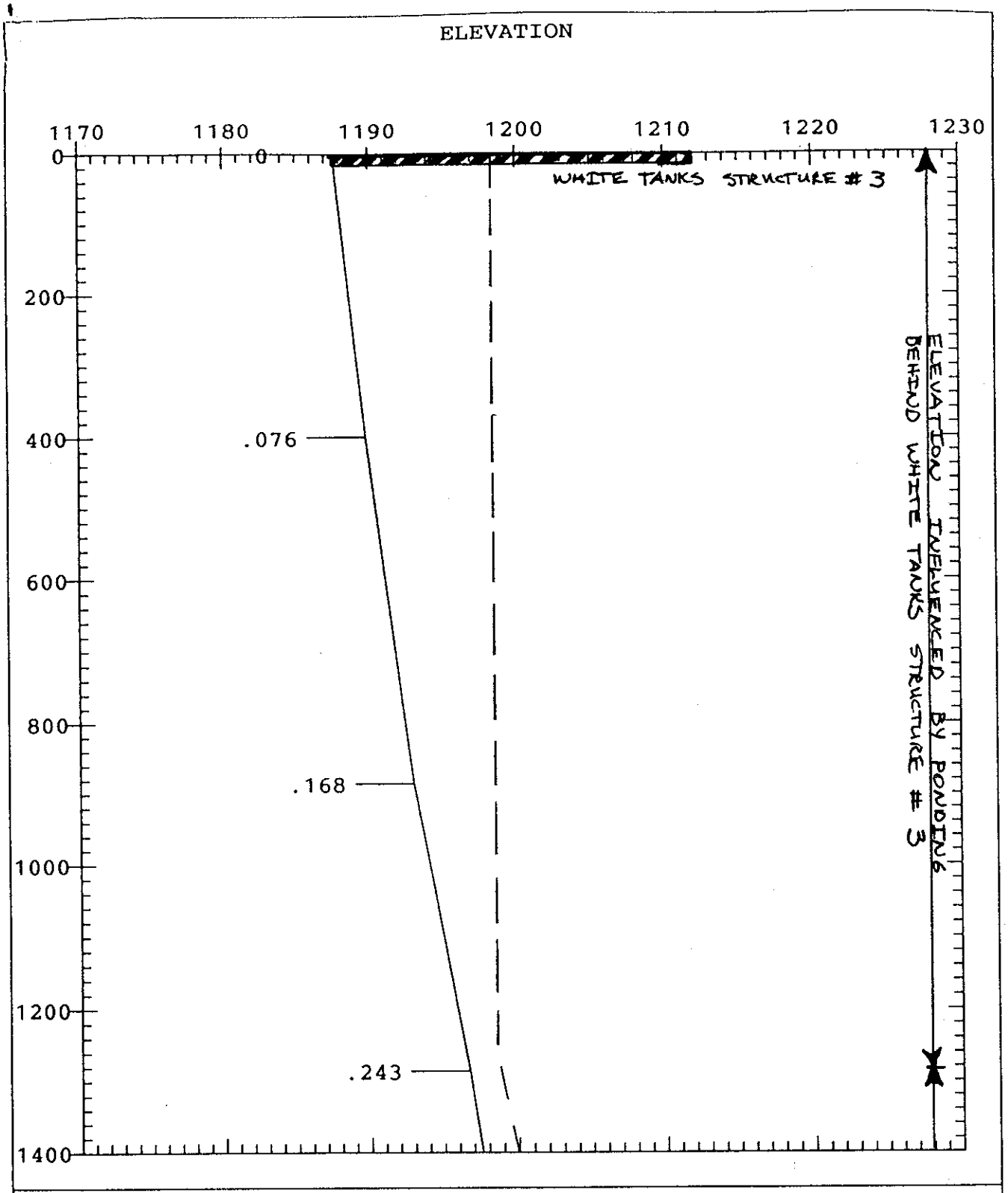
WASH 2 - WHITE TANK #3 WASH



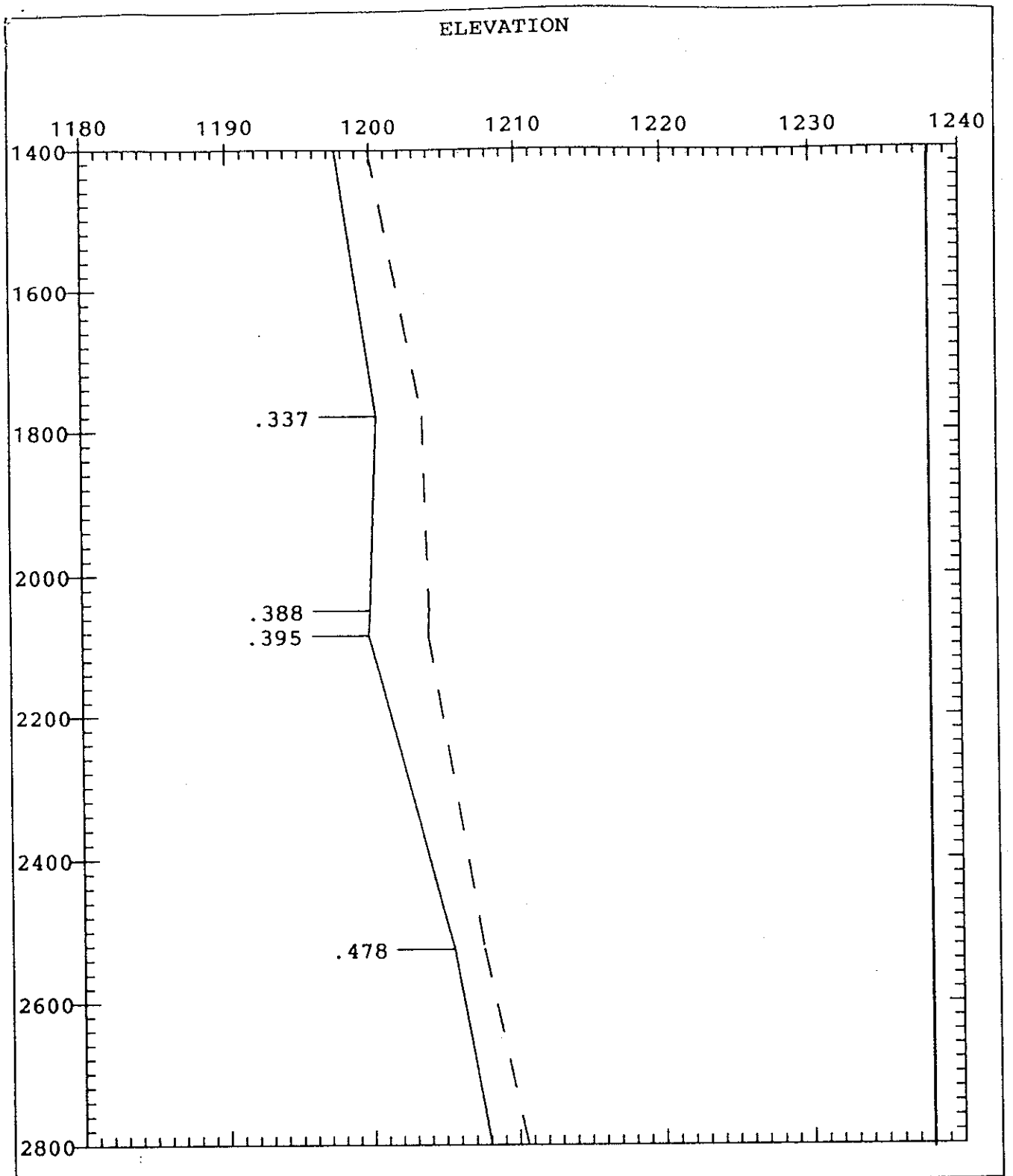
WASH 2 - WHITE TANK #3 WASH



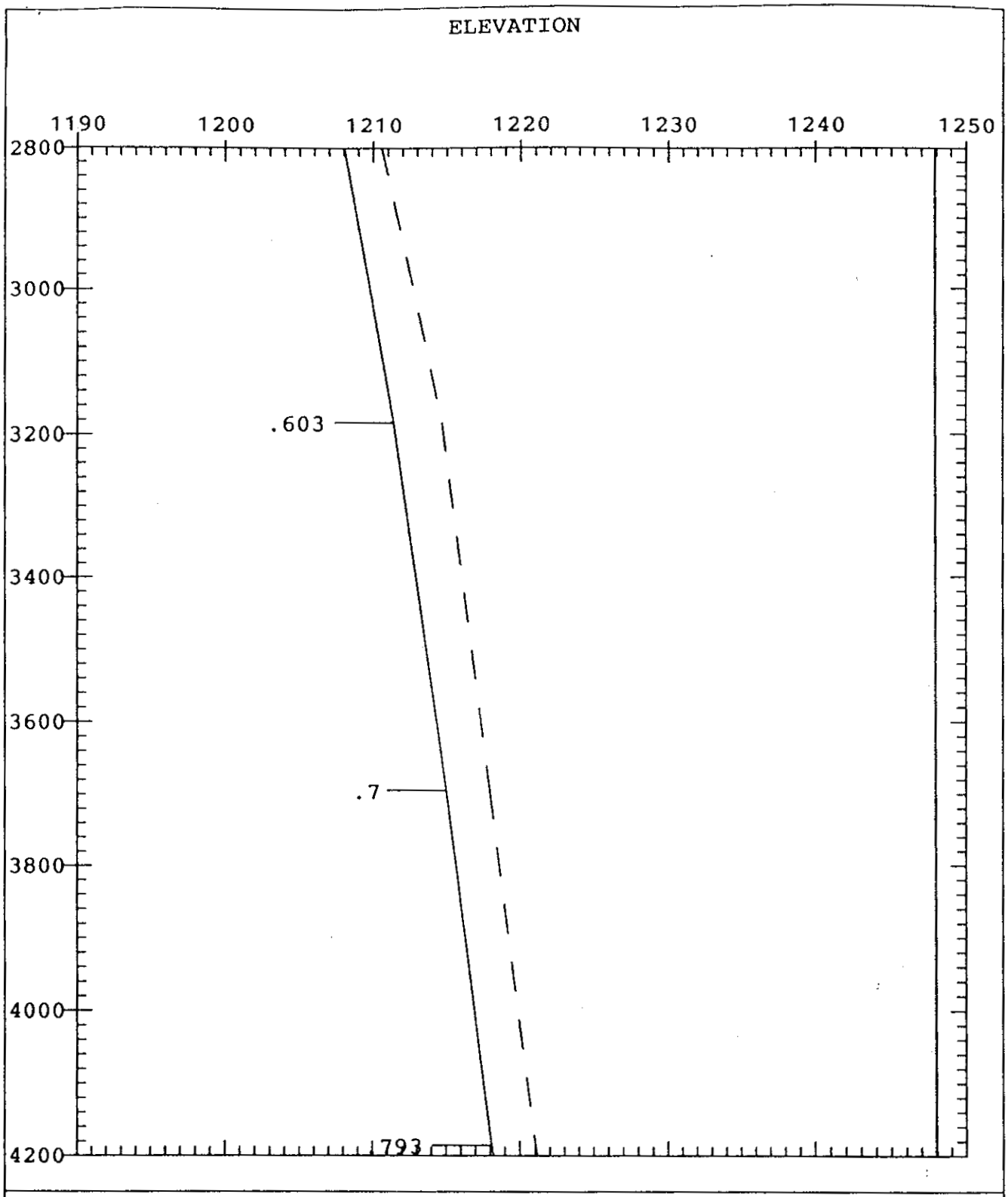
WASH 2 - WHITE TANK #3 WASH



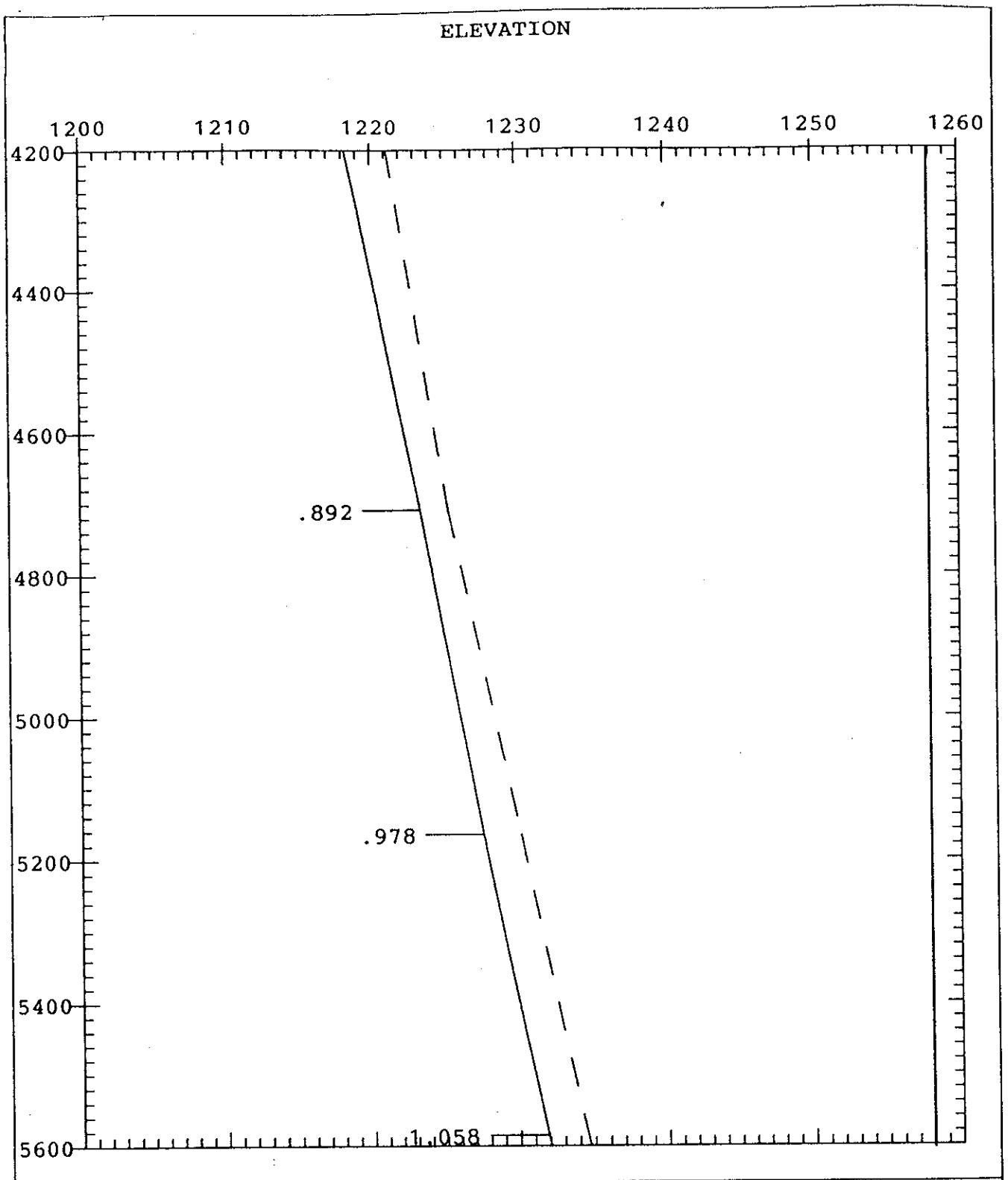
WASH 3 - BEDROCK WASH



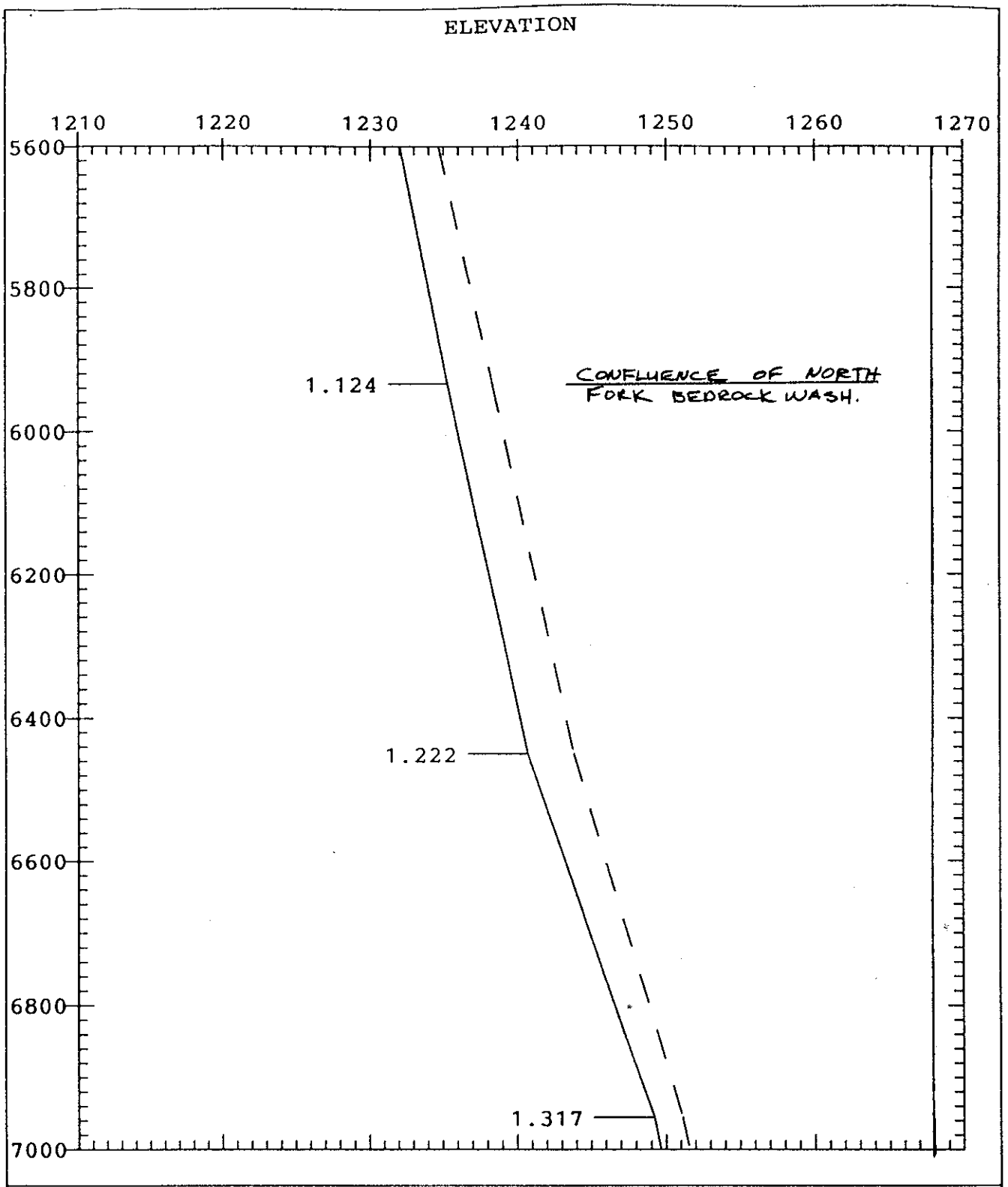
WASH 3 - BEDROCK WASH



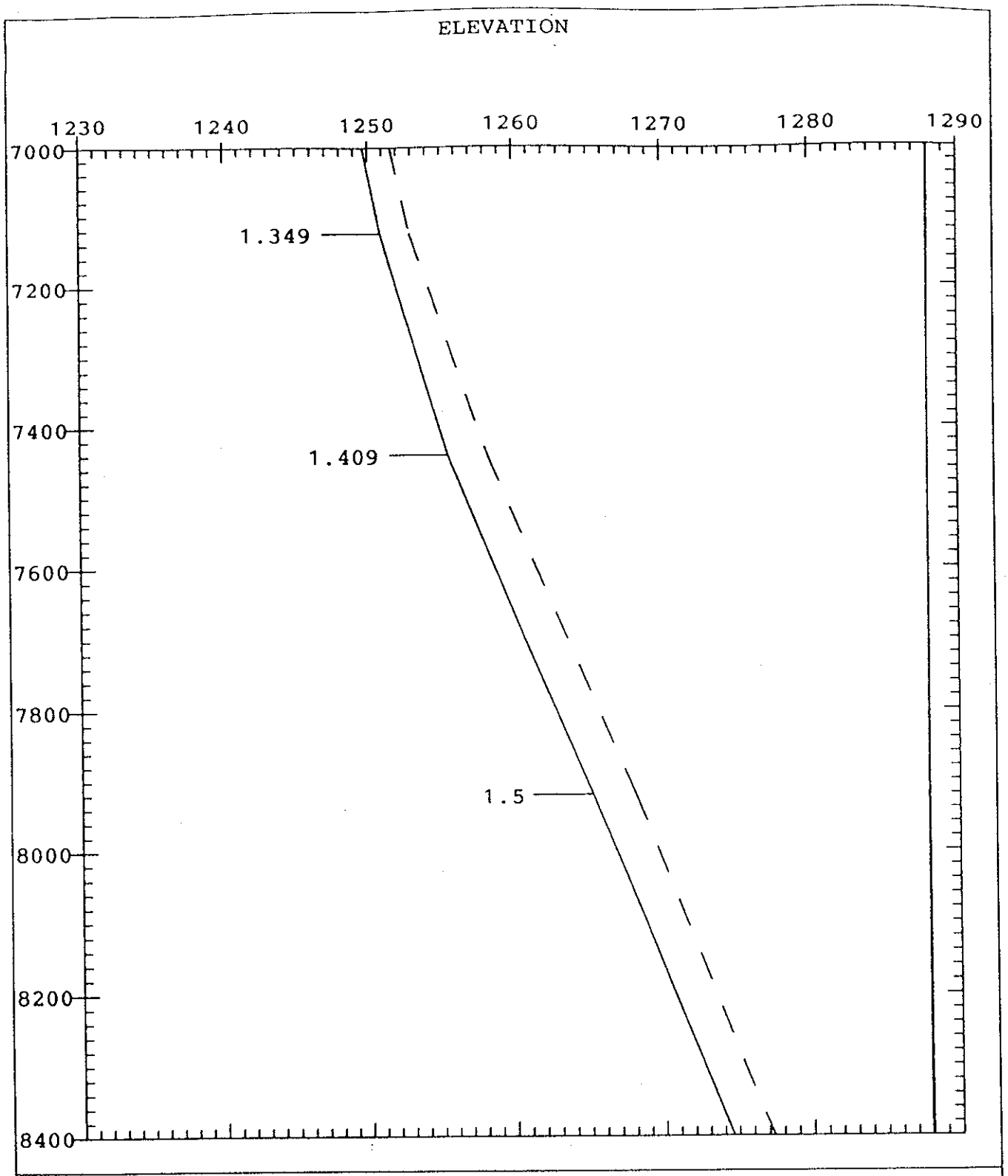
WASH 3 - BEDROCK WASH



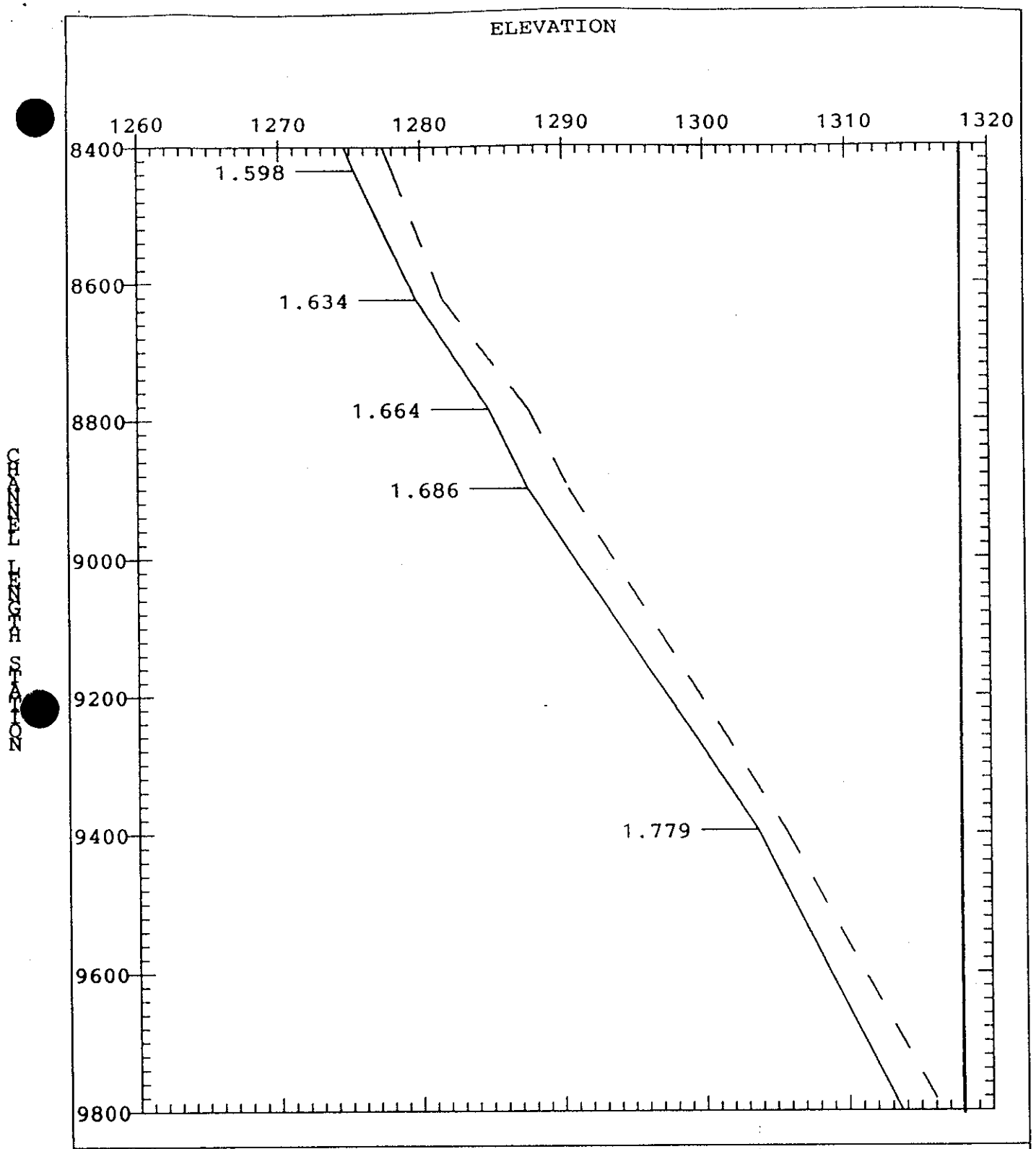
WASH 3 - BEDROCK WASH



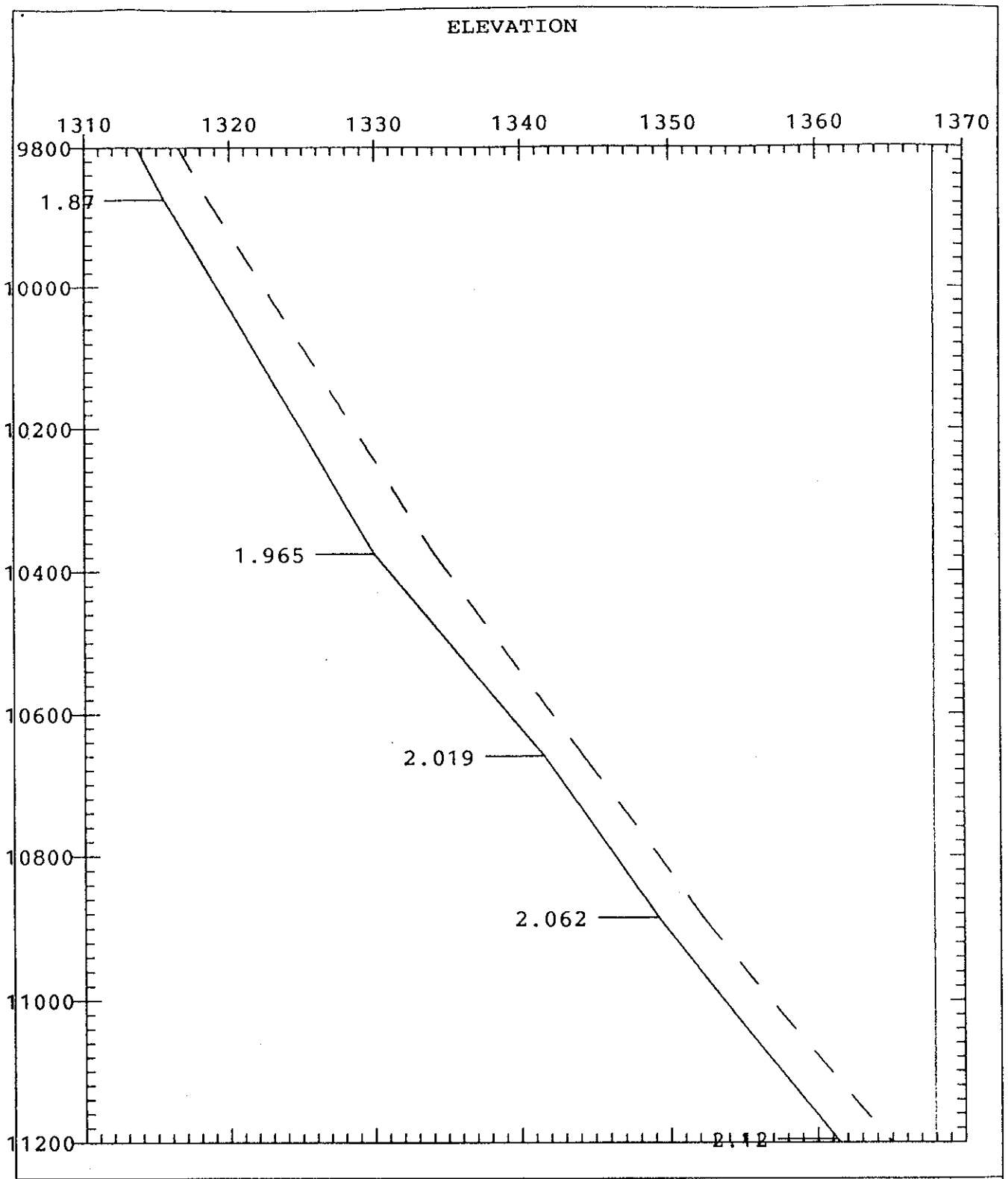
WASH 3 - BEDROCK WASH



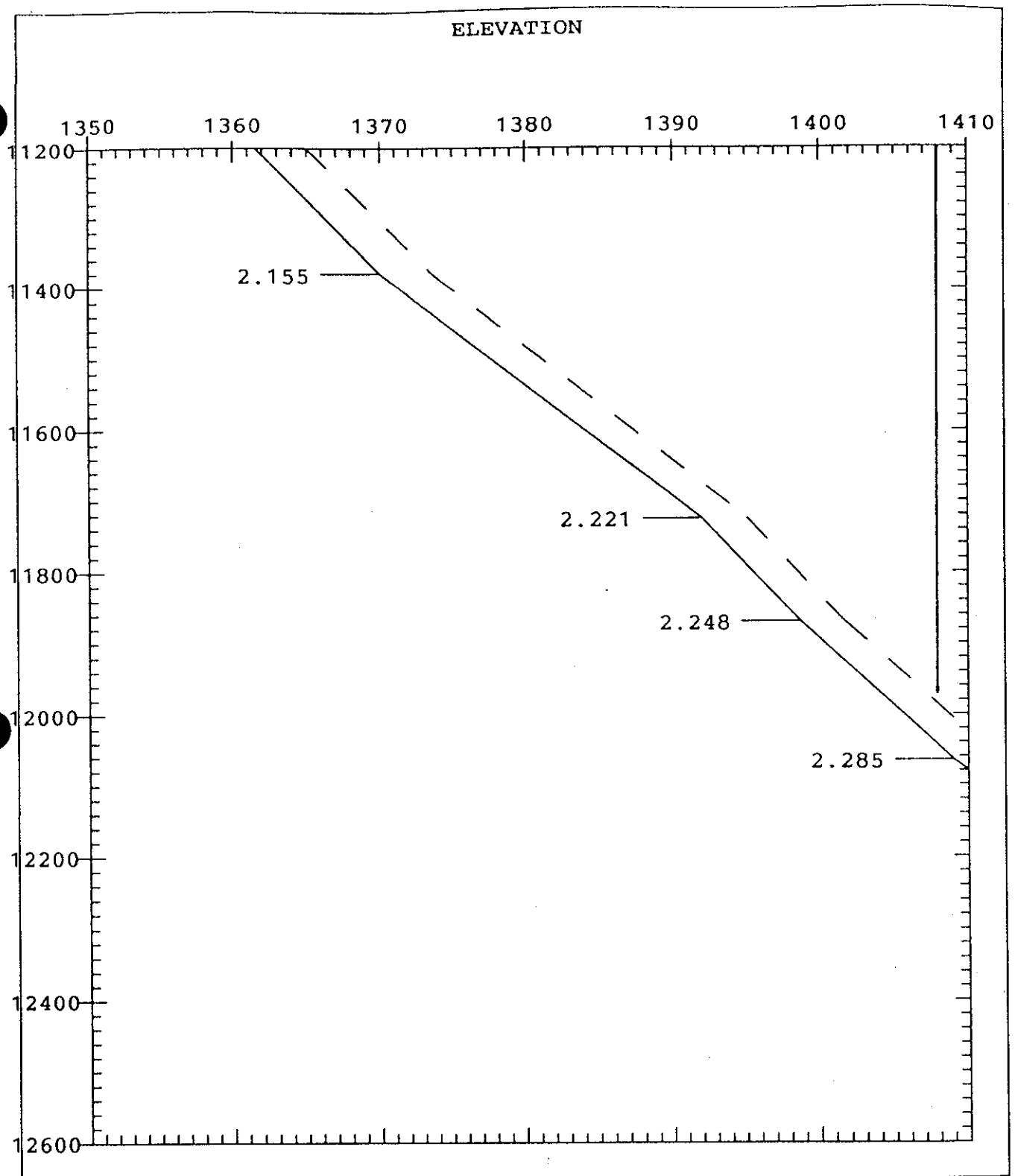
WASH 3 - BEDROCK WASH



WASH 3 - BEDROCK WASH

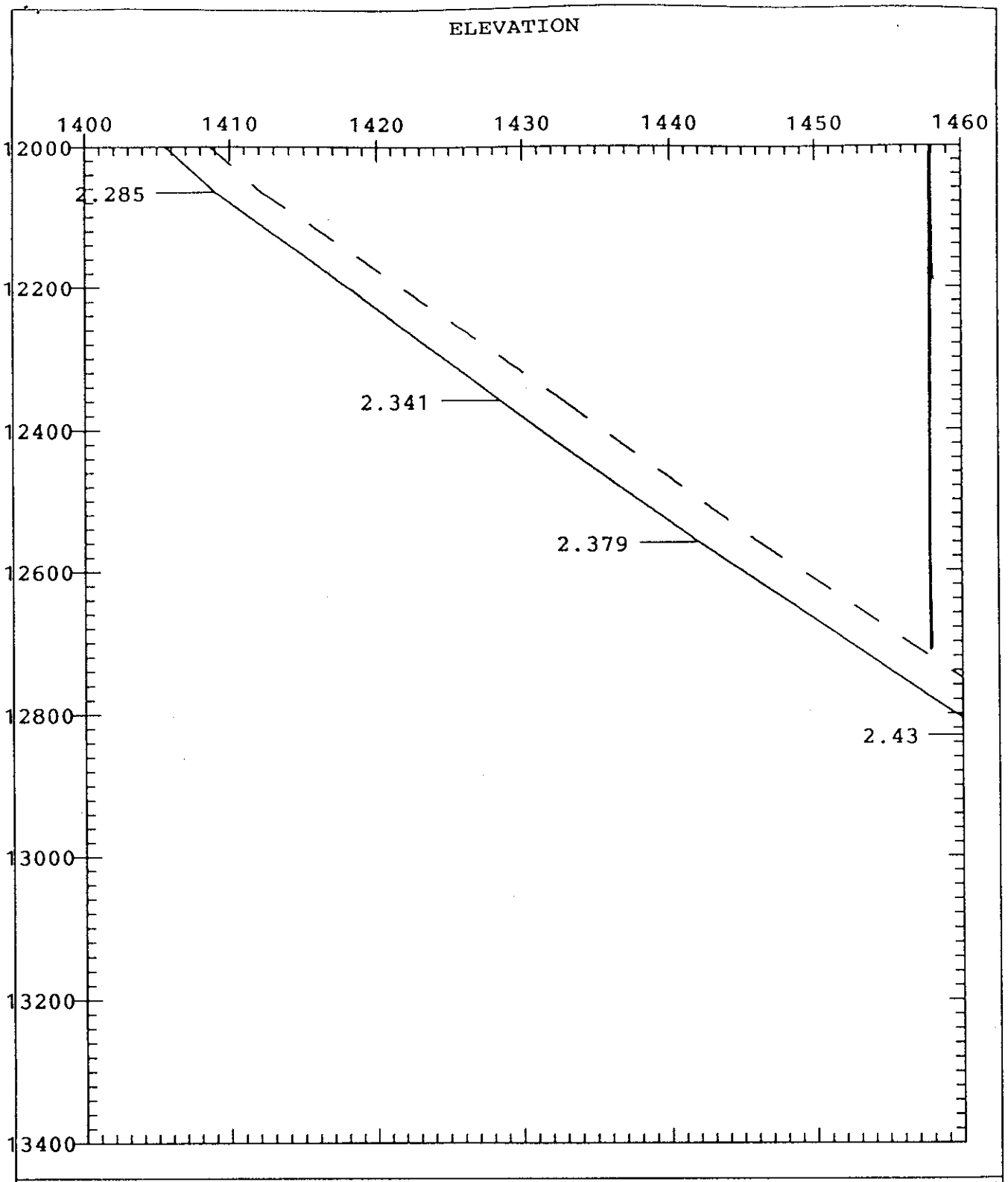


WASH 3 - BEDROCK WASH

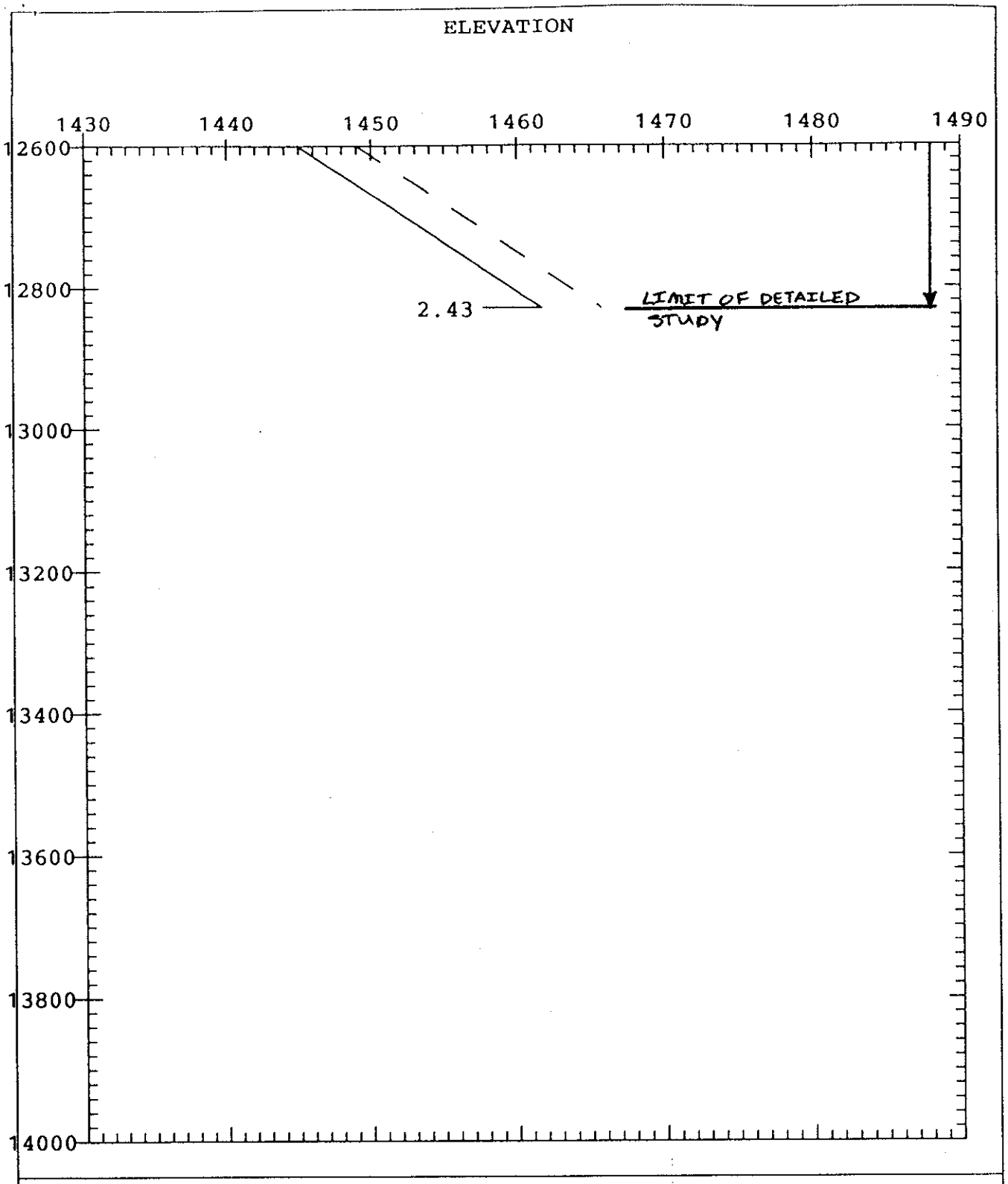


WASH 3 - BEDROCK WASH

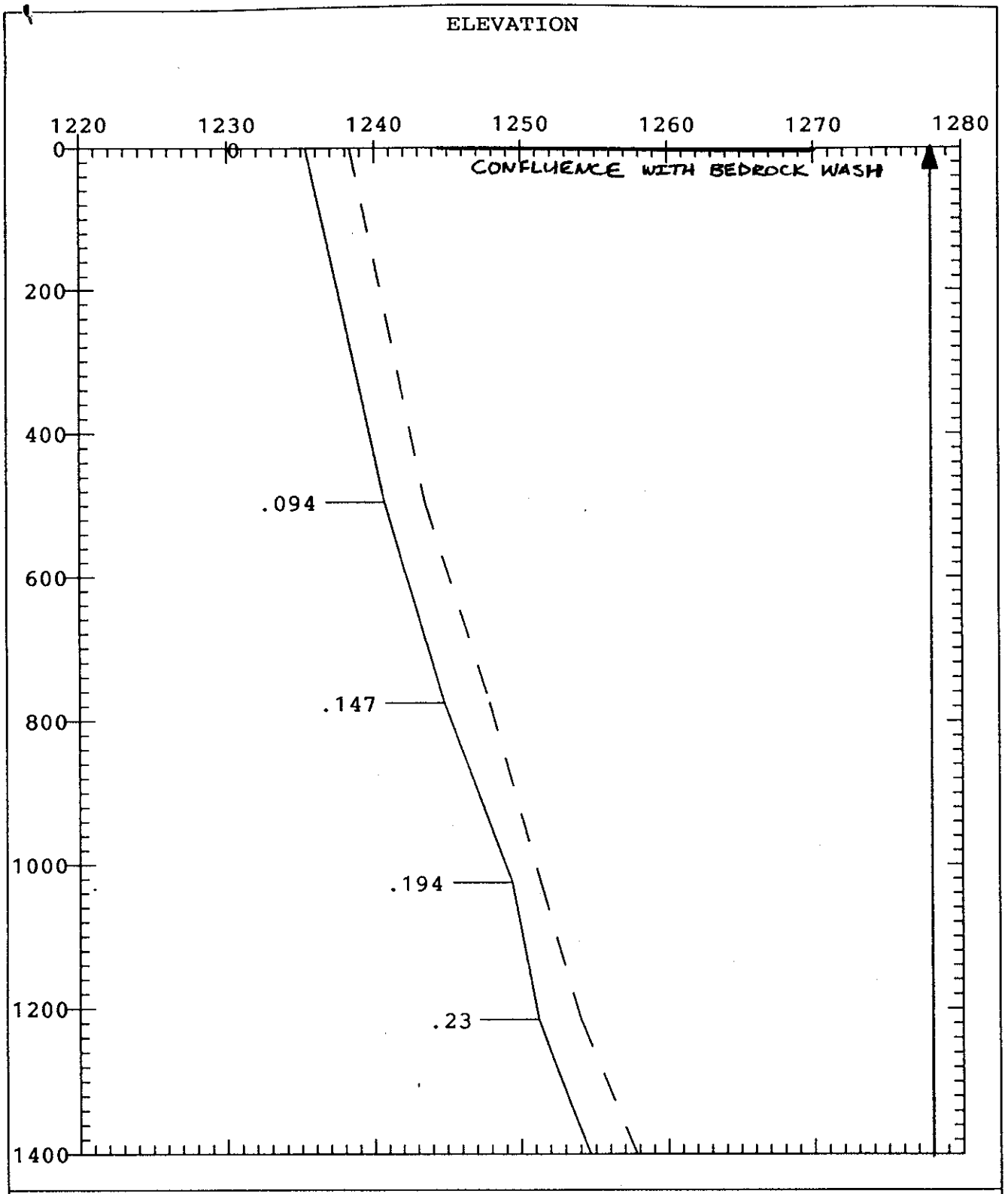
2



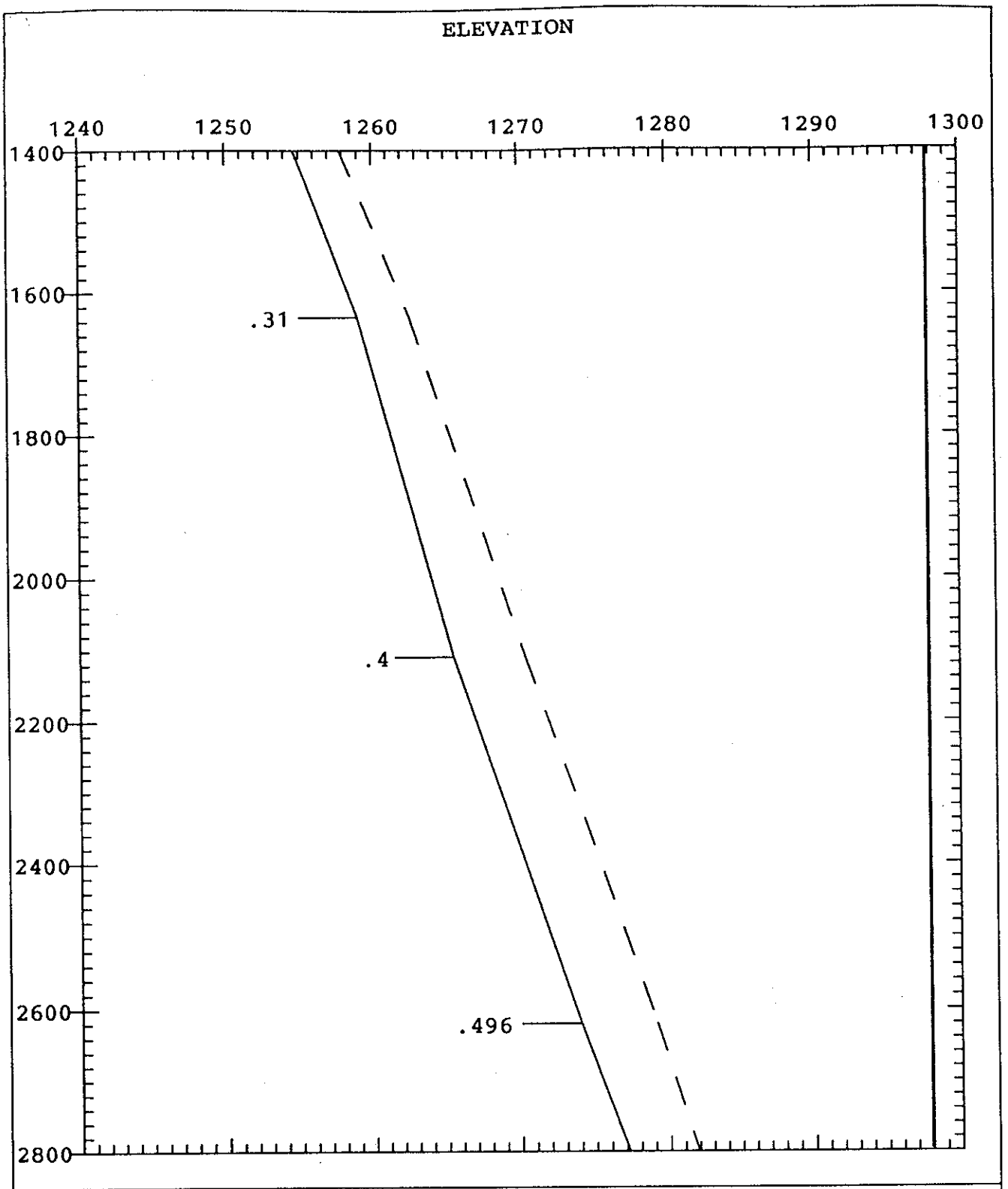
WASH 3 - BEDROCK WASH



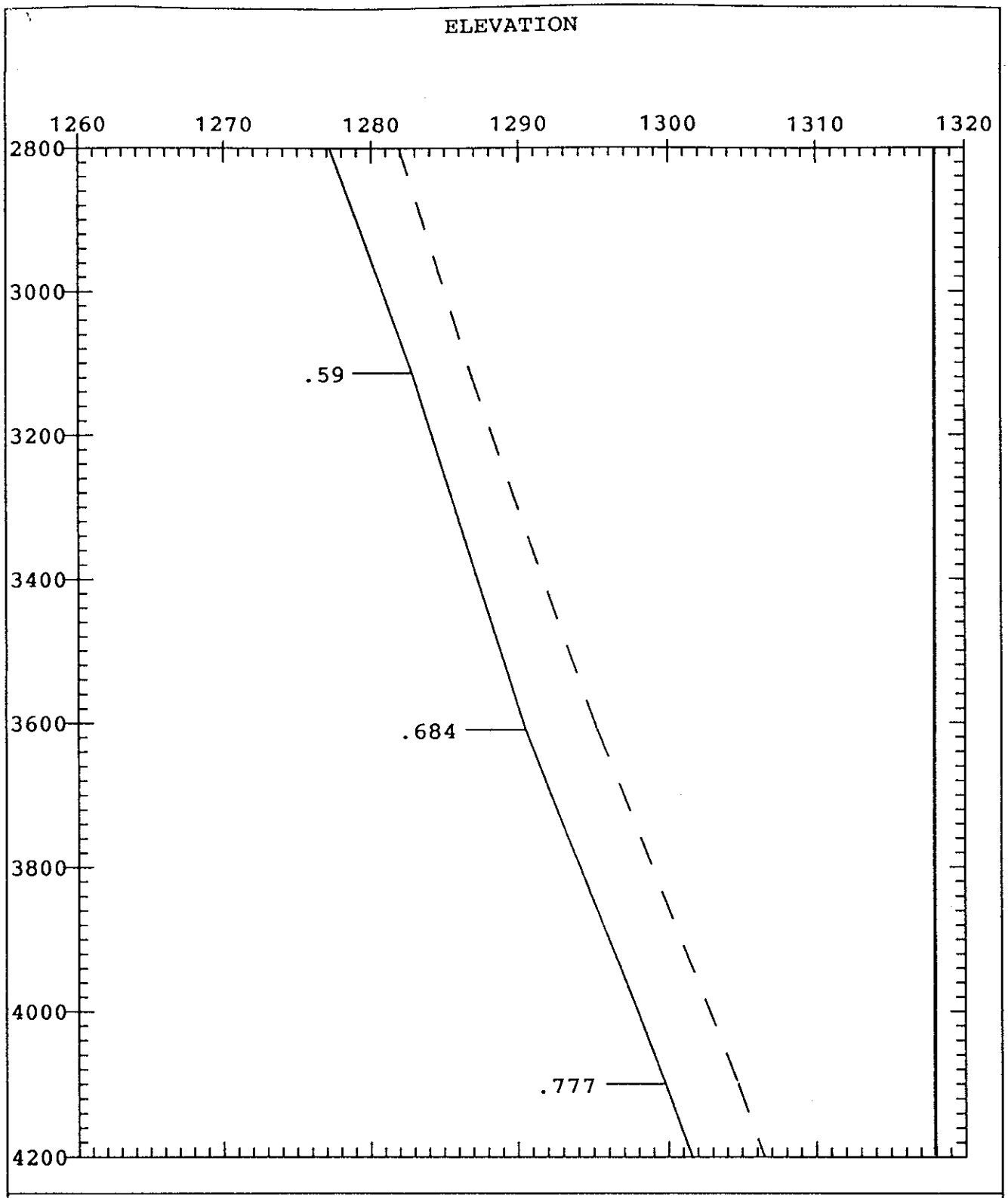
WASH 3 - BEDROCK WASH



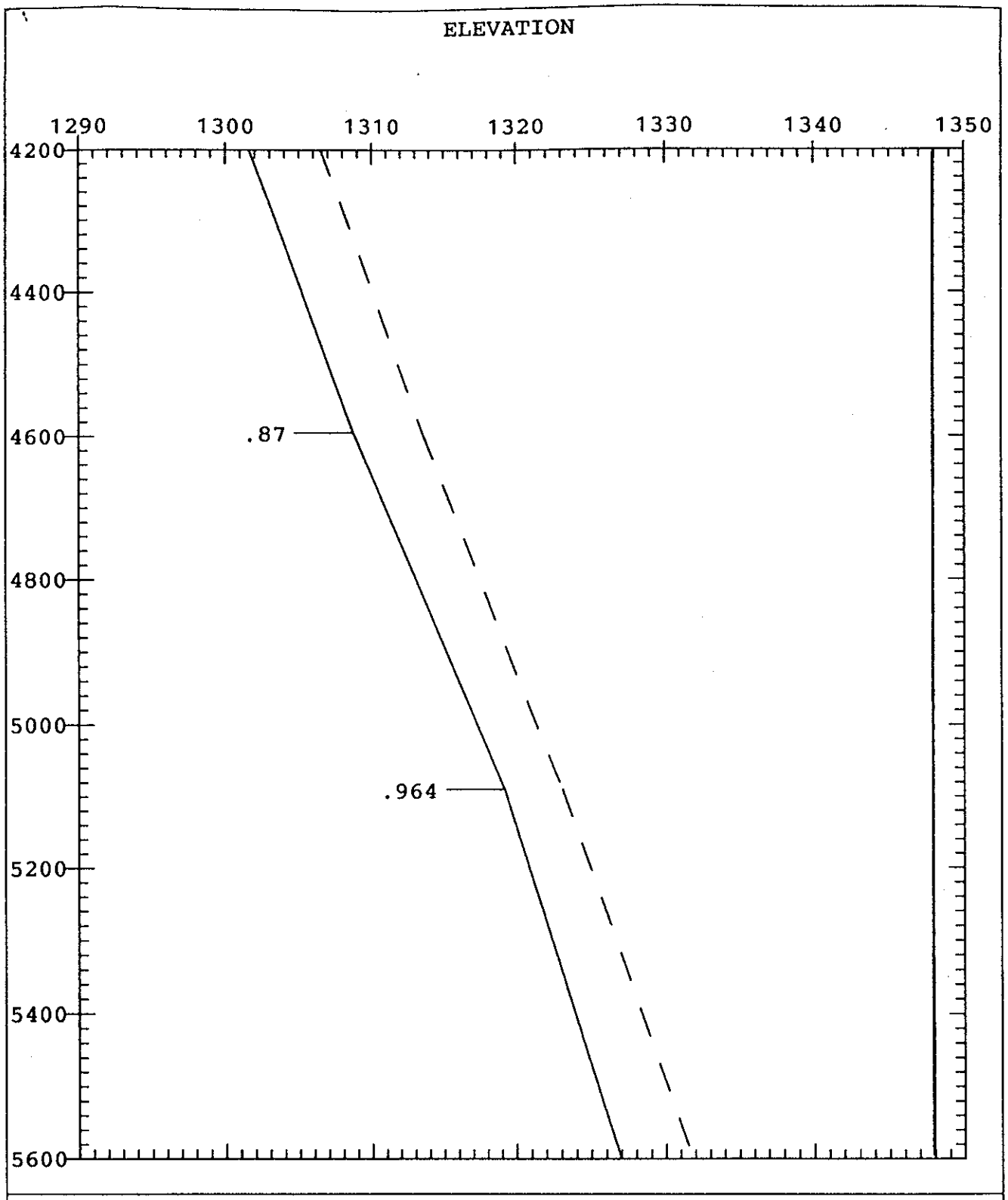
WASH 3A - NORTH FORK BEDROCK WASH



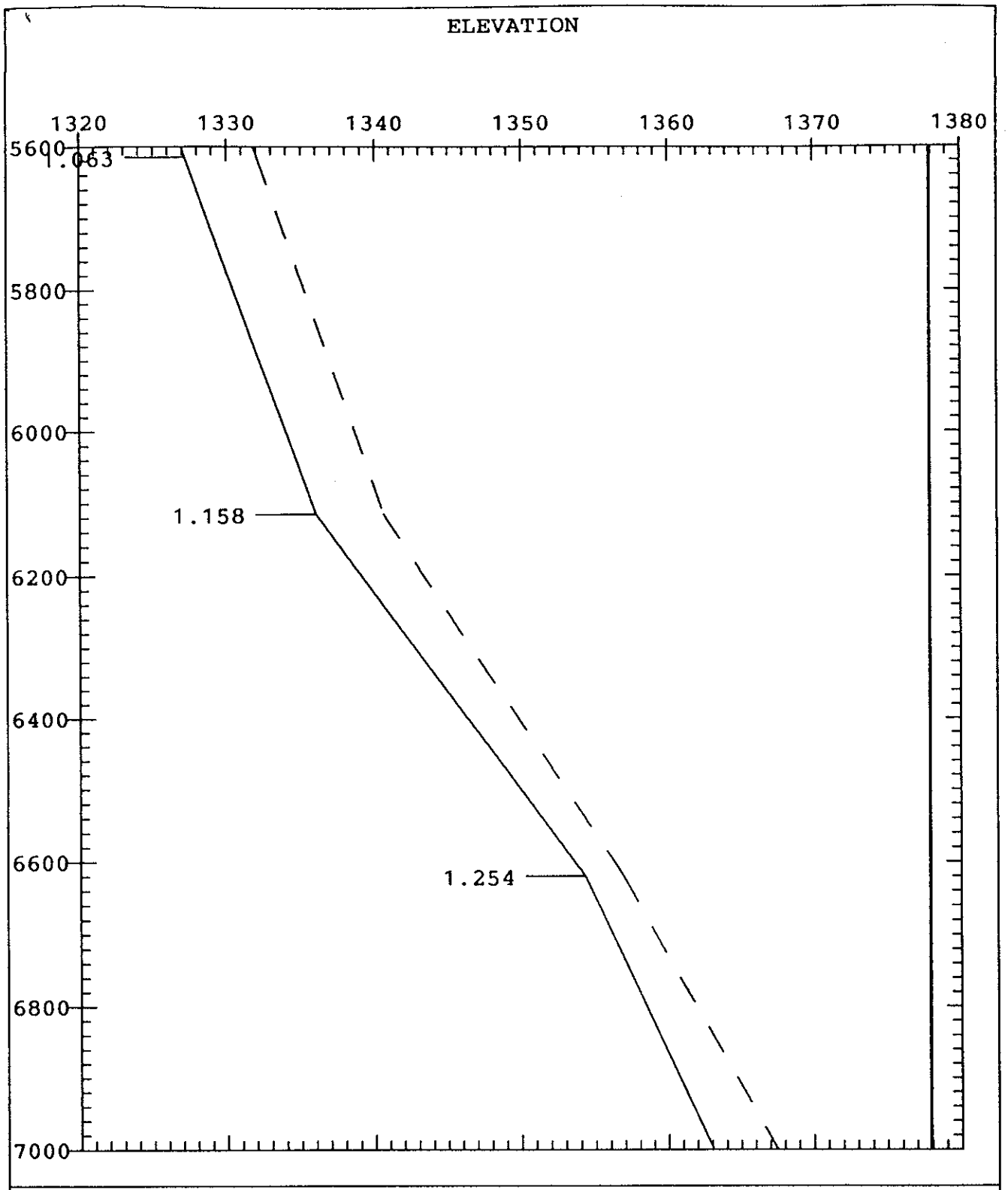
WASH 3A - NORTH FORK BEDROCK WASH



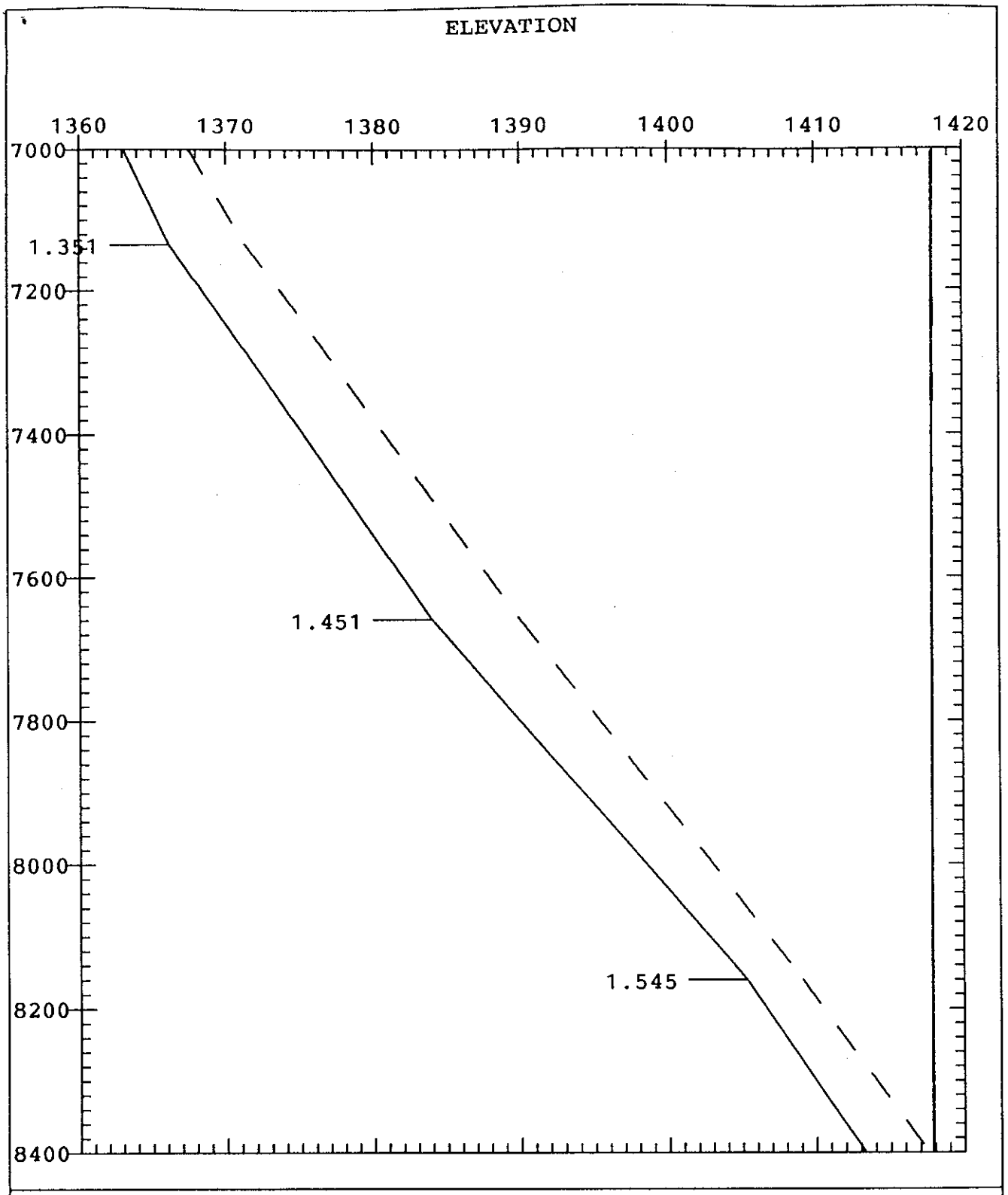
WASH 3A - NORTH FORK BEDROCK WASH



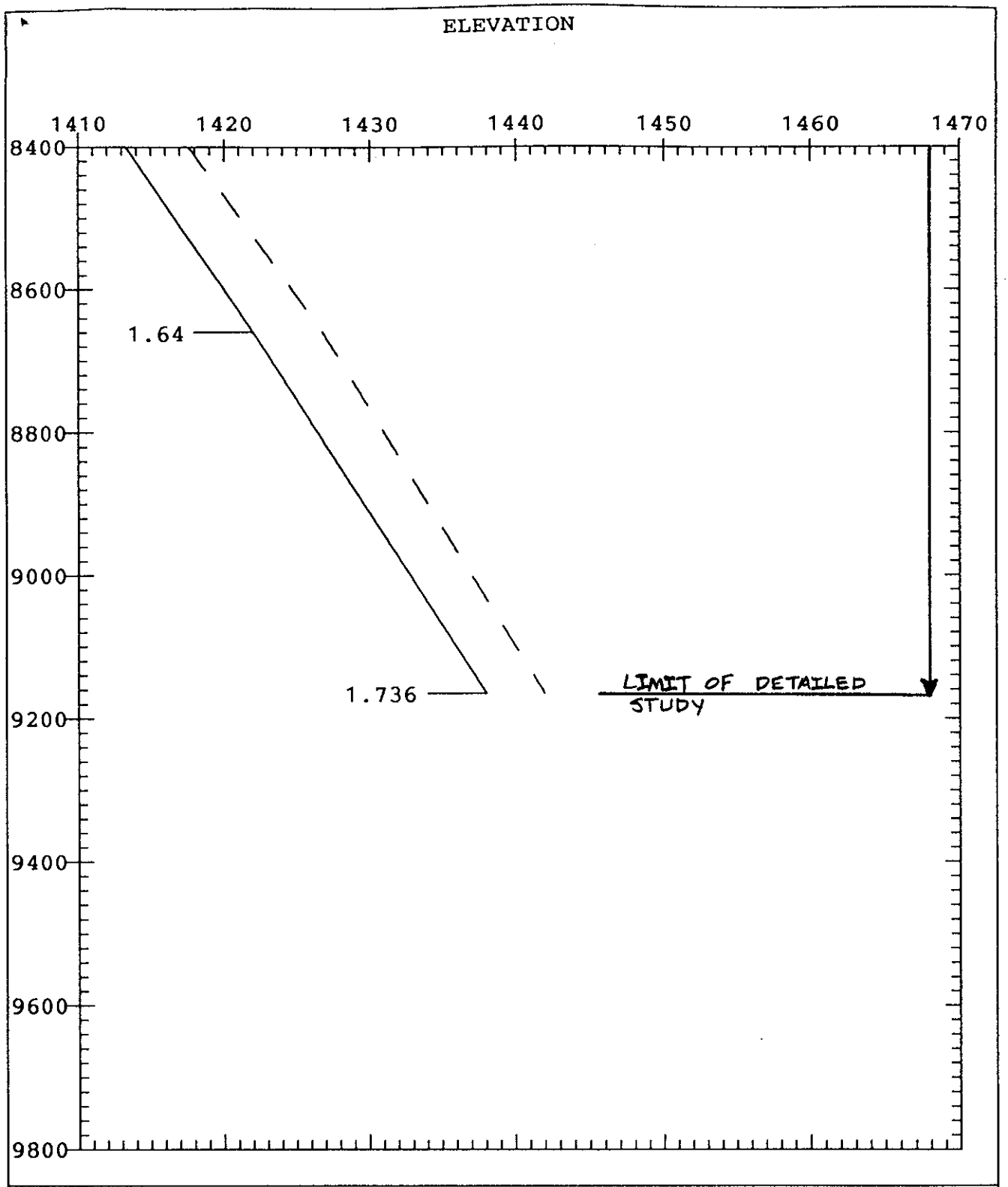
WASH 3A - NORTH FORK BEDROCK WASH



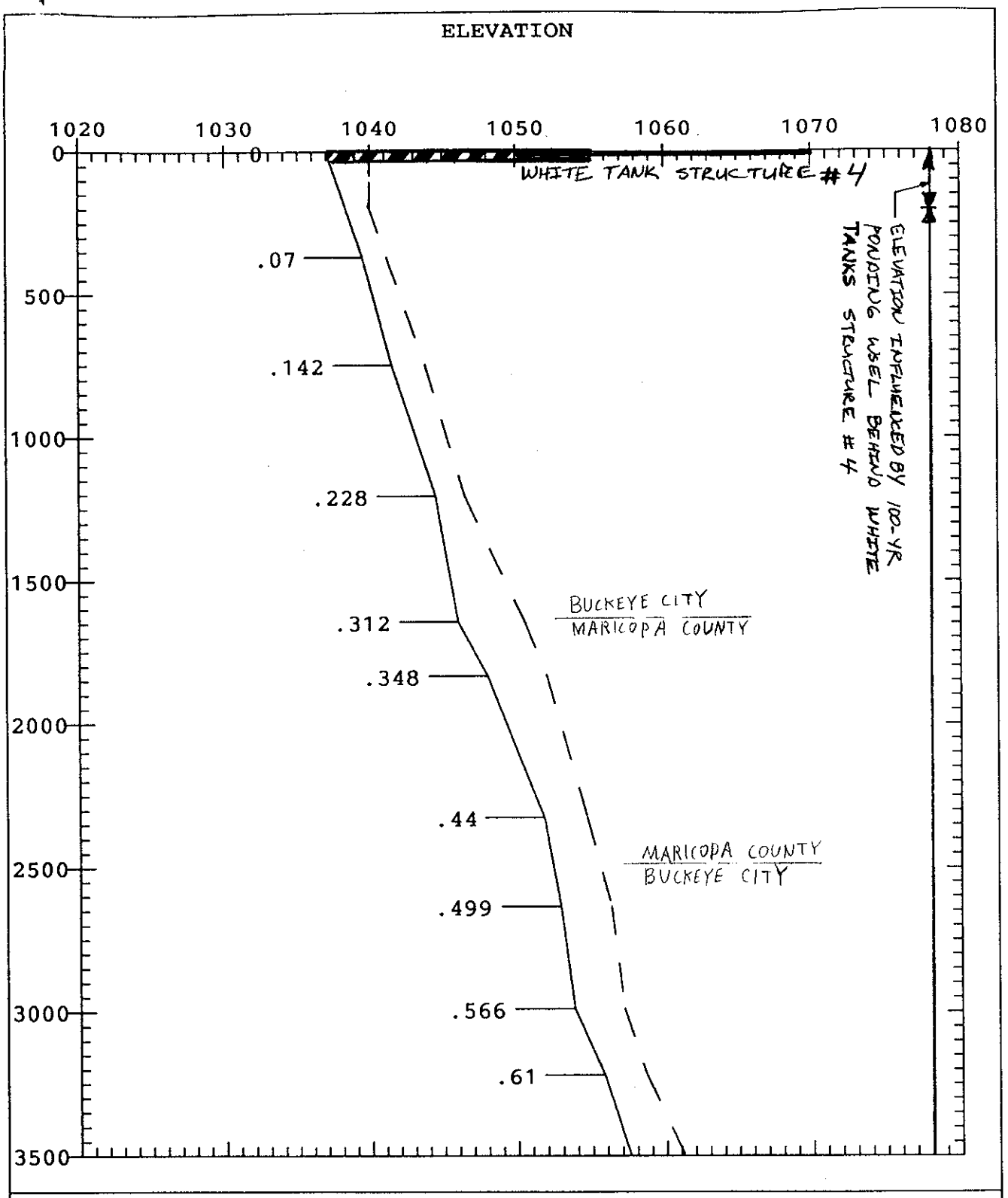
WASH 3A - NORTH FORK BEDROCK WASH



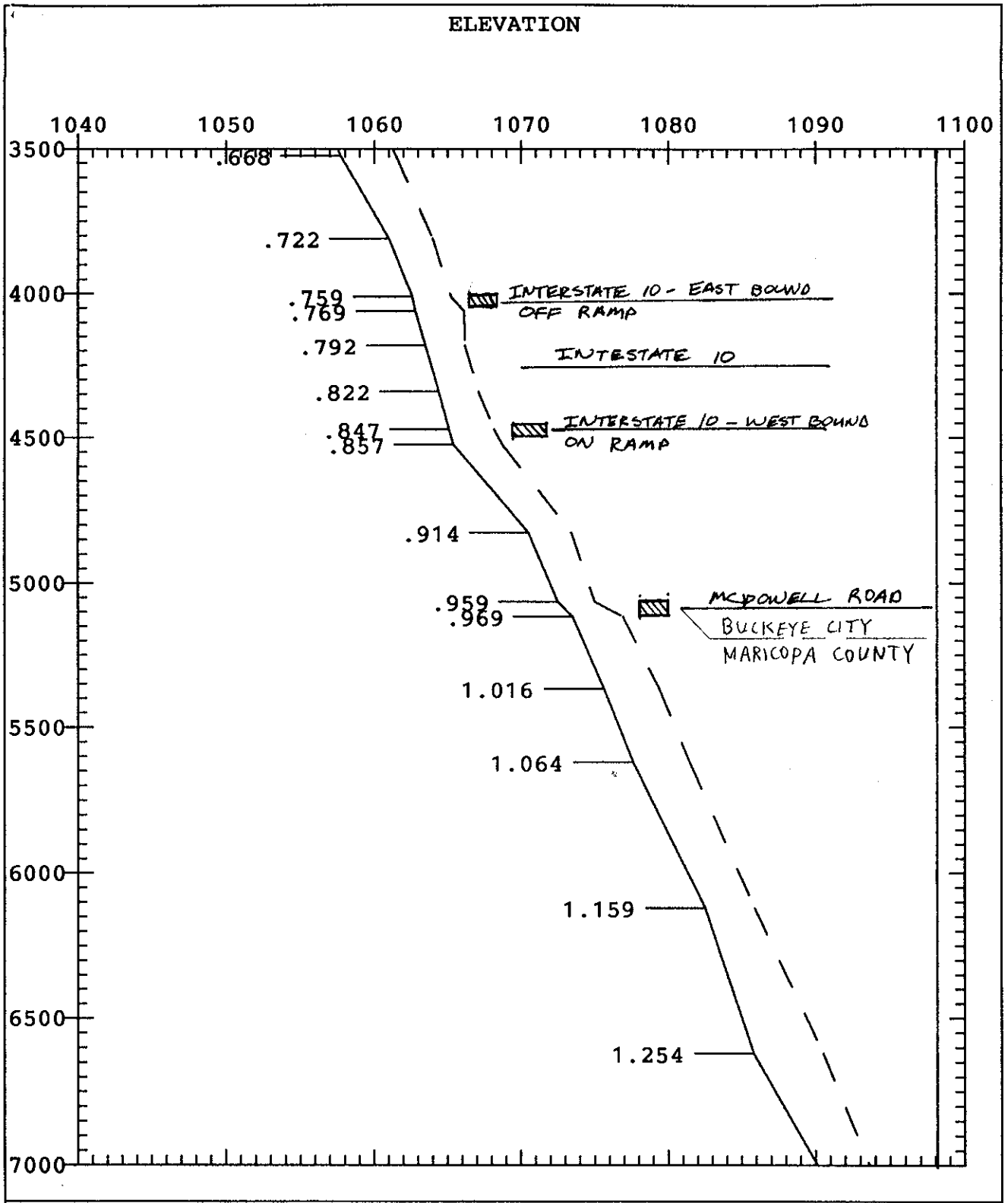
WASH 3A - NORTH FORK BEDROCK WASH



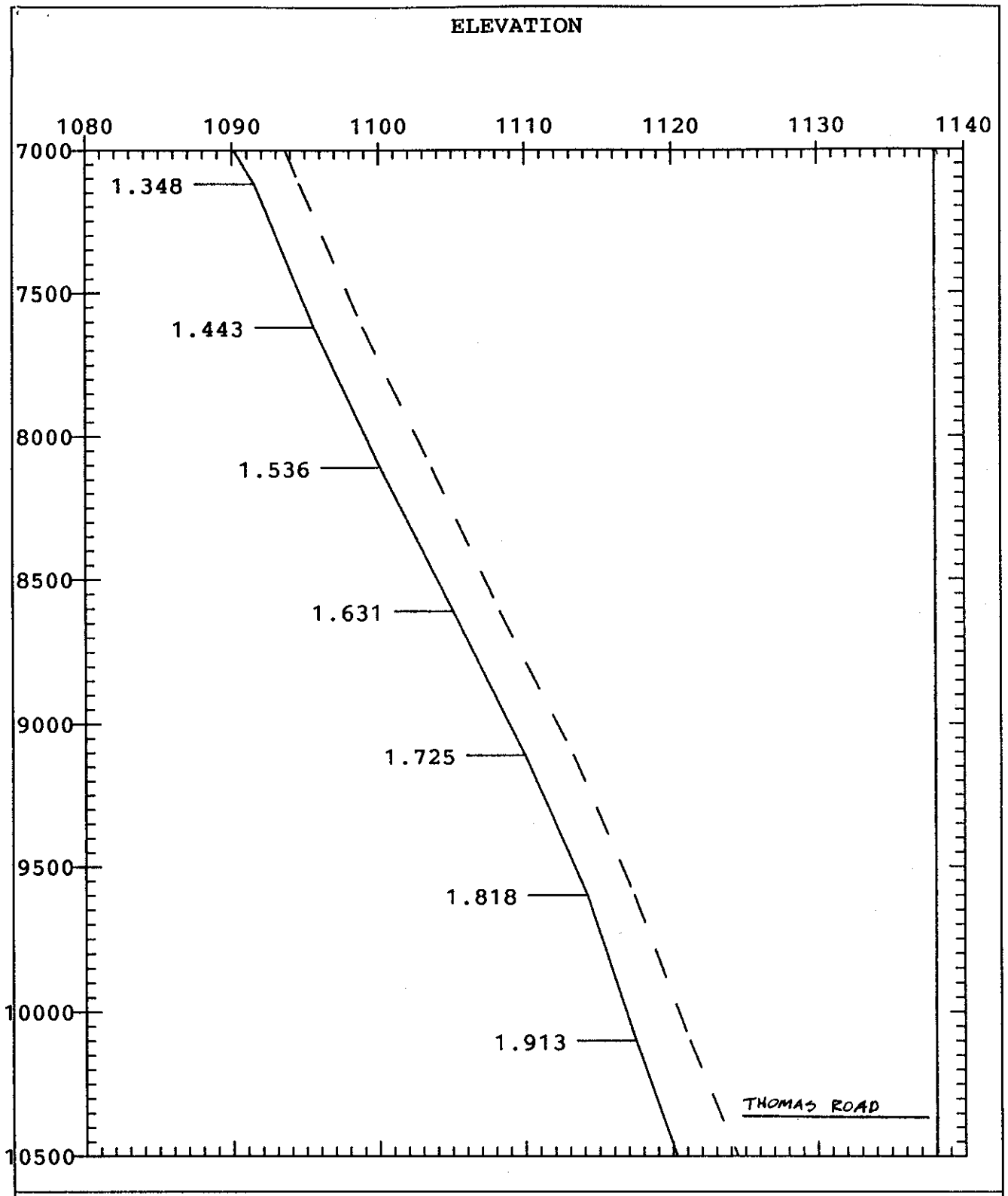
WASH 3A - NORTH FORK BEDROCK WASH



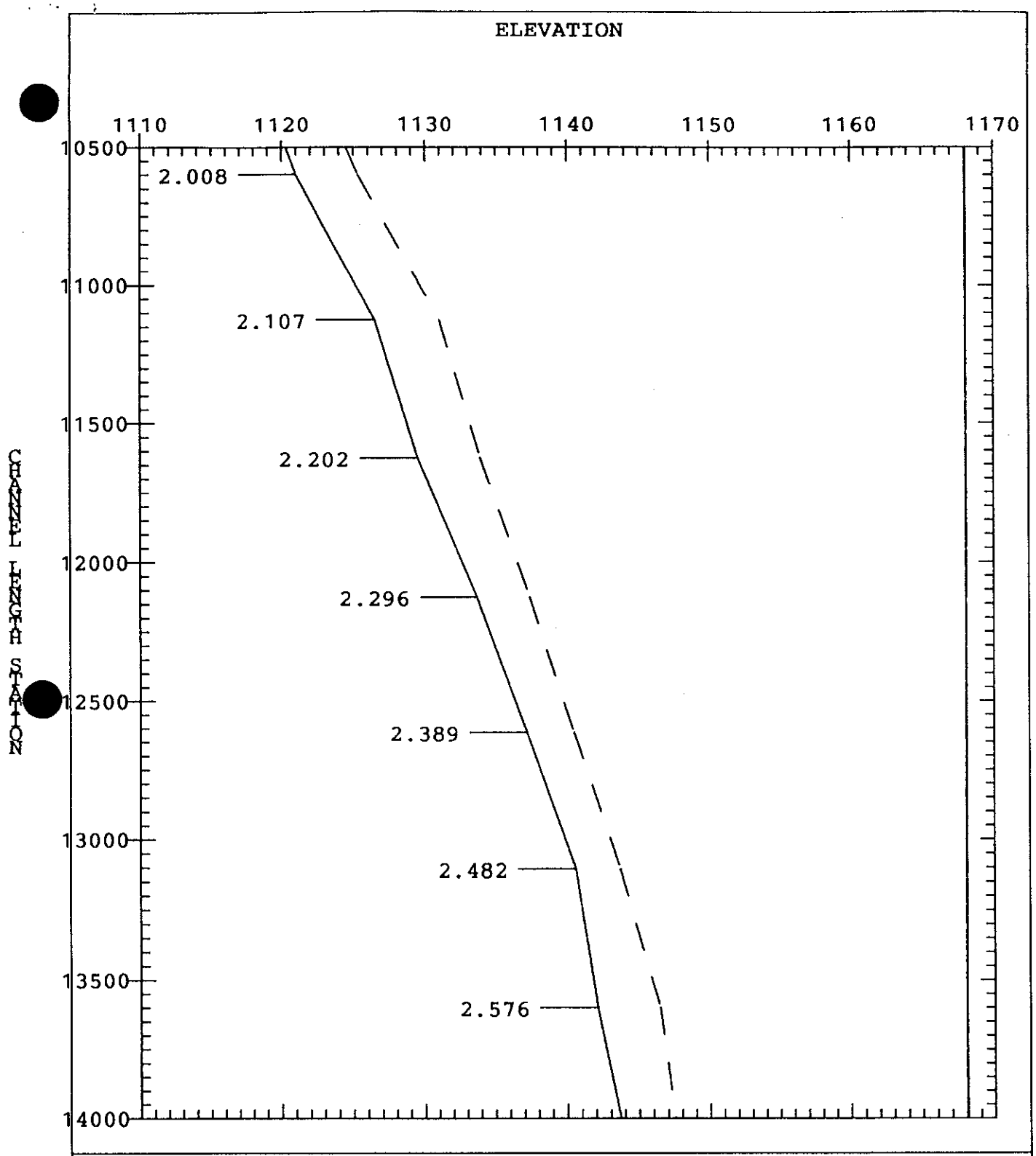
WASH 4 - JACKRABBIT TRAIL WASH



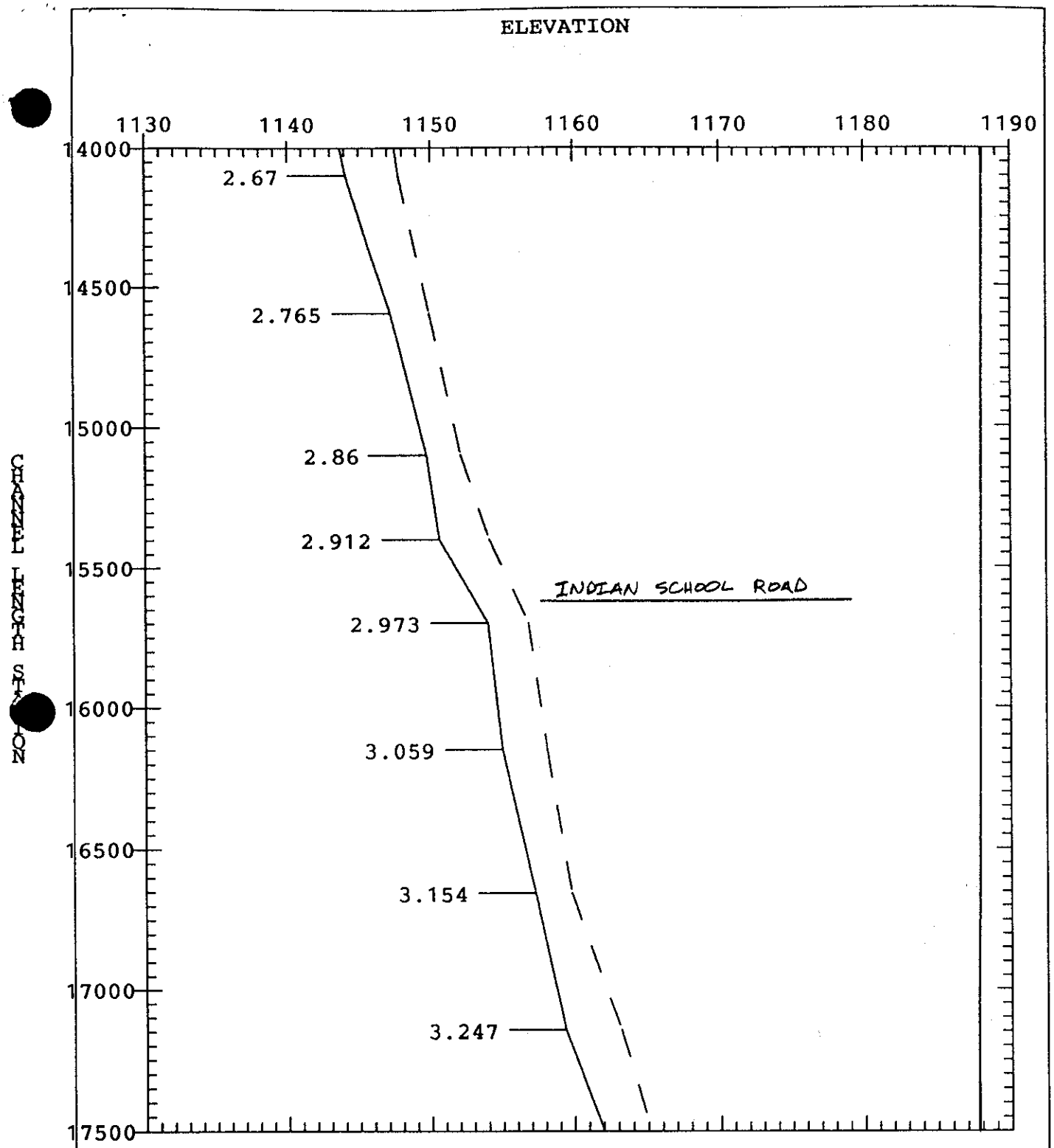
WASH 4 - JACKRABBIT TRAIL WASH



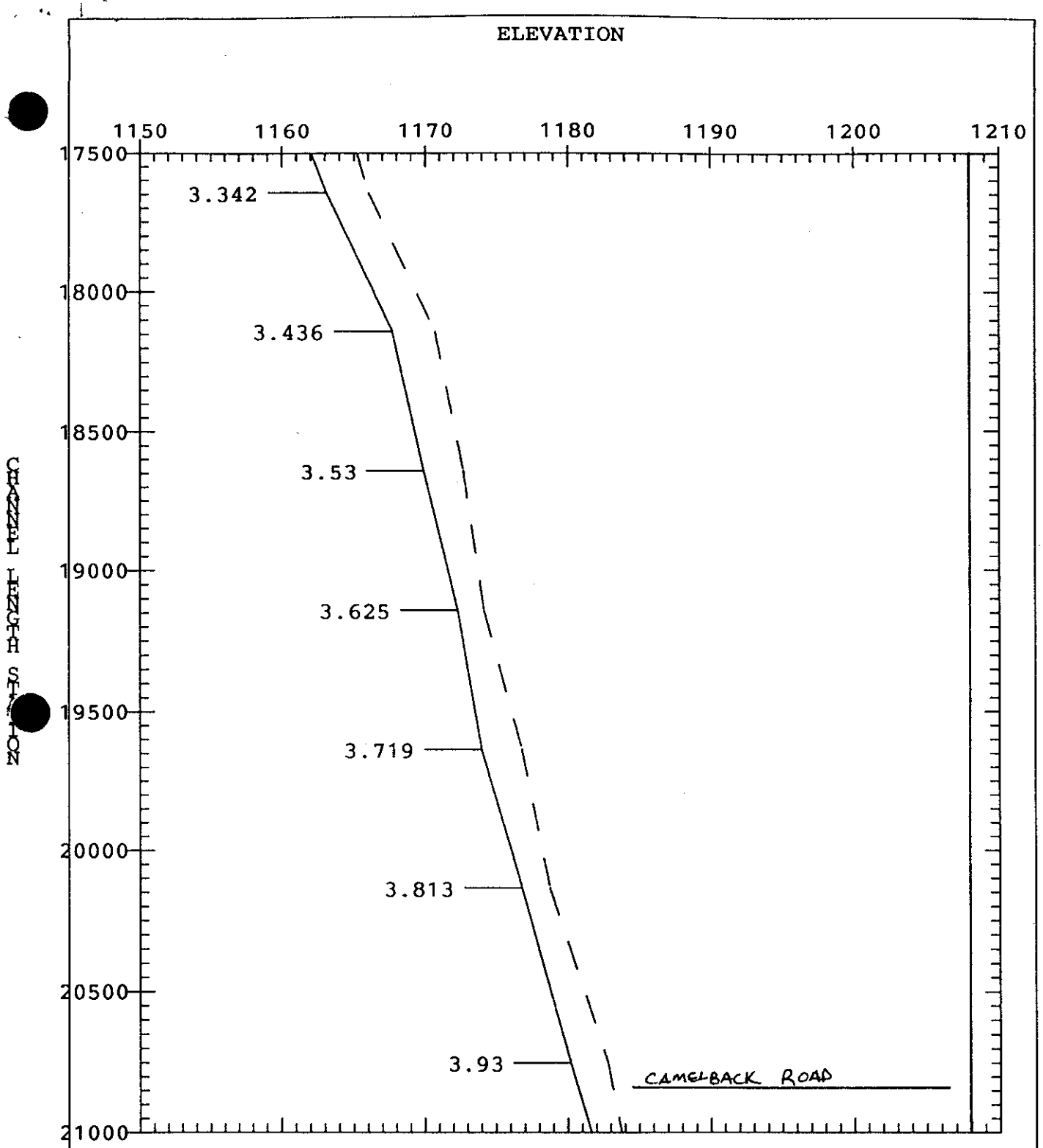
WASH 4 - JACKRABBIT TRAIL WASH



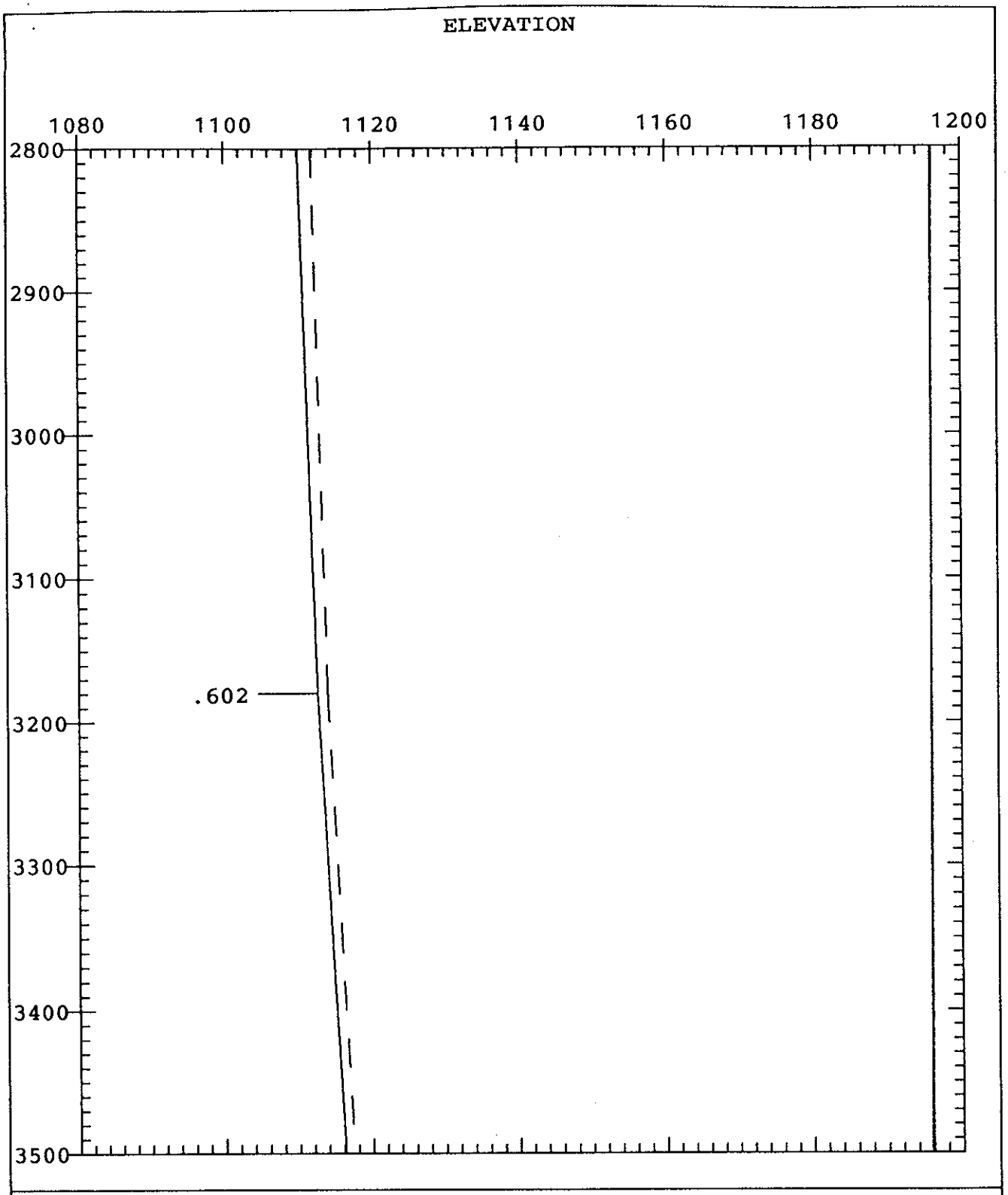
WASH 4 - JACKRABBIT TRAIL WASH



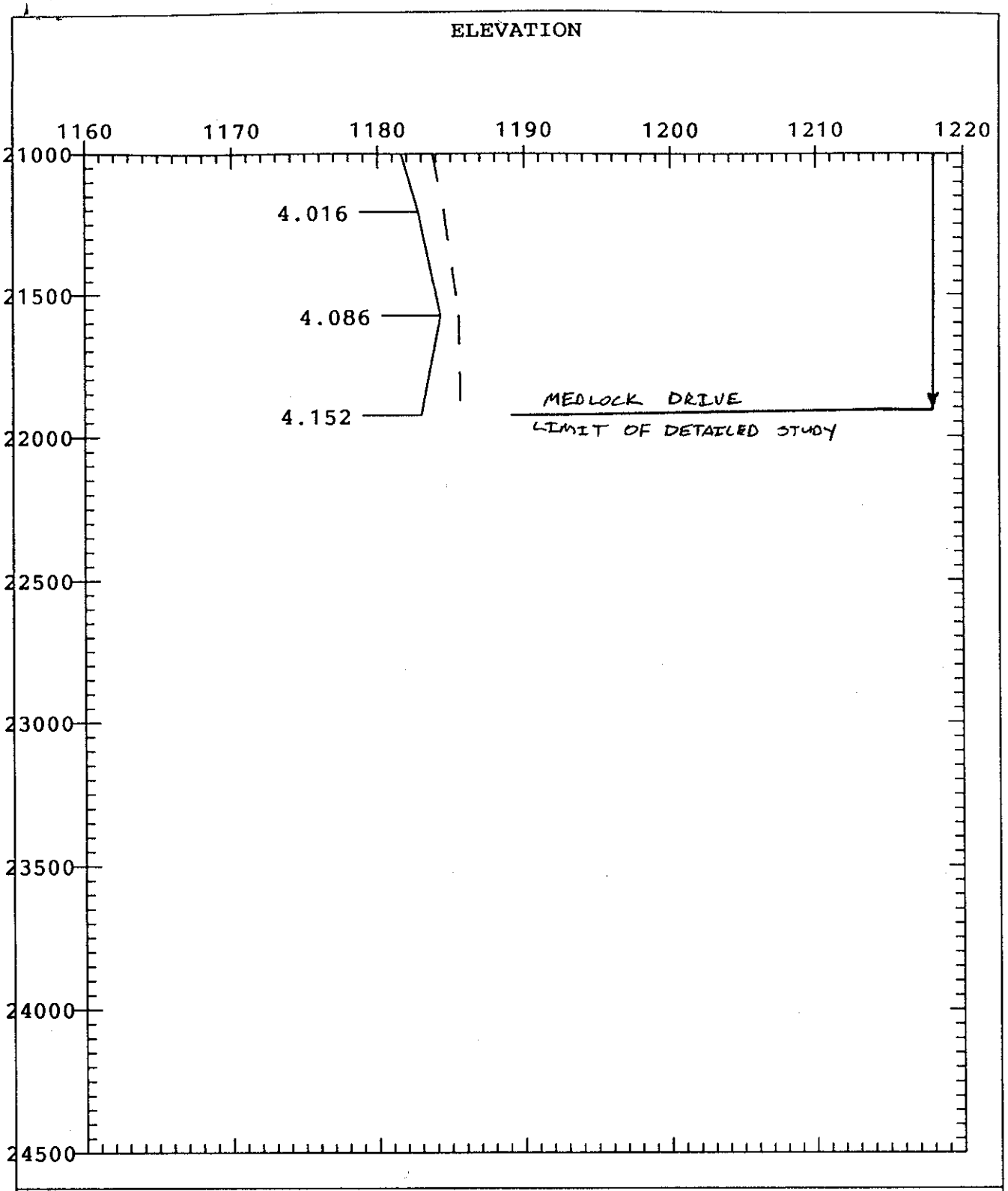
WASH 4 - JACKRABBIT TRAIL WASH



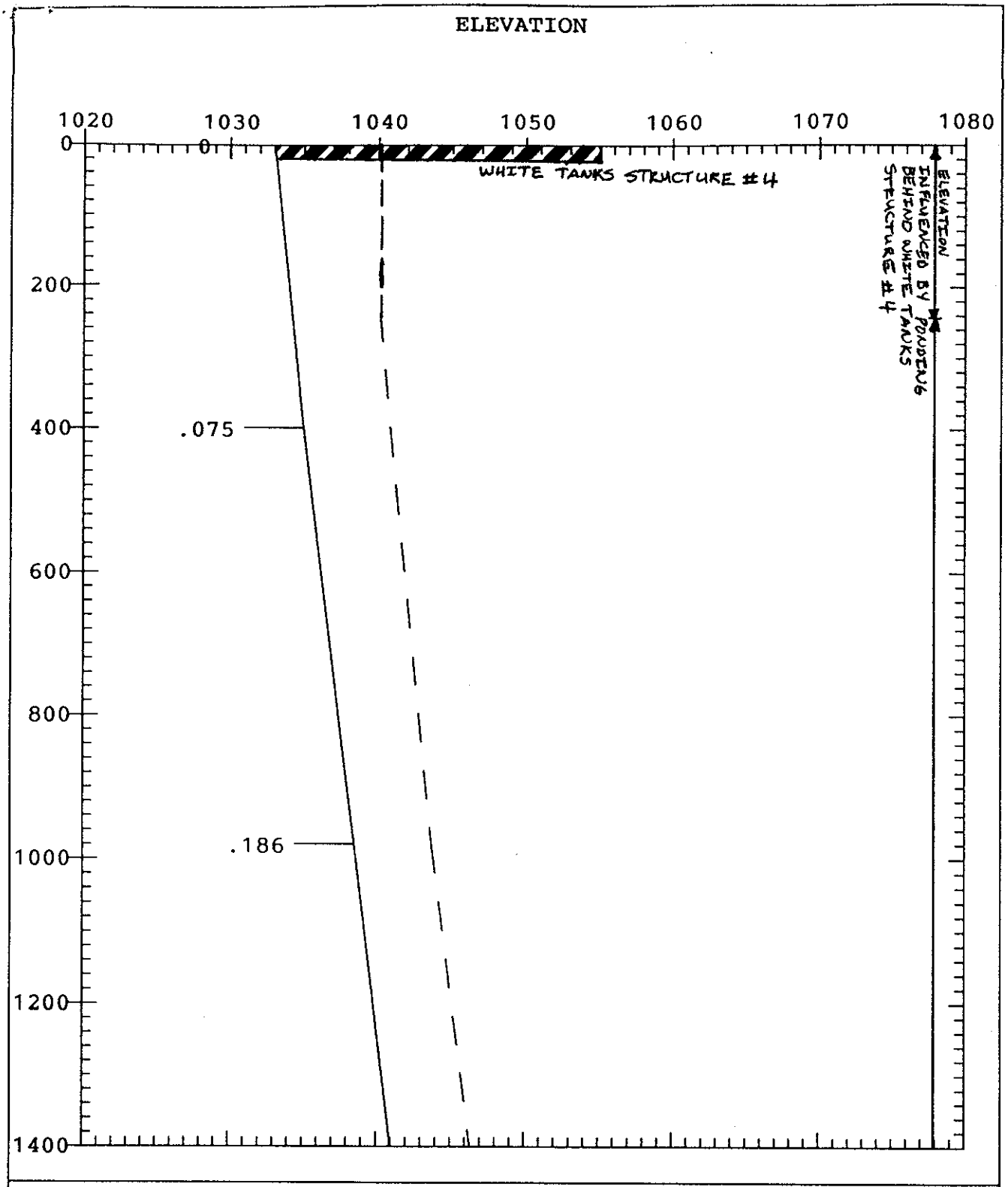
WASH 4 - JACKRABBIT TRAIL WASH



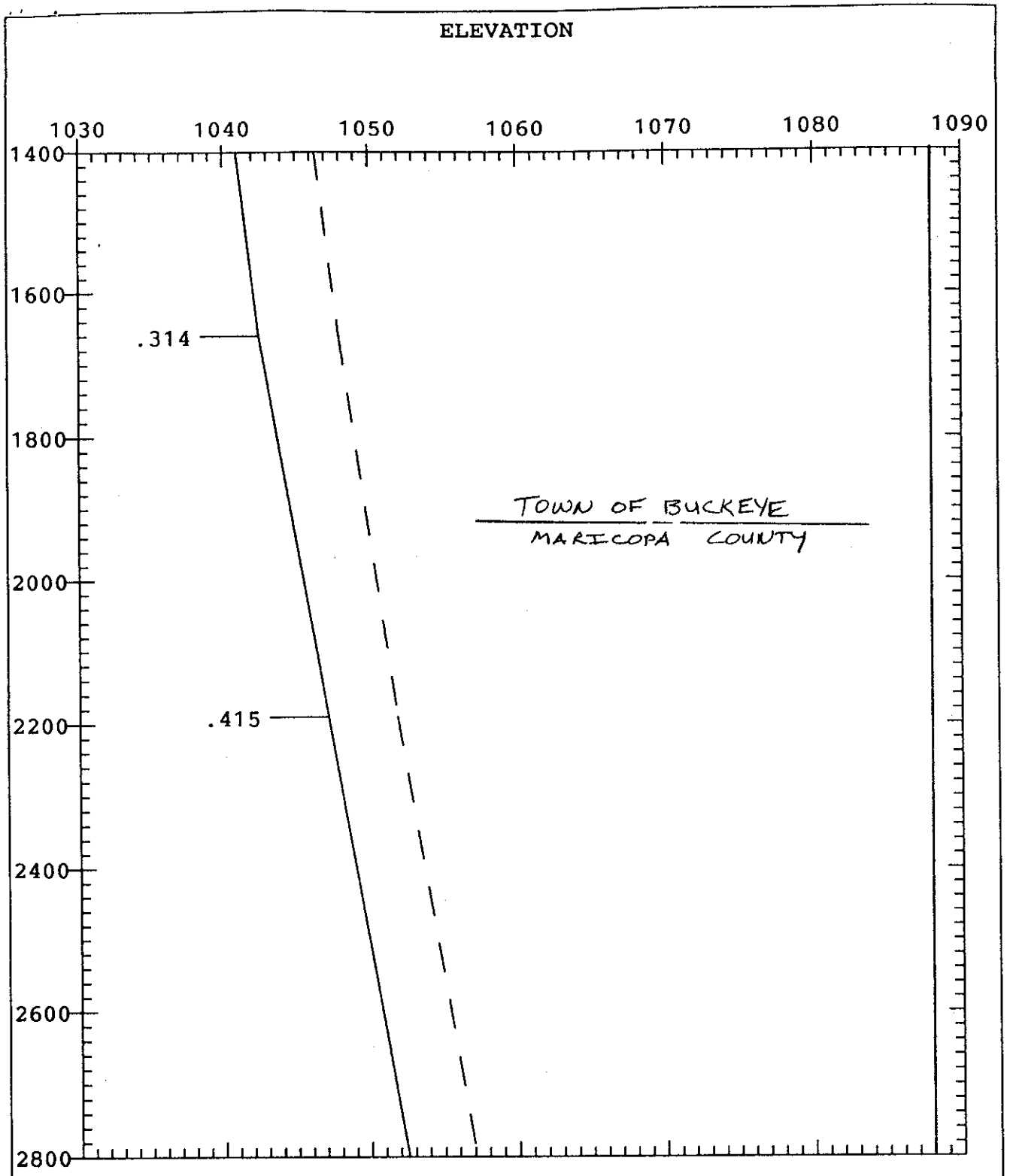
WASH 5A - BULLDOZER WASH



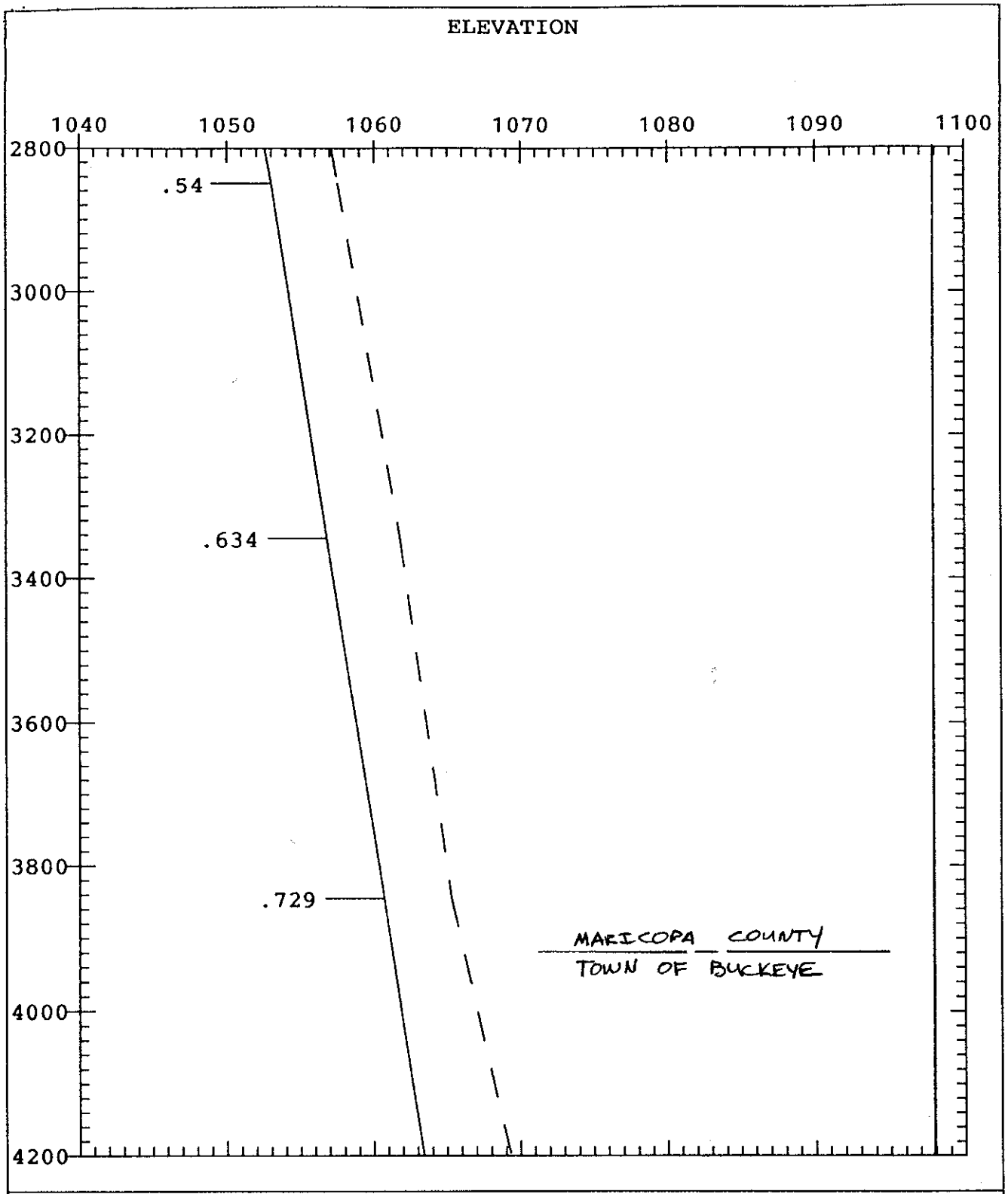
WASH 4 - JACKRABBIT TRAIL WASH



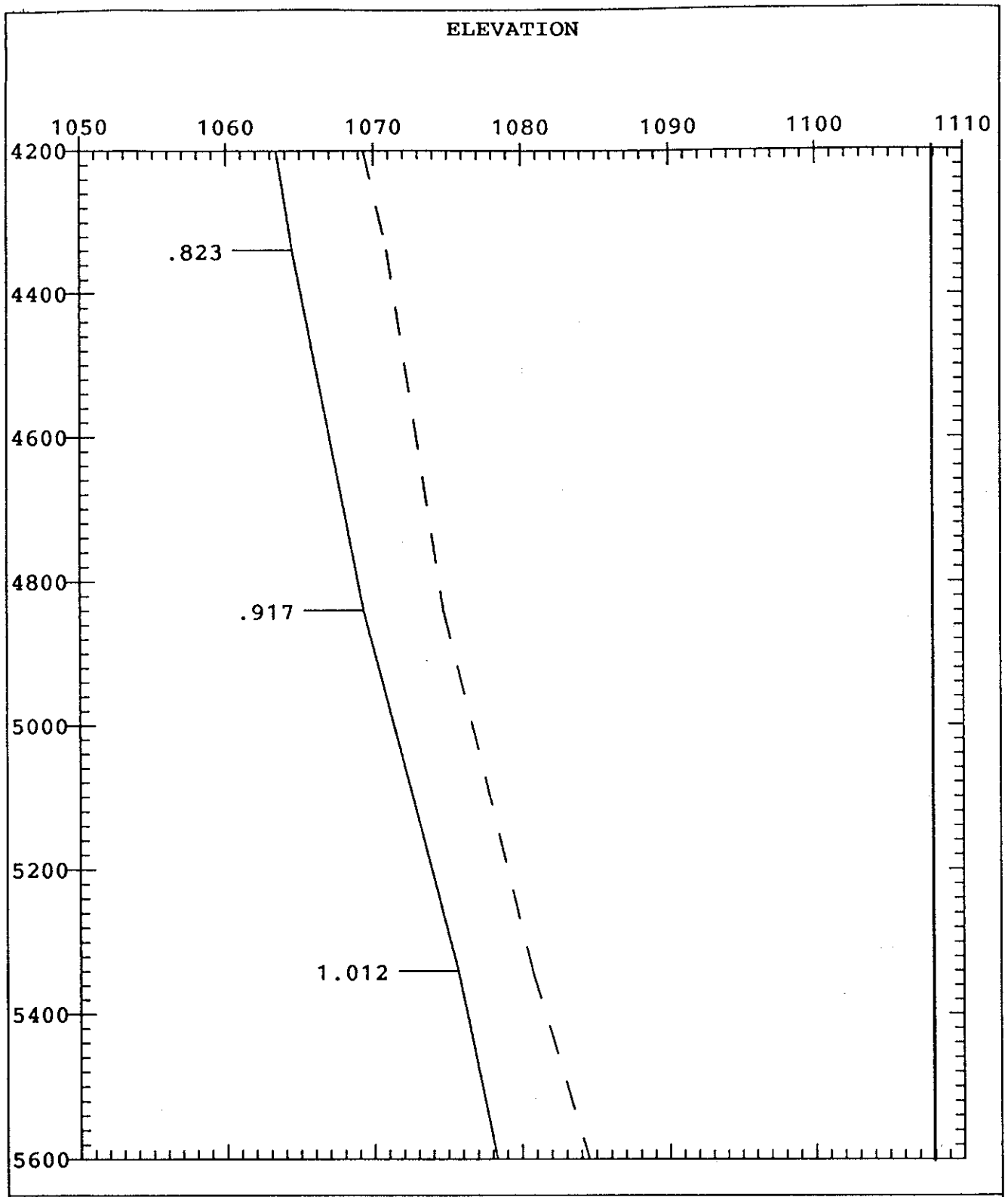
WASH 5 - TUTHILL DIKE WASH



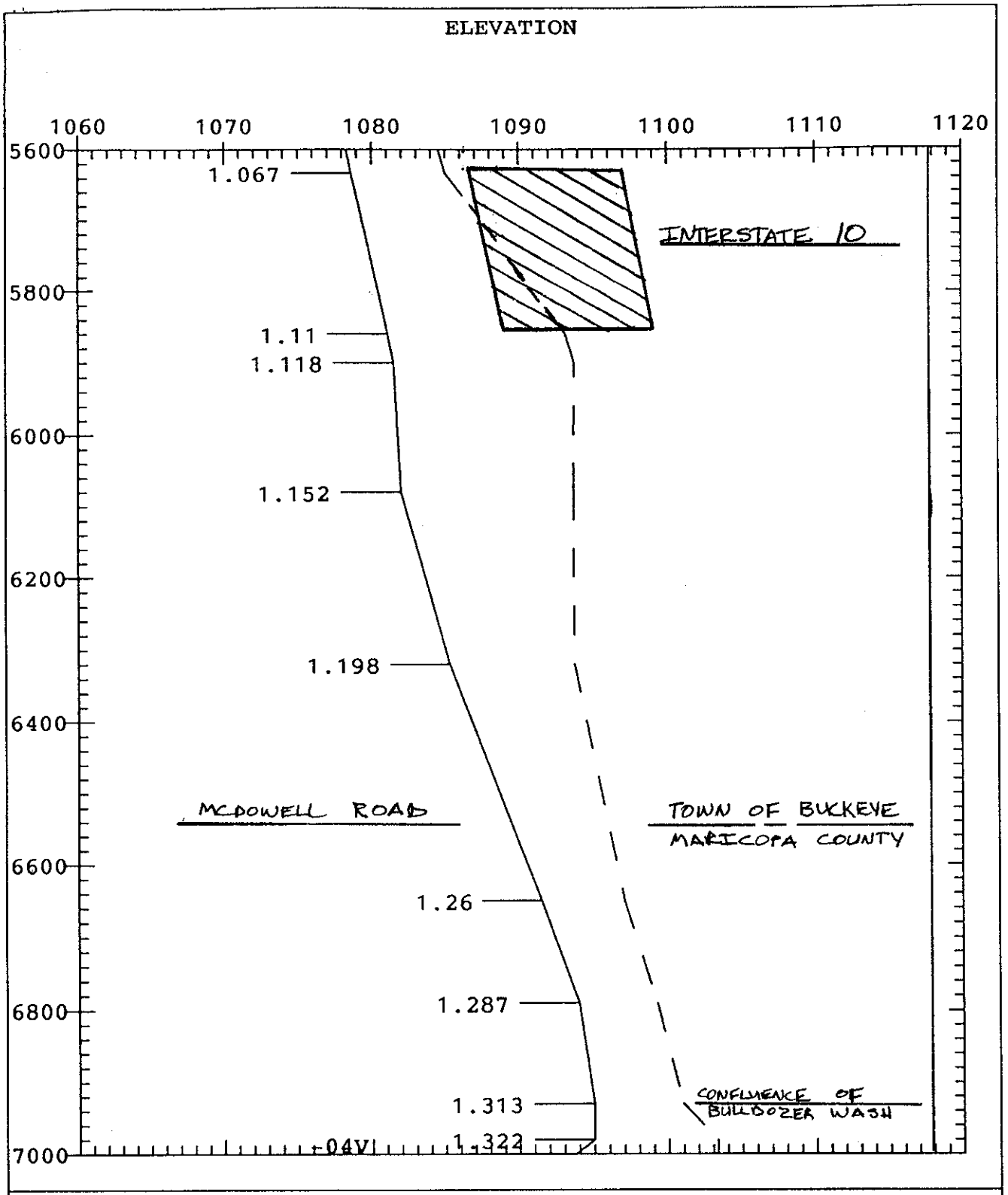
WASH 5 - TUTHILL DIKE WASH



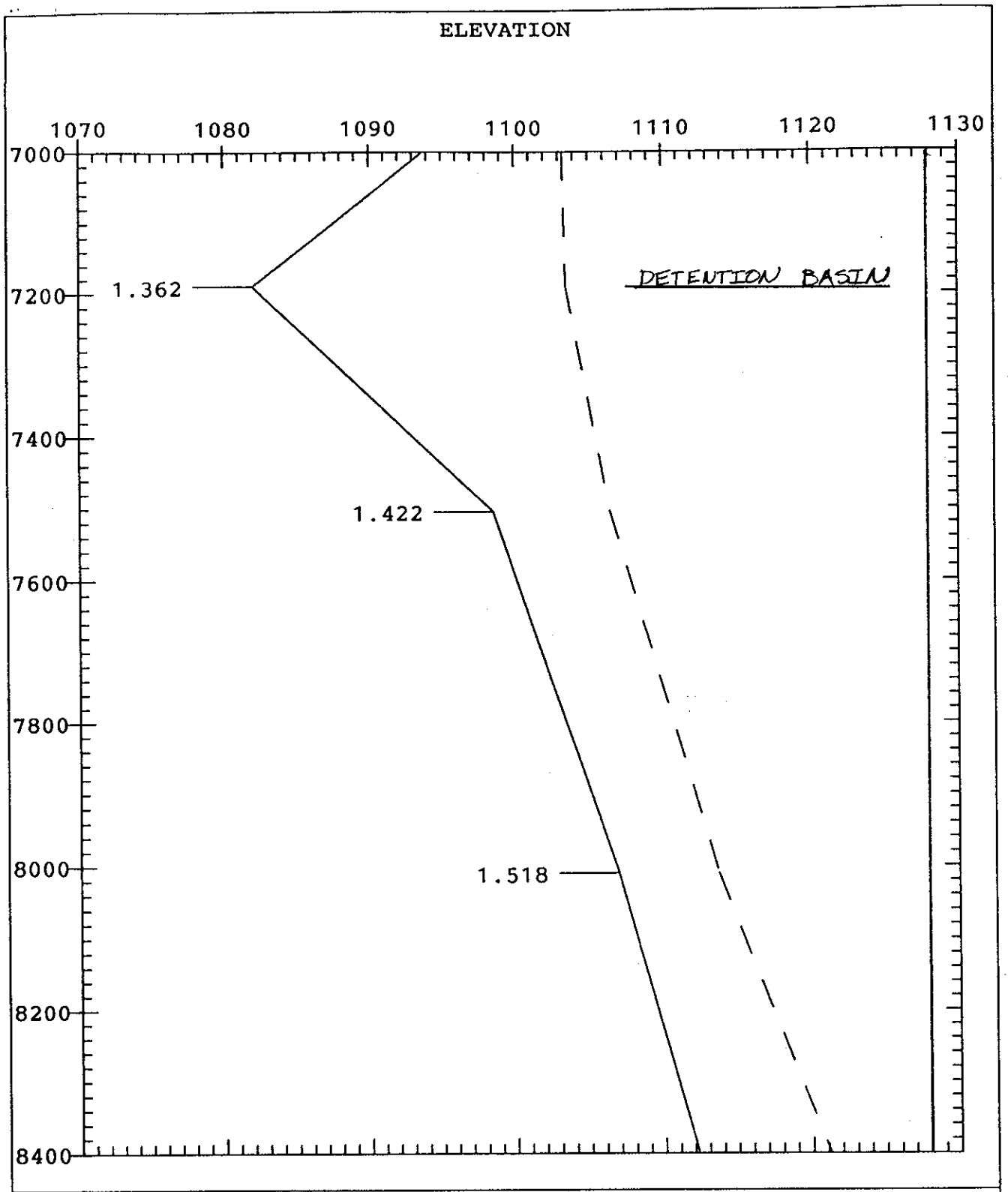
WASH 5 - TUTHILL DIKE WASH



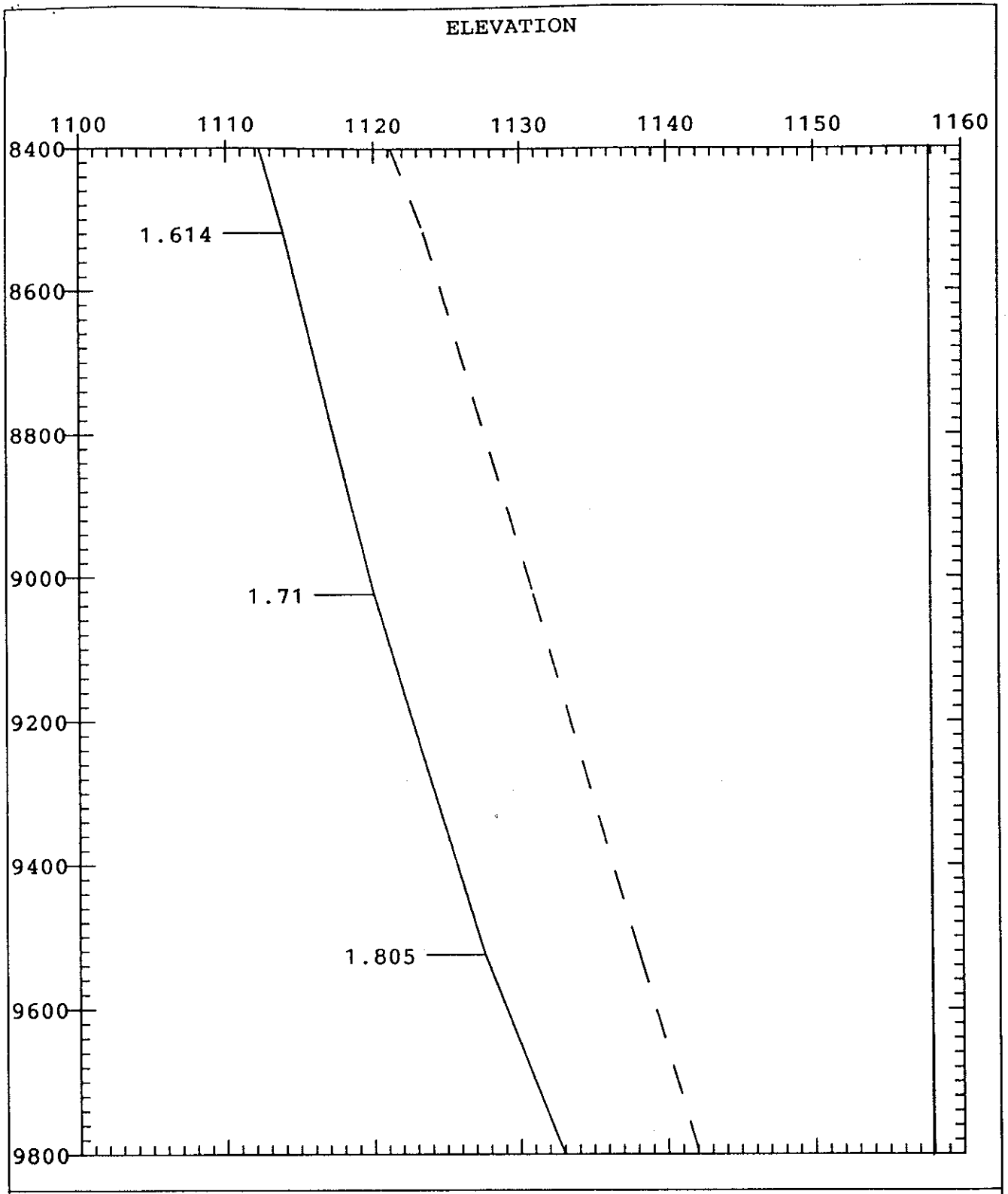
WASH 5 - TUTHILL DIKE WASH



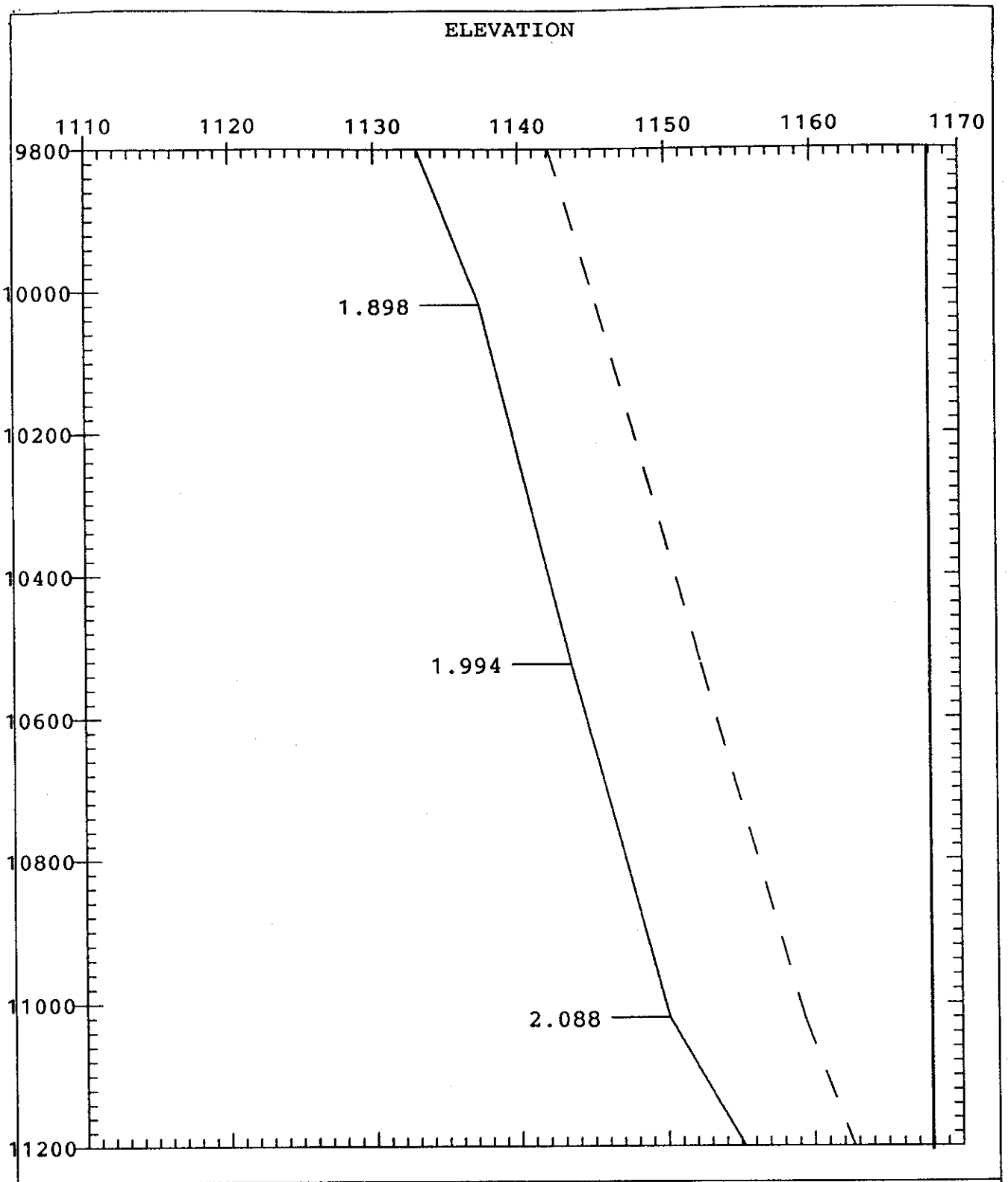
WASH 5 - TUTHILL DIKE WASH



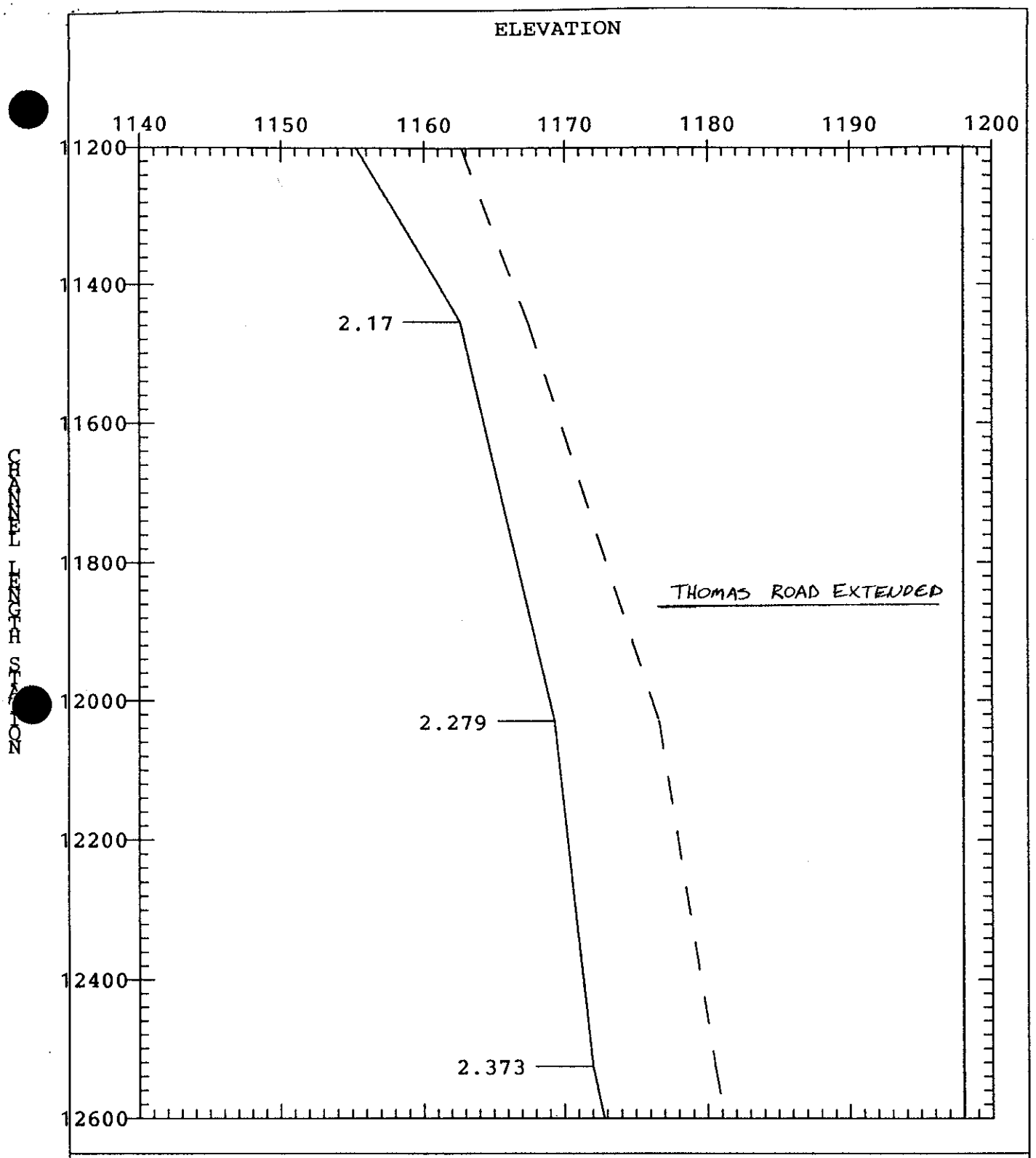
WASH 5 - TUTHILL DIKE WASH



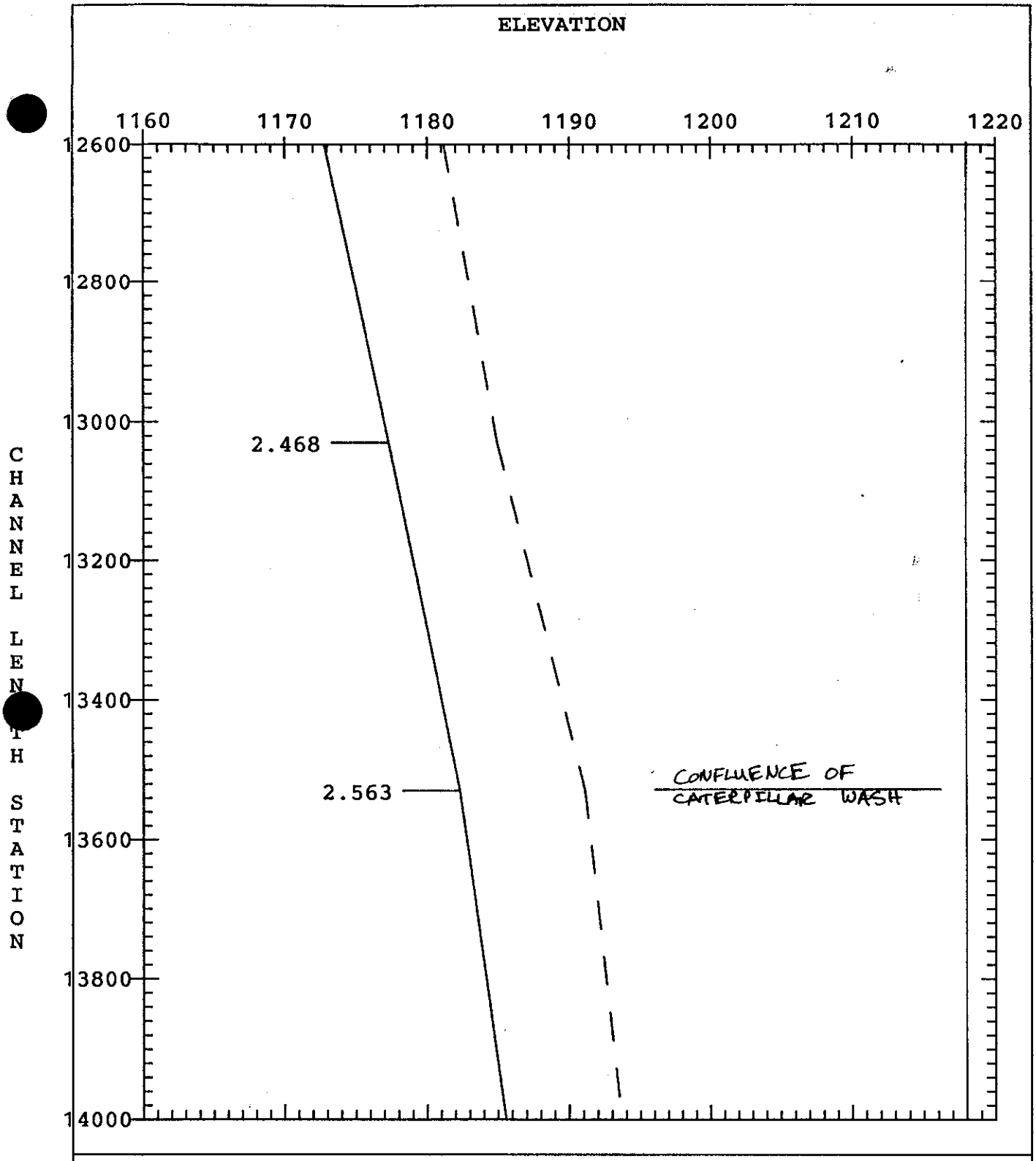
WASH 5 - TUTHILL DIKE WASH



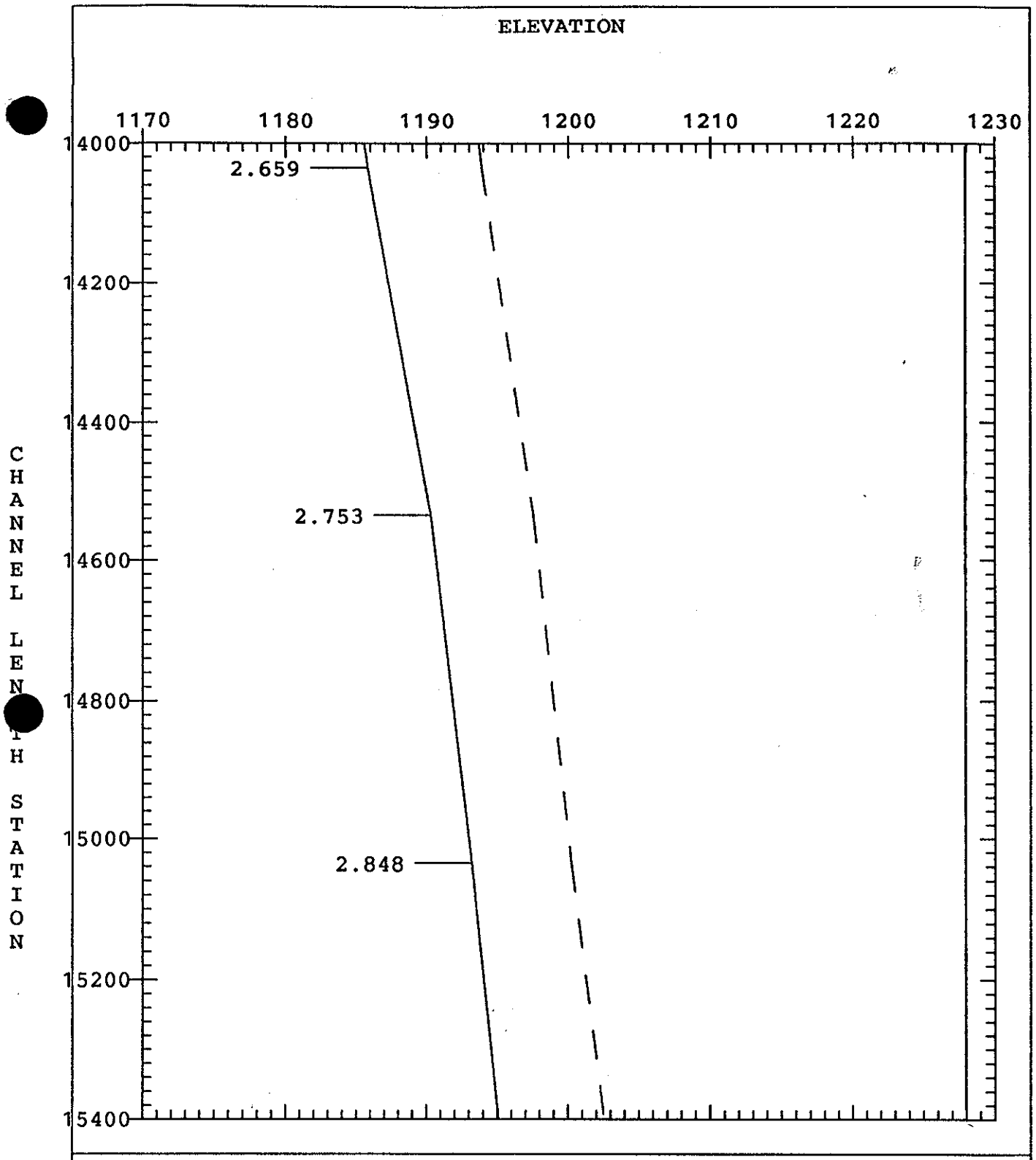
WASH 5 - TUTHILL DIKE WASH



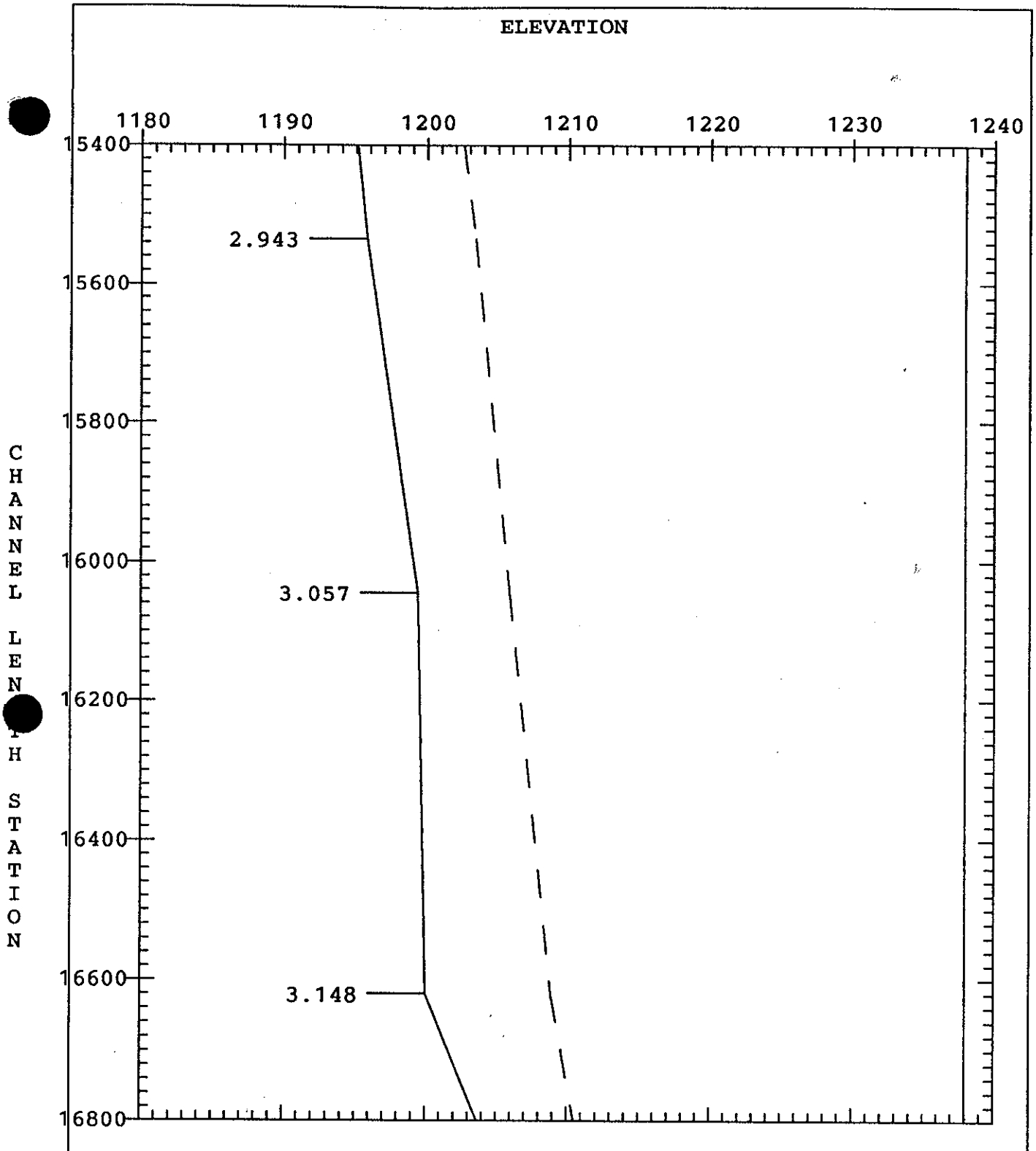
WASH 5 - TUTHILL DIKE WASH



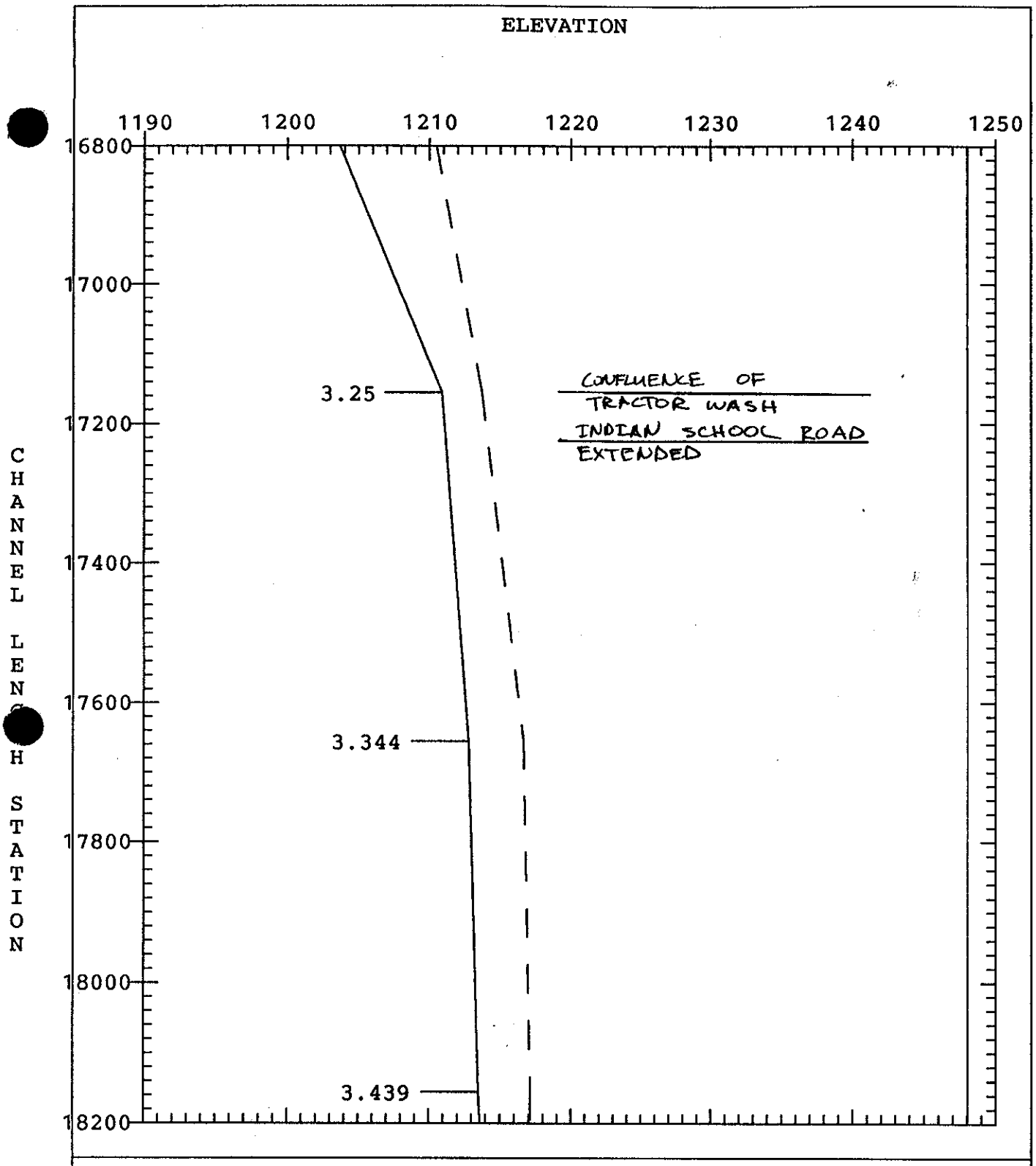
WASH 5 - TUTHILL DIKE WASH



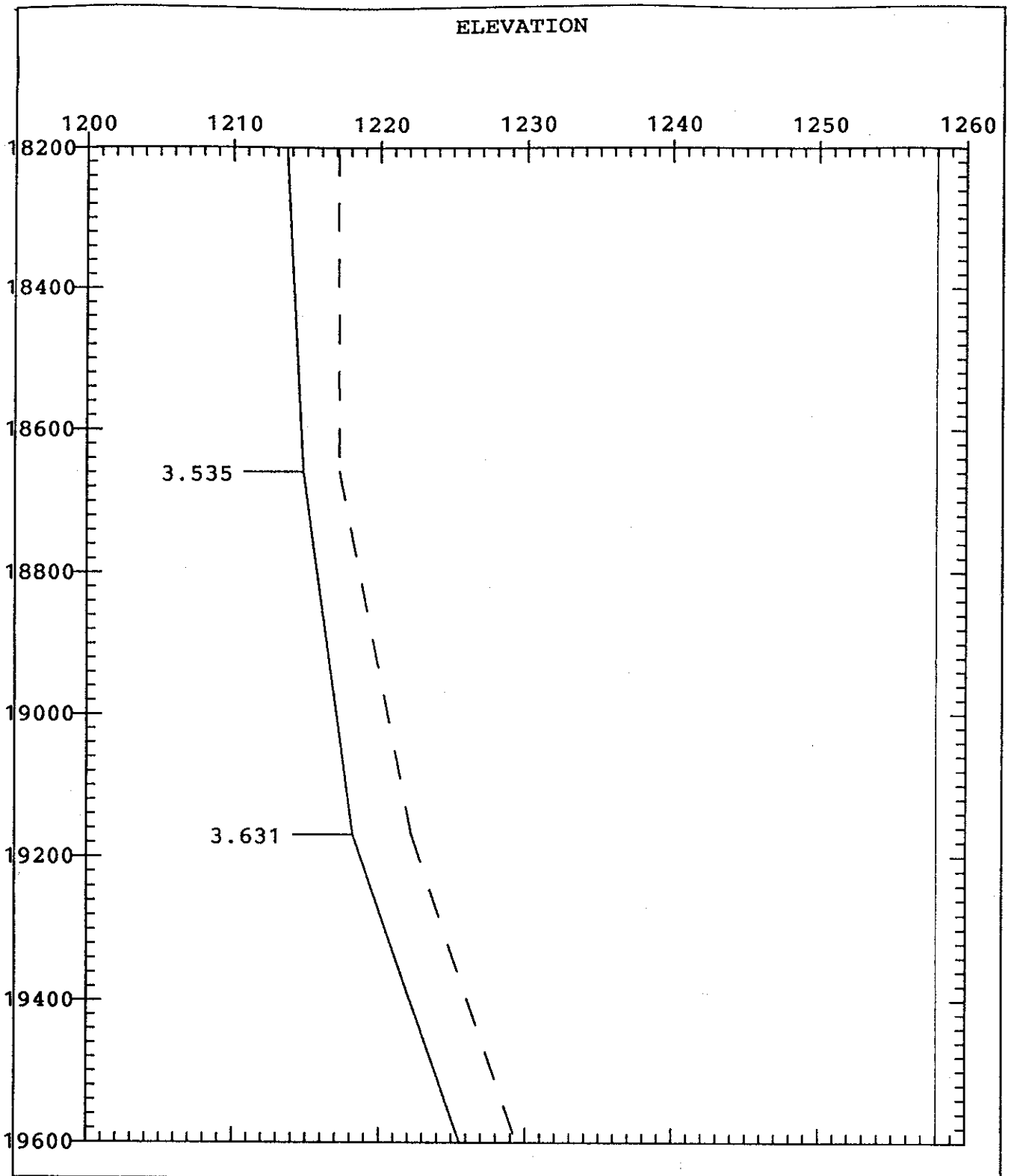
WASH 5 - TUTHILL DIKE WASH



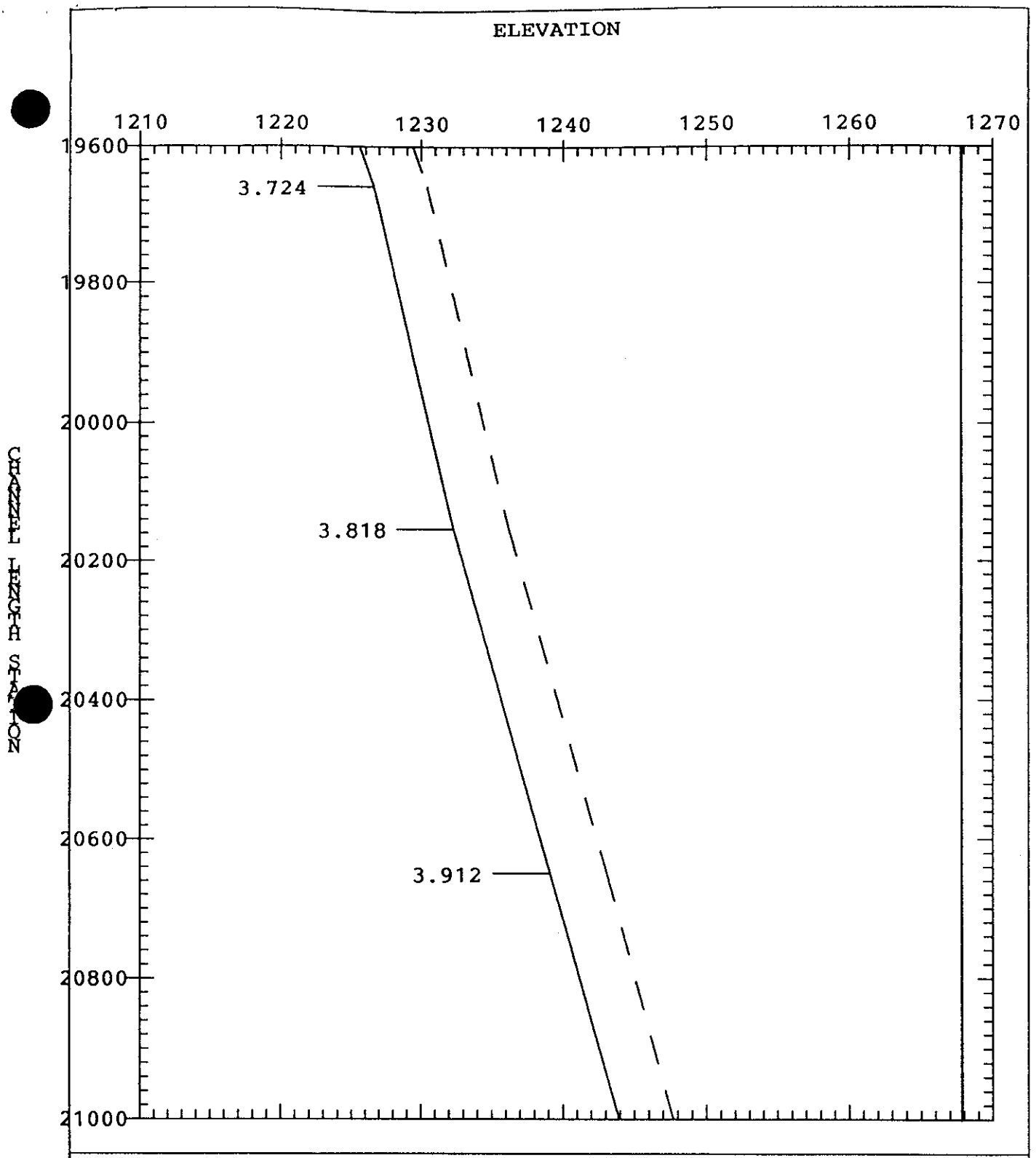
WASH 5 - TUTHILL DIKE WASH



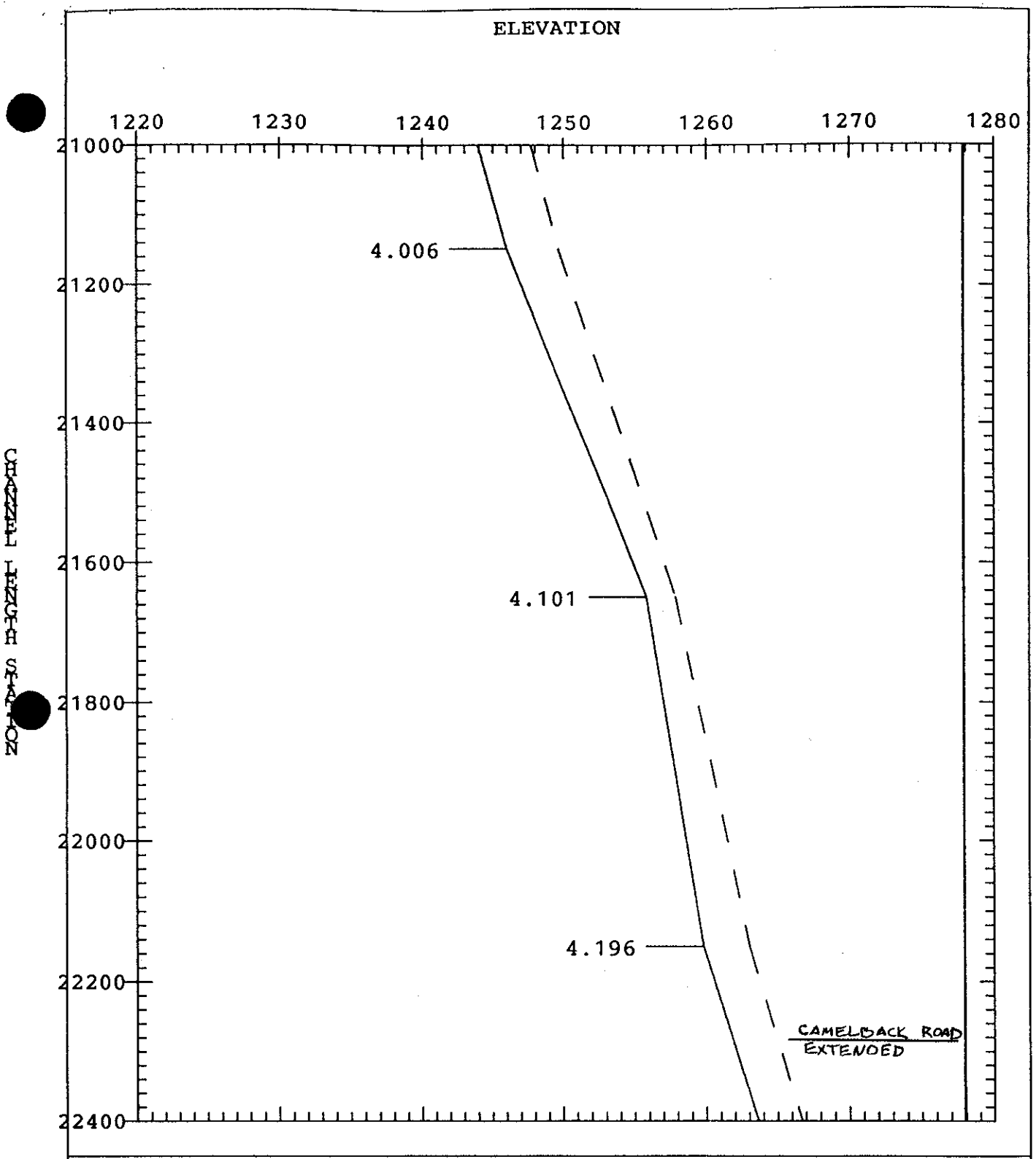
WASH 5 - TUTHILL DIKE WASH



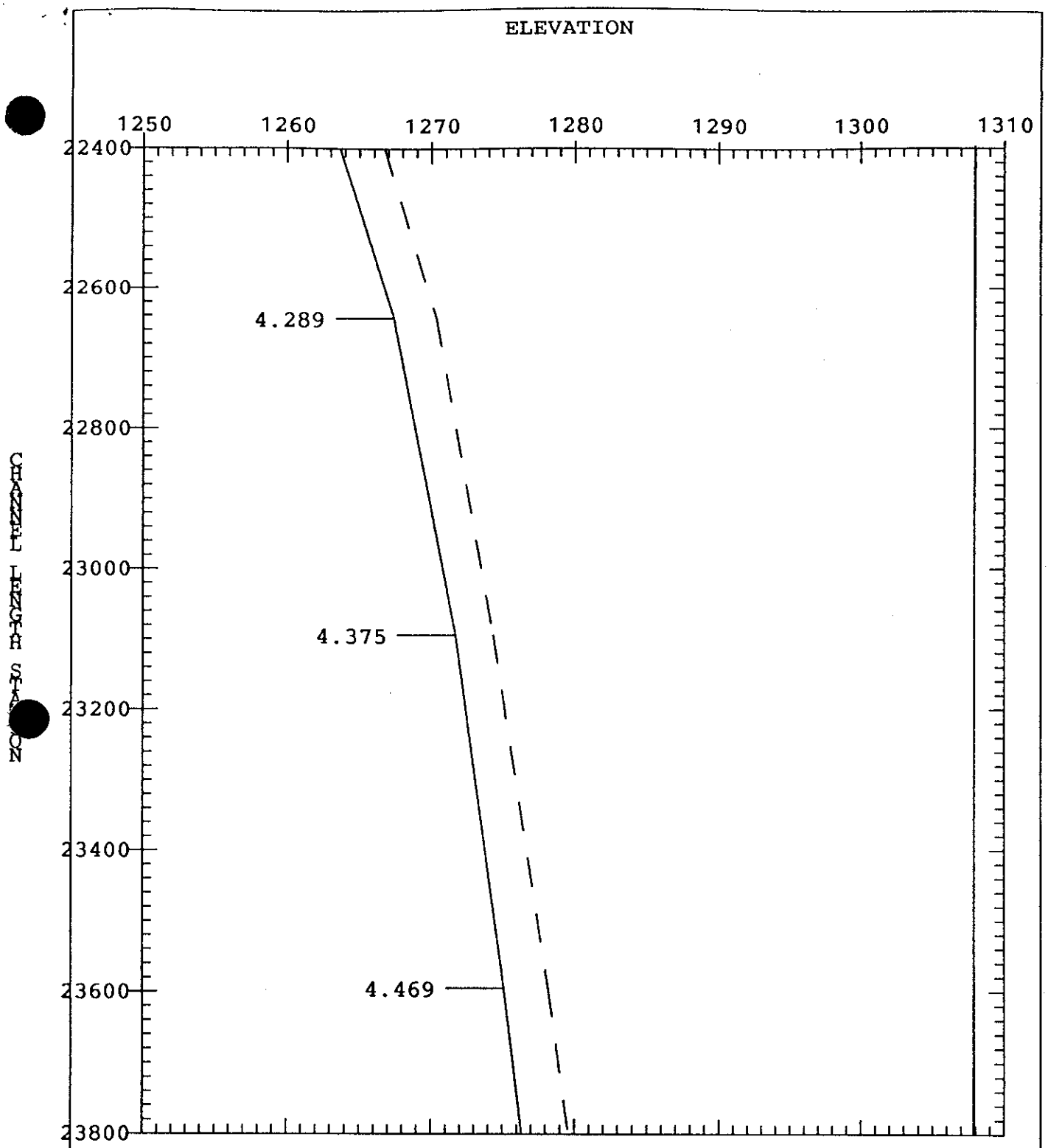
WASH 5 -TUTHILL DIKE WASH



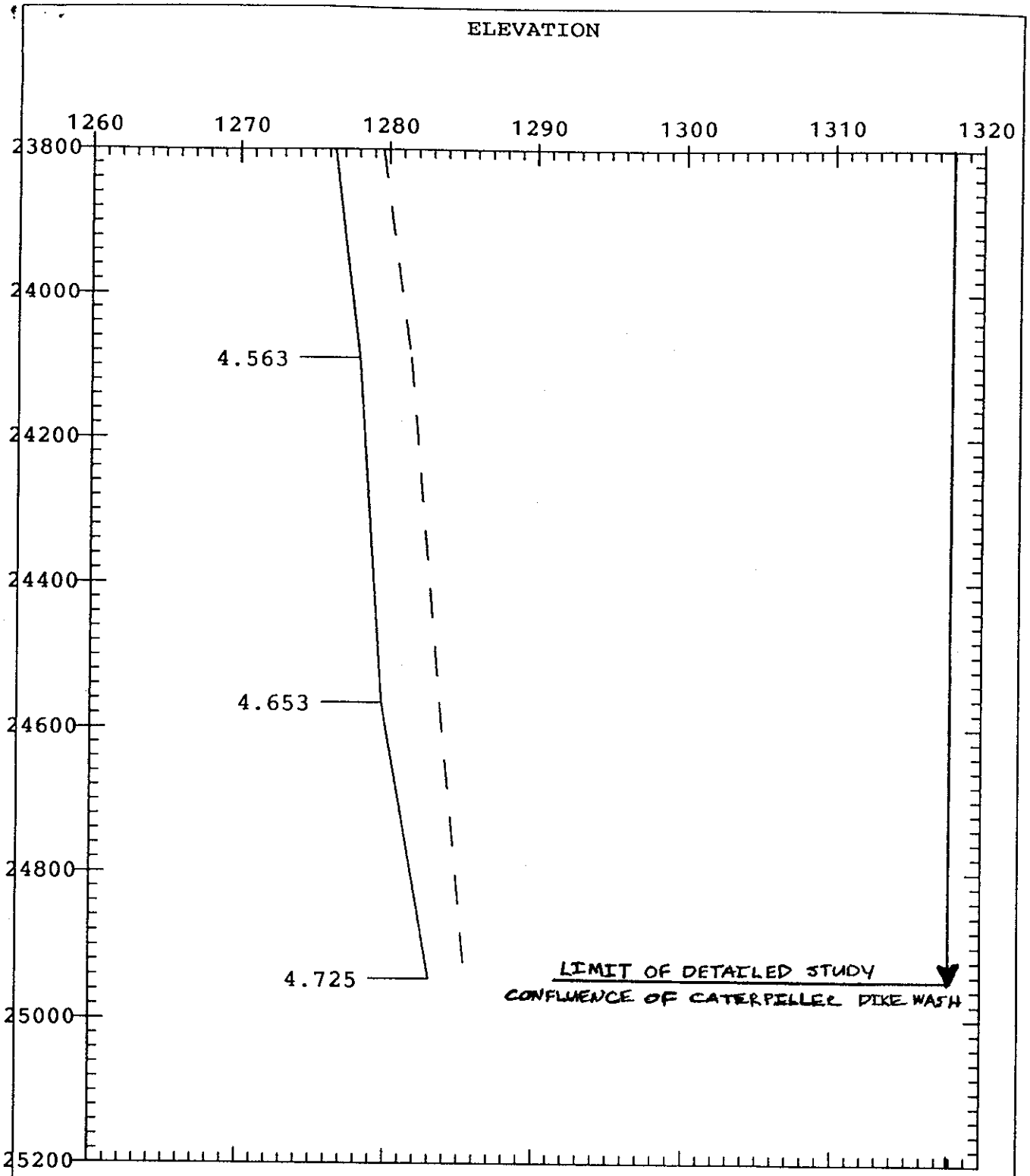
WASH 5 - TUTHILL DIKE WASH



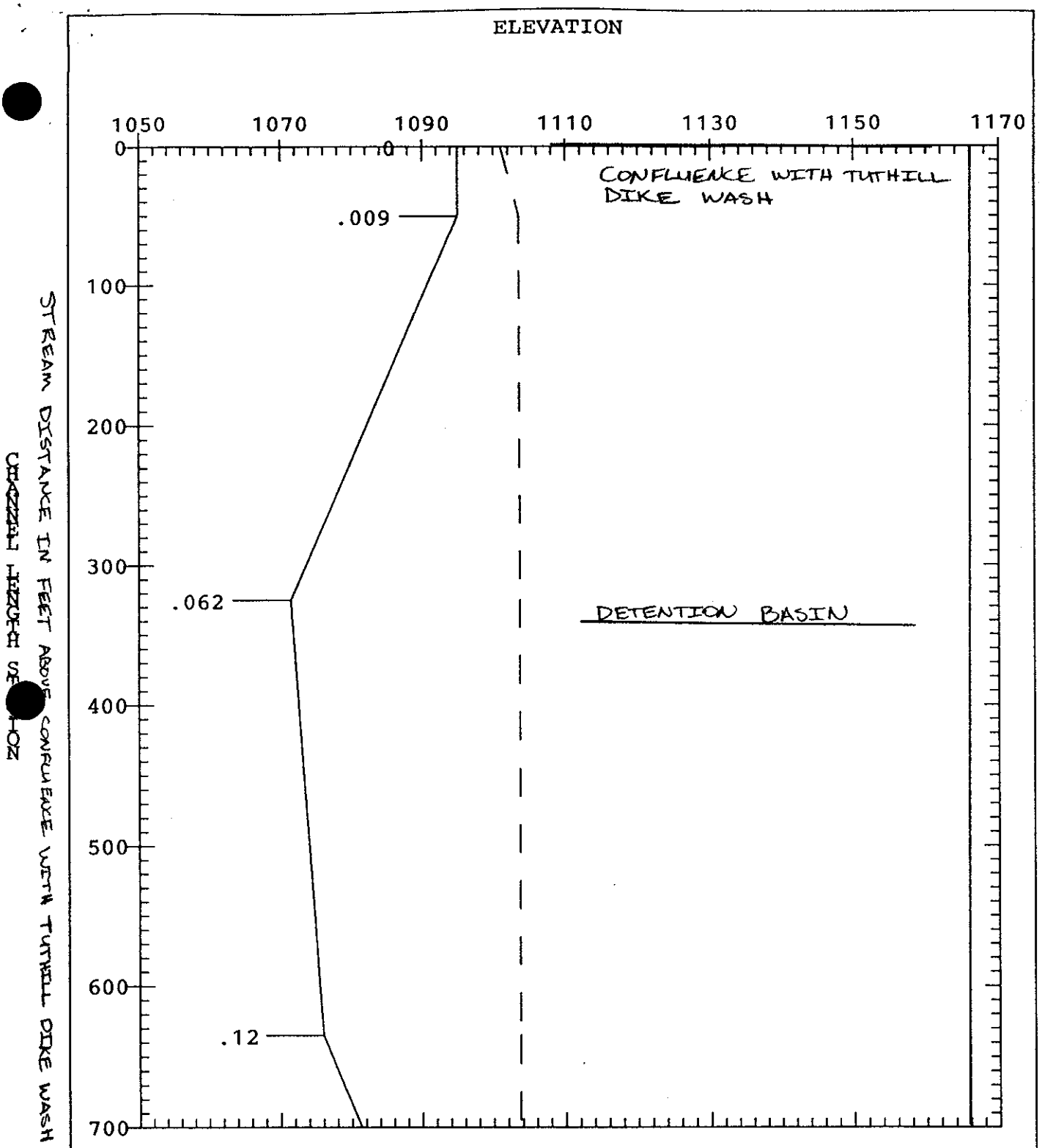
WASH 5 - TUTHILL DIKE WASH



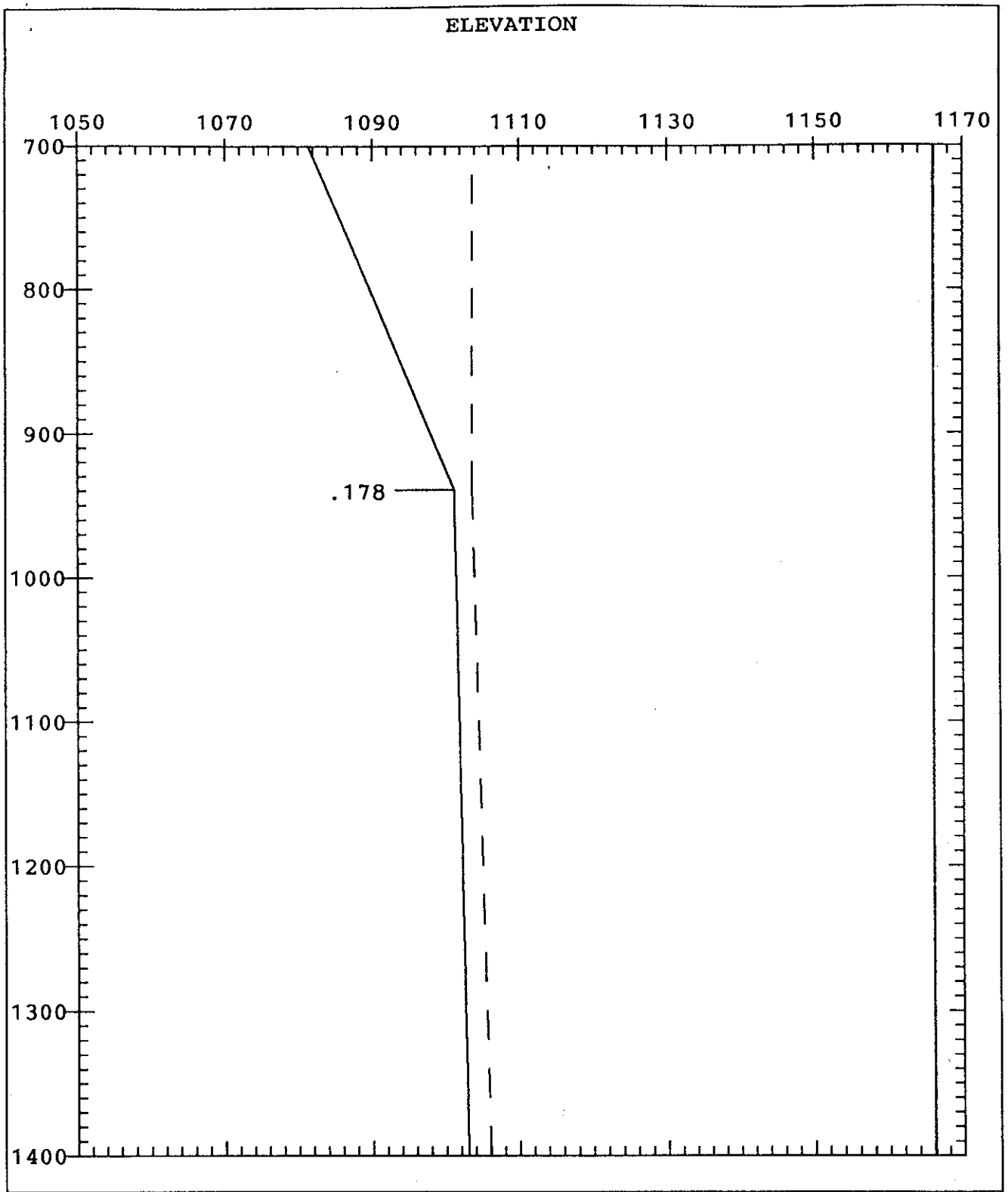
WASH 5 - TUTHILL DIKE WASH



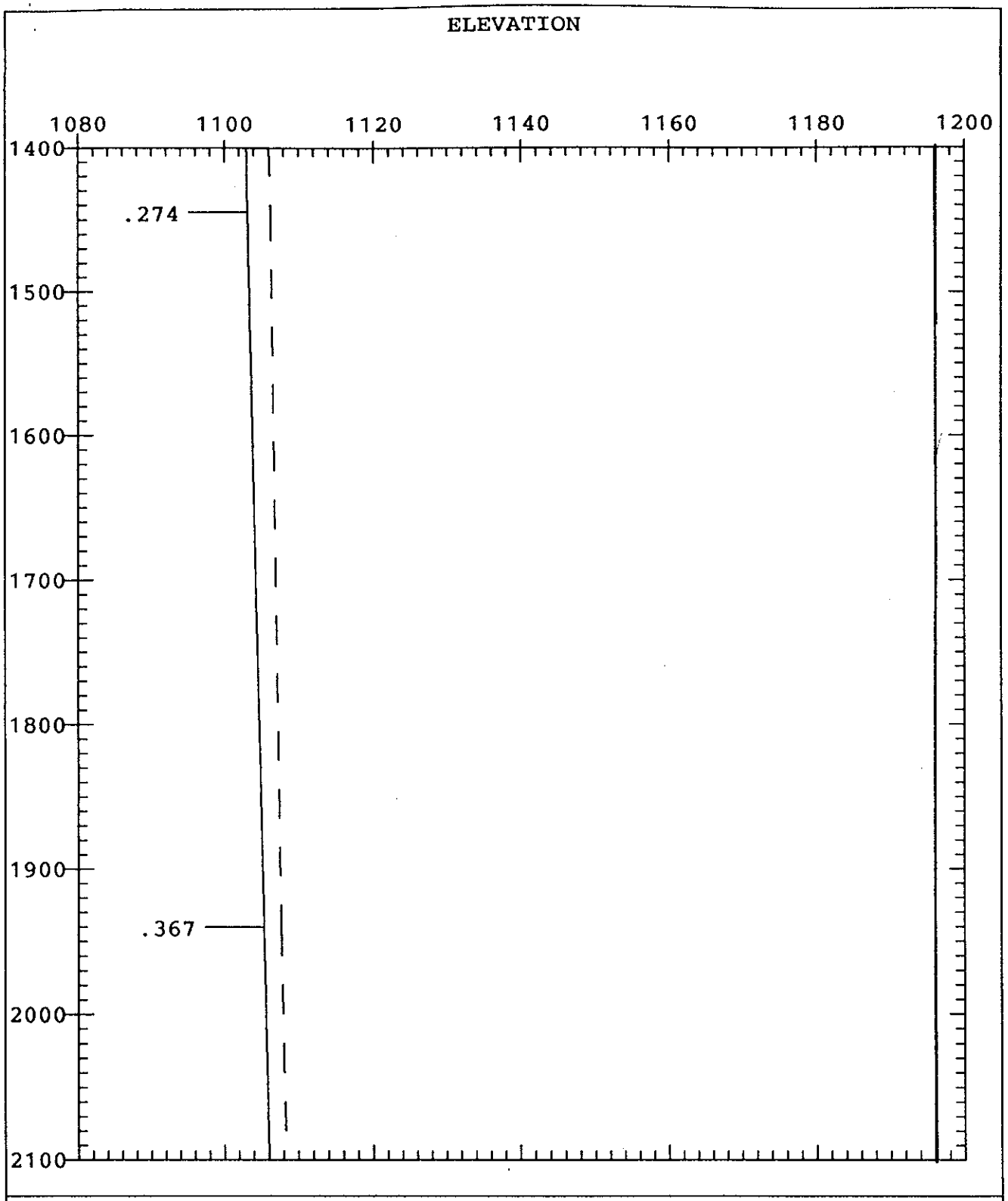
WASH 5 - TUTHILL DIKE WASH



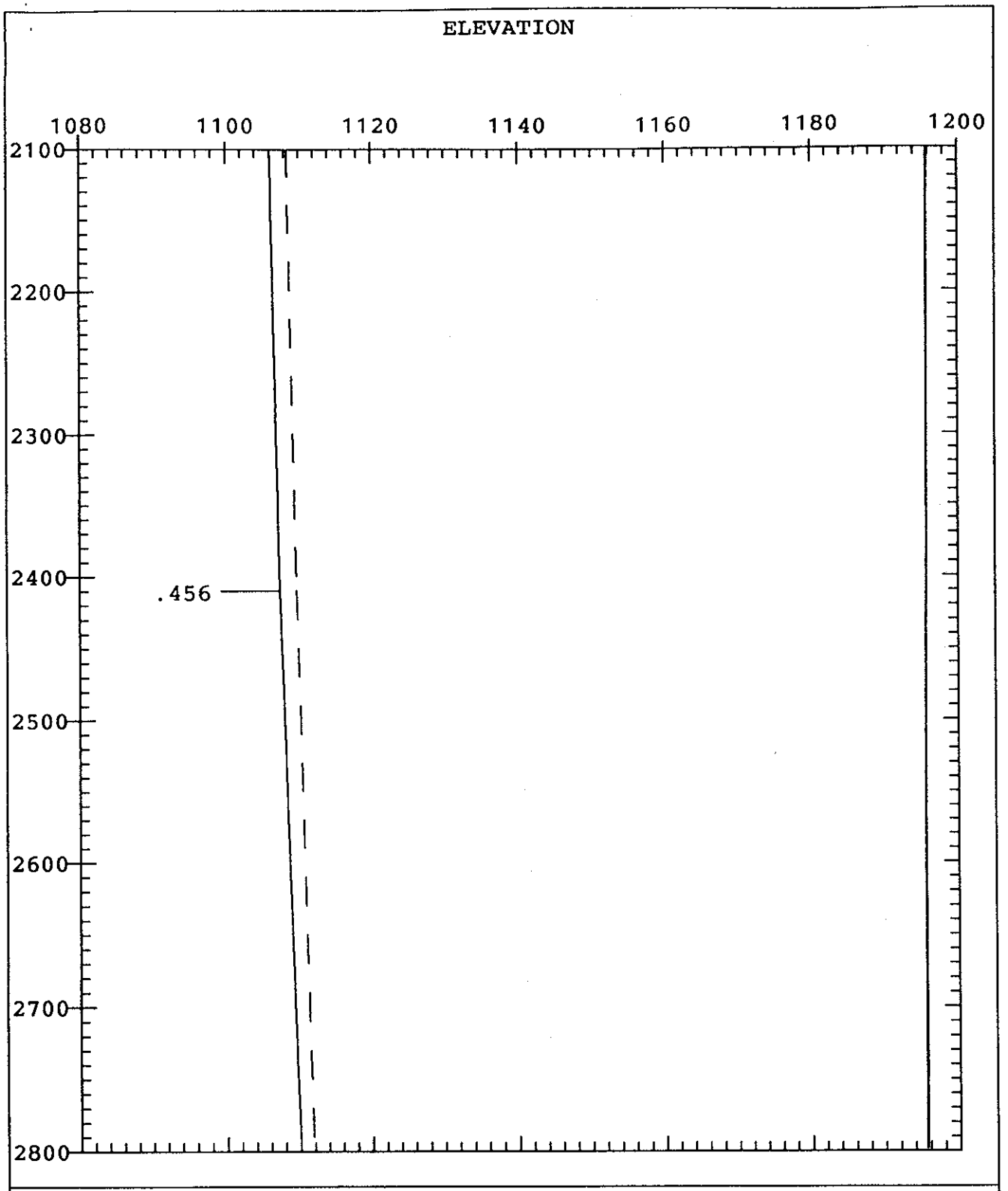
WASH 5A - BULLDOZER WASH



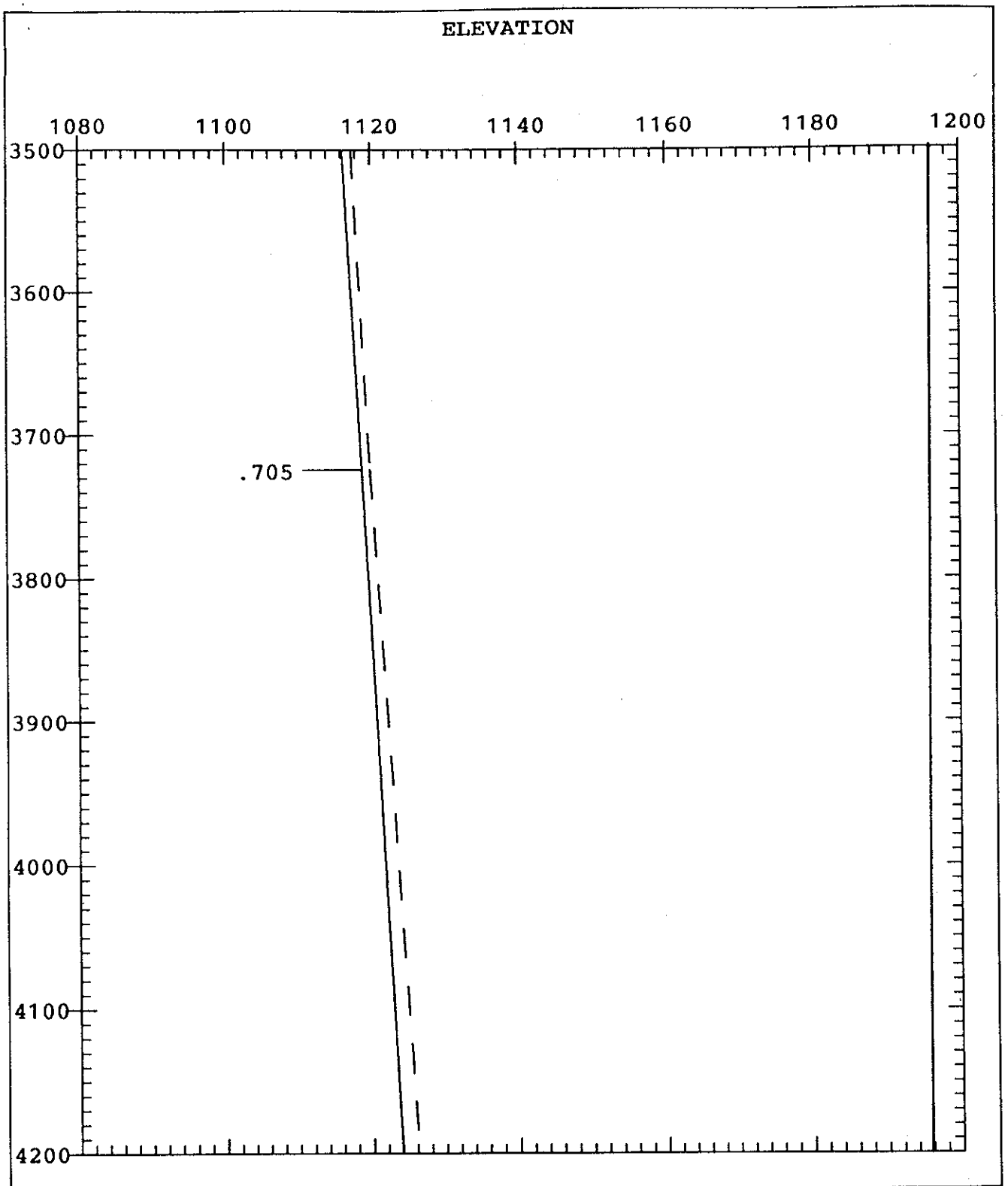
WASH 5A - BULLDOZER WASH



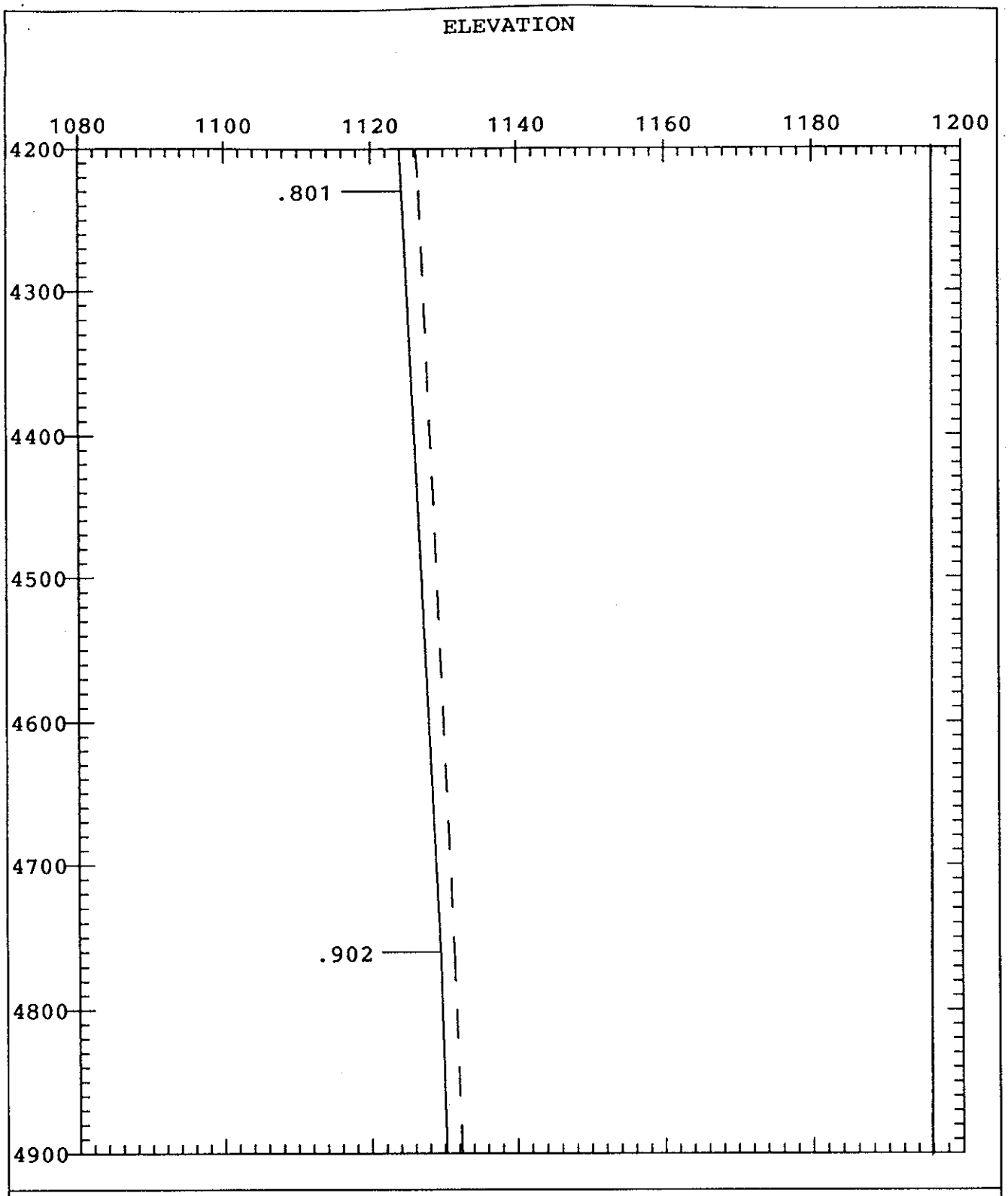
WASH 5A - BULLDOZER WASH



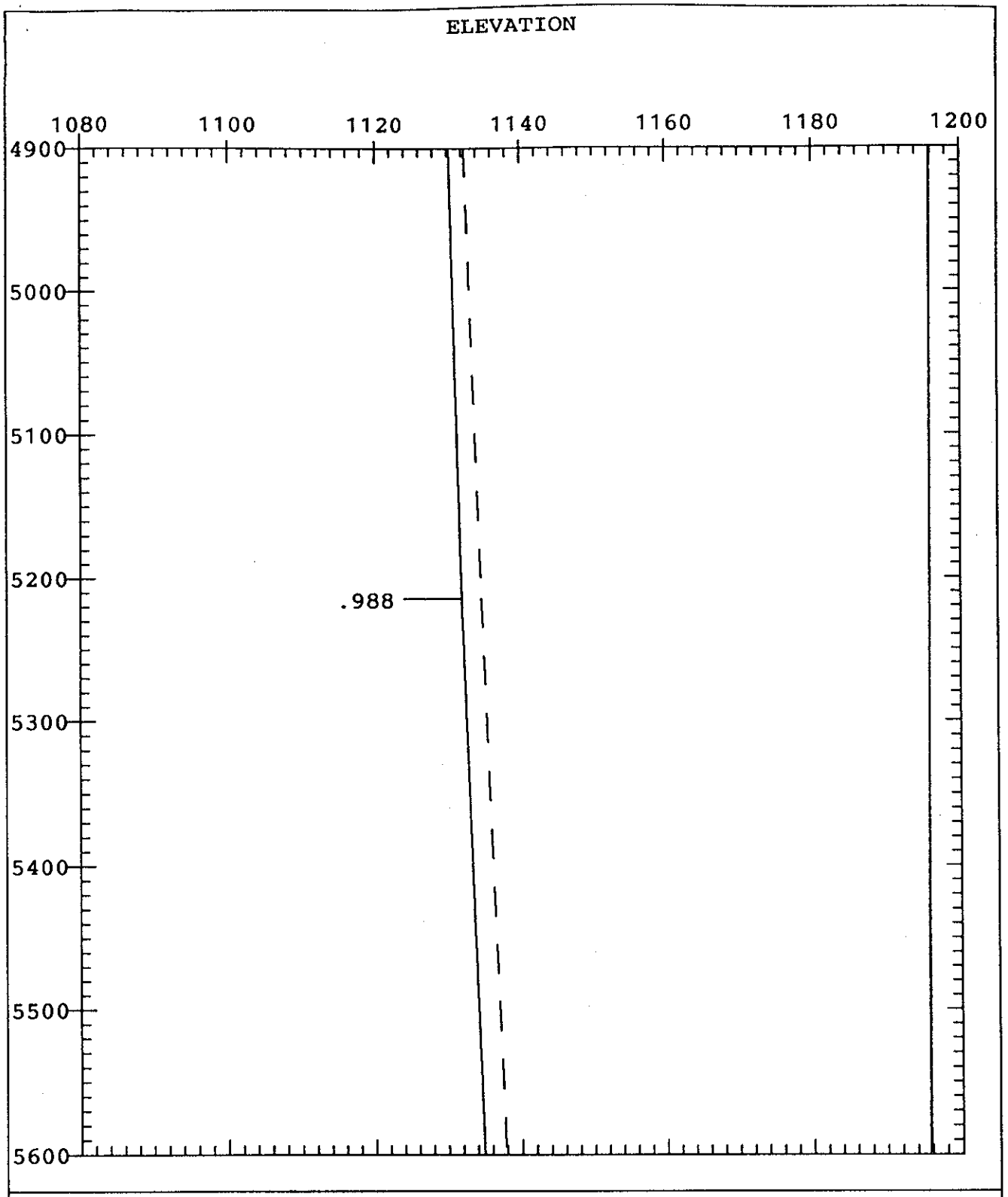
WASH 5A - BULLDOZER WASH



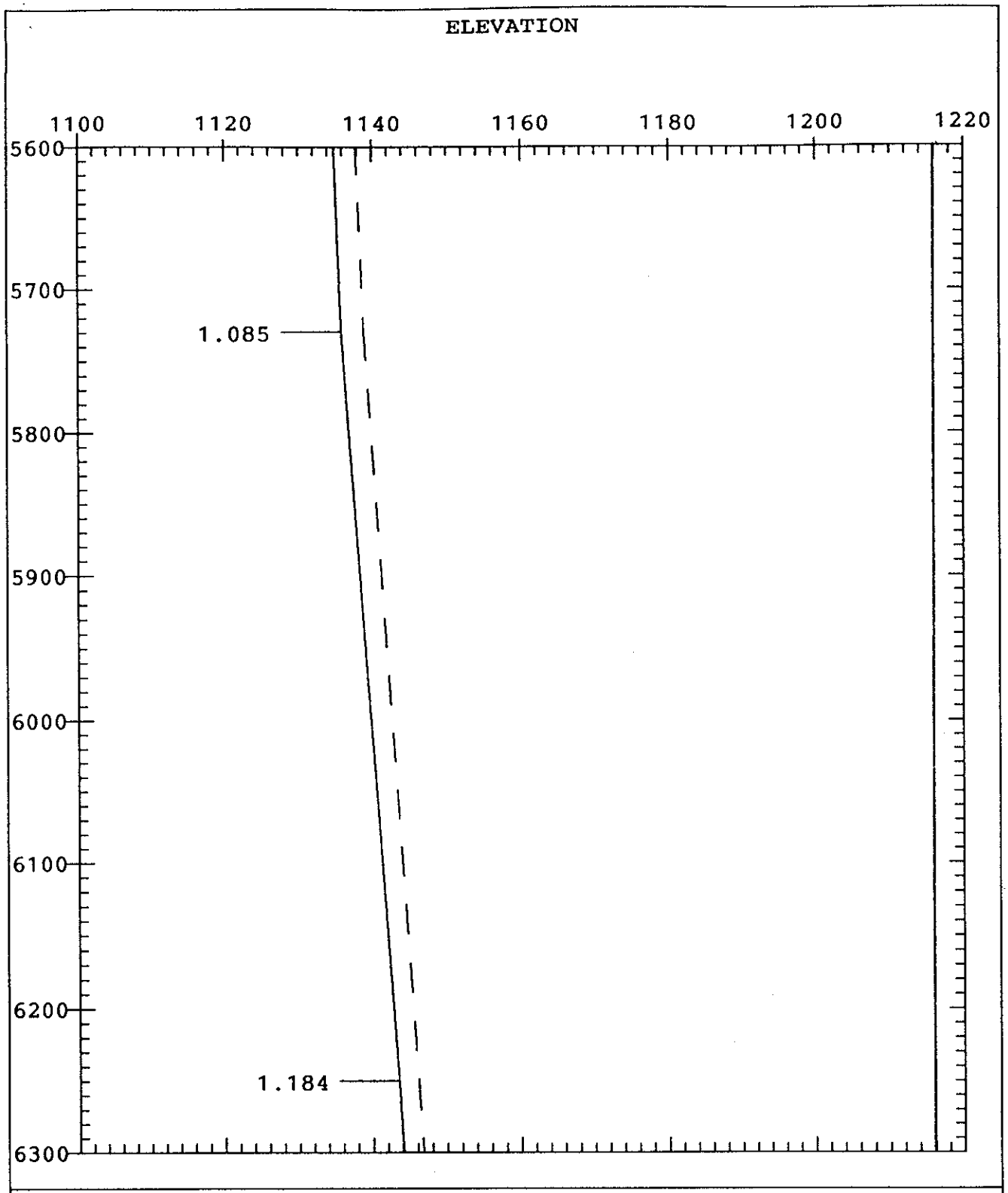
WASH 5A - BULLDOZER WASH



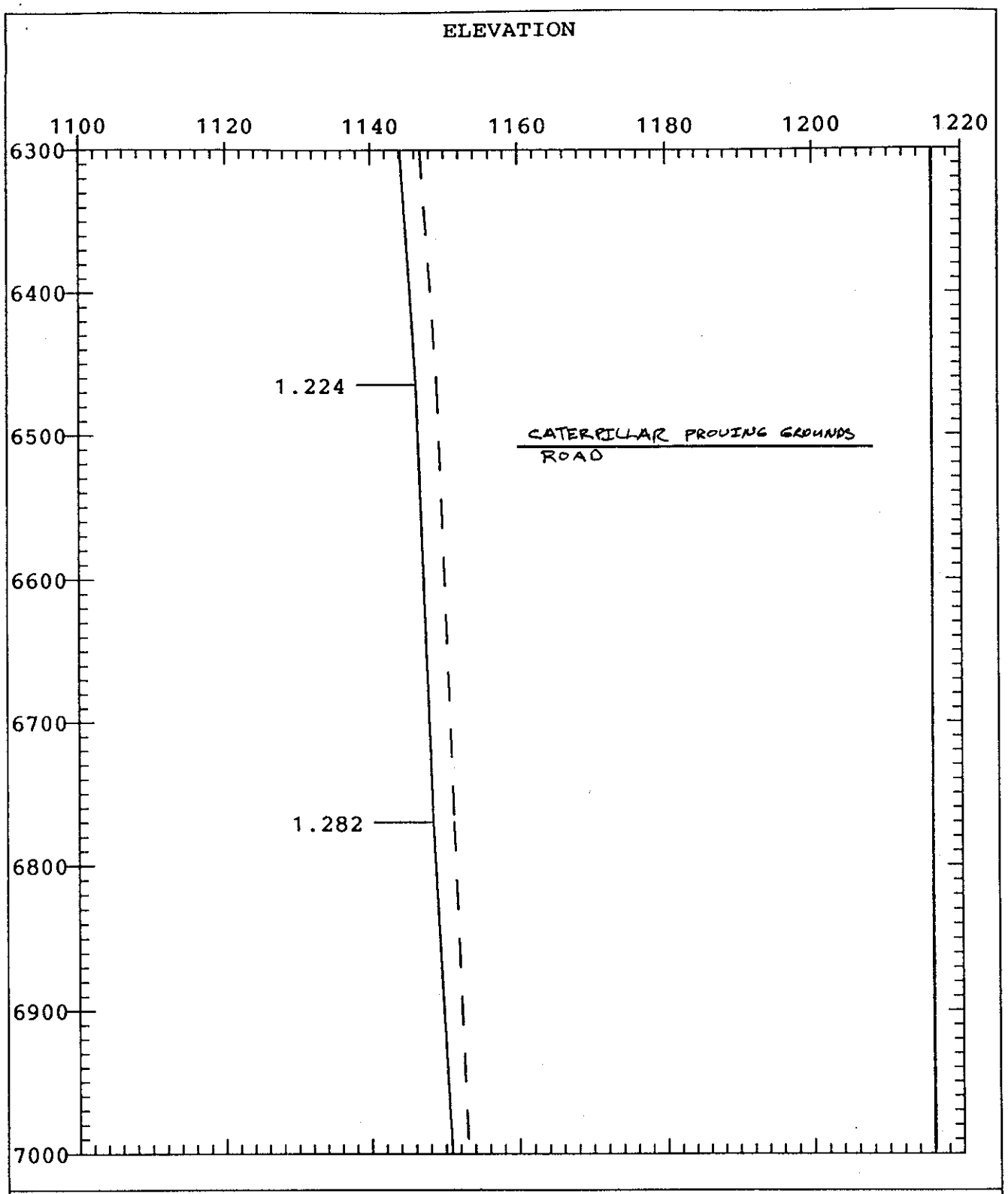
WASH 5A - BULLDOZER WASH



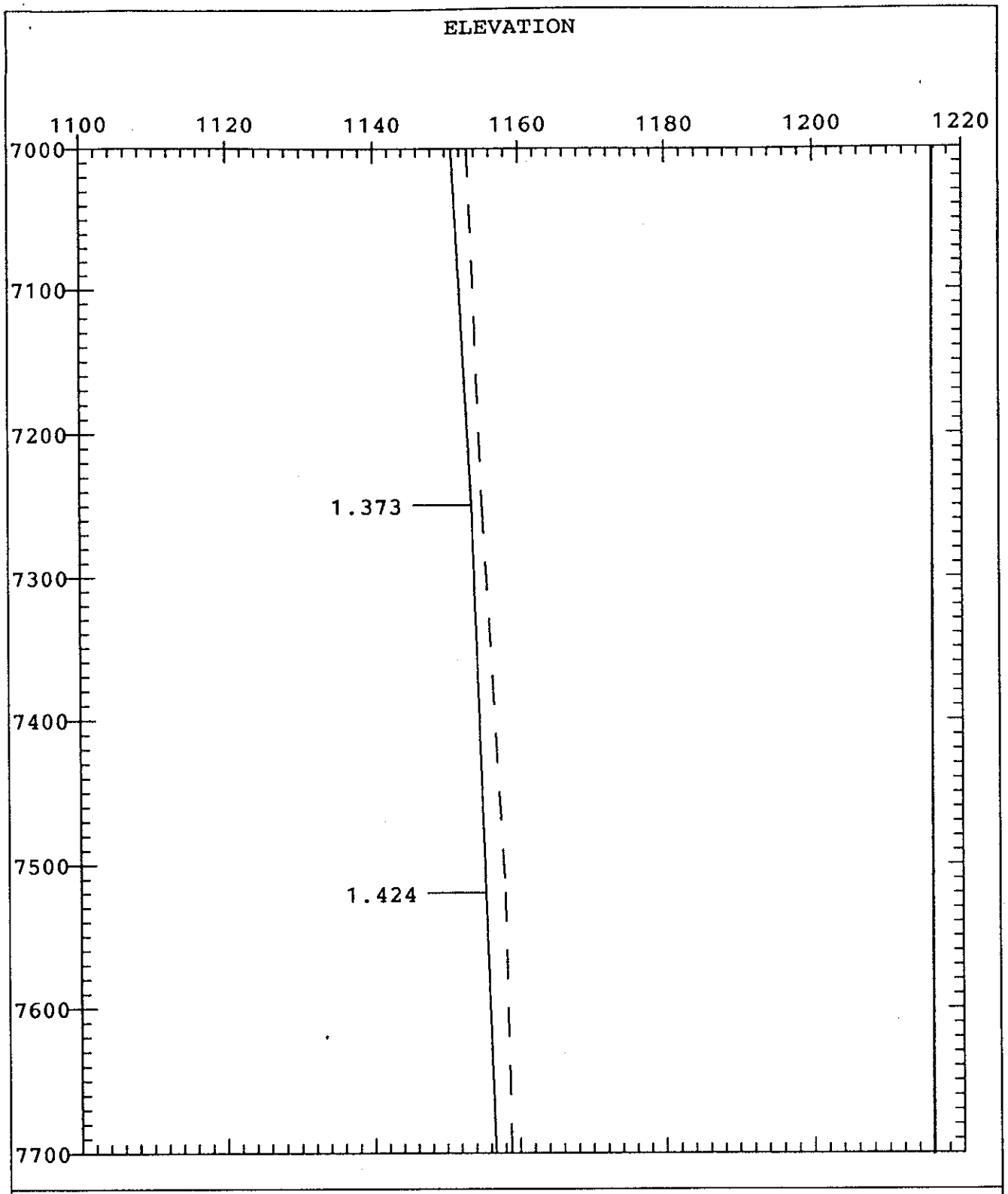
WASH 5A - BULLDOZER WASH



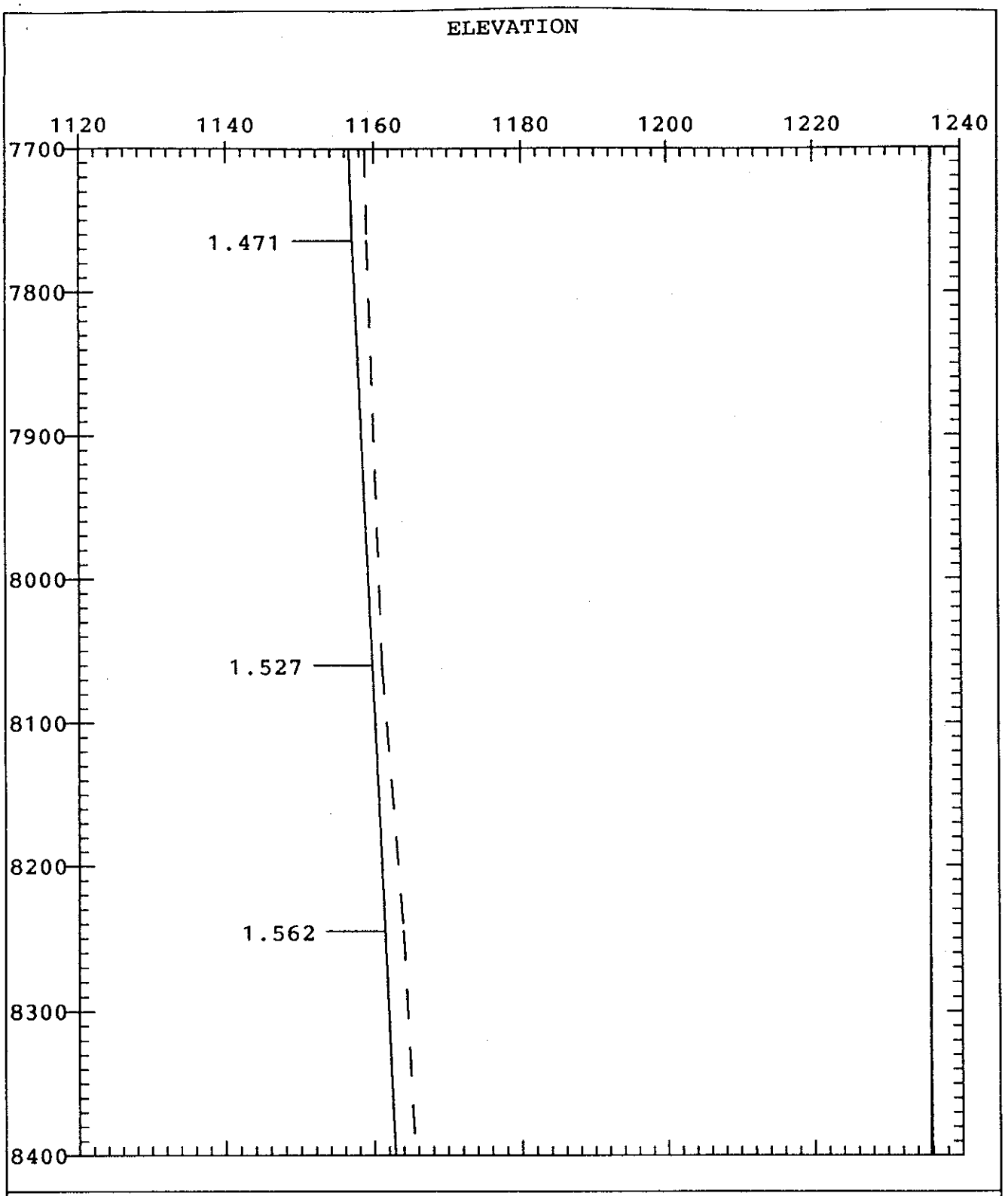
WASH 5A - BULLDOZER WASH



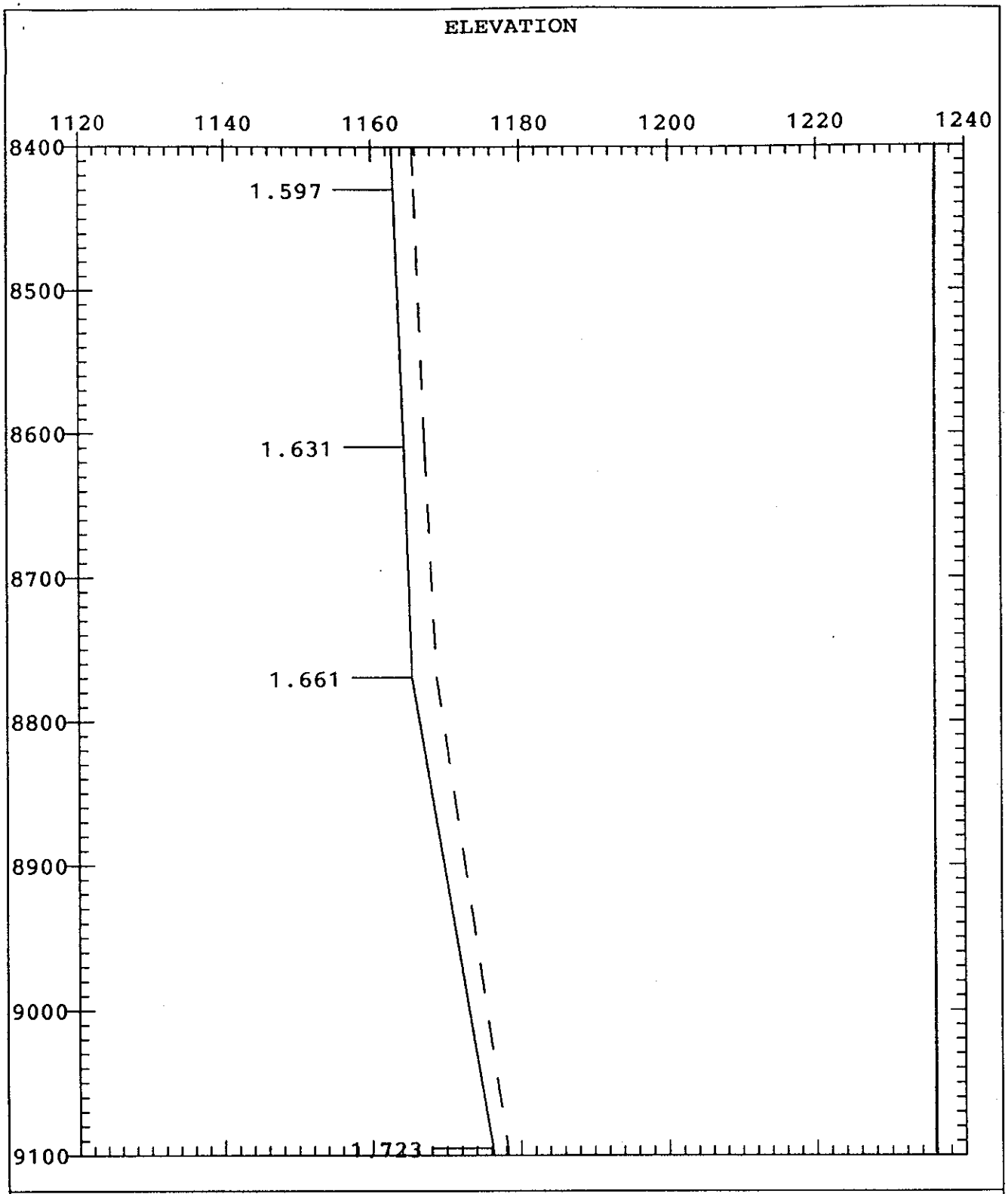
WASH 5A - BULLDOZER WASH



WASH 5A - BULLDOZER WASH

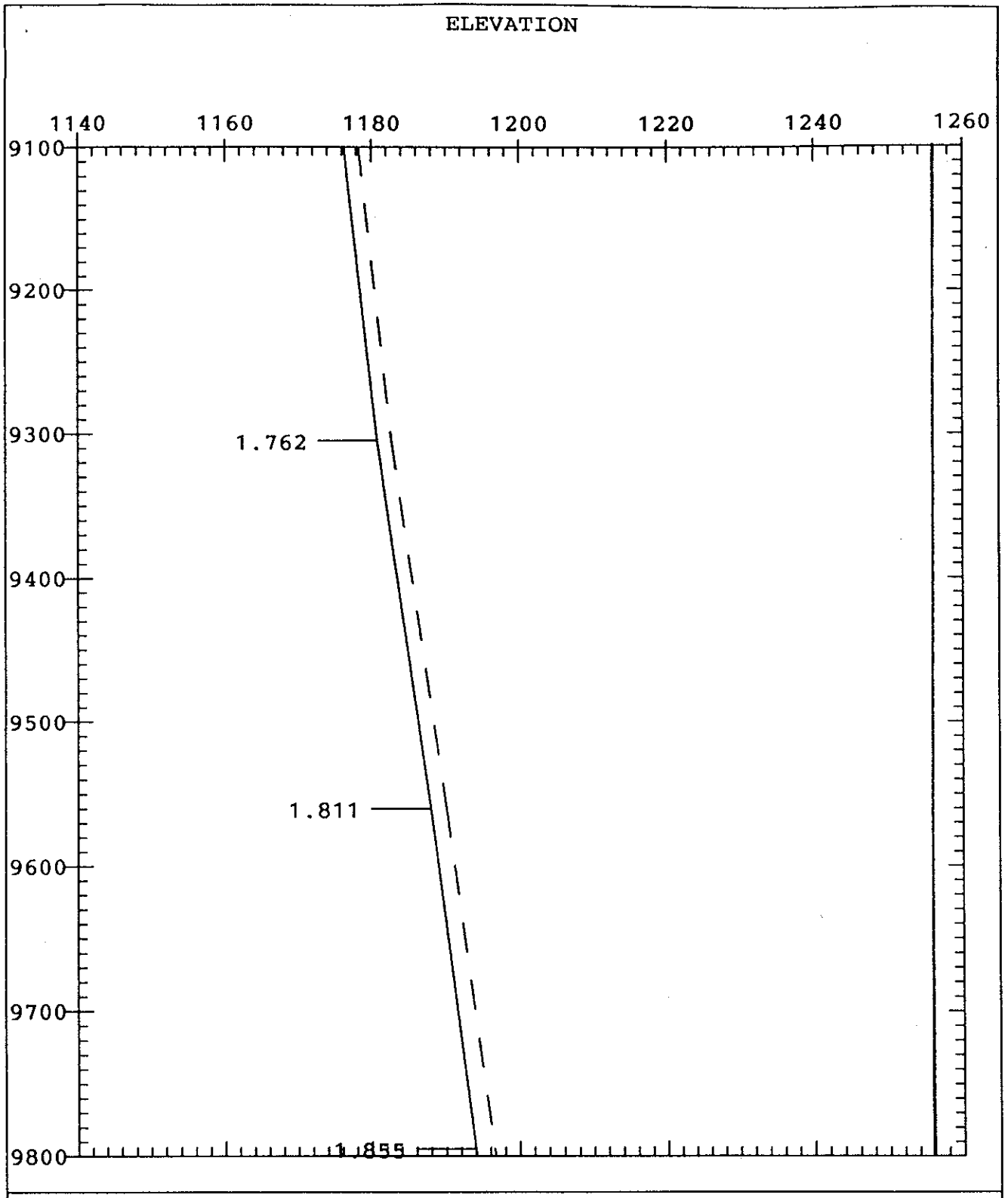


WASH 5A - BULLDOZER WASH

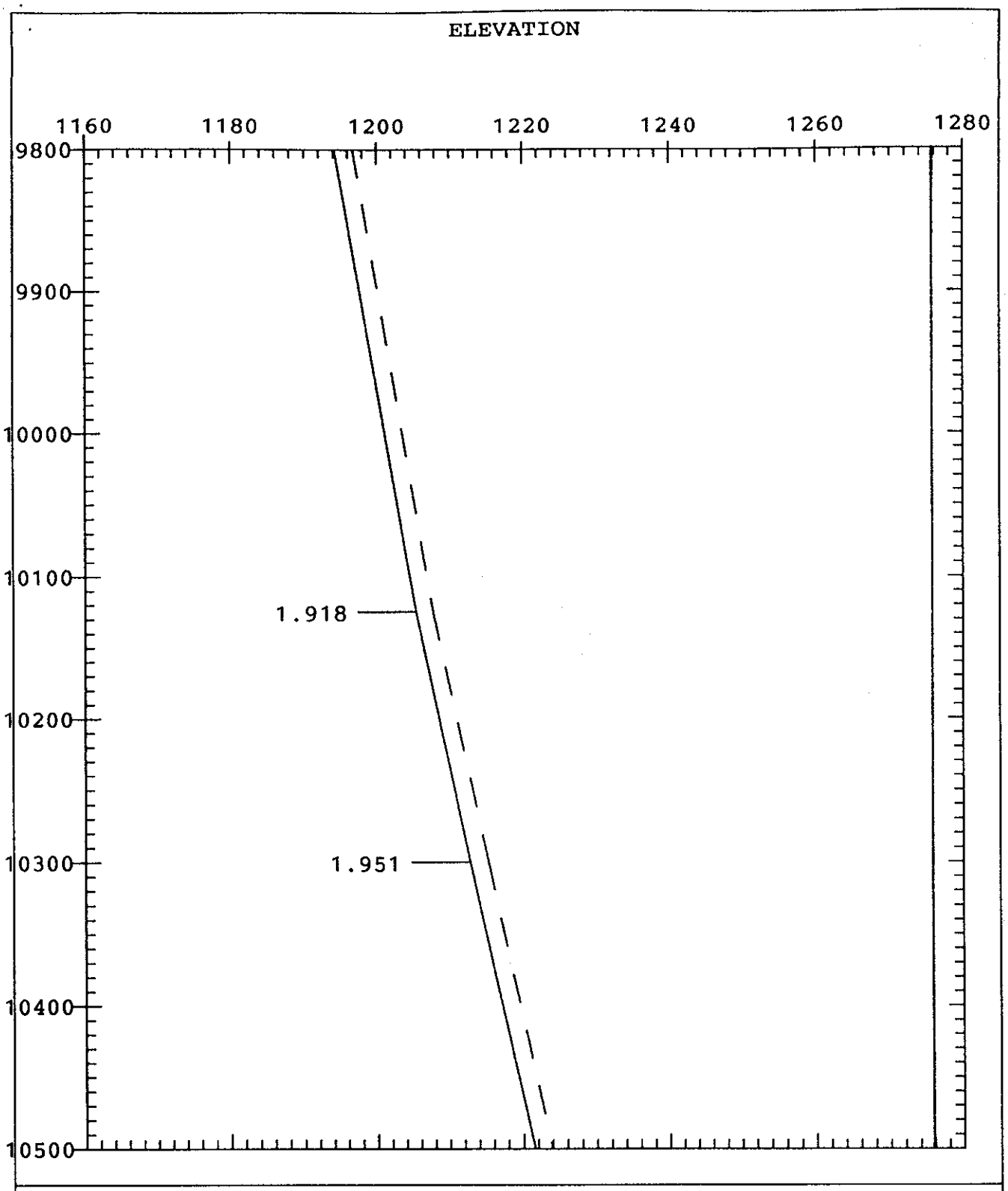


WASH 5A - BULLDOZER WASH

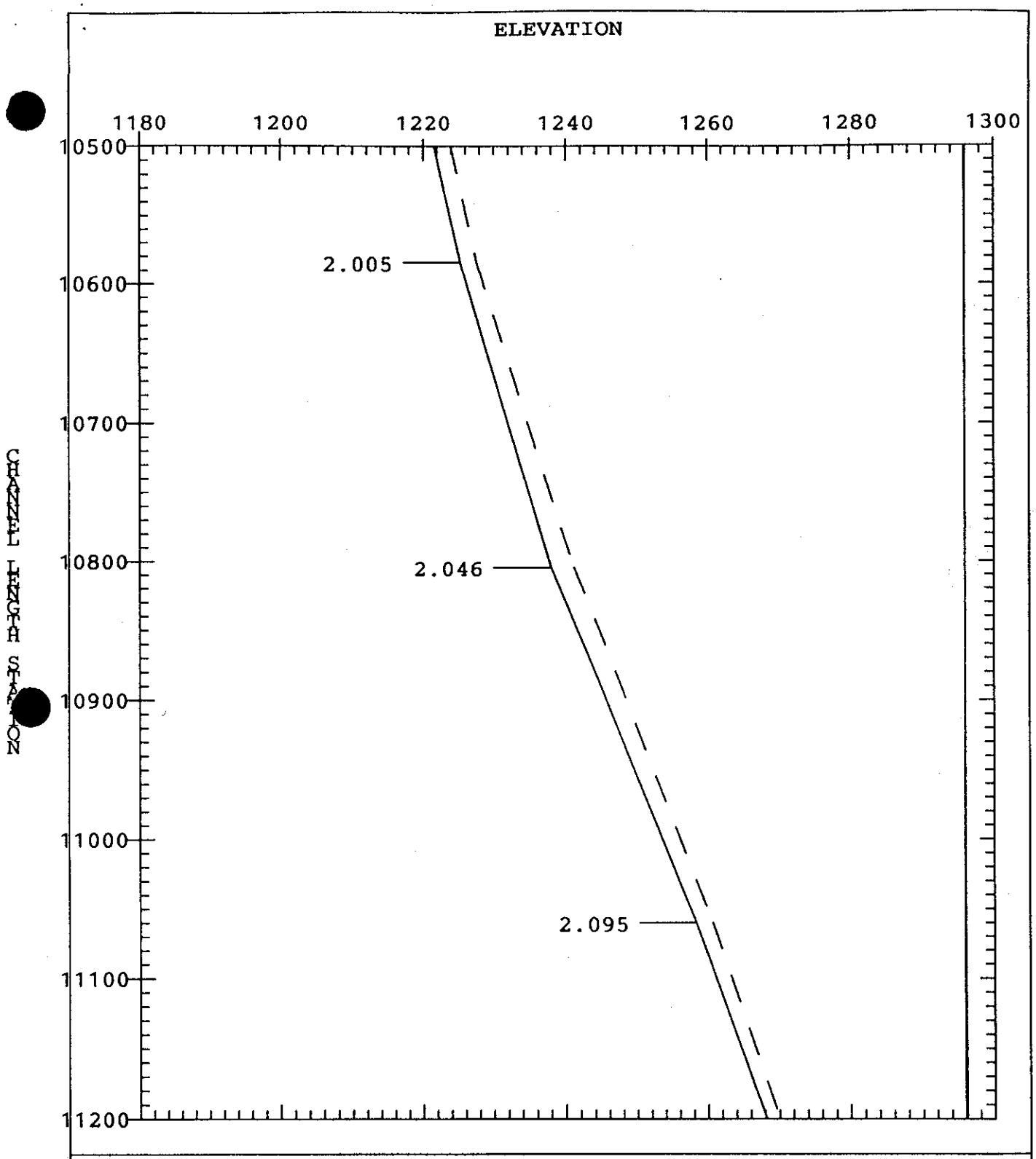
CHANNEL LENGTH STATION



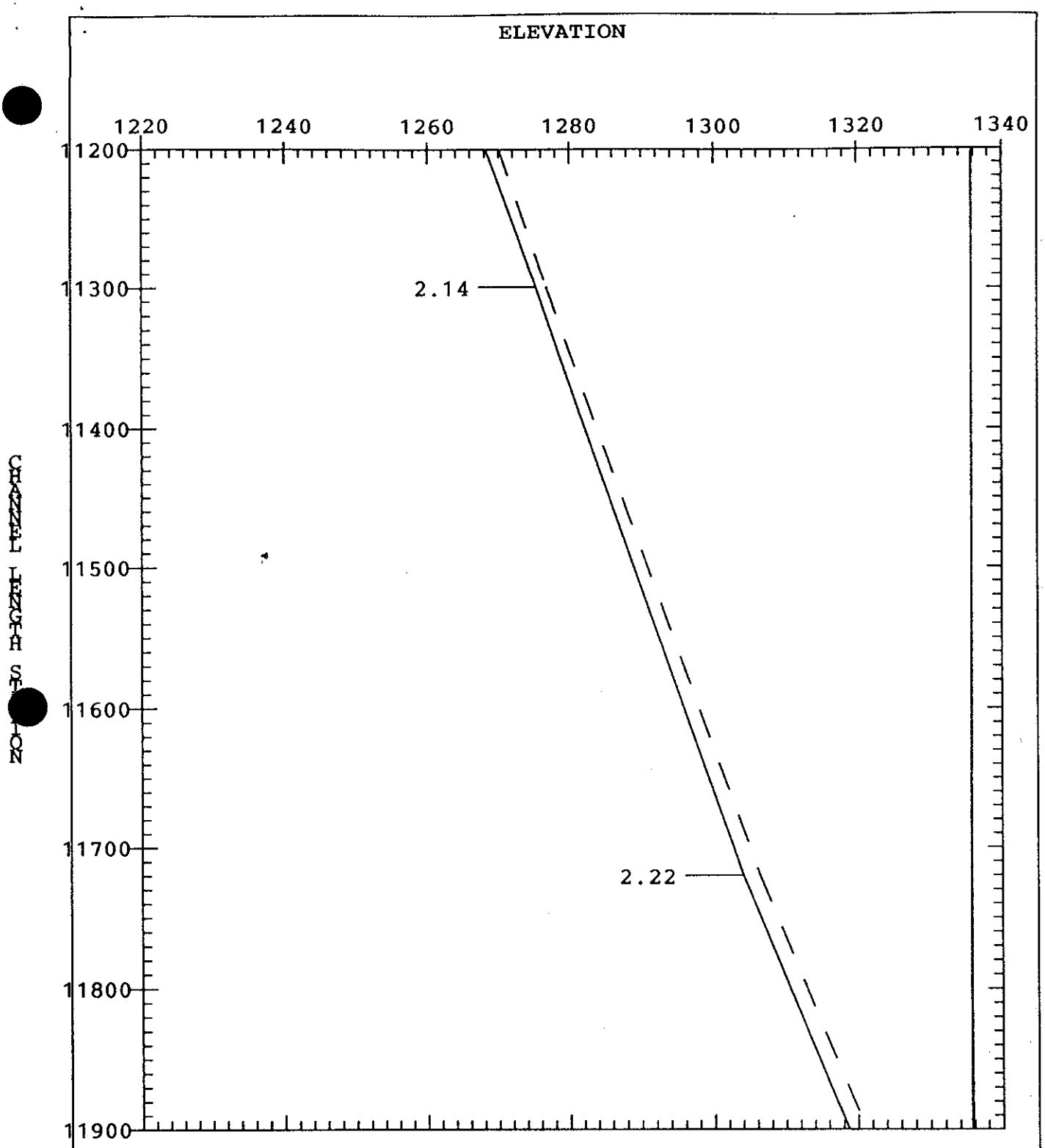
WASH 5A - BULLDOZER WASH



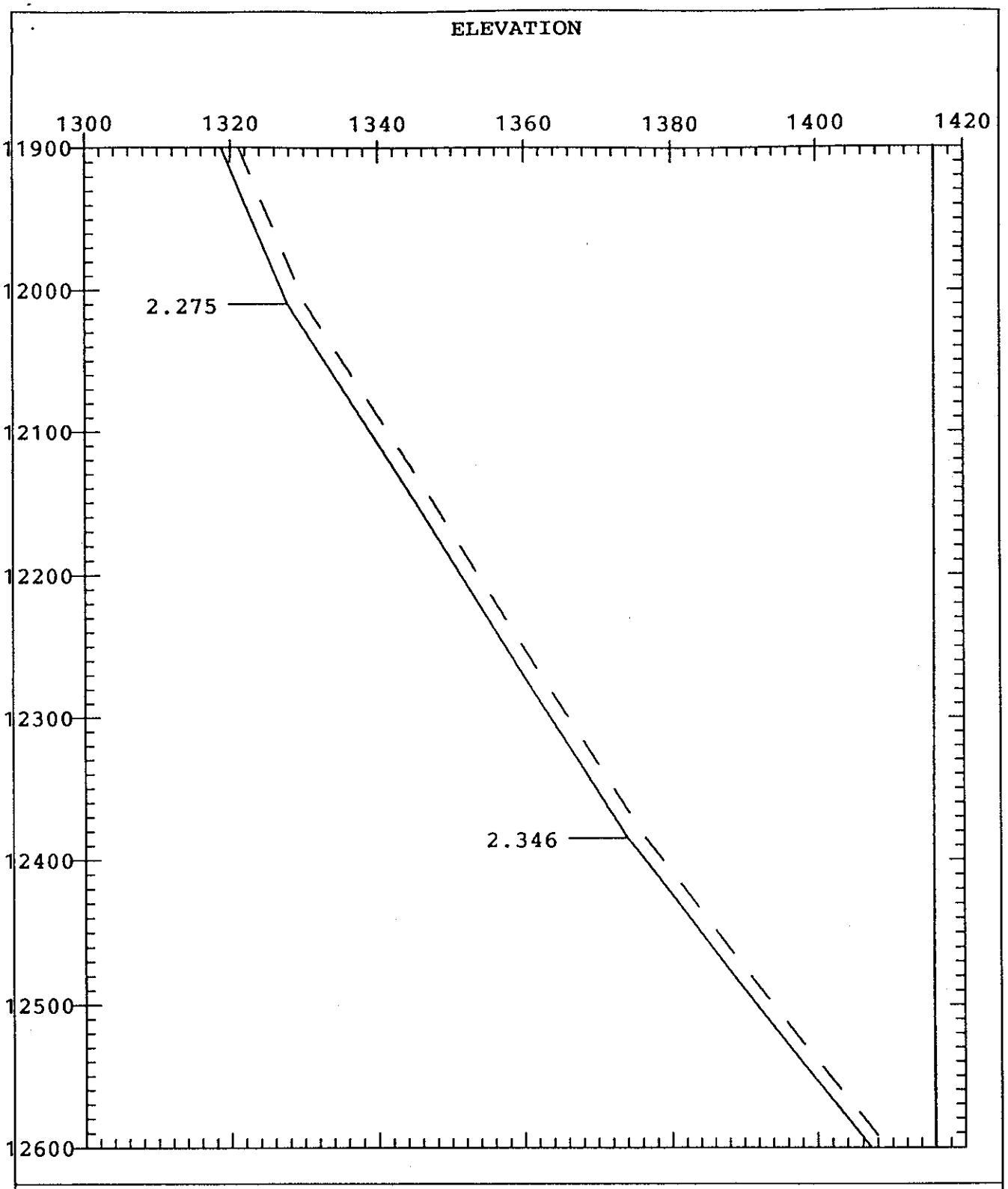
WASH 5A - BULLDOZER WASH



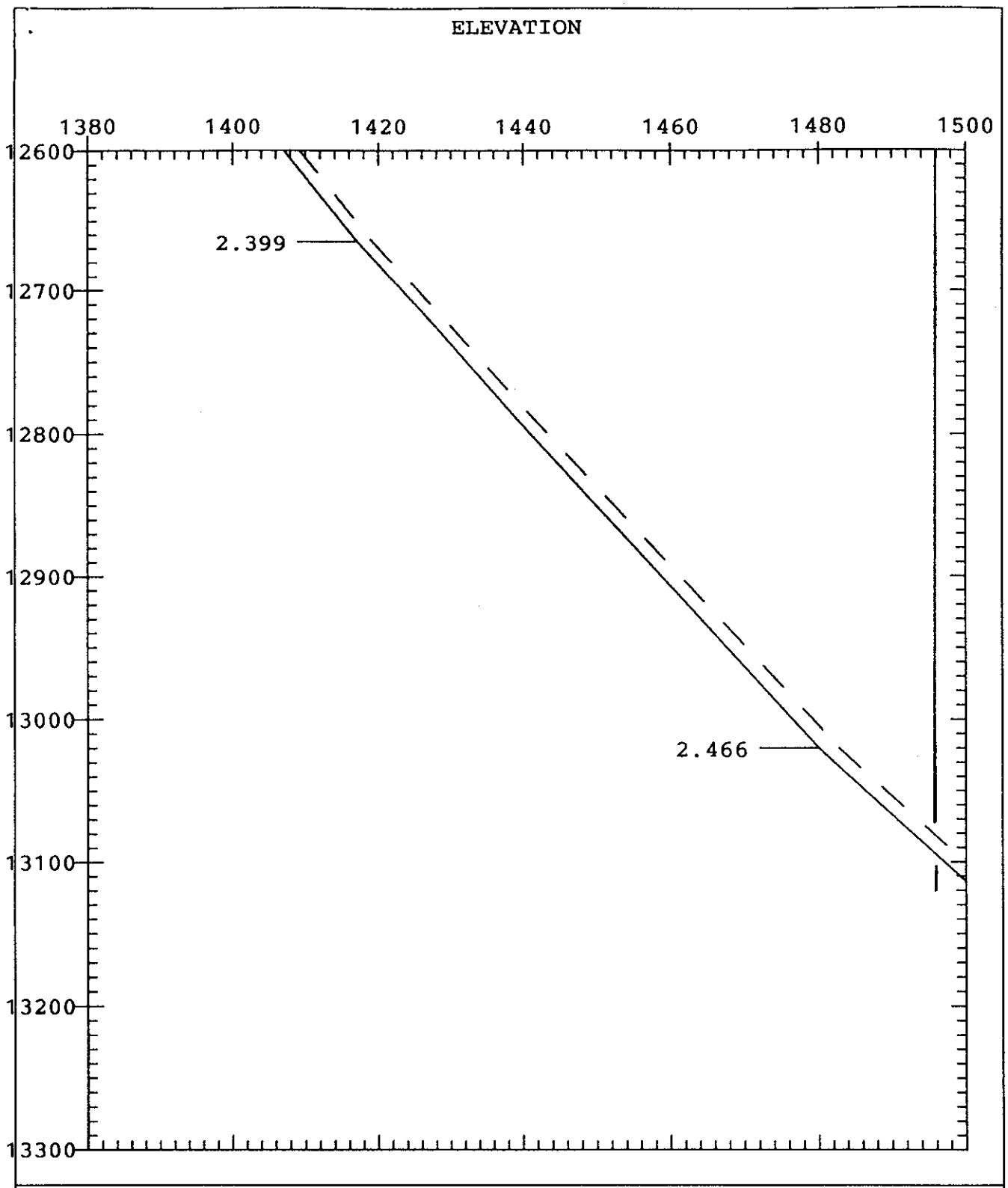
WASH 5A - BULLDOZER WASH



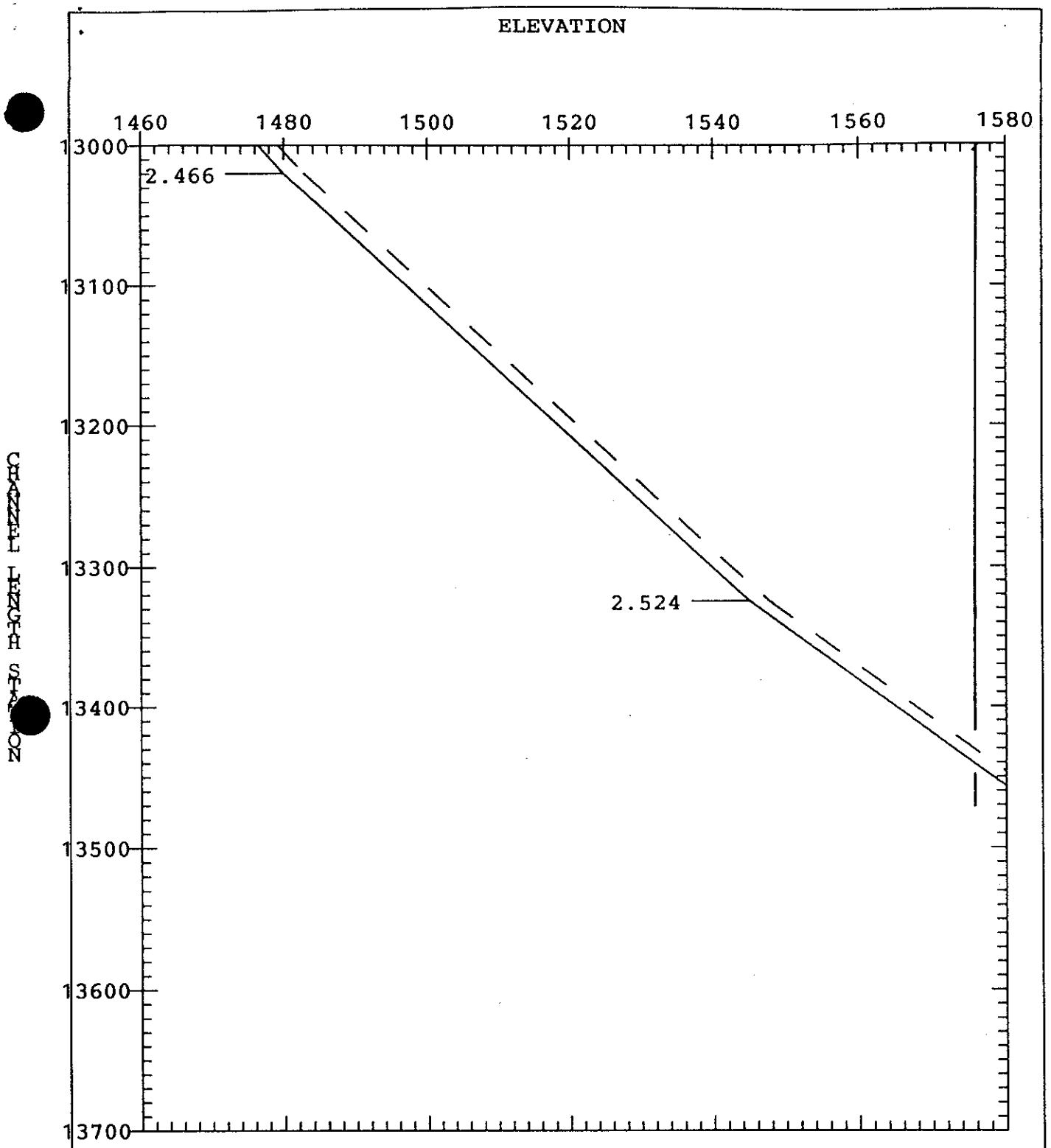
WASH 5A - BULLDOZER WASH



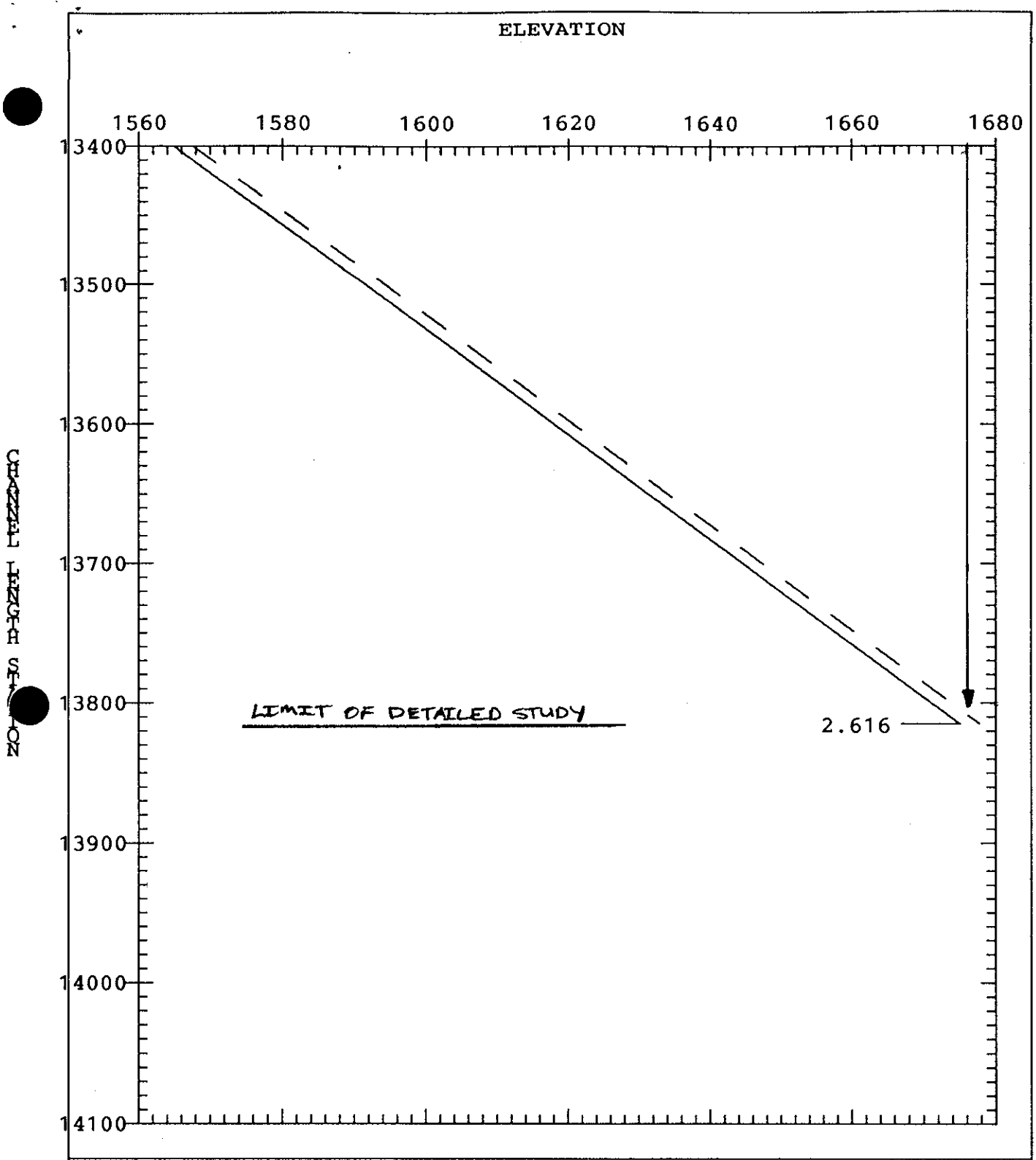
WASH 5A - BULLDOZER WASH



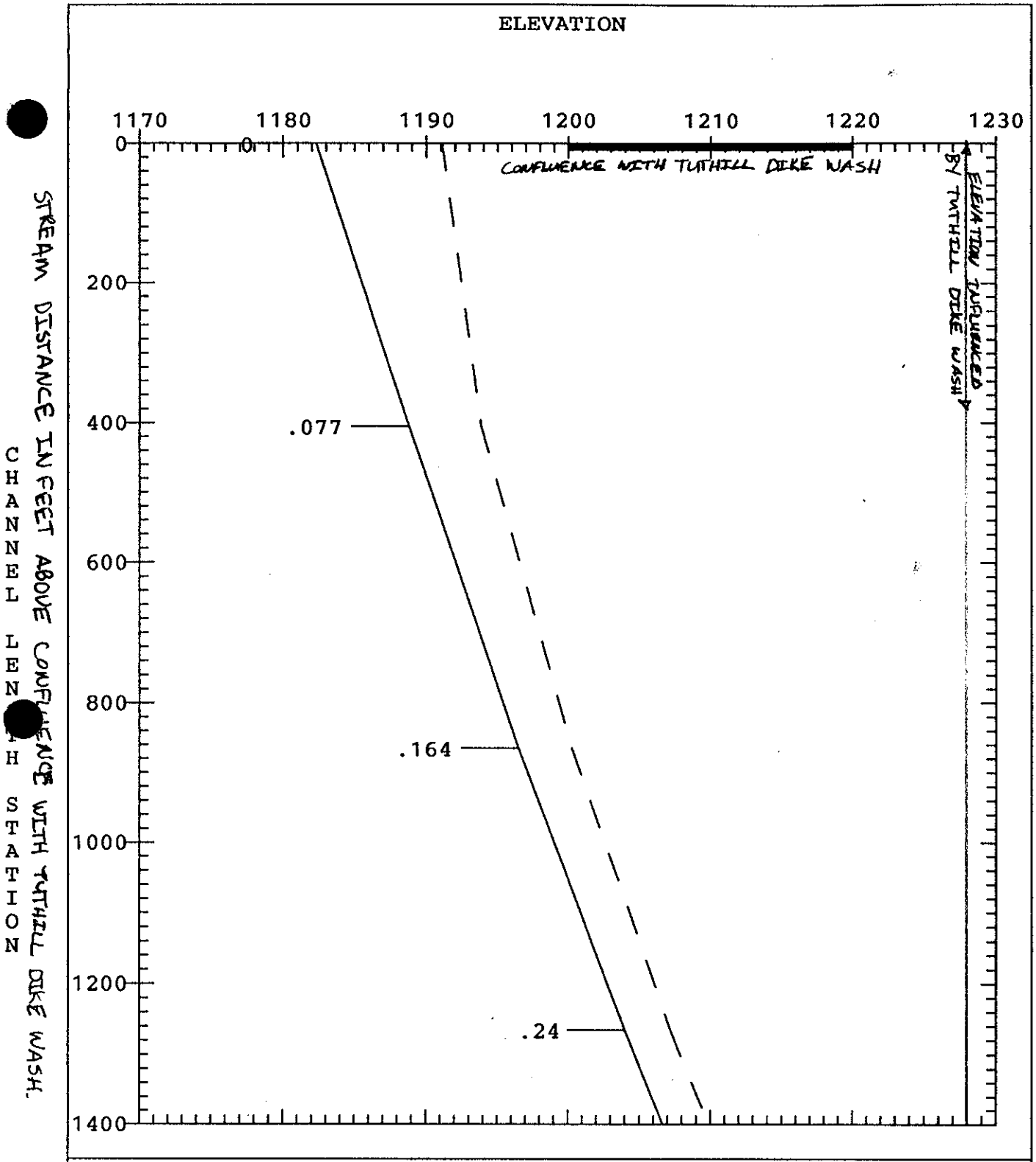
WASH 5A - BULLDOZER WASH



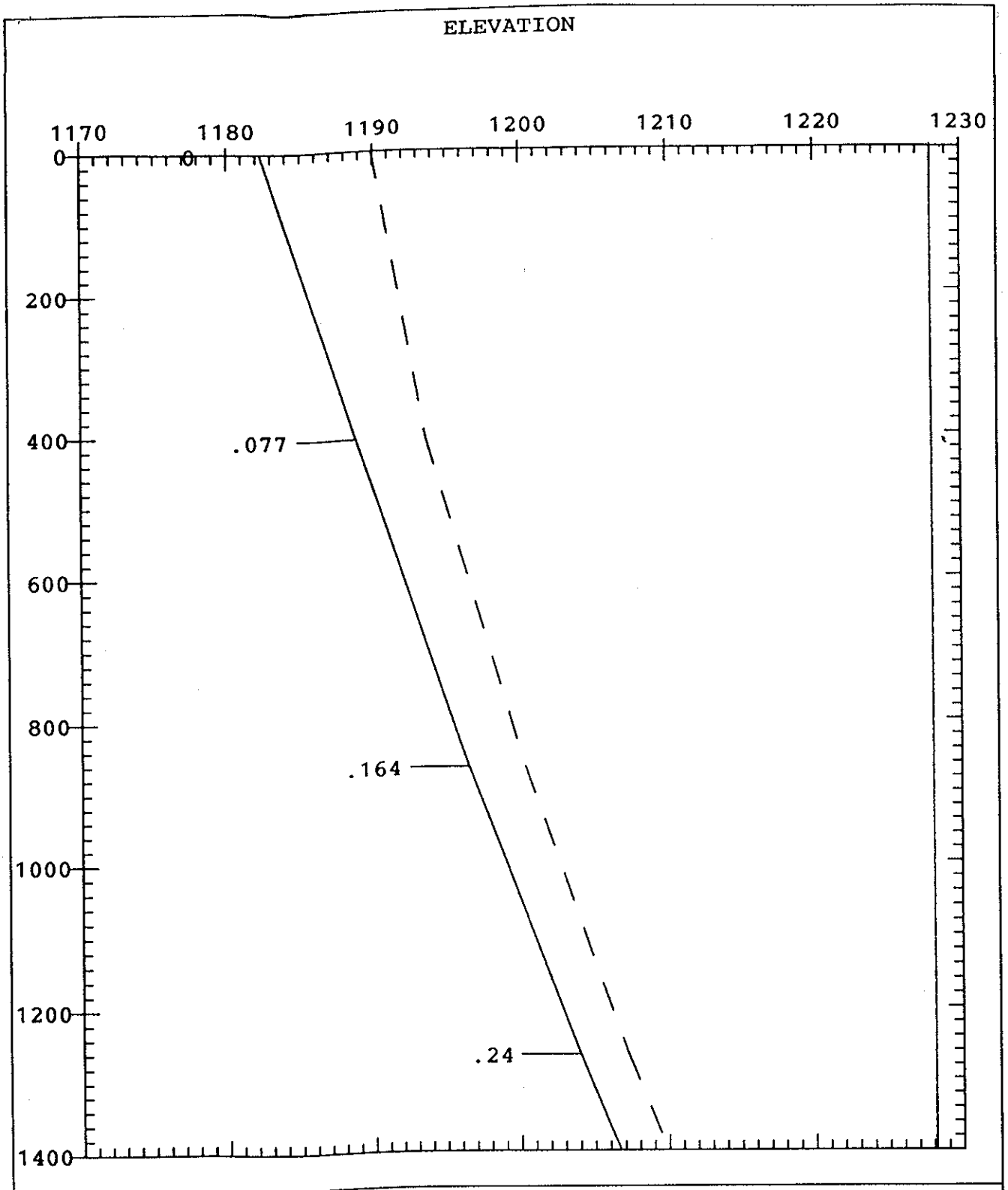
WASH 5A - BULLDOZER WASH



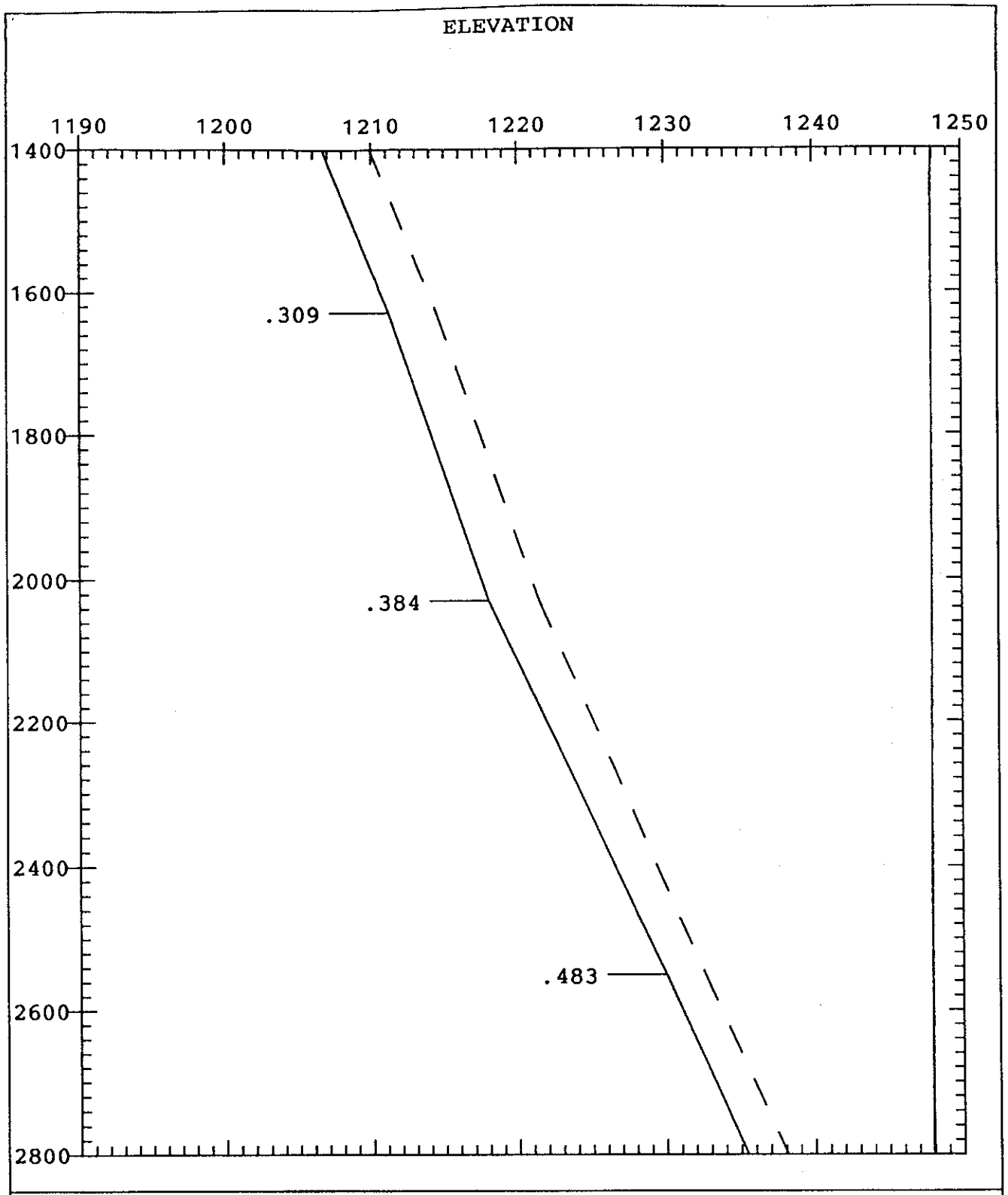
WASH 5A - BULLDOZER WASH



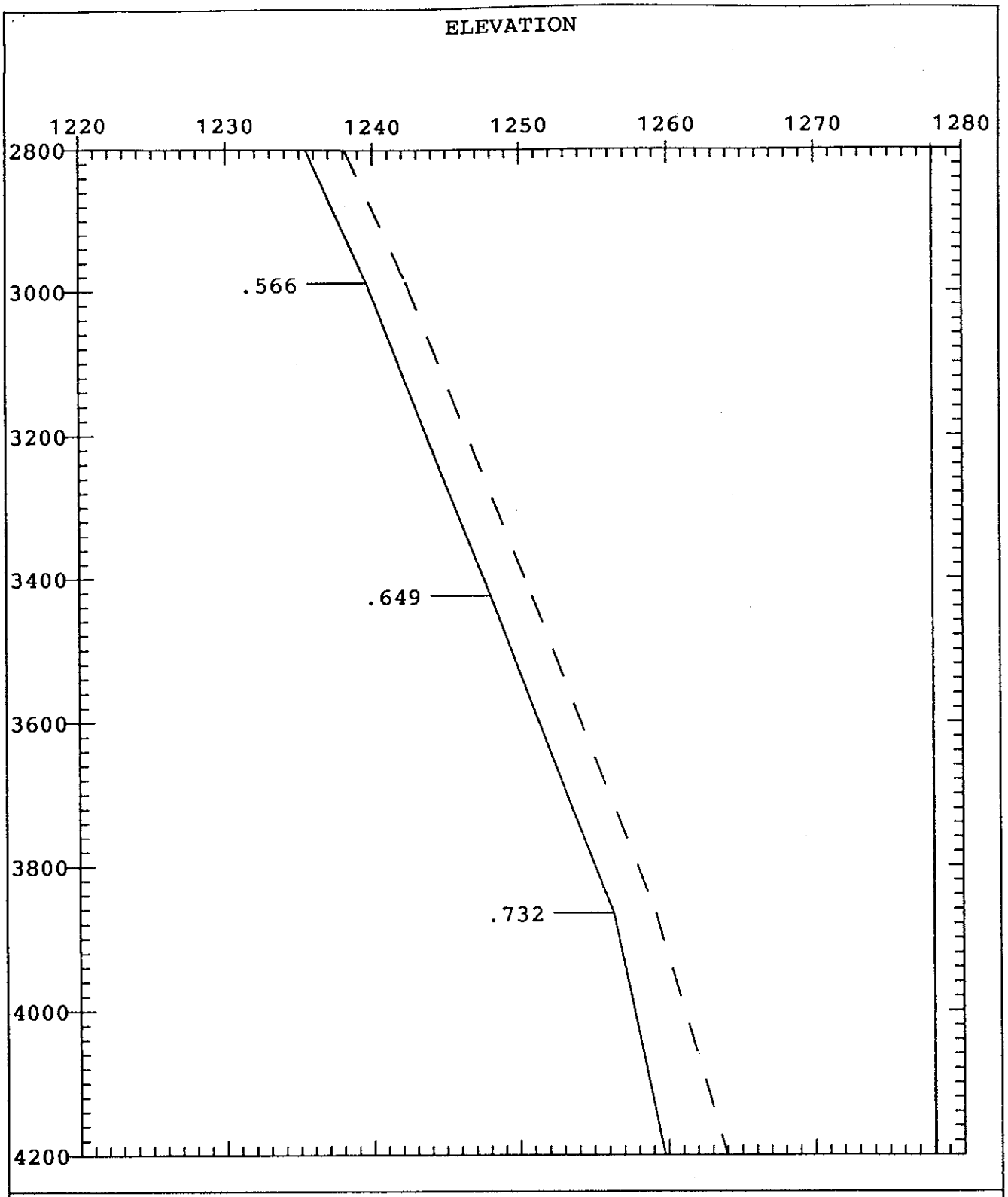
WASH 5B - CATERPILLAR WASH



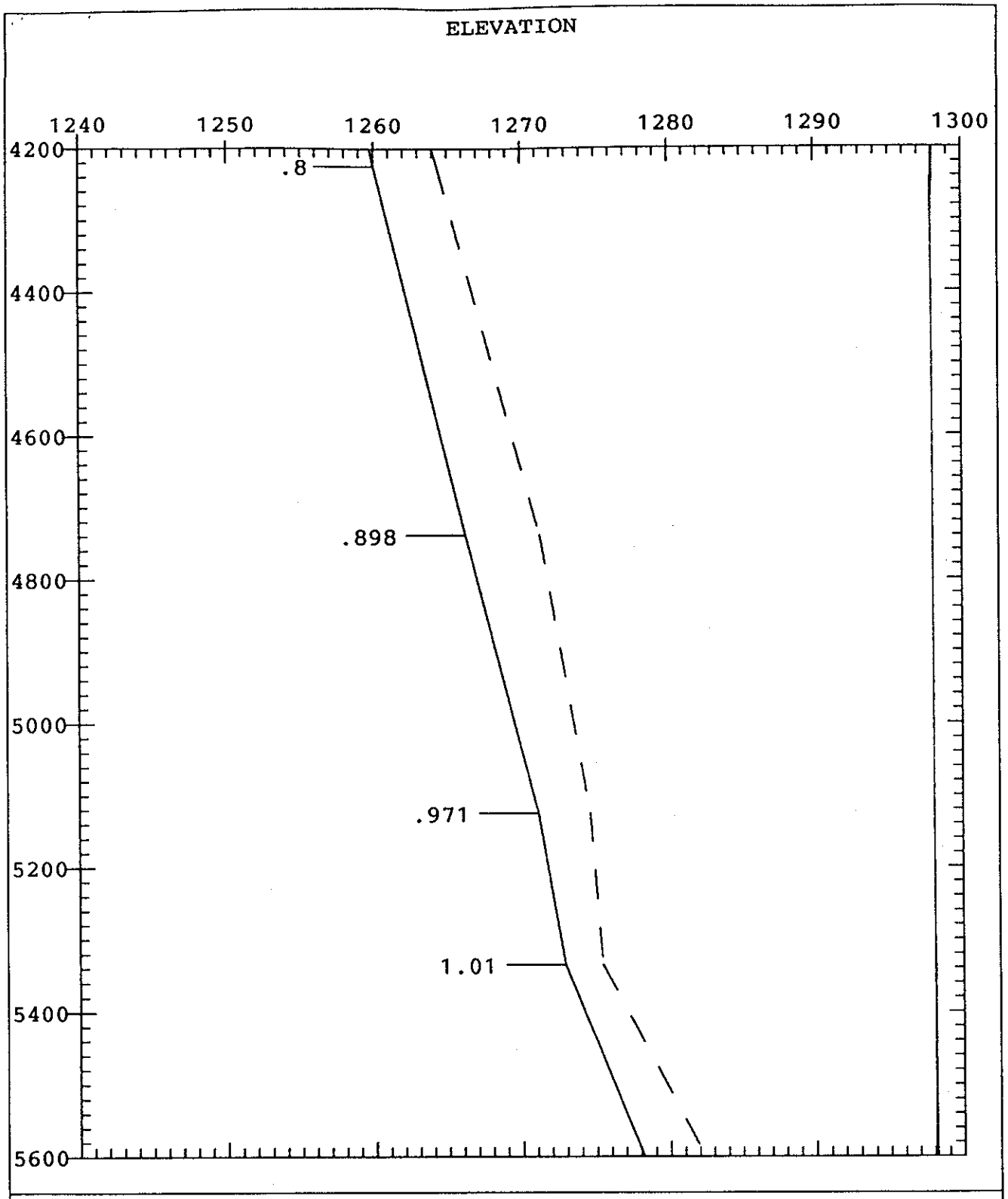
WASH 5B - CATERPILLAR WASH



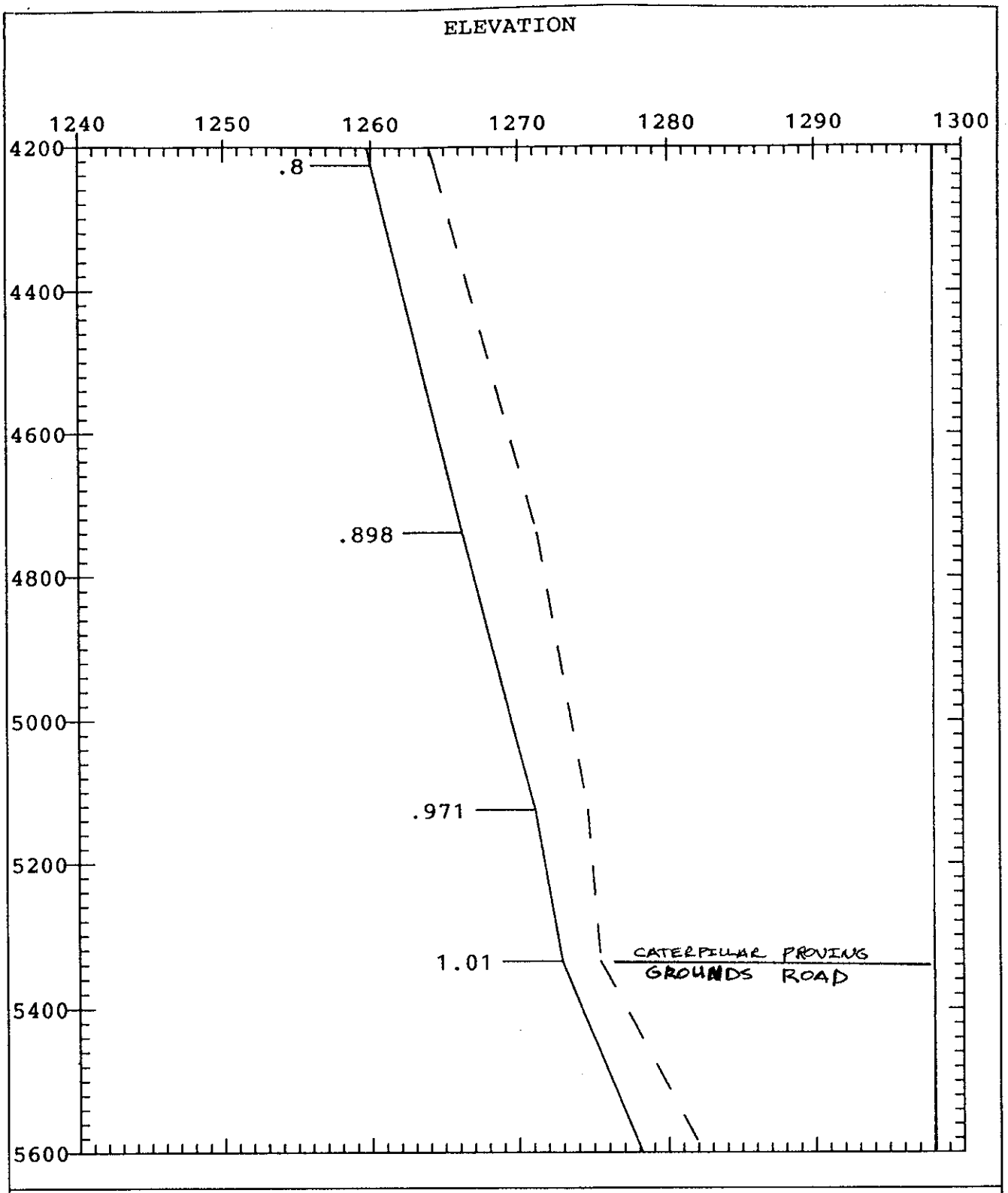
WASH 5B - CATERPILLAR WASH



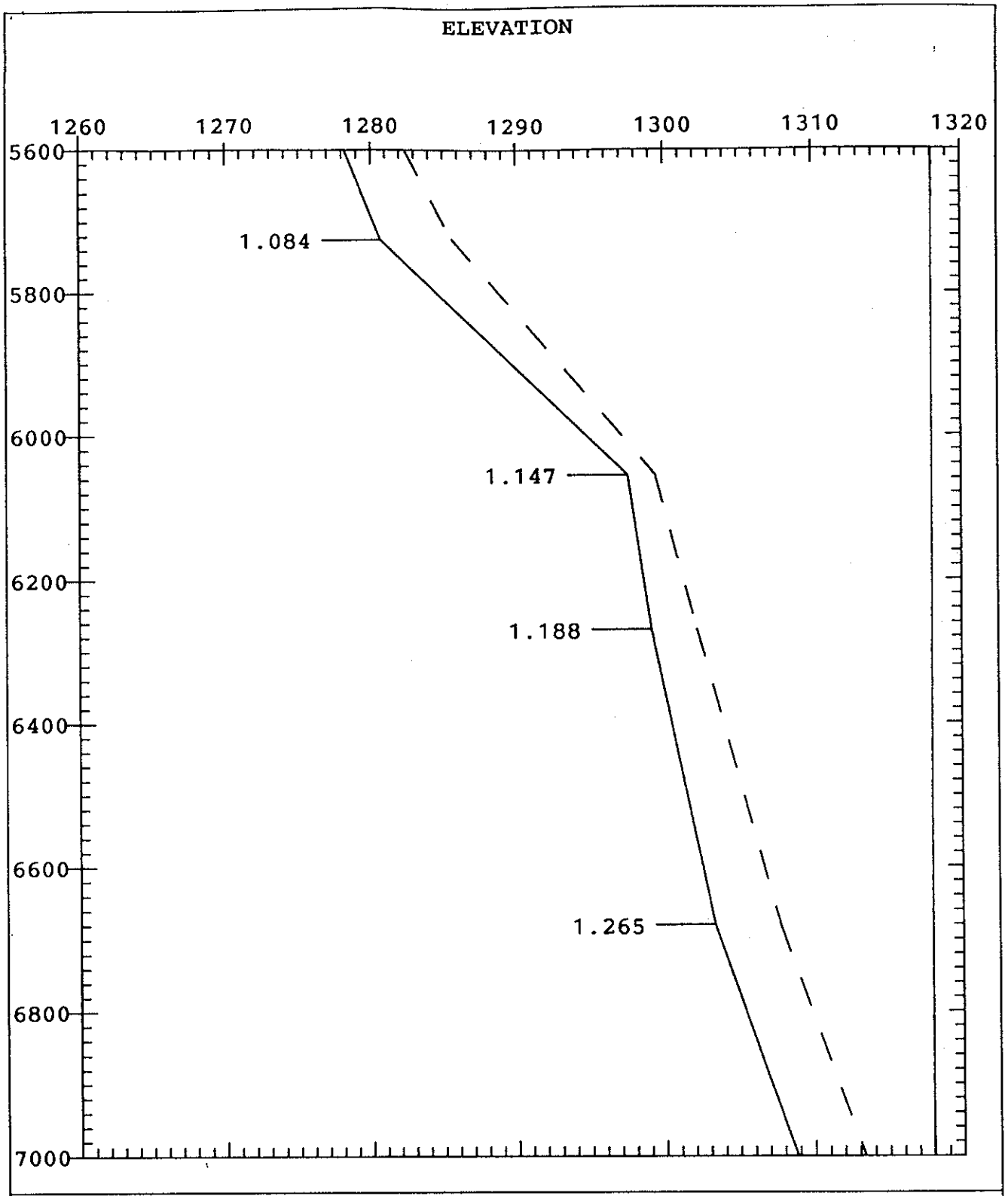
WASH 5B - CATERPILLAR WASH



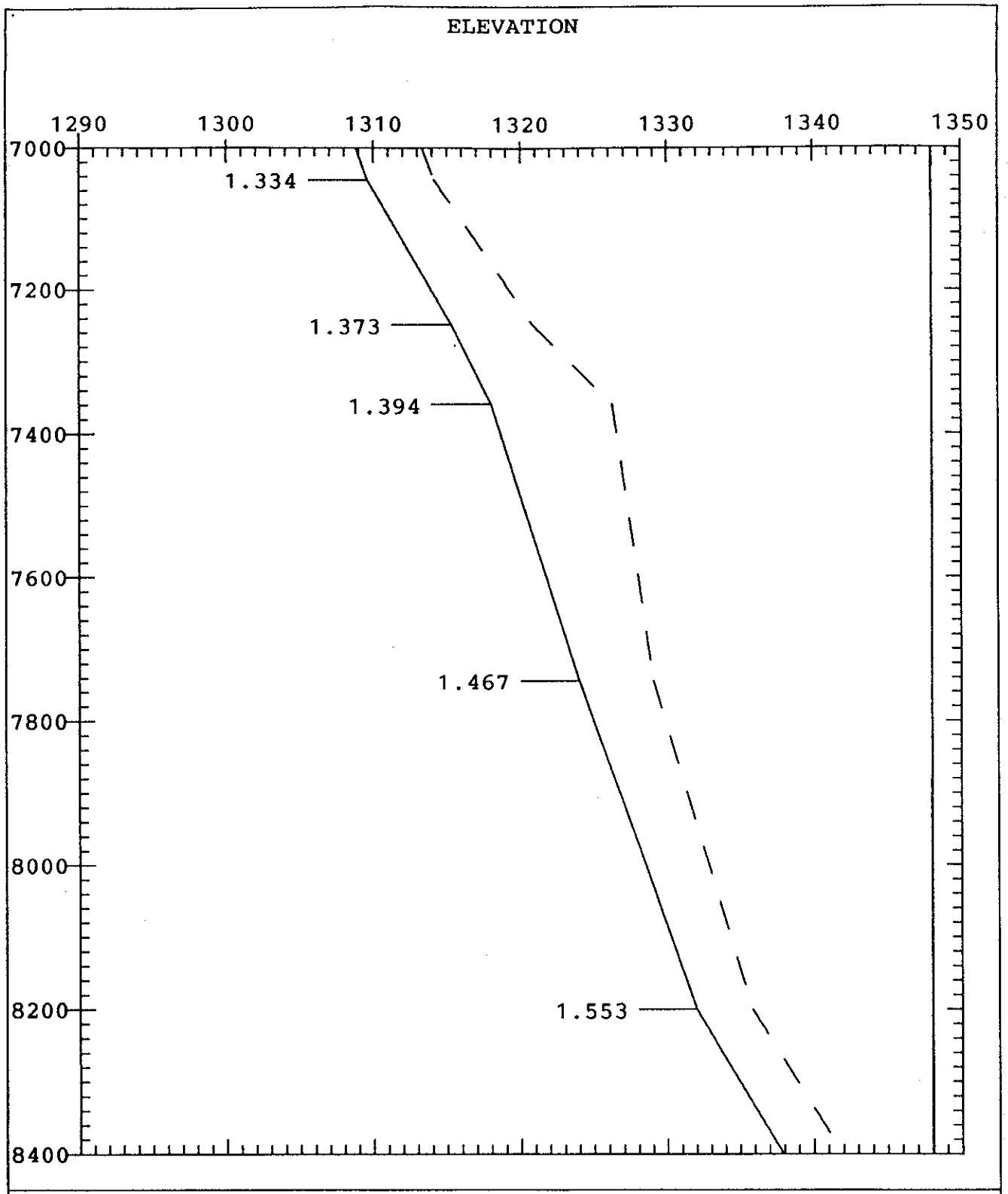
WASH 5B - CATERPILLAR WASH



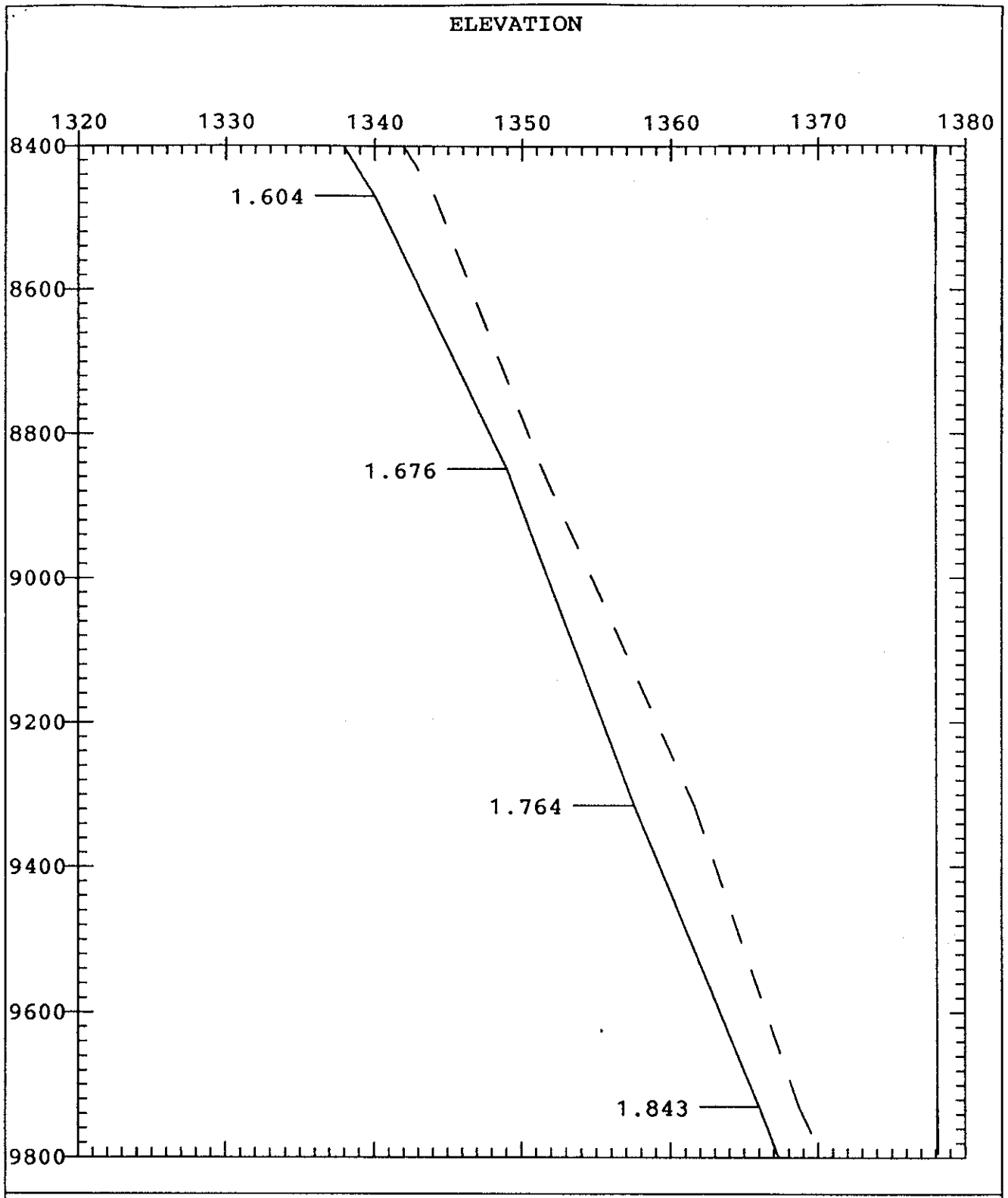
WASH 5B - CATERPILLAR WASH



WASH 5B - CATERPILLAR WASH

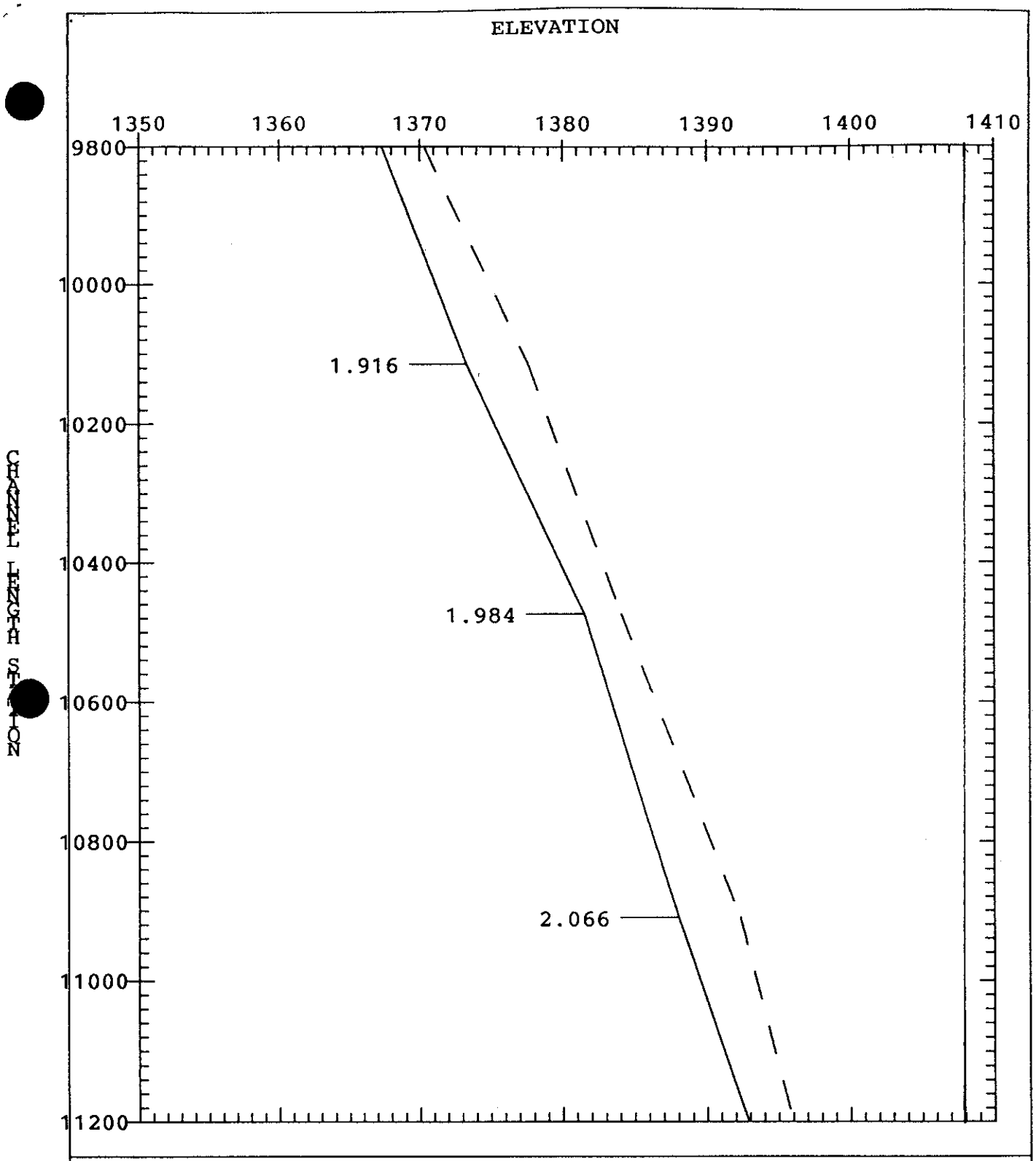


WASH 5B - CATERPILLAR WASH

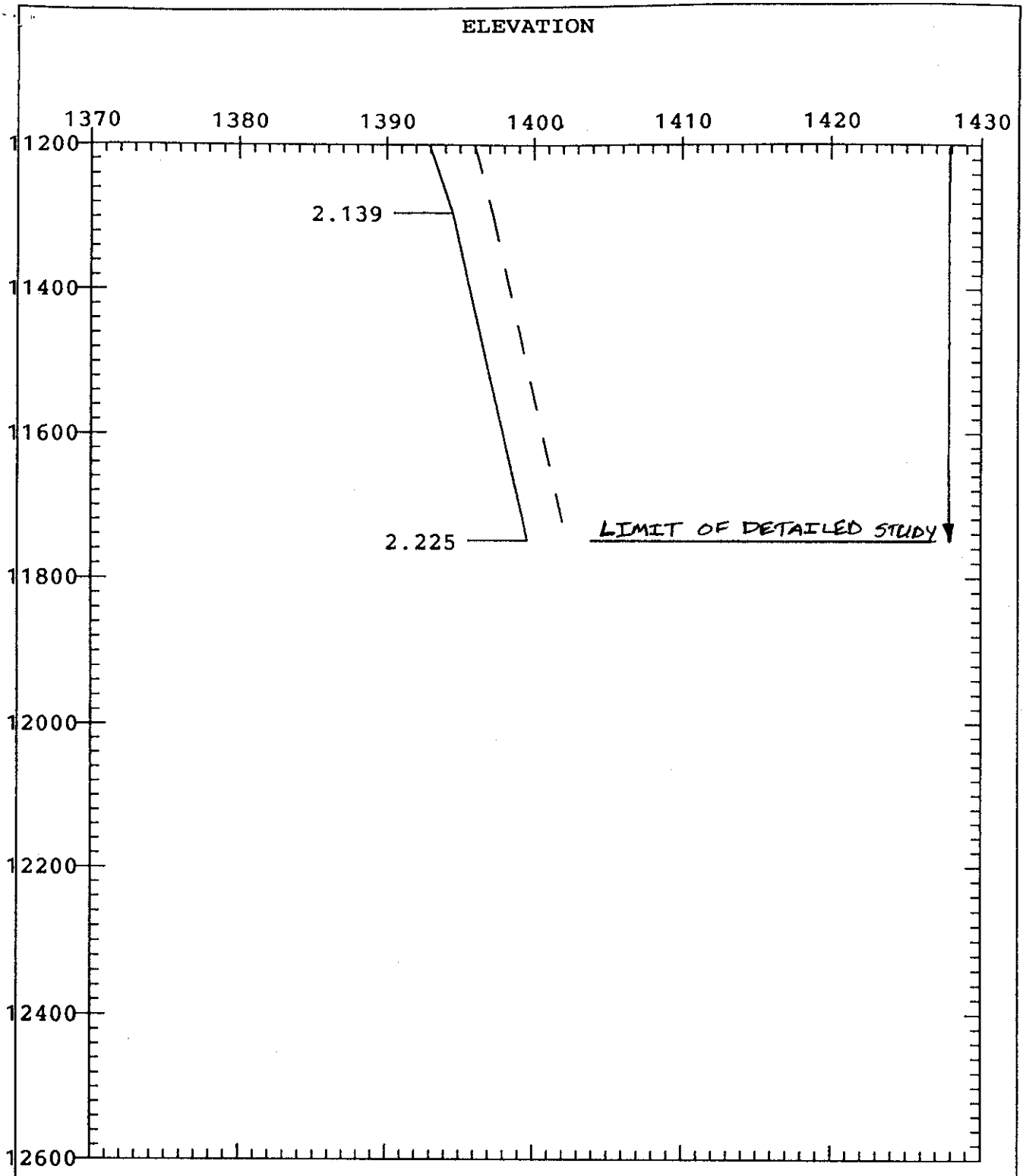


WASH 5B - CATERPILLAR WASH

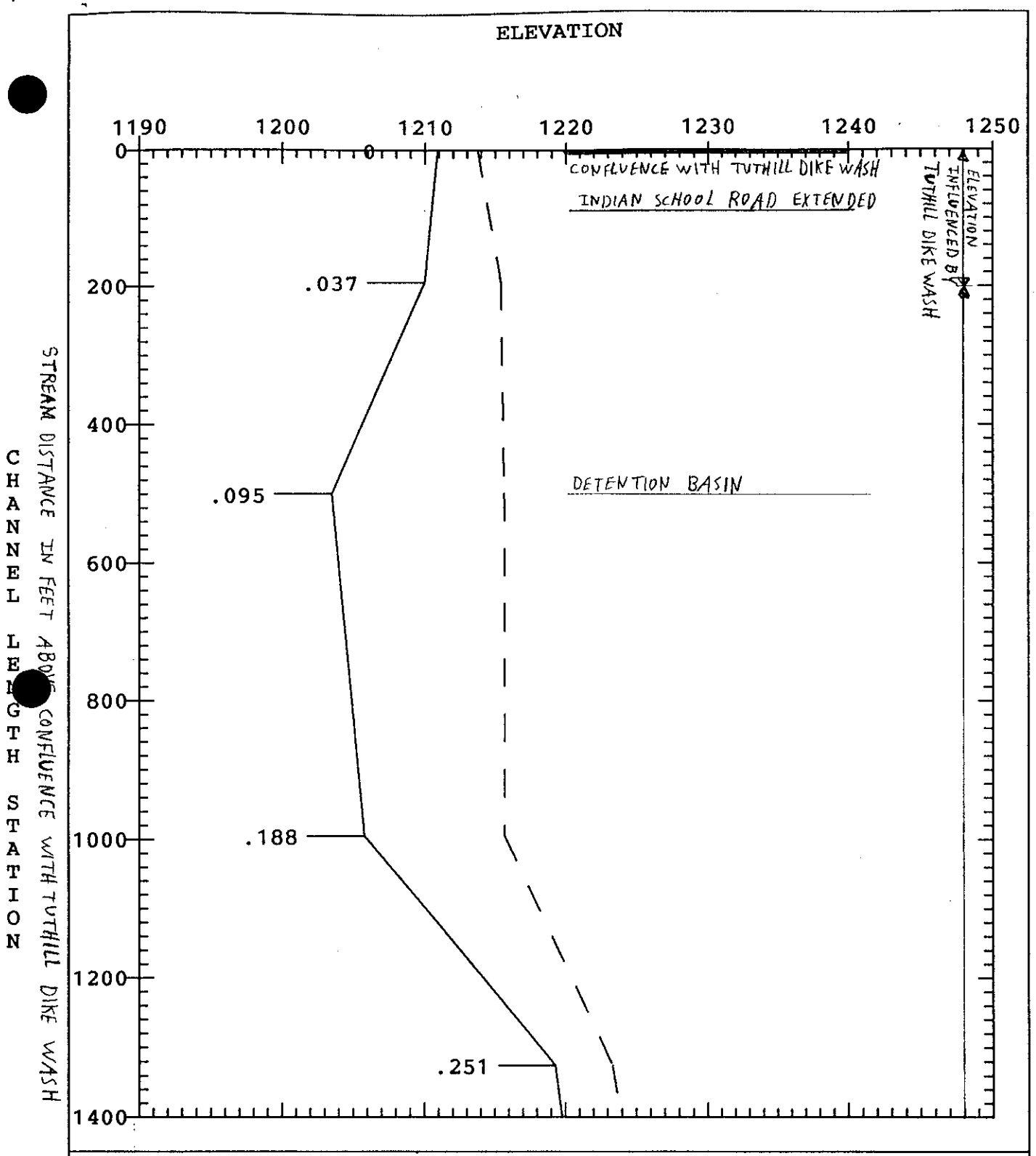
CHANNEL LENGTH SECTION



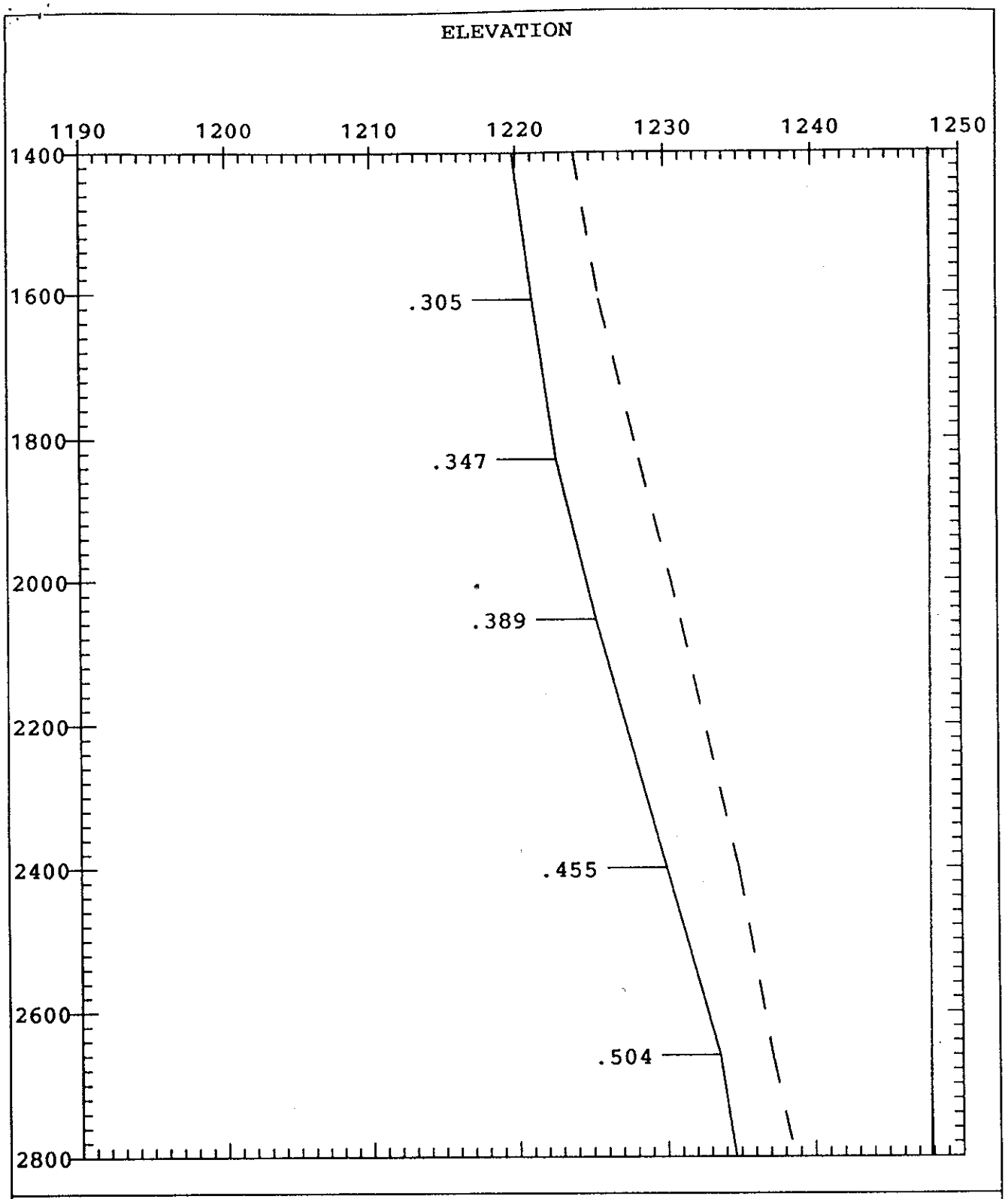
WASH 5B - CATERPILLAR WASH



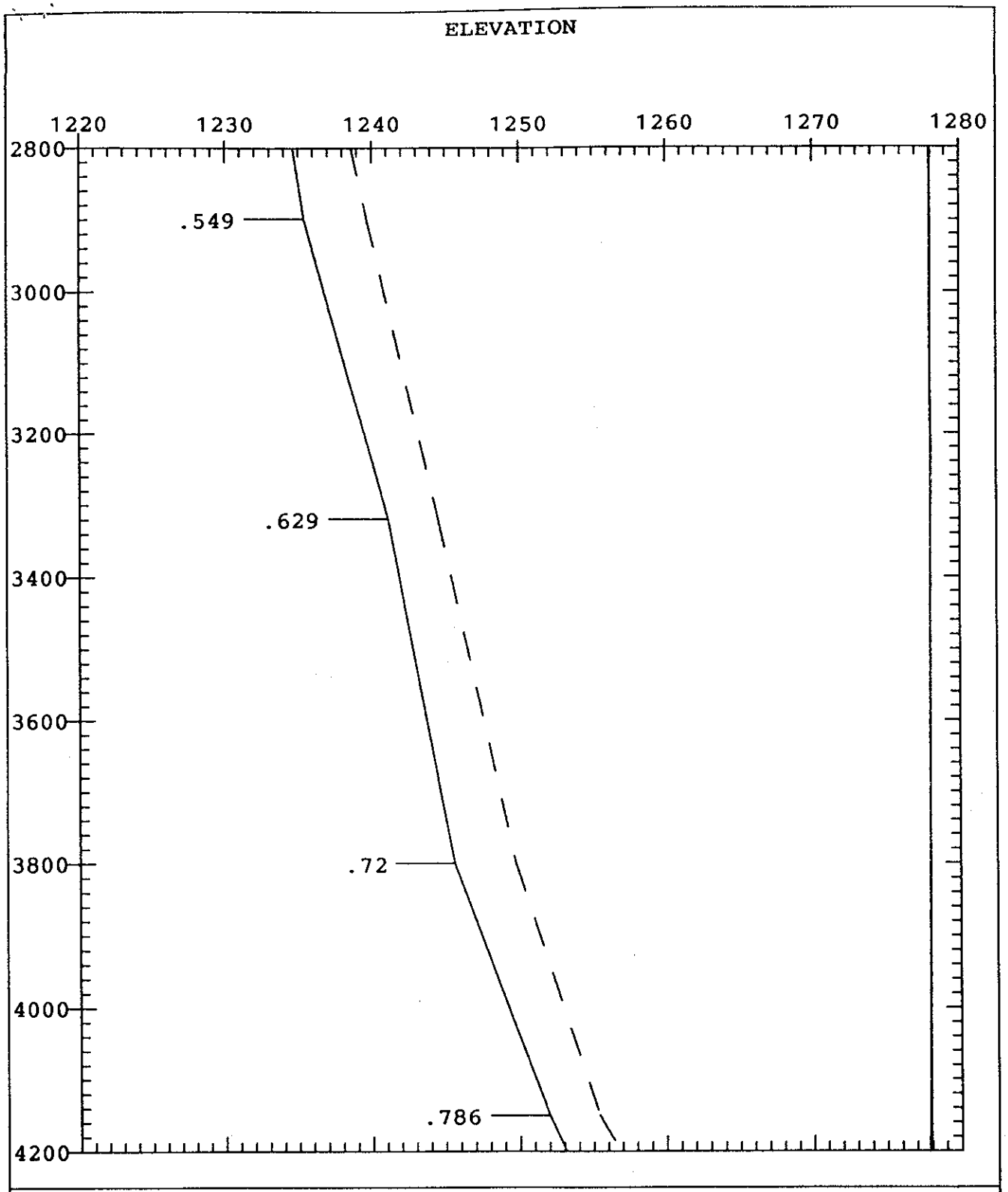
WASH 5B - CATERPILLAR WASH



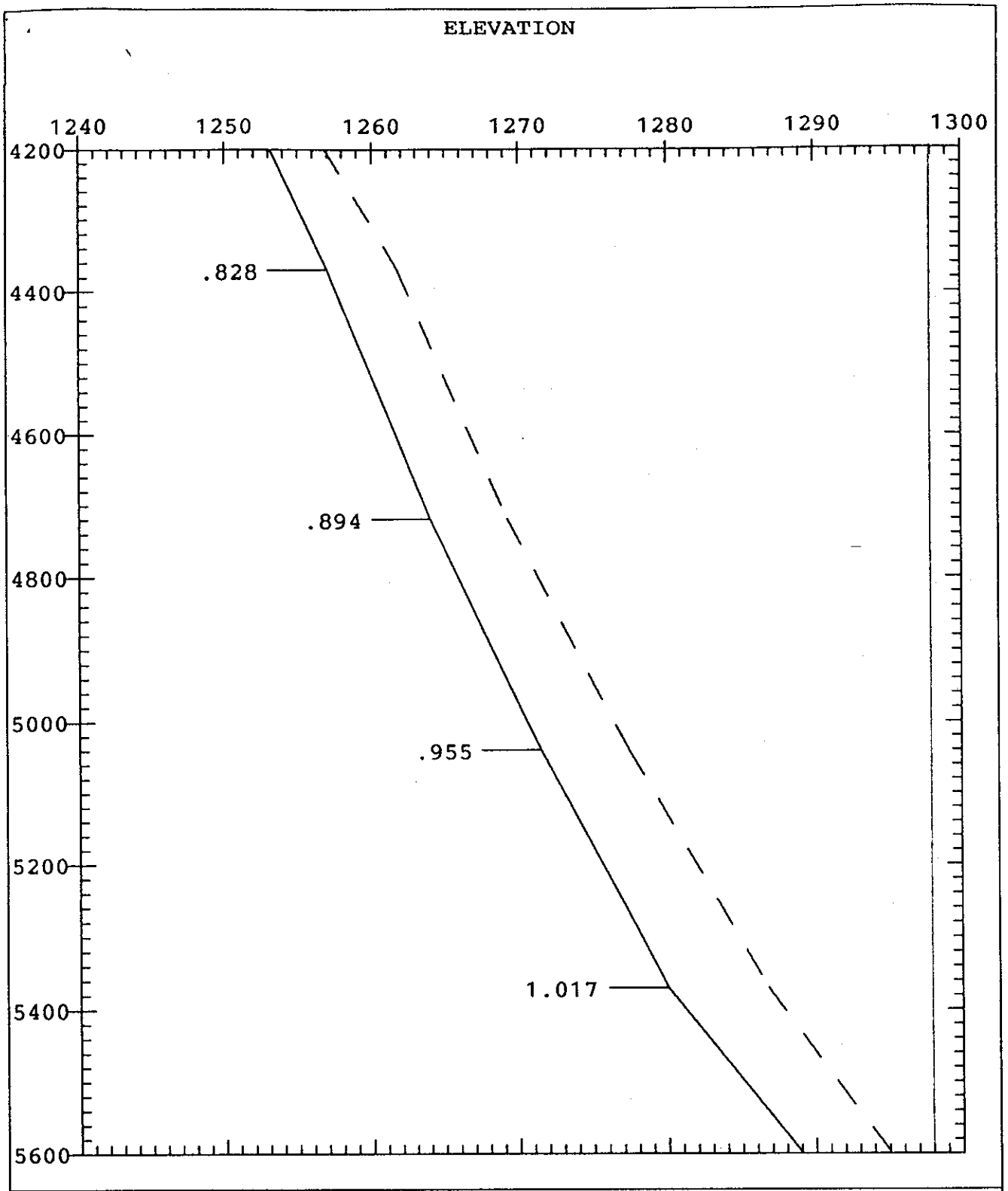
WASH 5C - TRACTOR WASH



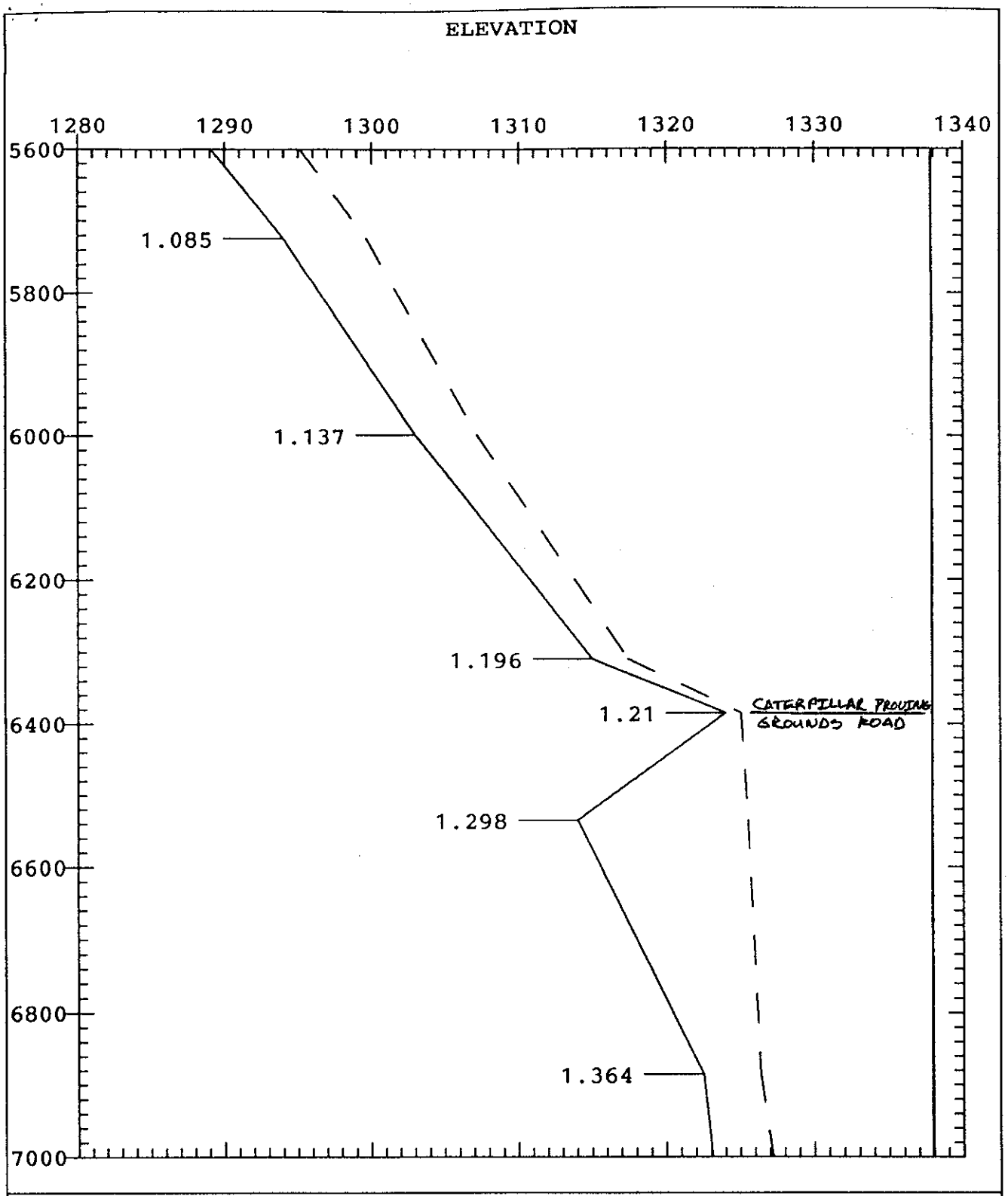
WASH 5C - TRACTOR WASH



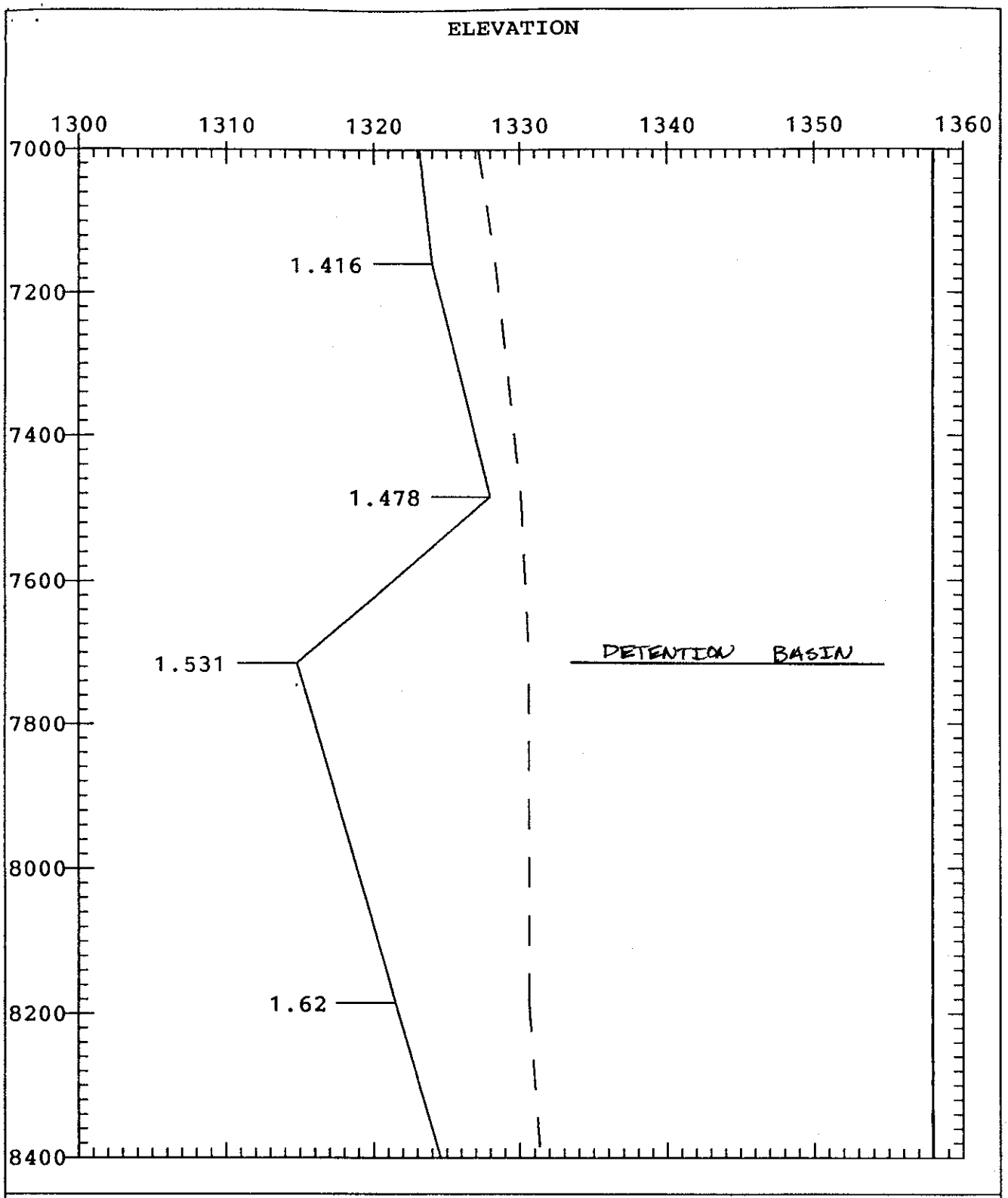
WASH 5C - TRACTOR WASH



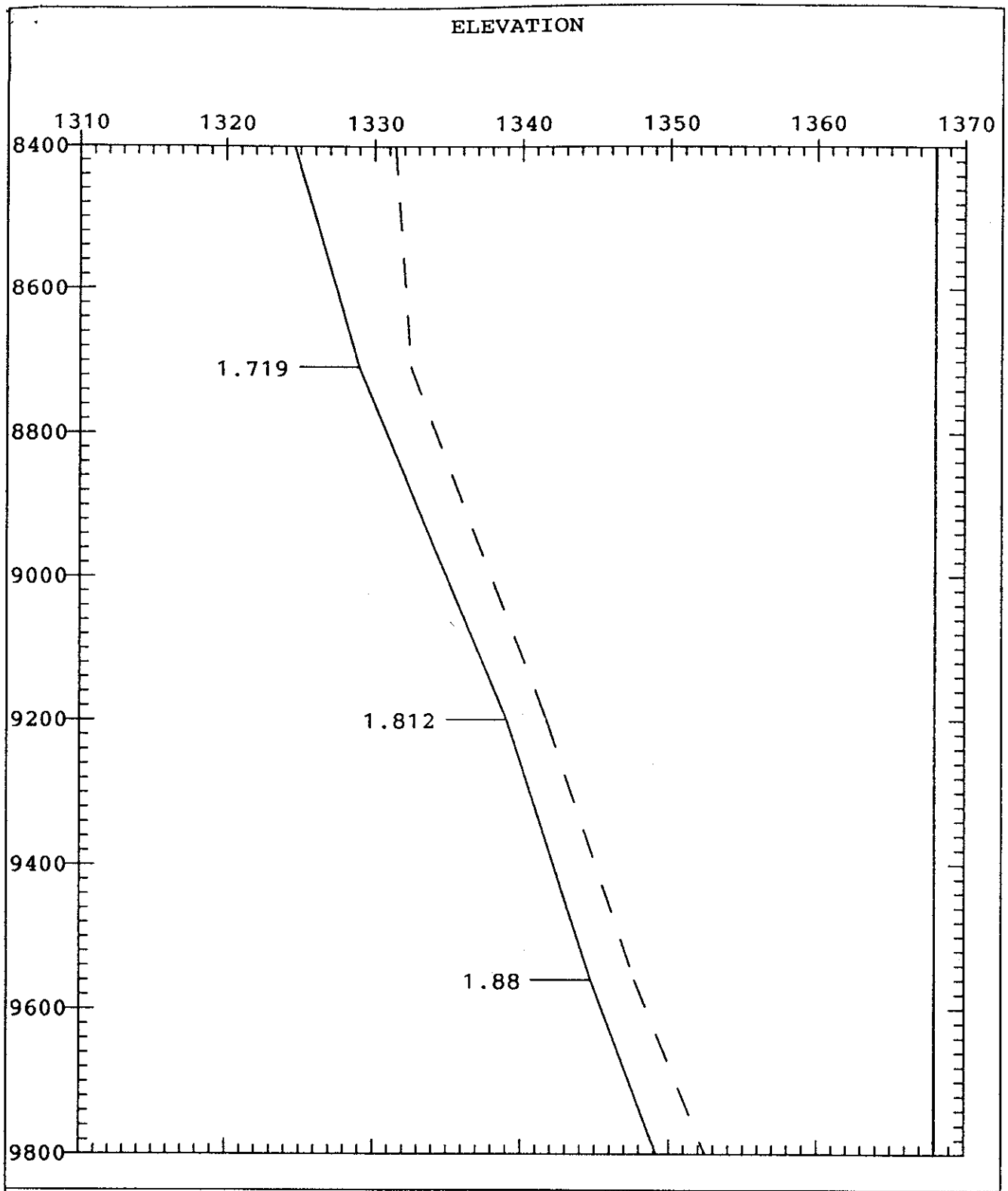
WASH 5C - TRACTOR WASH



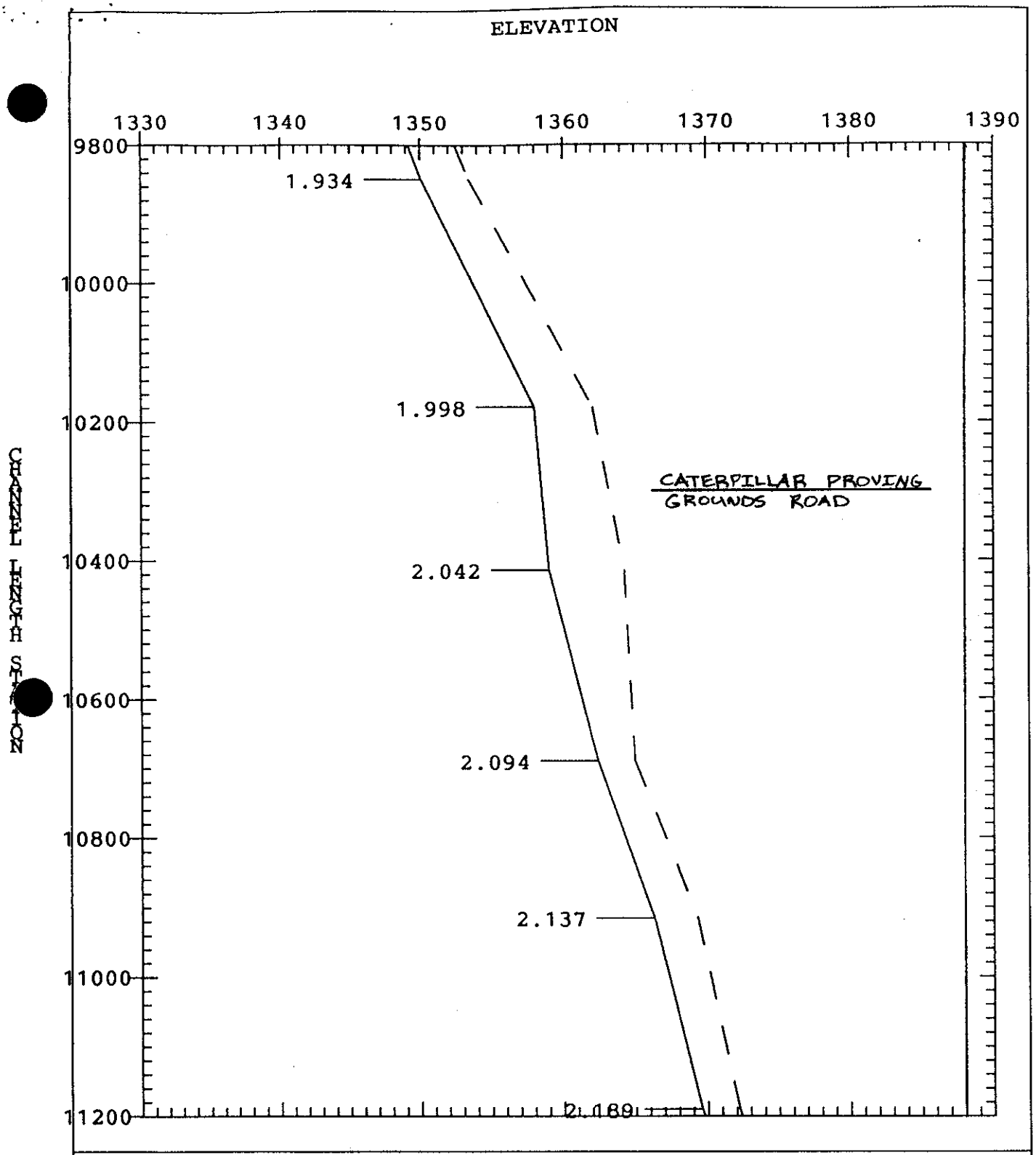
WASH 5C - TRACTOR WASH



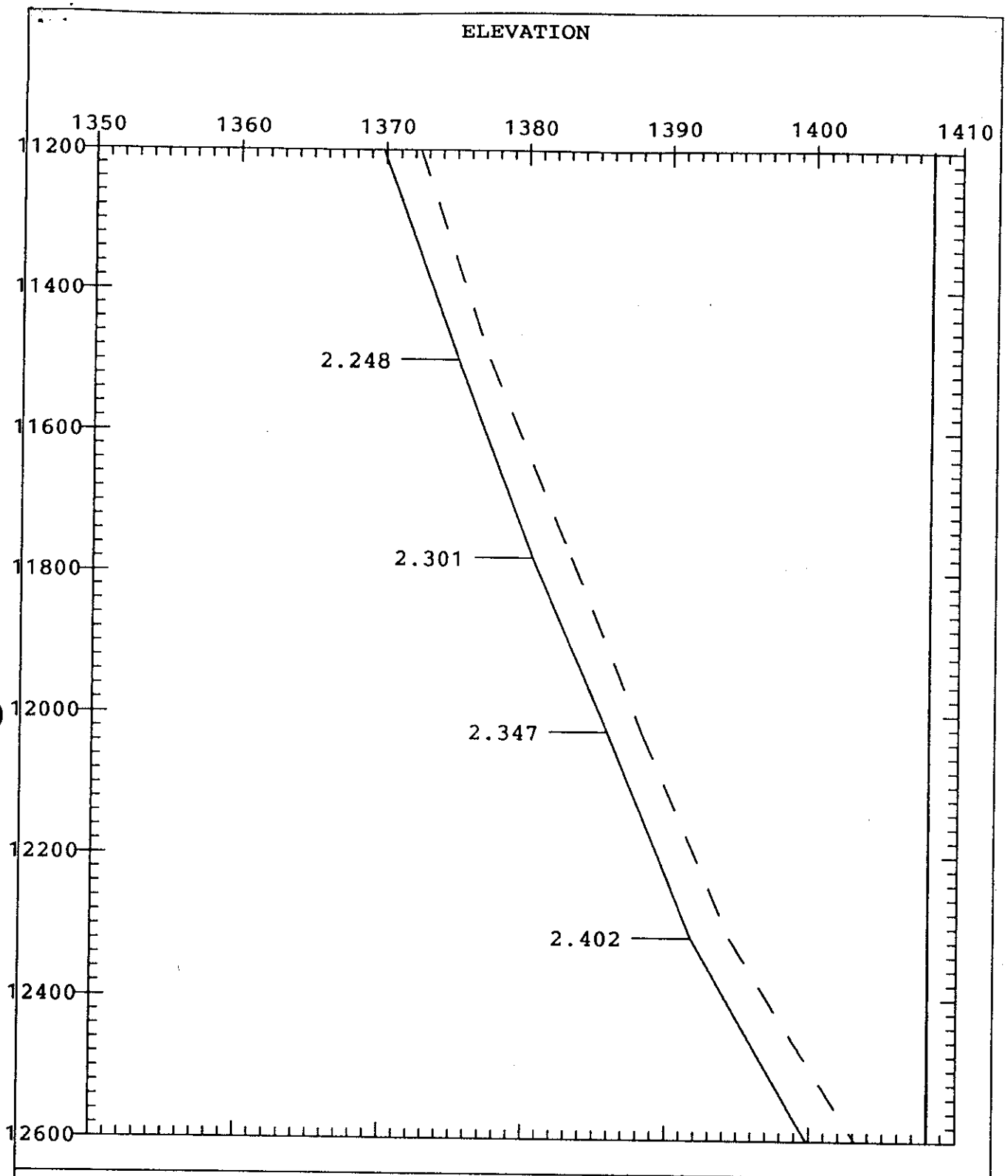
WASH 5C - TRACTOR WASH



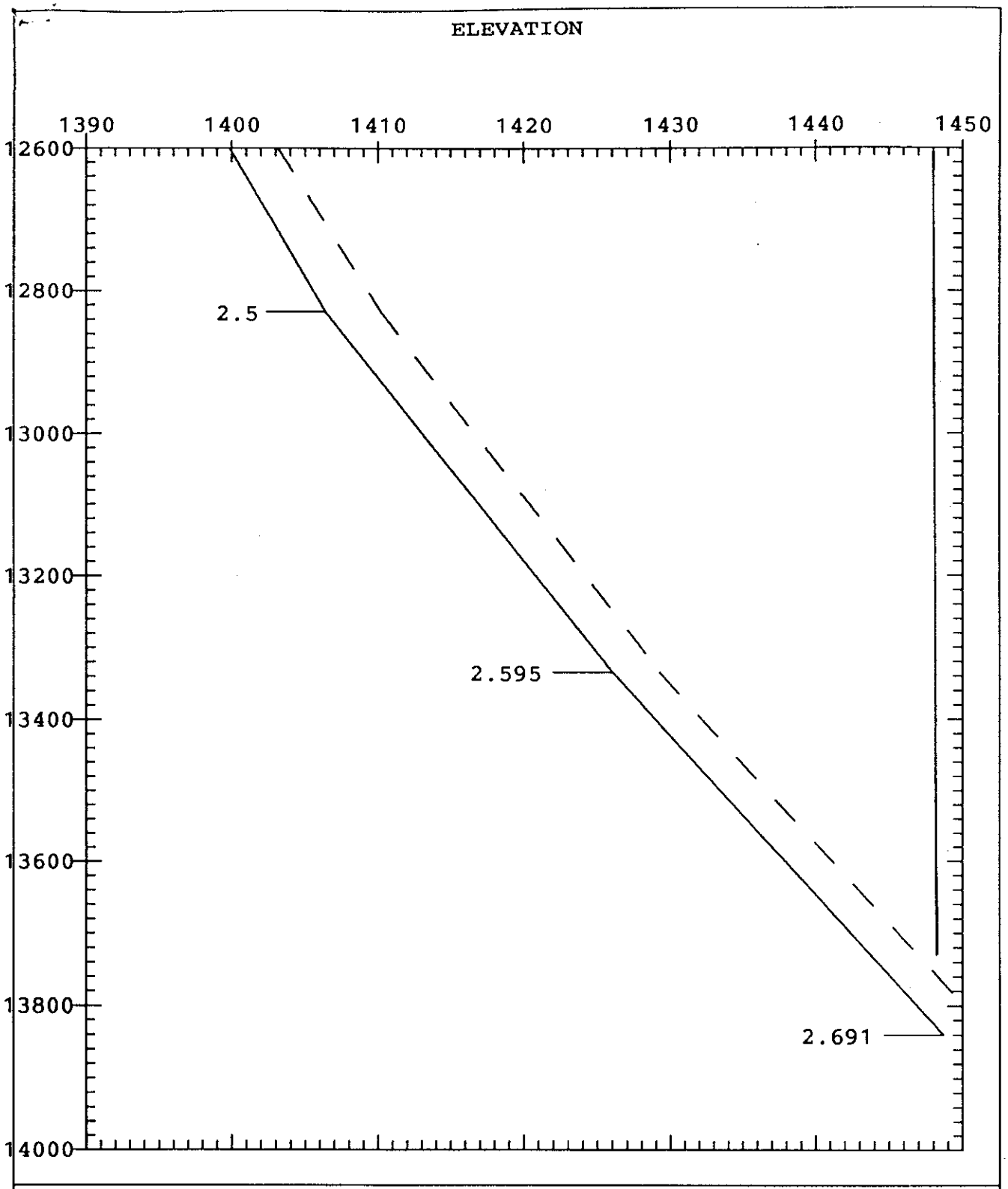
WASH 5C - TRACTOR WASH



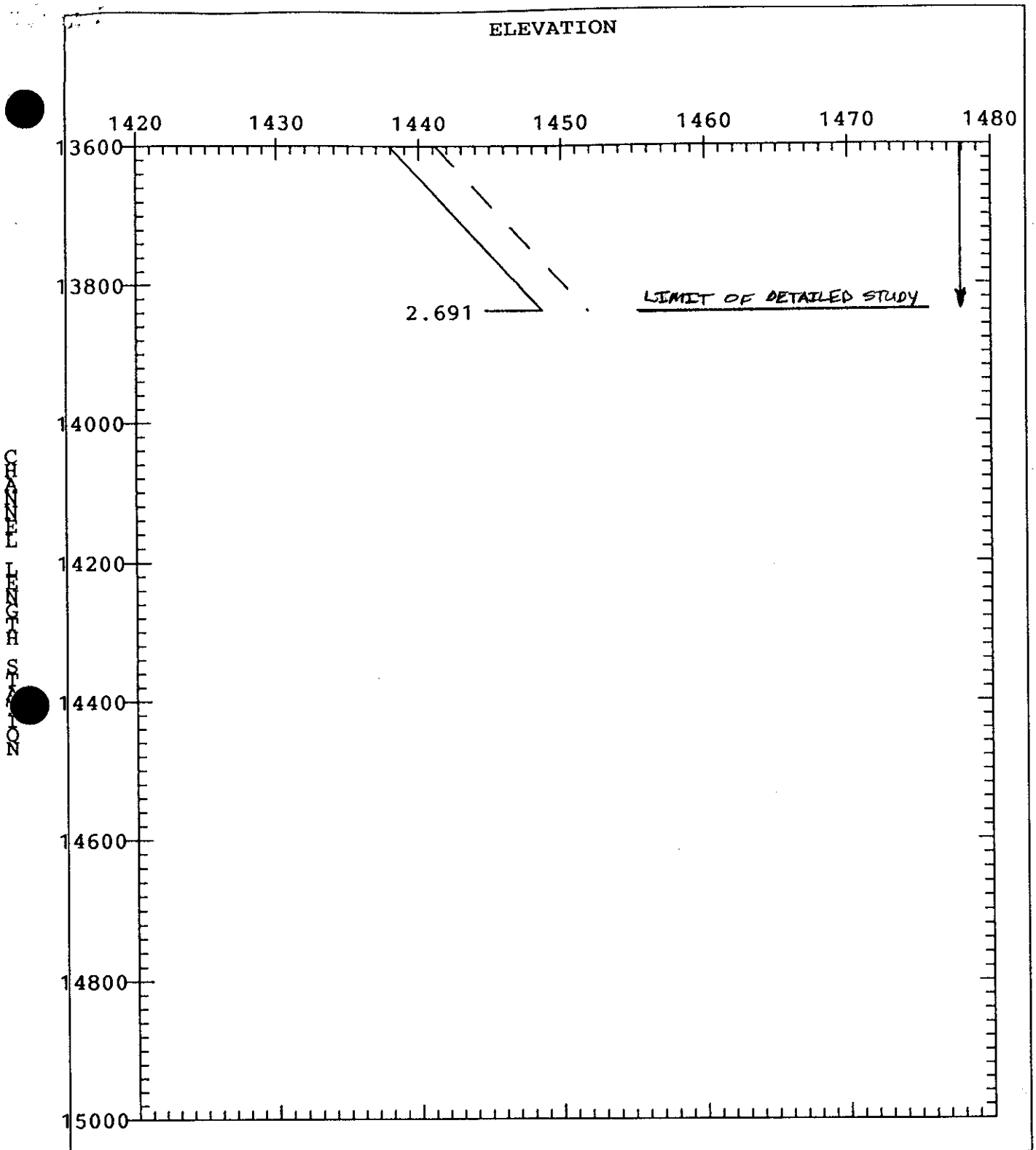
WASH 5C - TRACTOR WASH



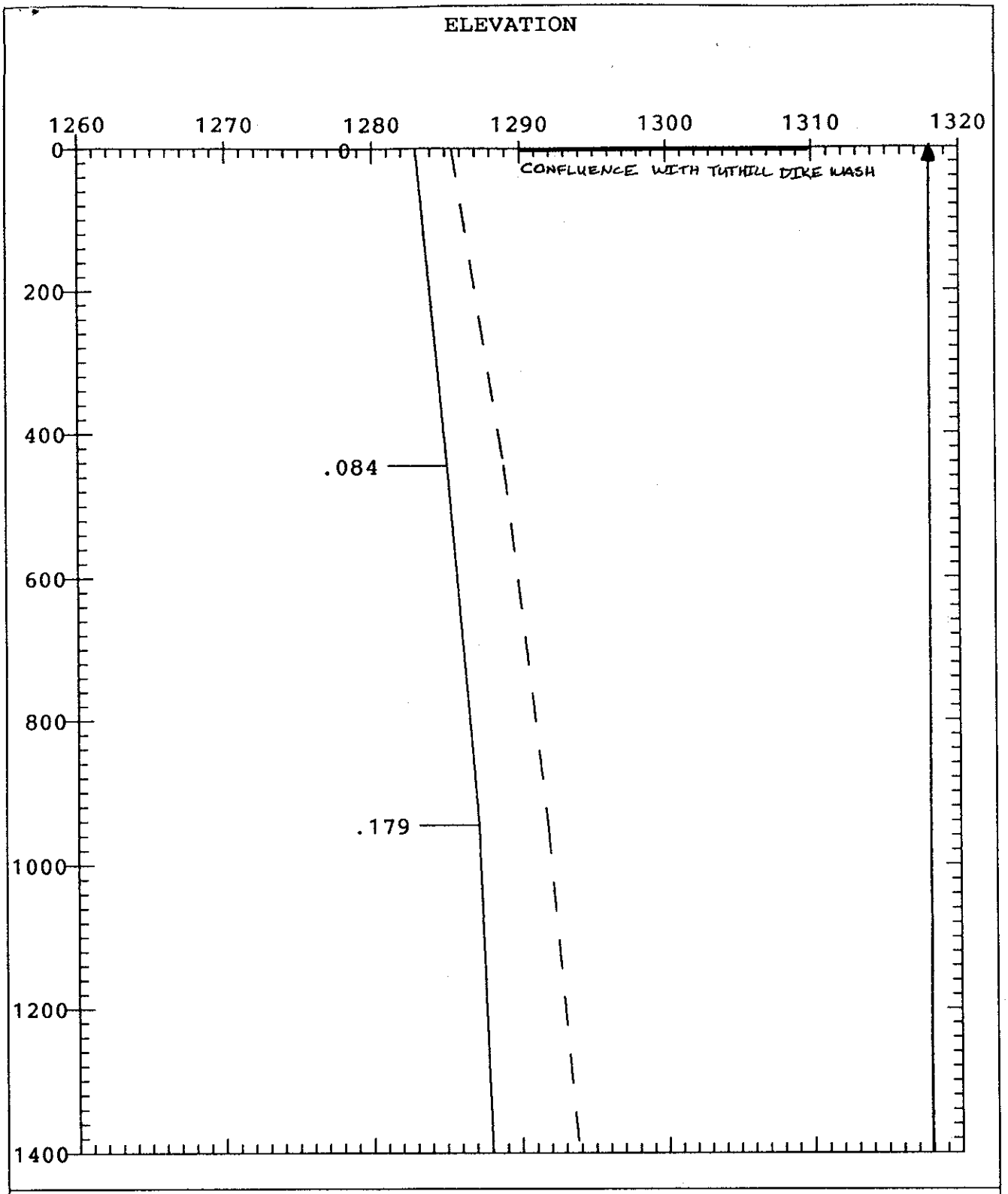
WASH 5C - TRACTOR WASH



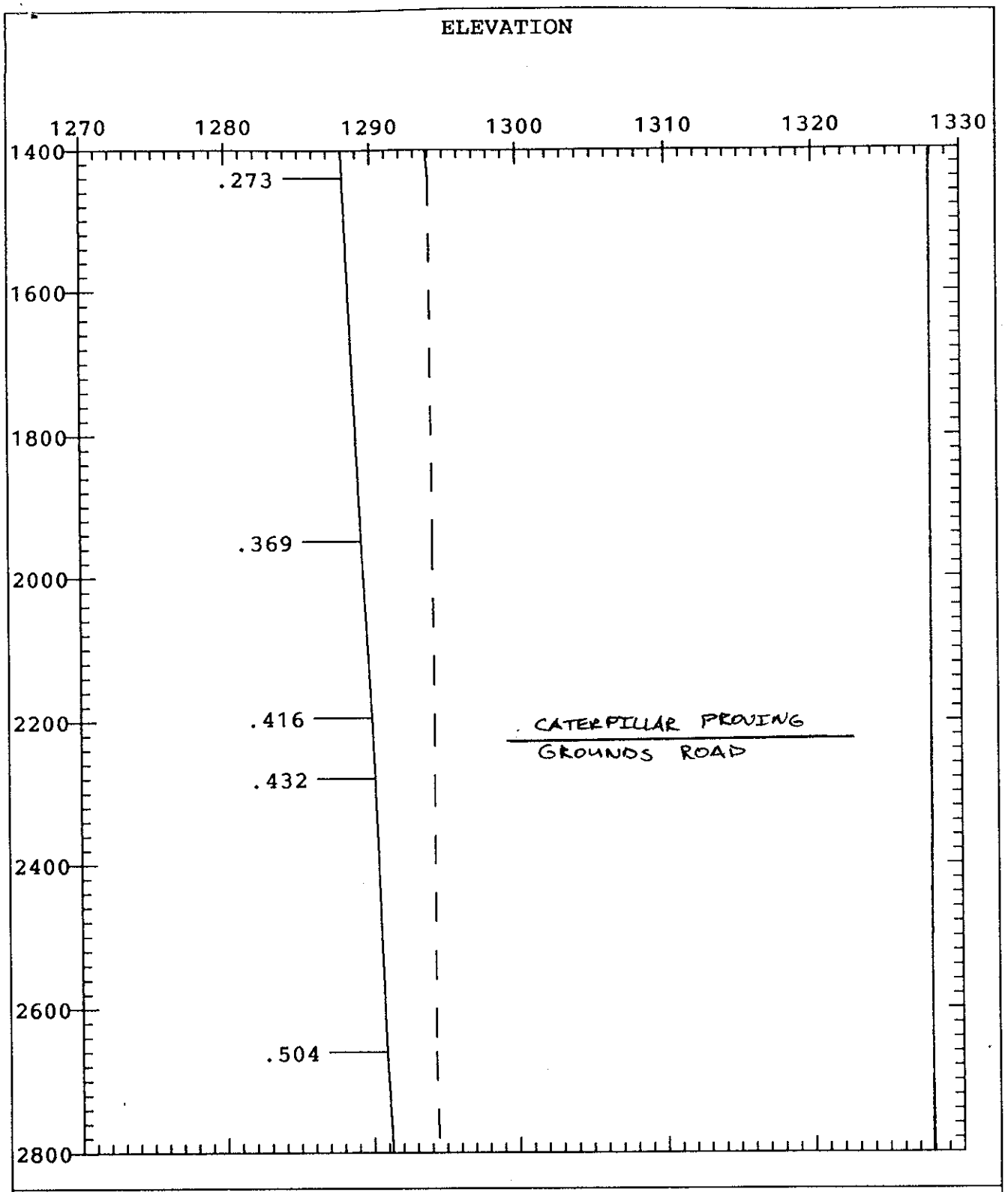
WASH 5C - TRACTOR WASH



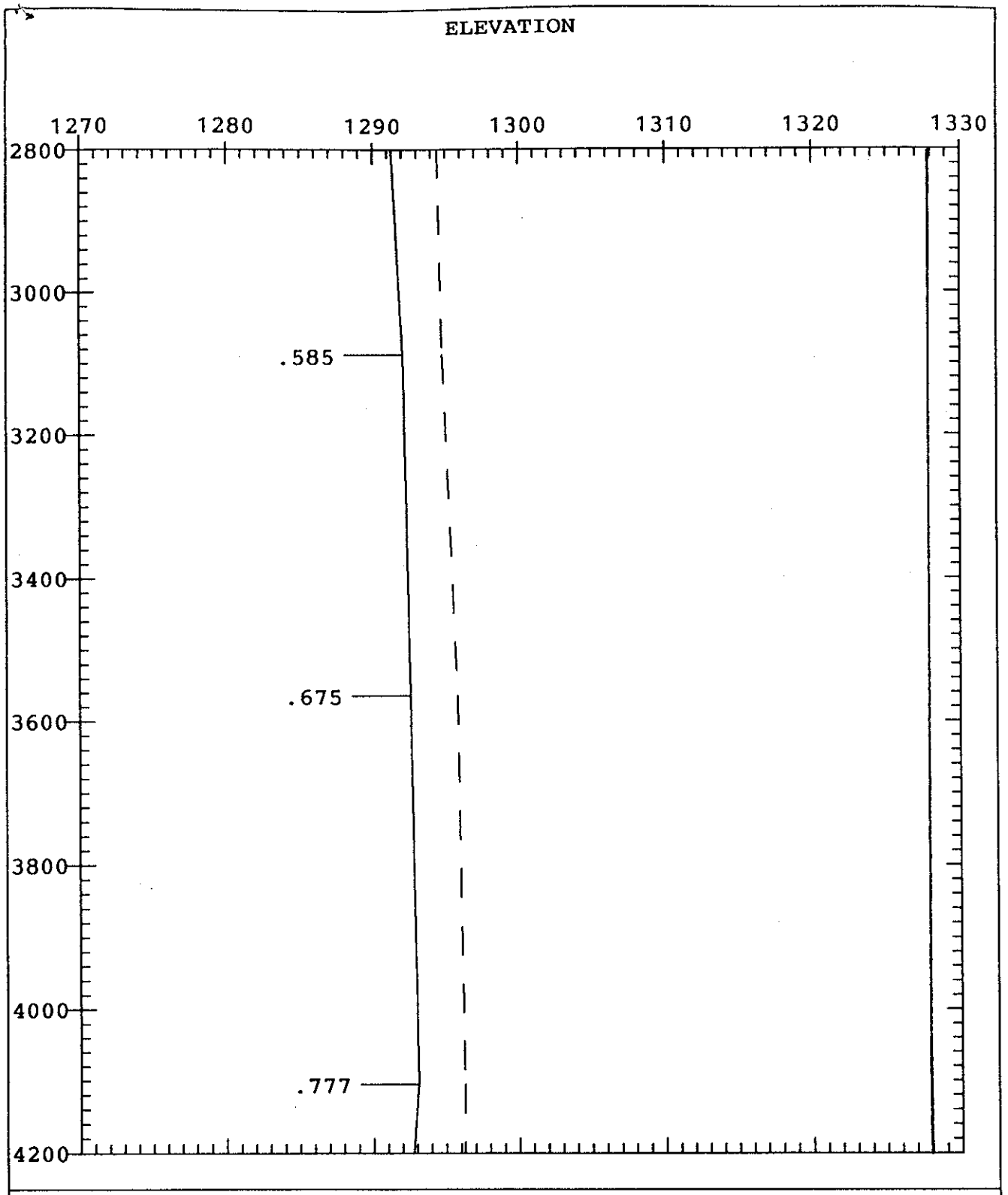
WASH 5C - TRACTOR WASH



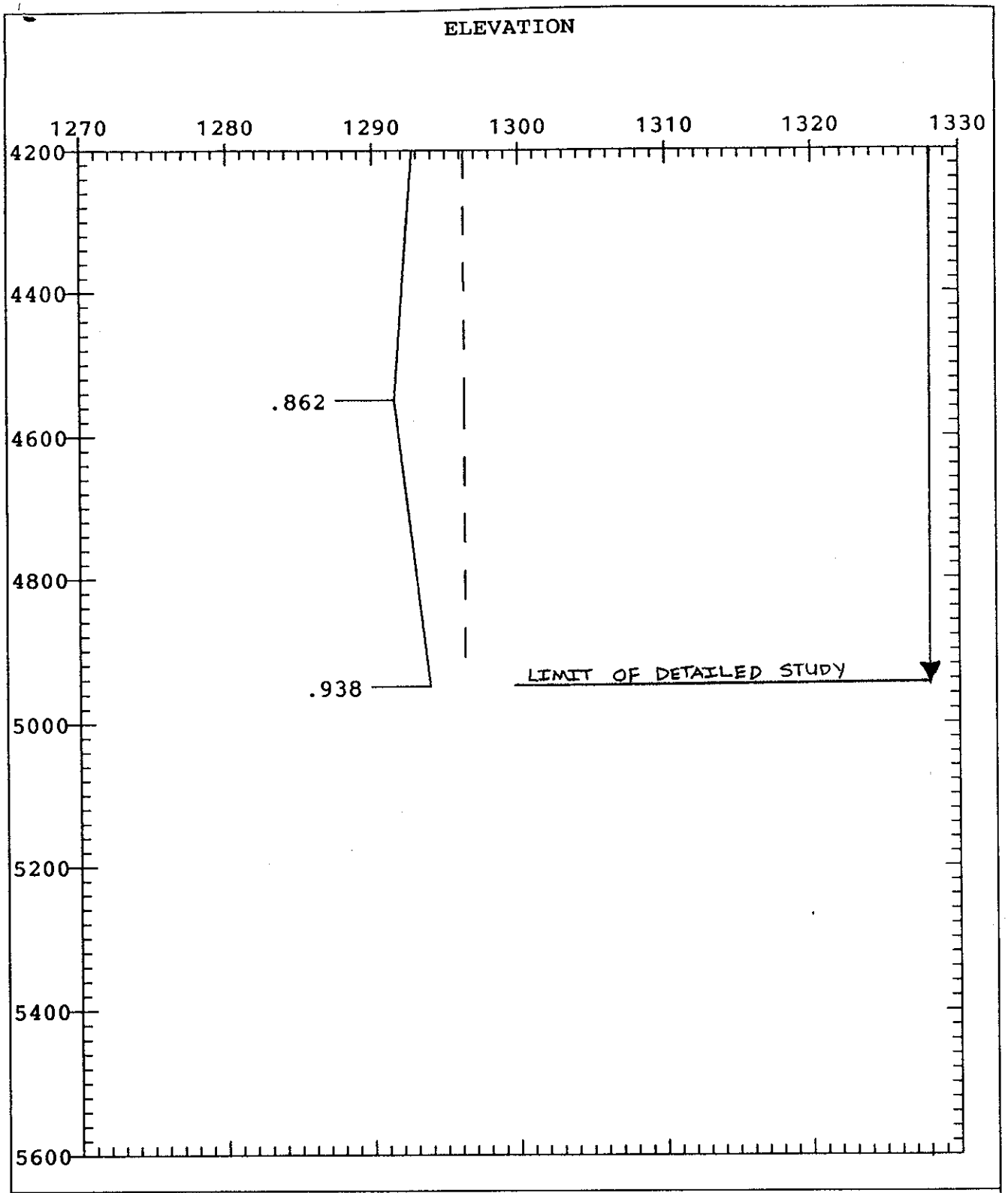
WASH 5D - CATERPILLAR DIKE WASH



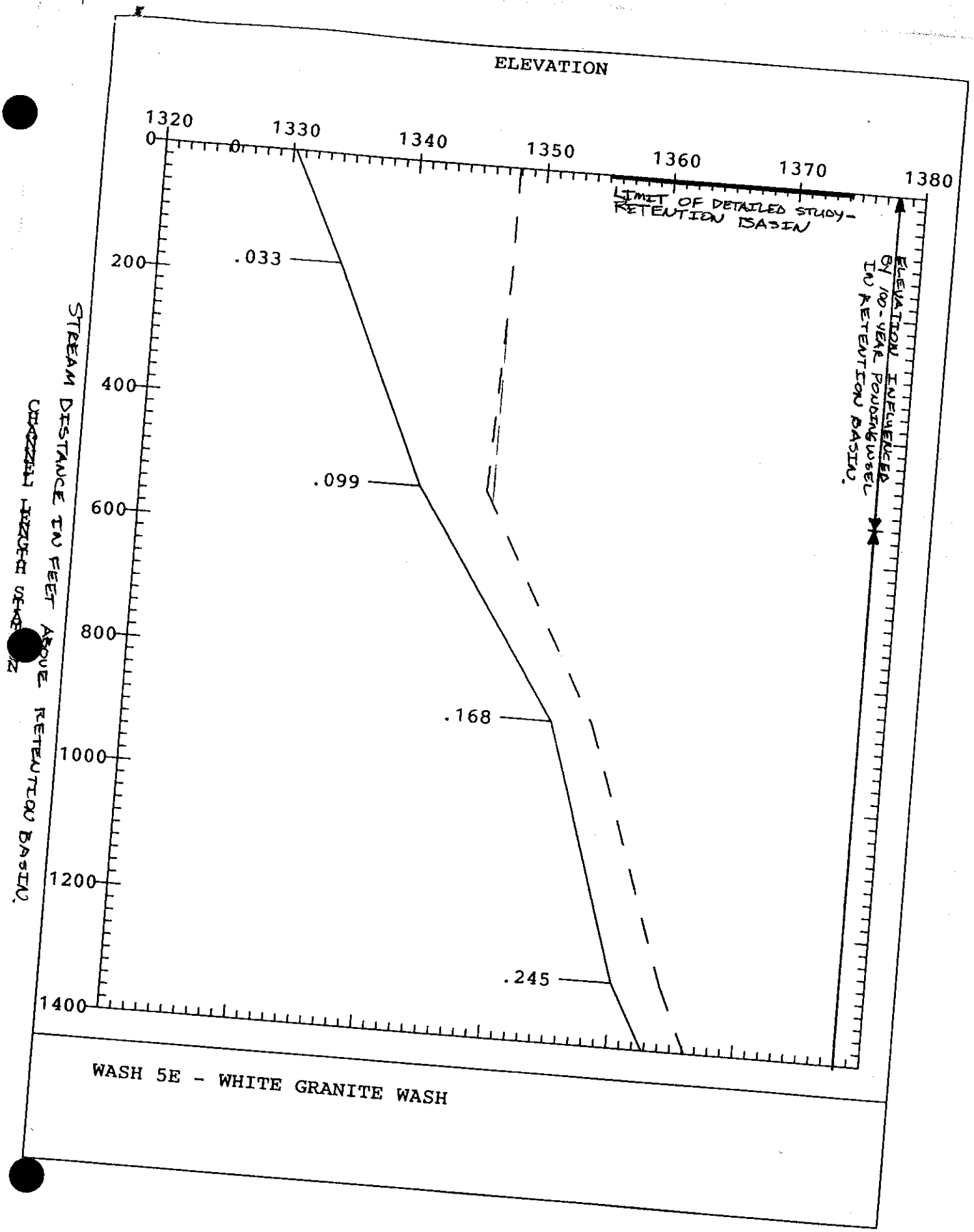
WASH 5D - CATERPILLAR DIKE WASH



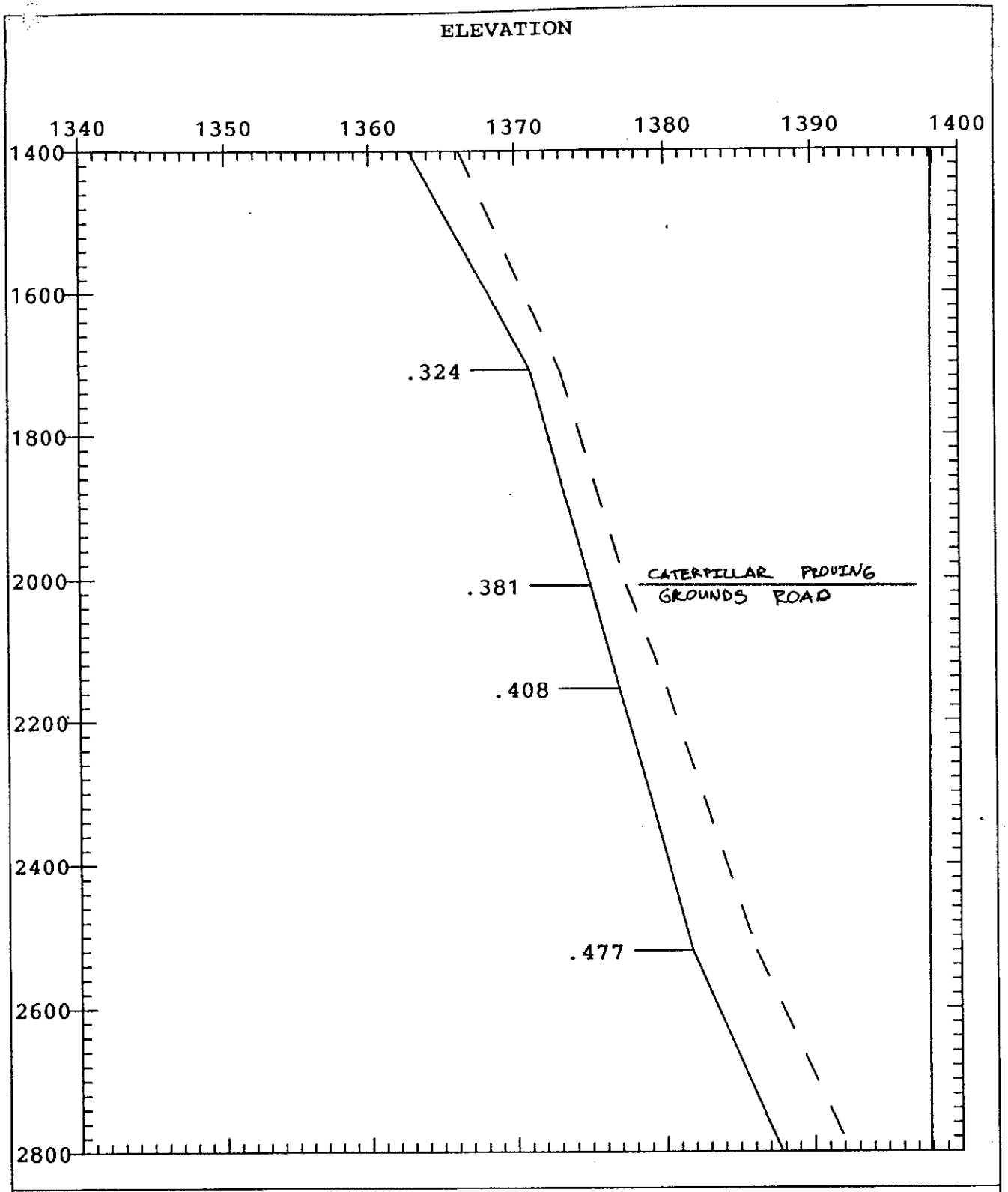
WASH 5D - CATERPILLAR DIKE WASH



WASH 5D - CATERPILLAR DIKE WASH

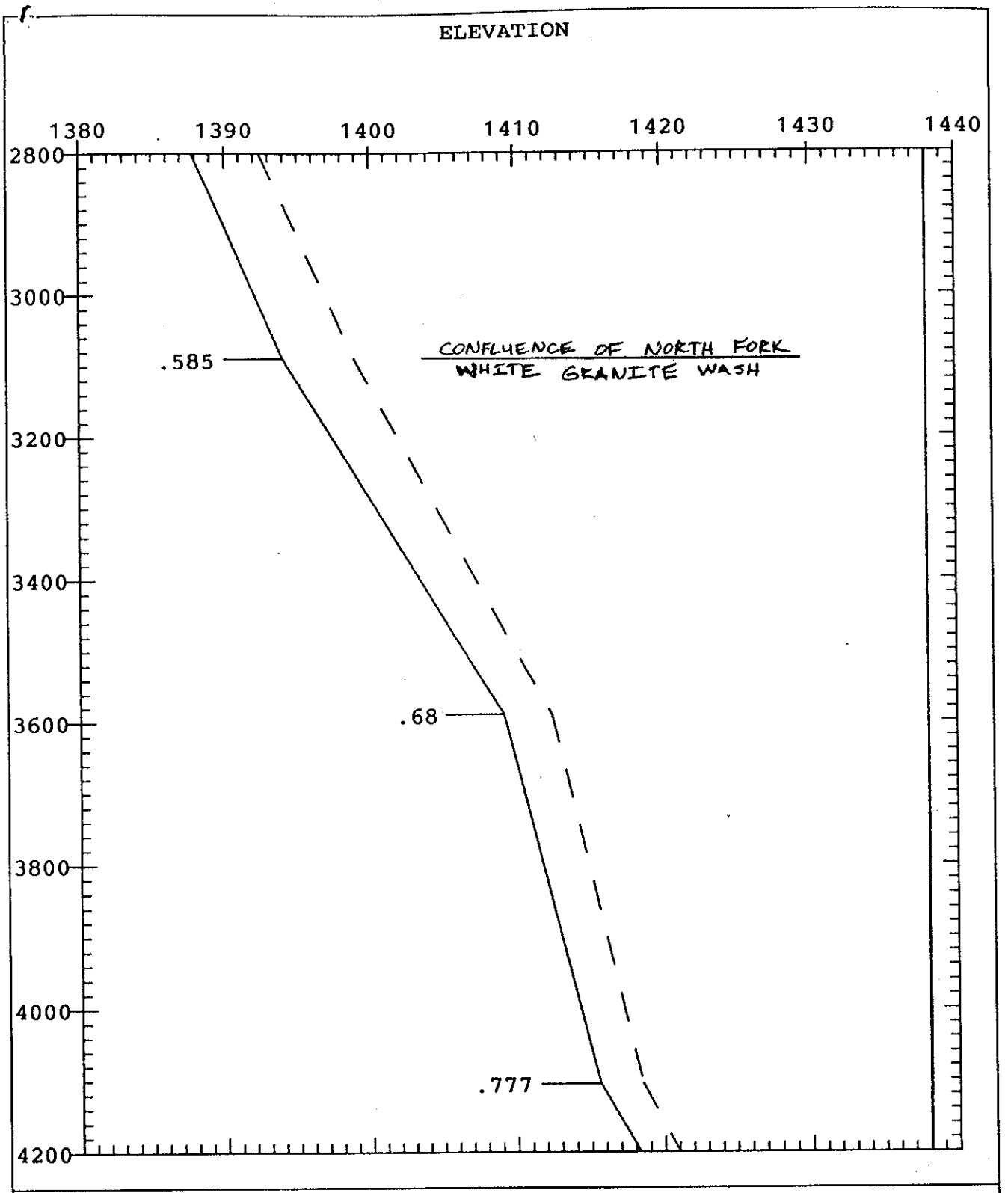


WASH 5E - WHITE GRANITE WASH

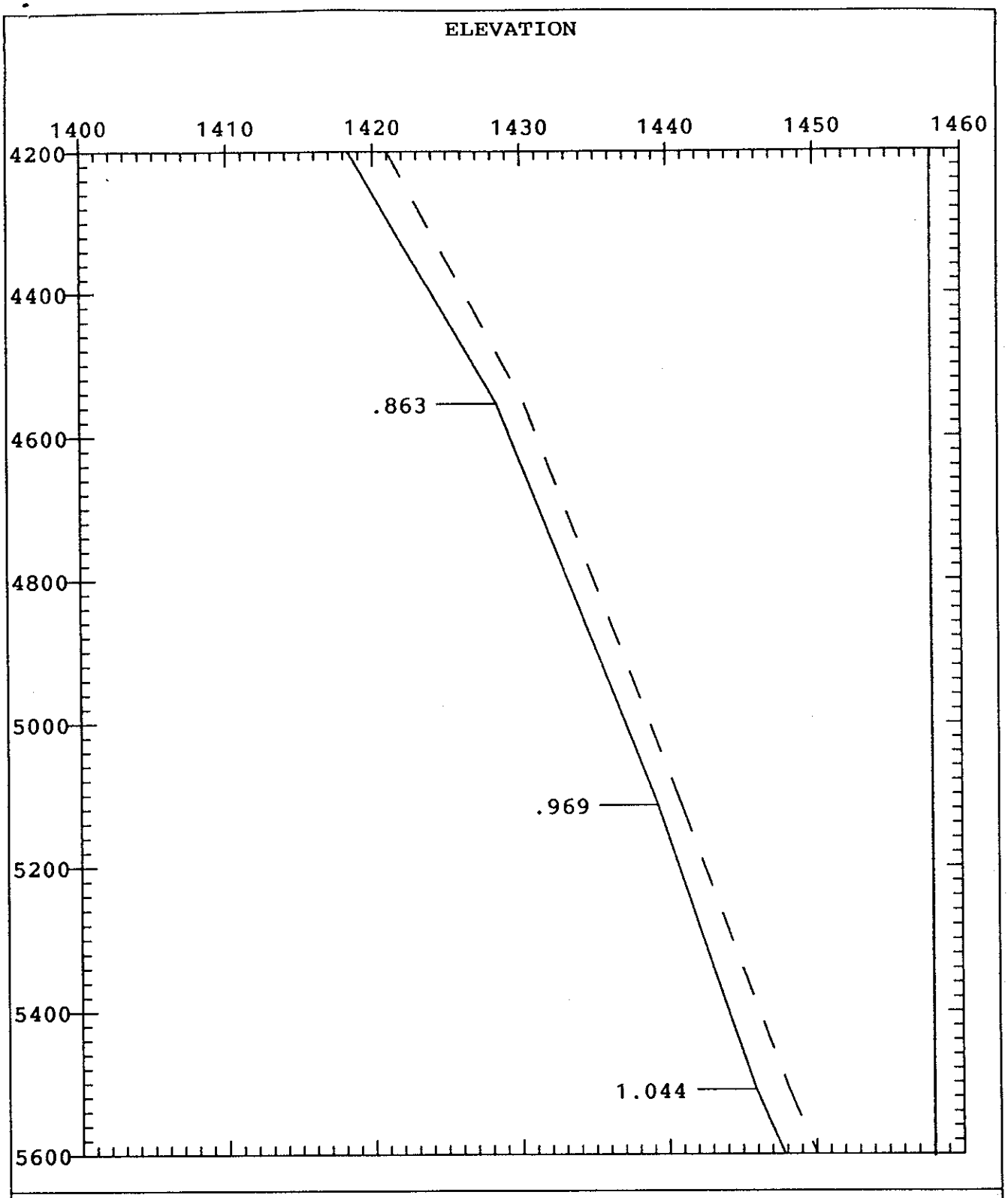


WASH 5E - WHITE GRANITE WASH

ORIGINAL TRACED SECTION

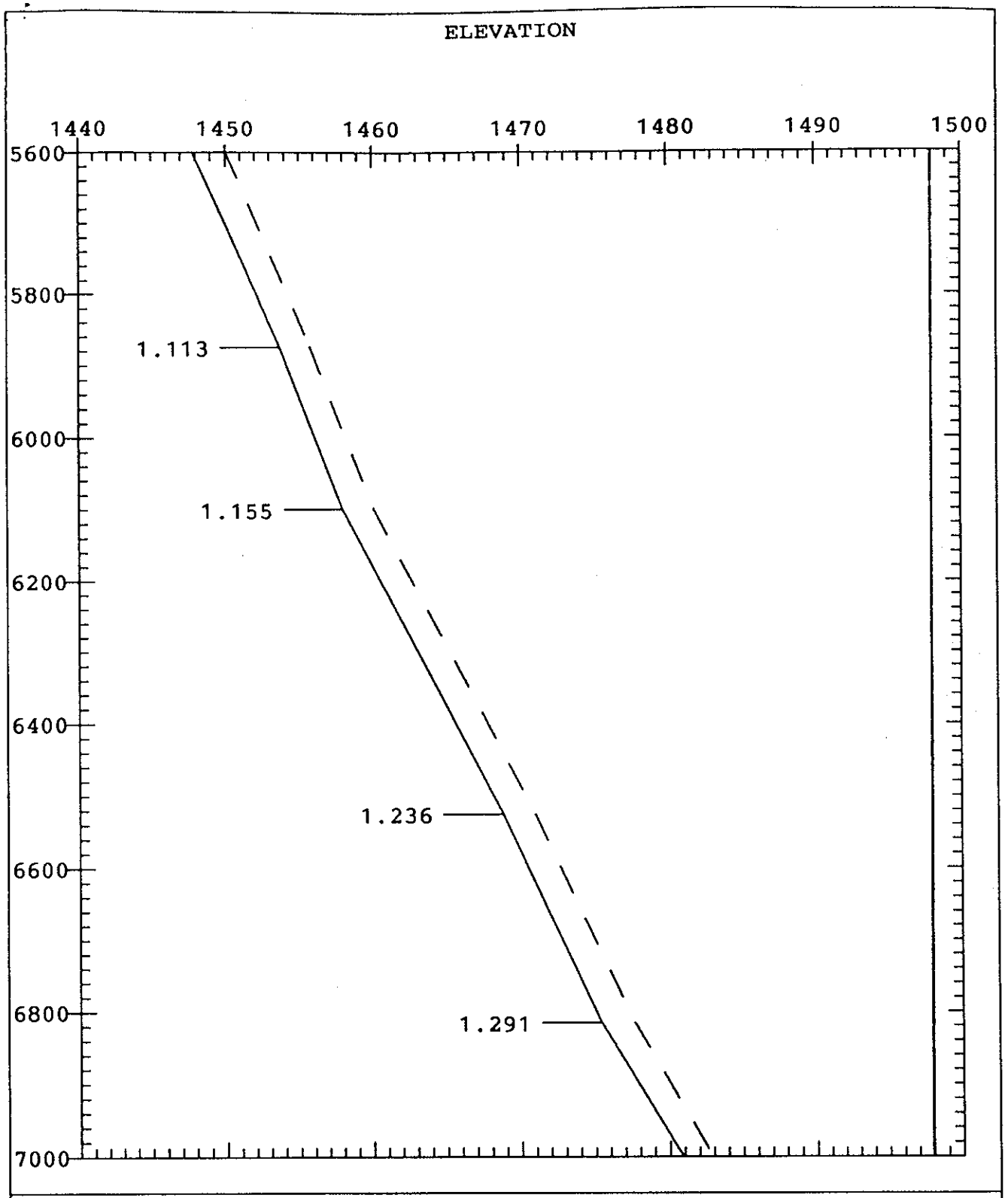


WASH 5E - WHITE GRANITE WASH

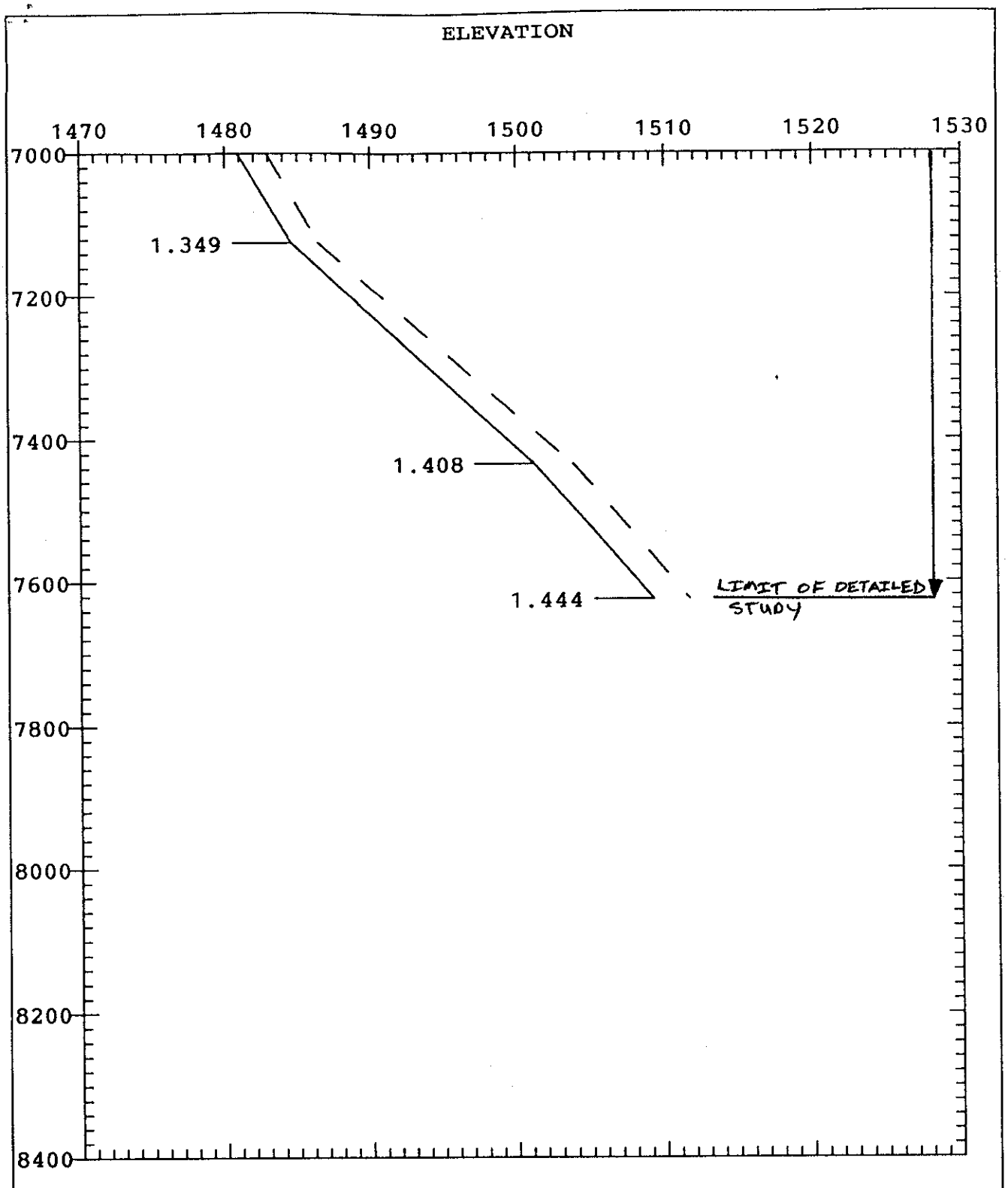


WASH 5E - WHITE GRANITE WASH

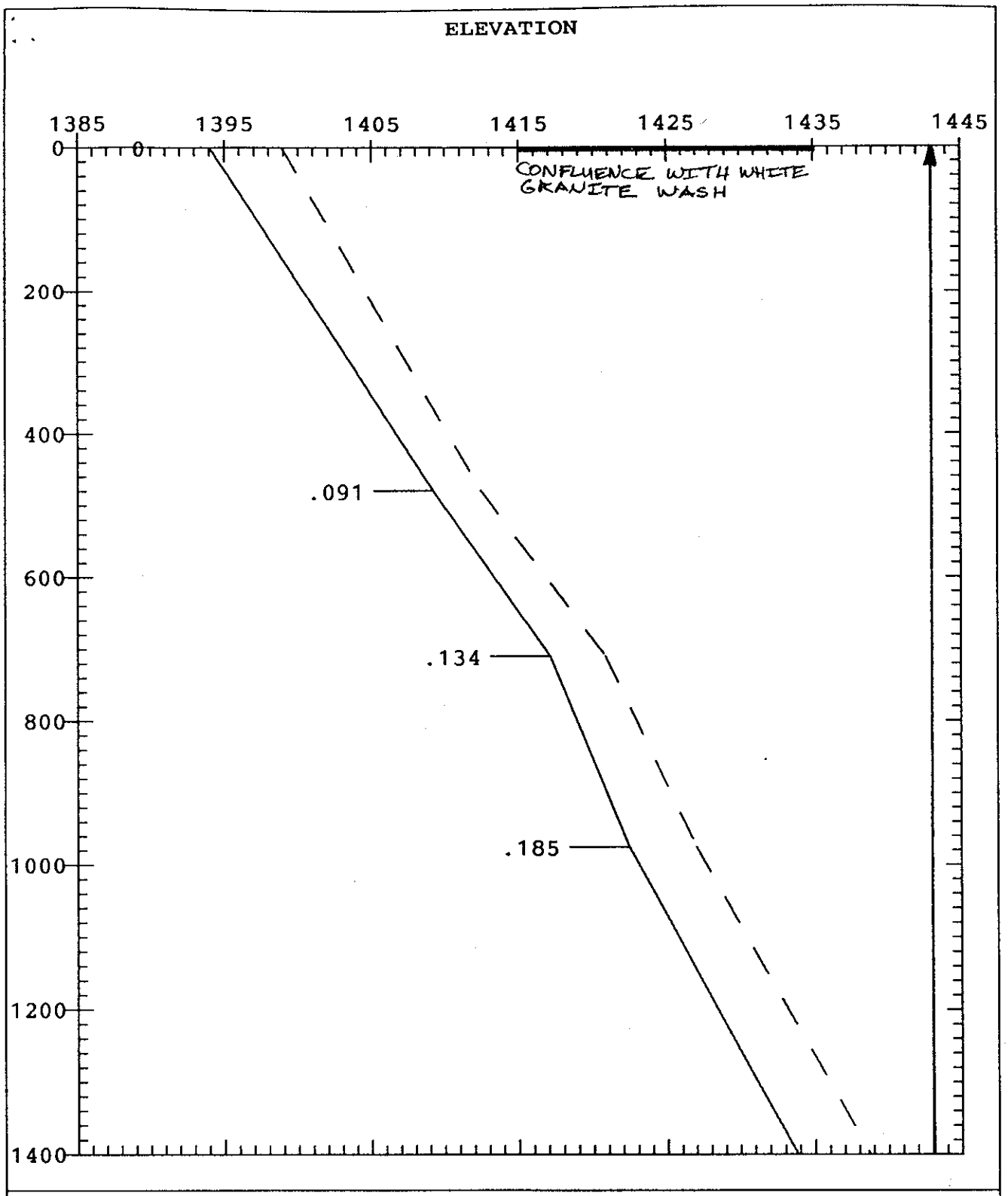
CHANNEL LENGTH SECTION



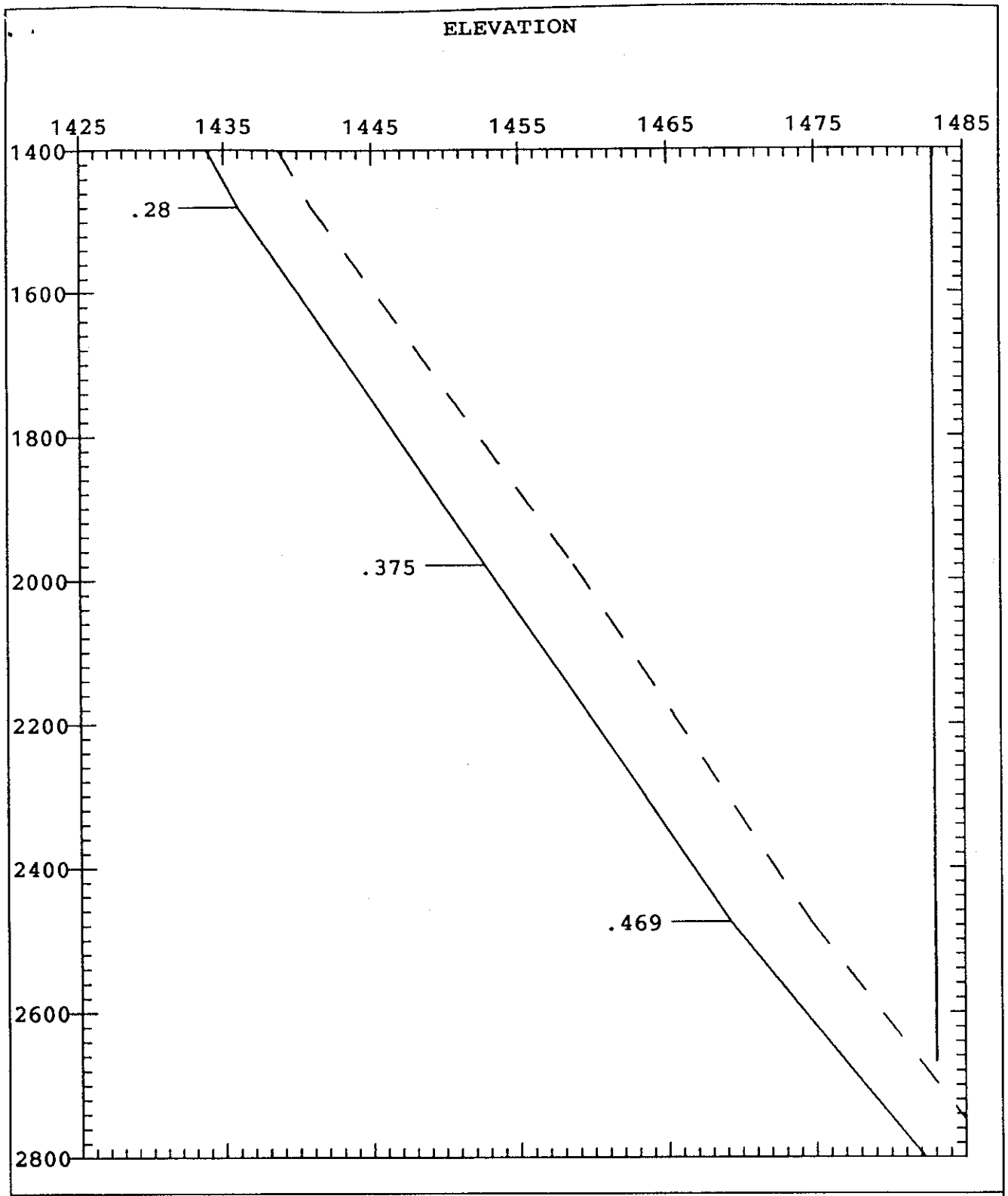
WASH 5E - WHITE GRANITE WASH



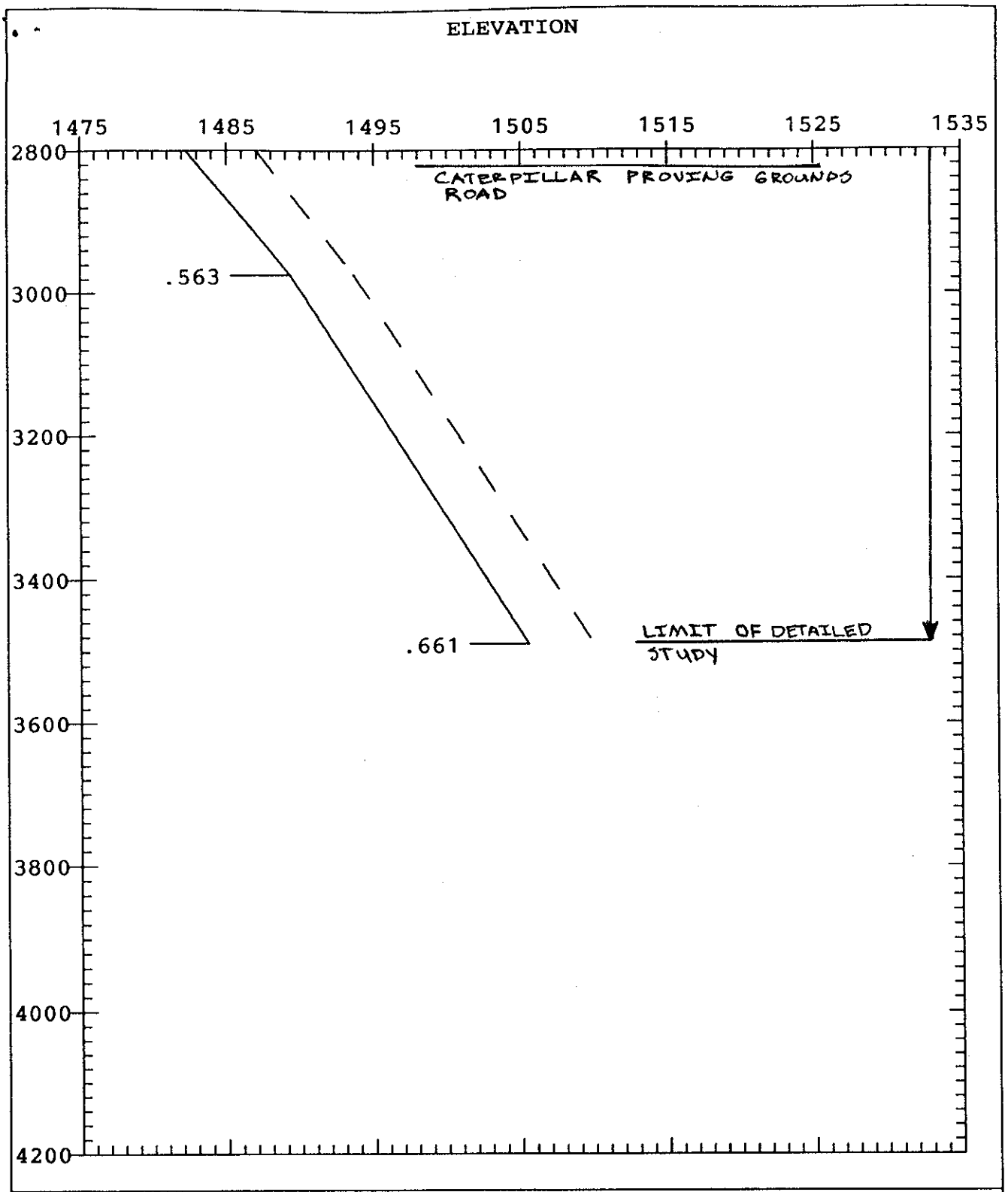
WASH 5E - WHITE GRANITE WASH



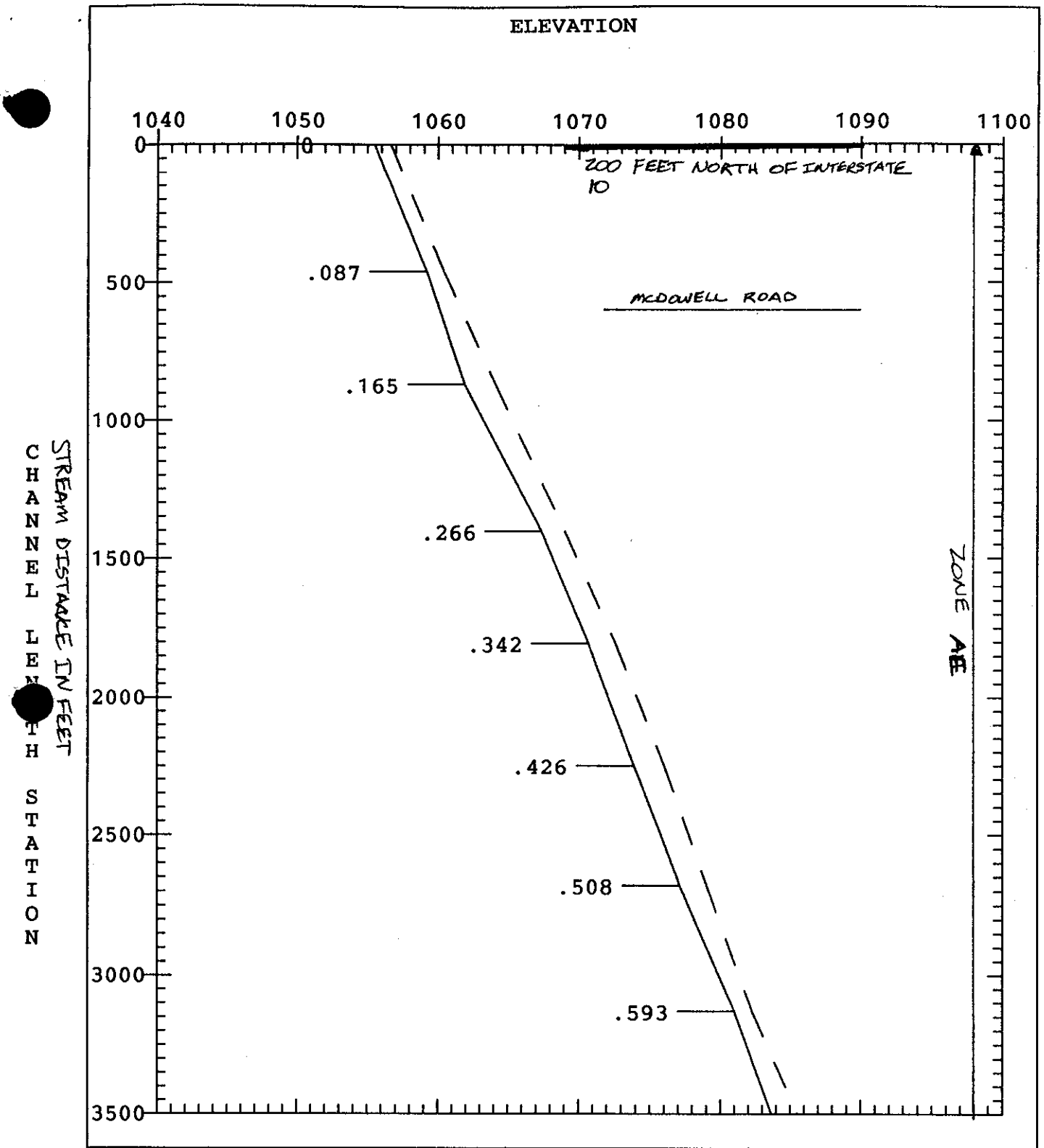
WASH 5E1 - NORTH FORK WHITE GRANITE WASH



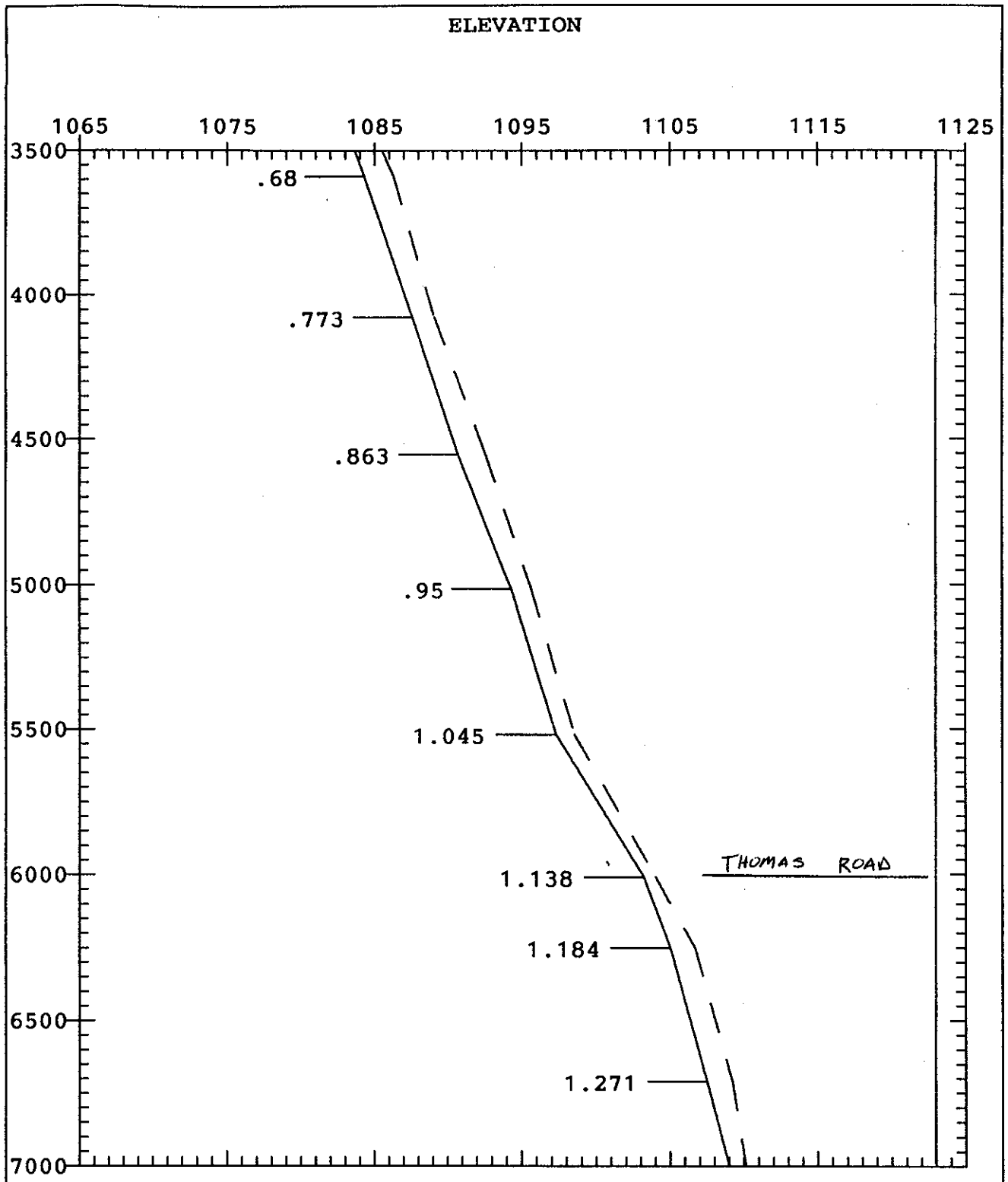
WASH 5E1 - NORTH FORK WHITE GRANITE WASH



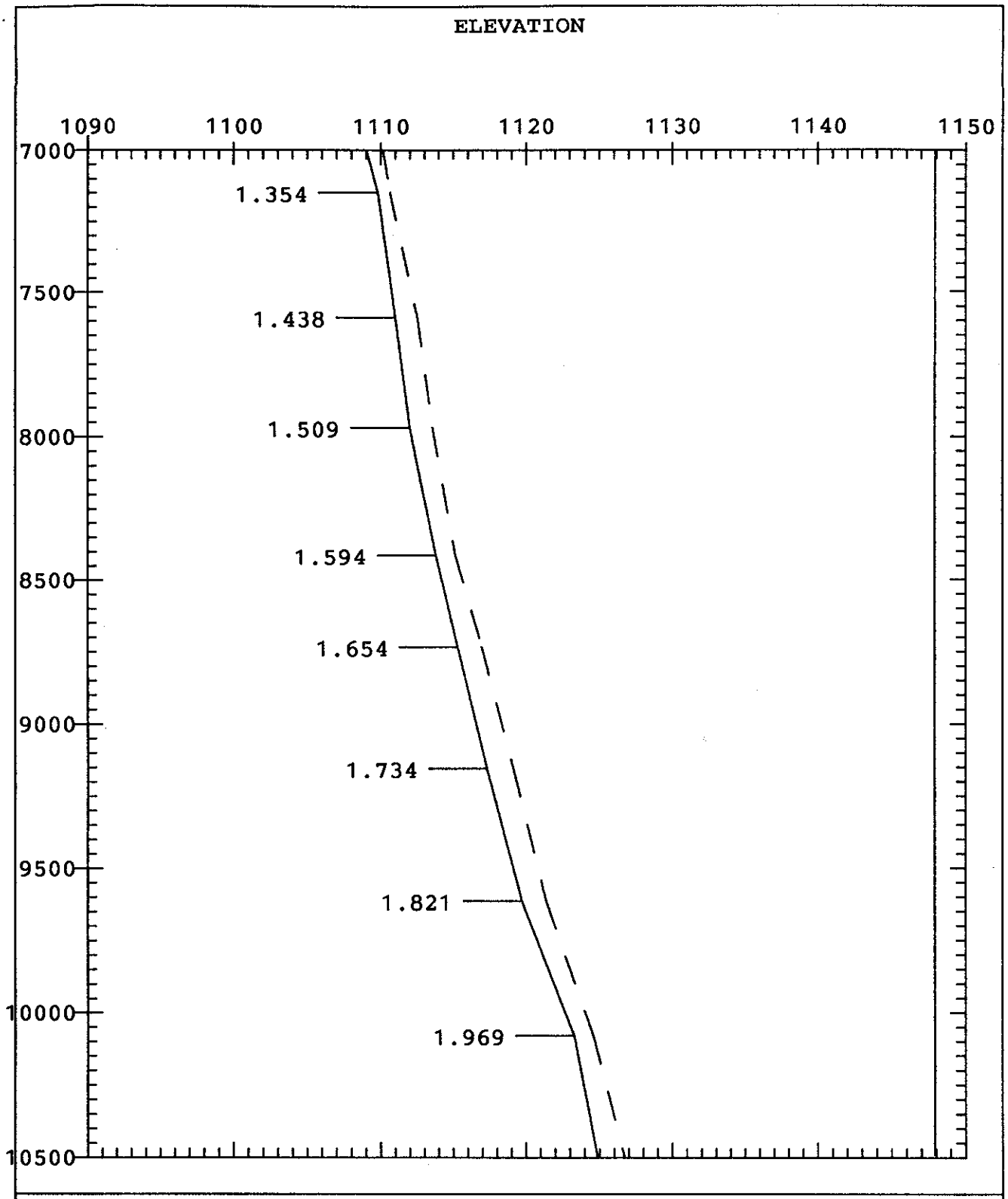
WASH 5E1 - NORTH FORK WHITE GRANITE WASH



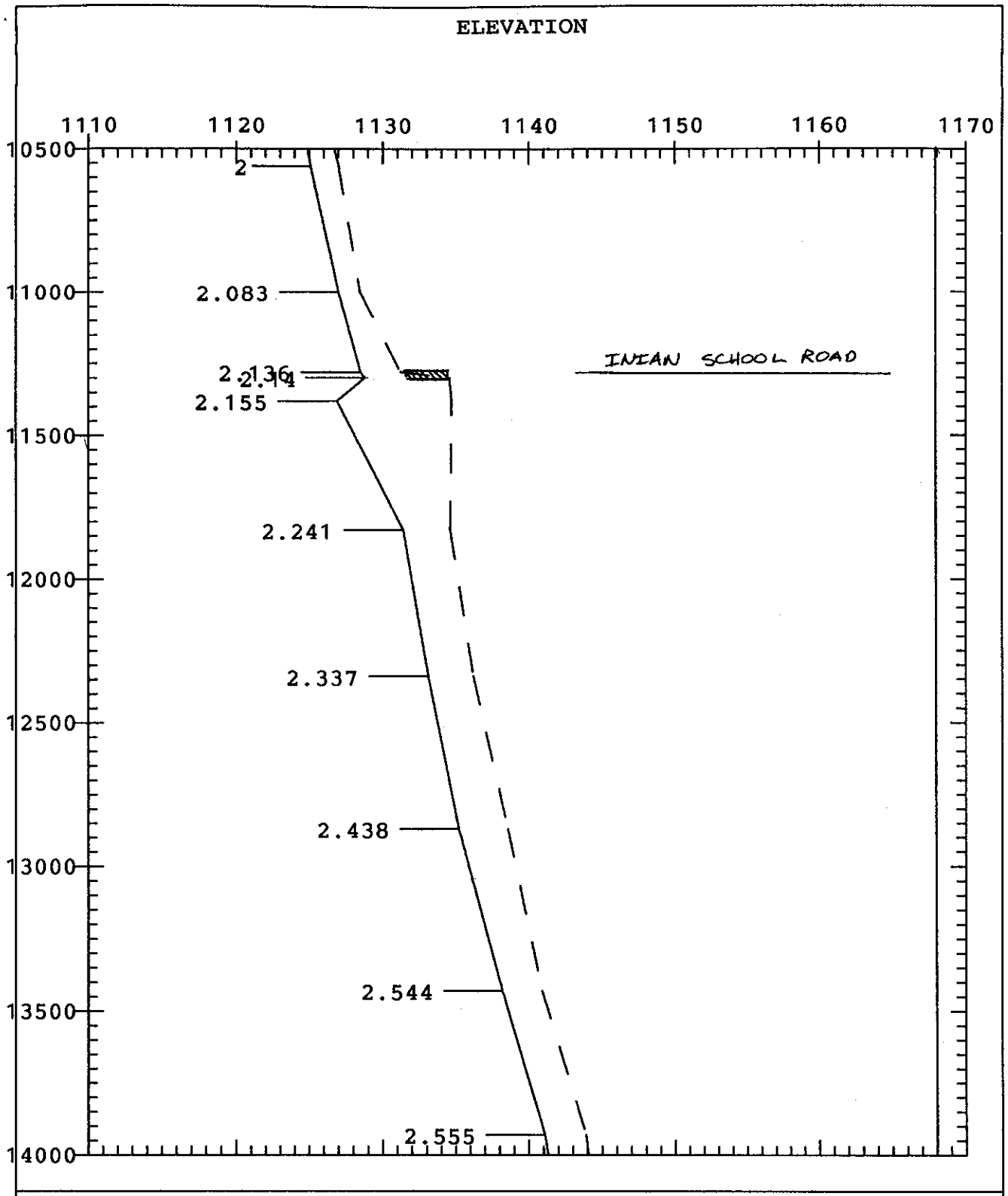
WASH 6 - 191ST AVENUE WASH



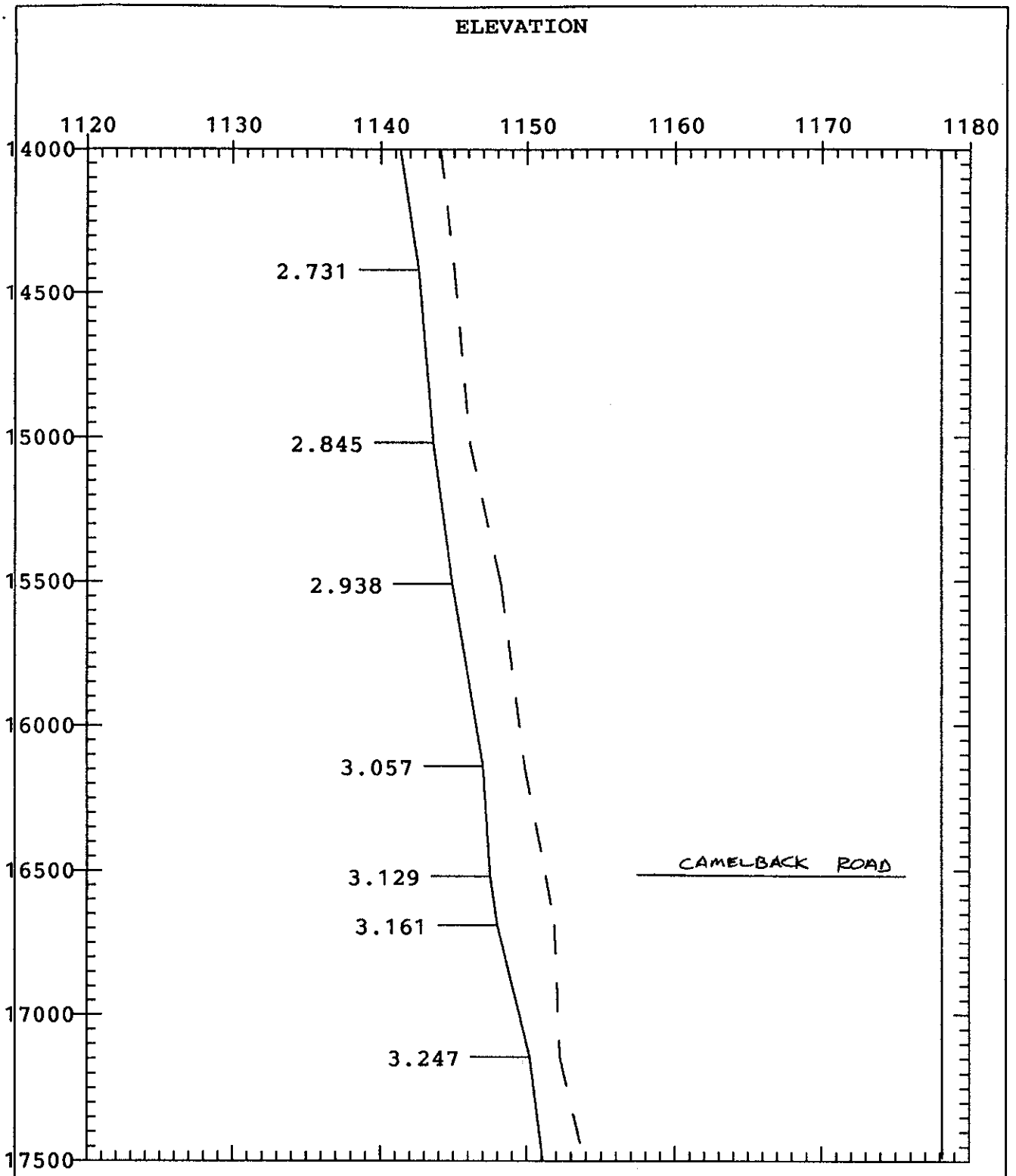
WASH 6 - 191ST AVENUE WASH



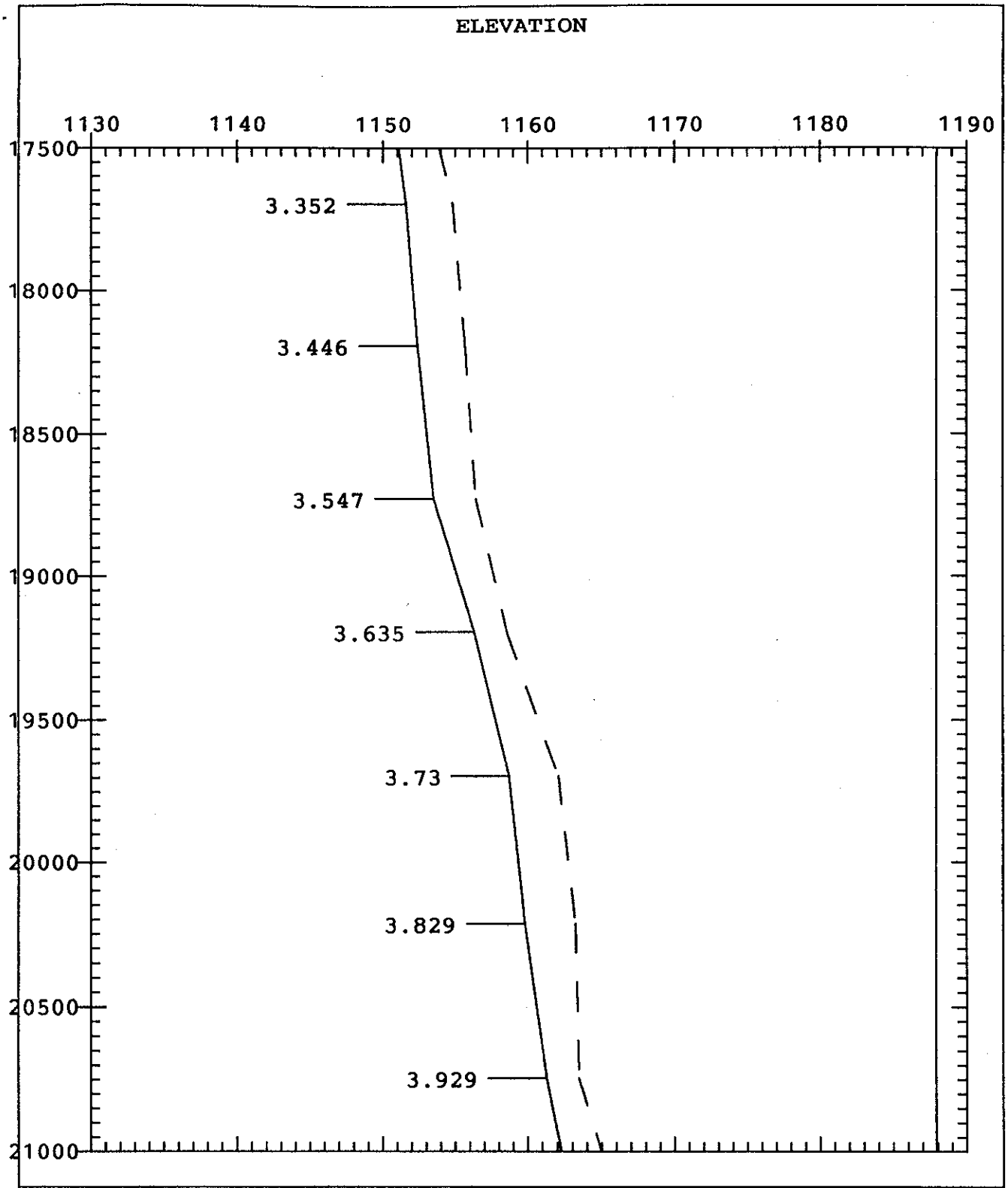
WASH 6 - 191ST AVENUE WASH



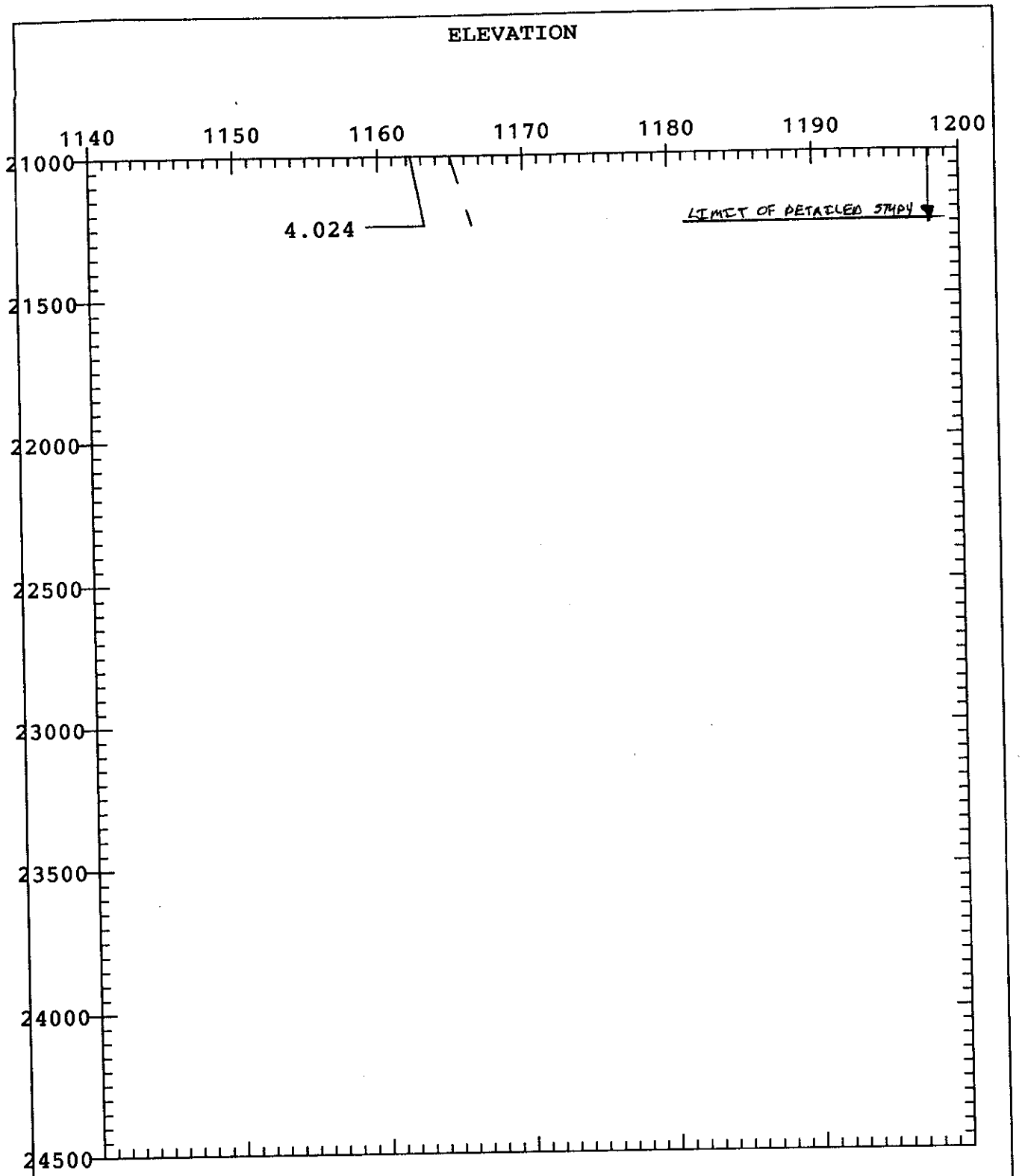
WASH 6 - 191ST AVENUE WASH



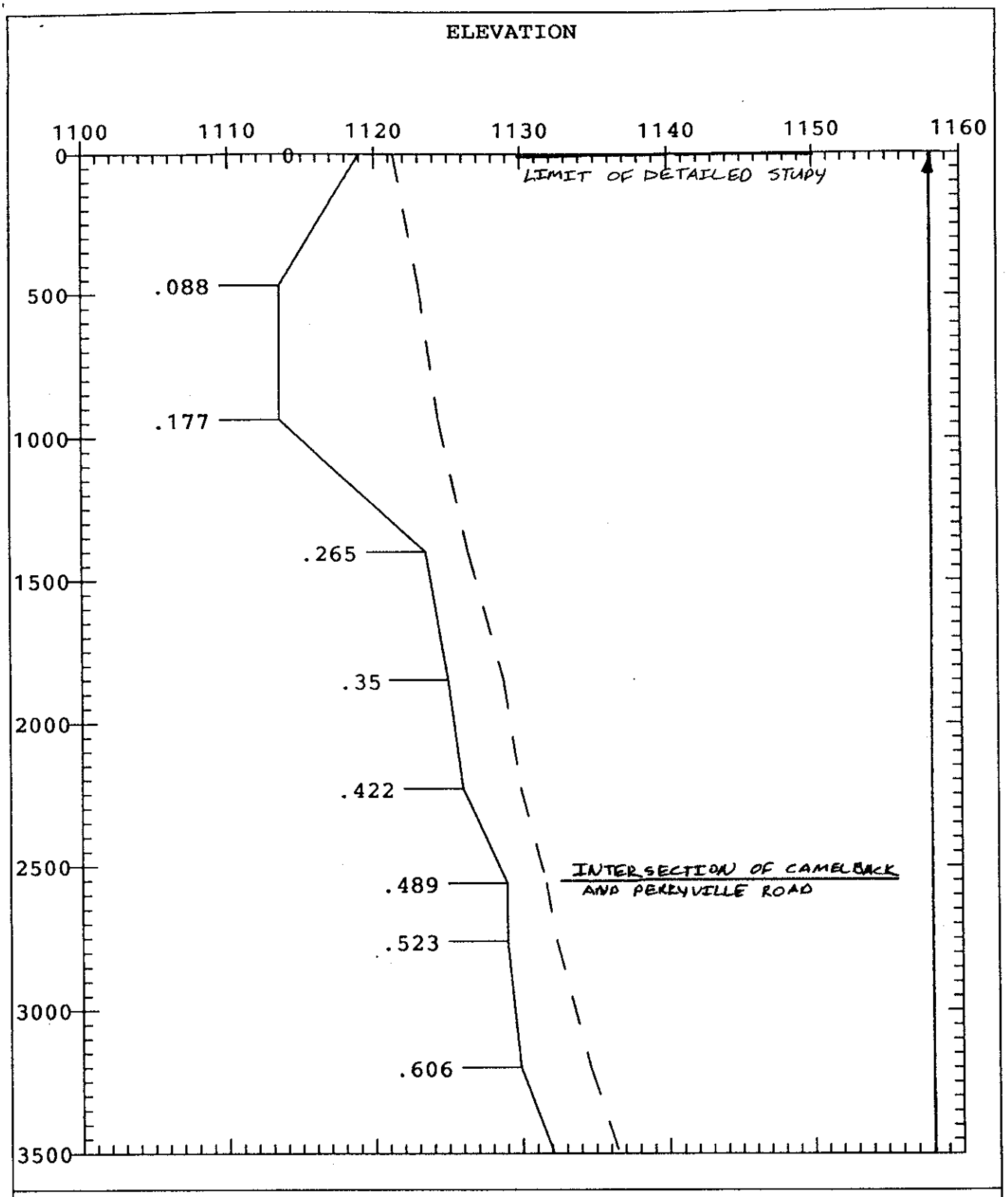
WASH 6 - 191ST AVENUE WASH



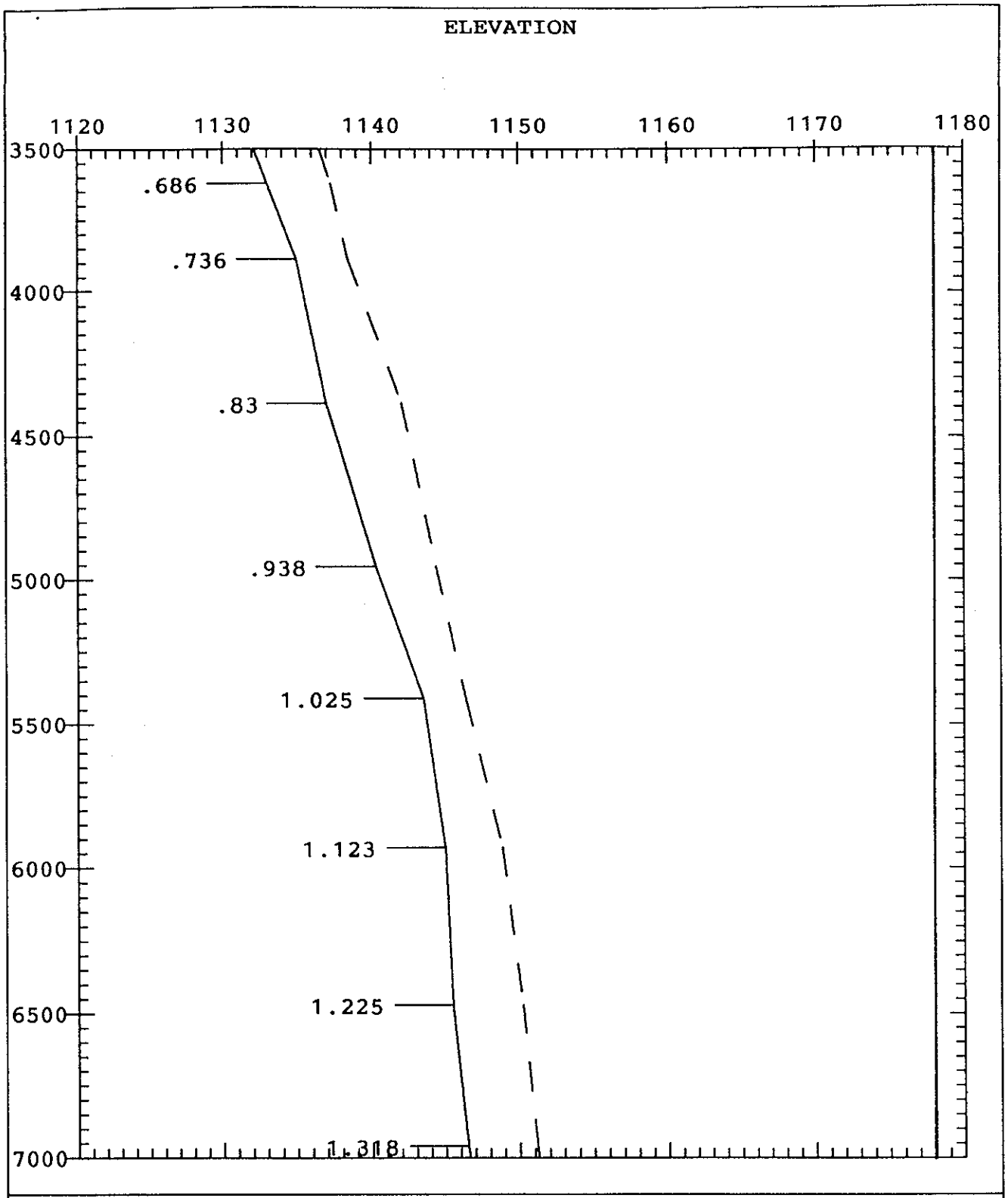
WASH 6 - 191ST AVENUE WASH



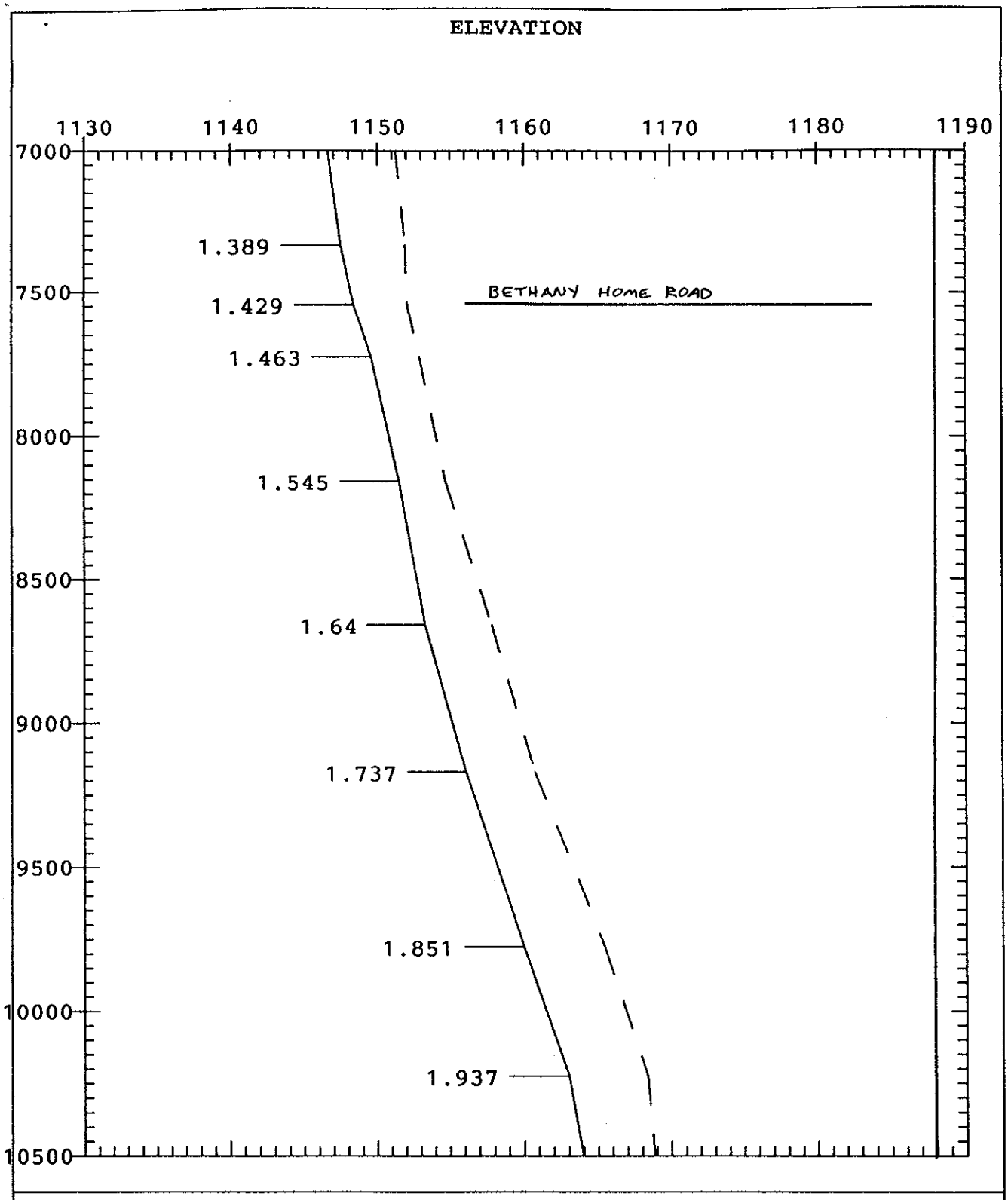
WASH 6 - 191ST AVENUE WASH



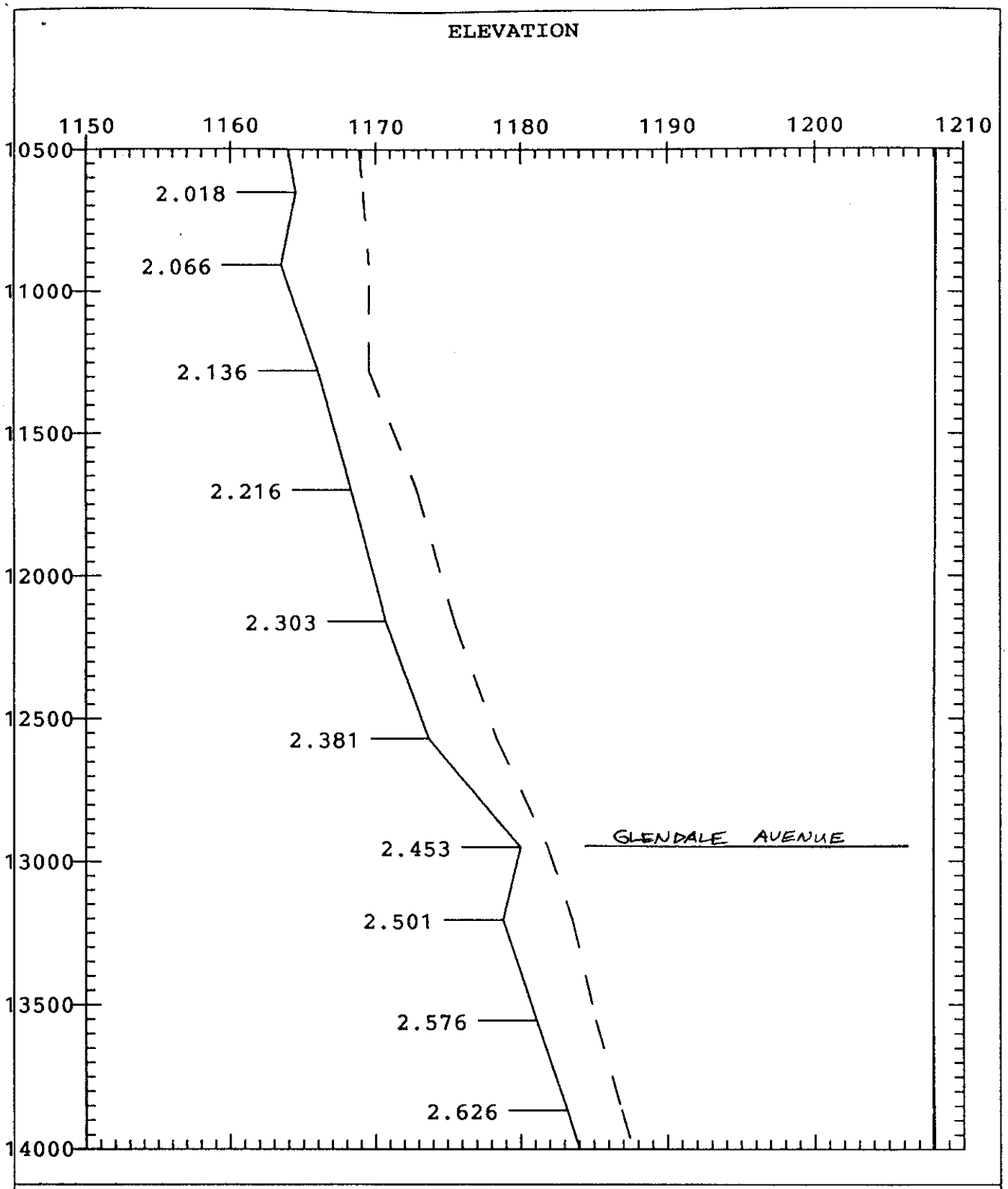
WASH 7 - PERRYVILLE ROAD WASH



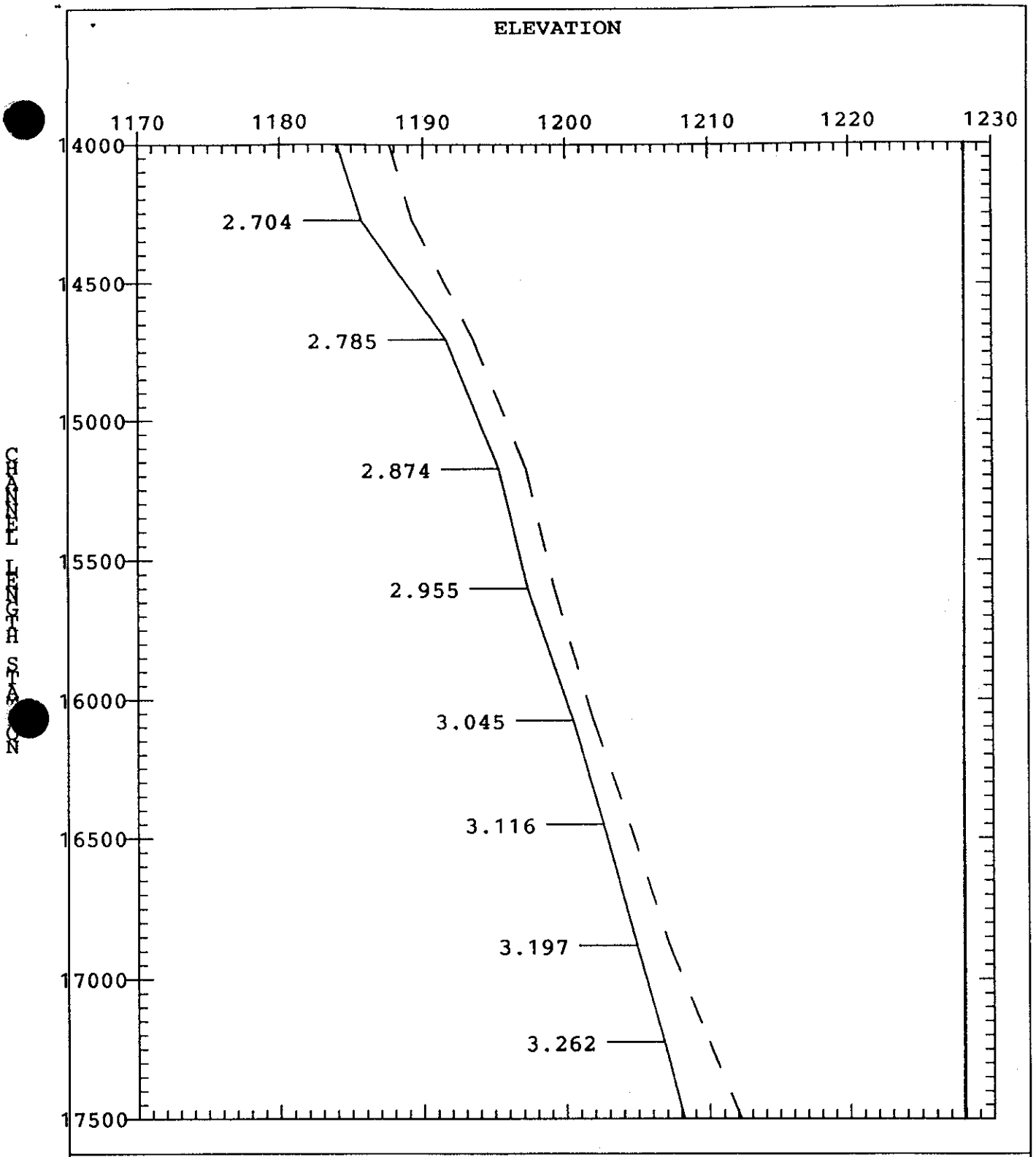
WASH 7 - PERRYVILLE ROAD WASH



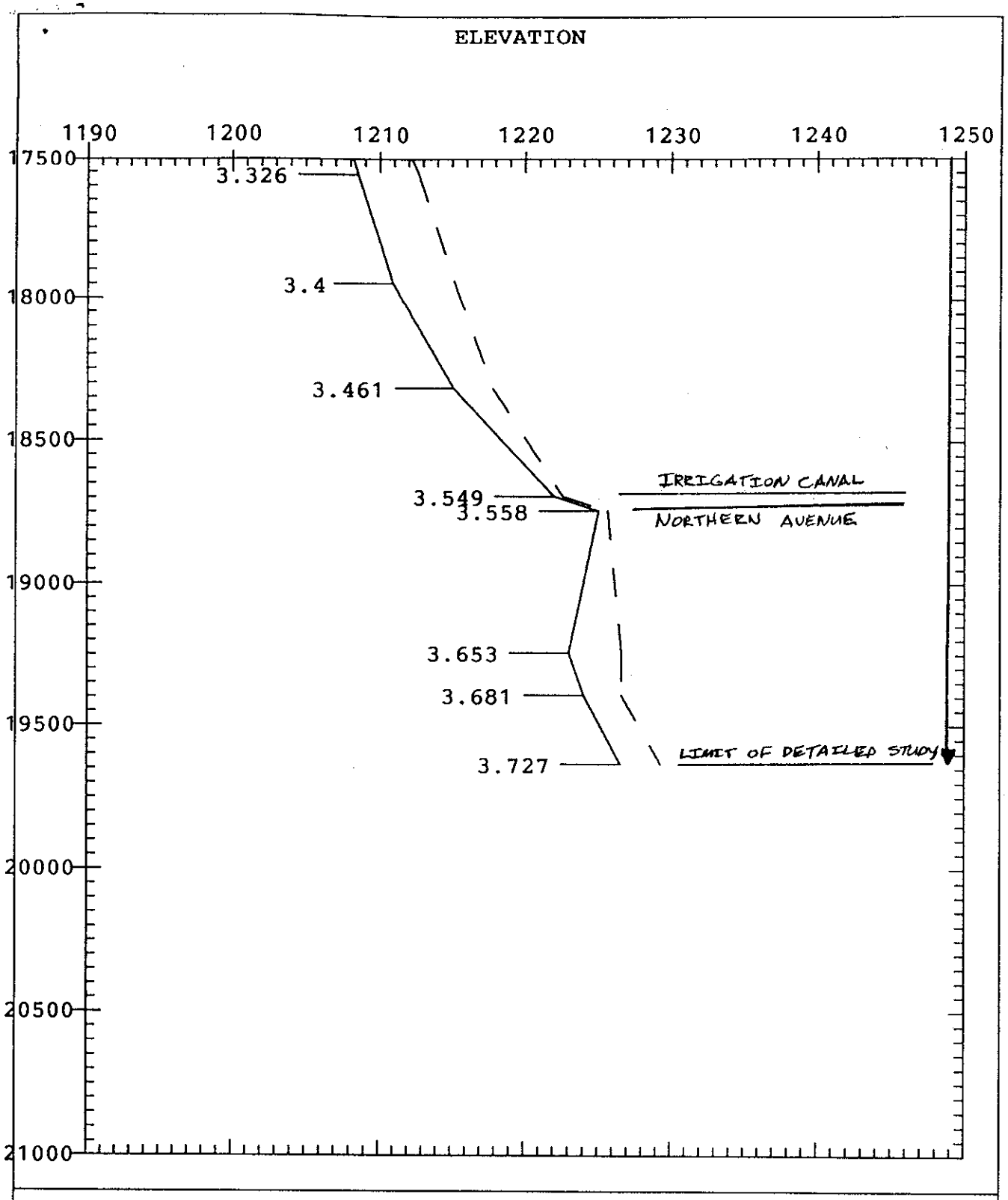
WASH 7 - PERRYVILLE ROAD WASH



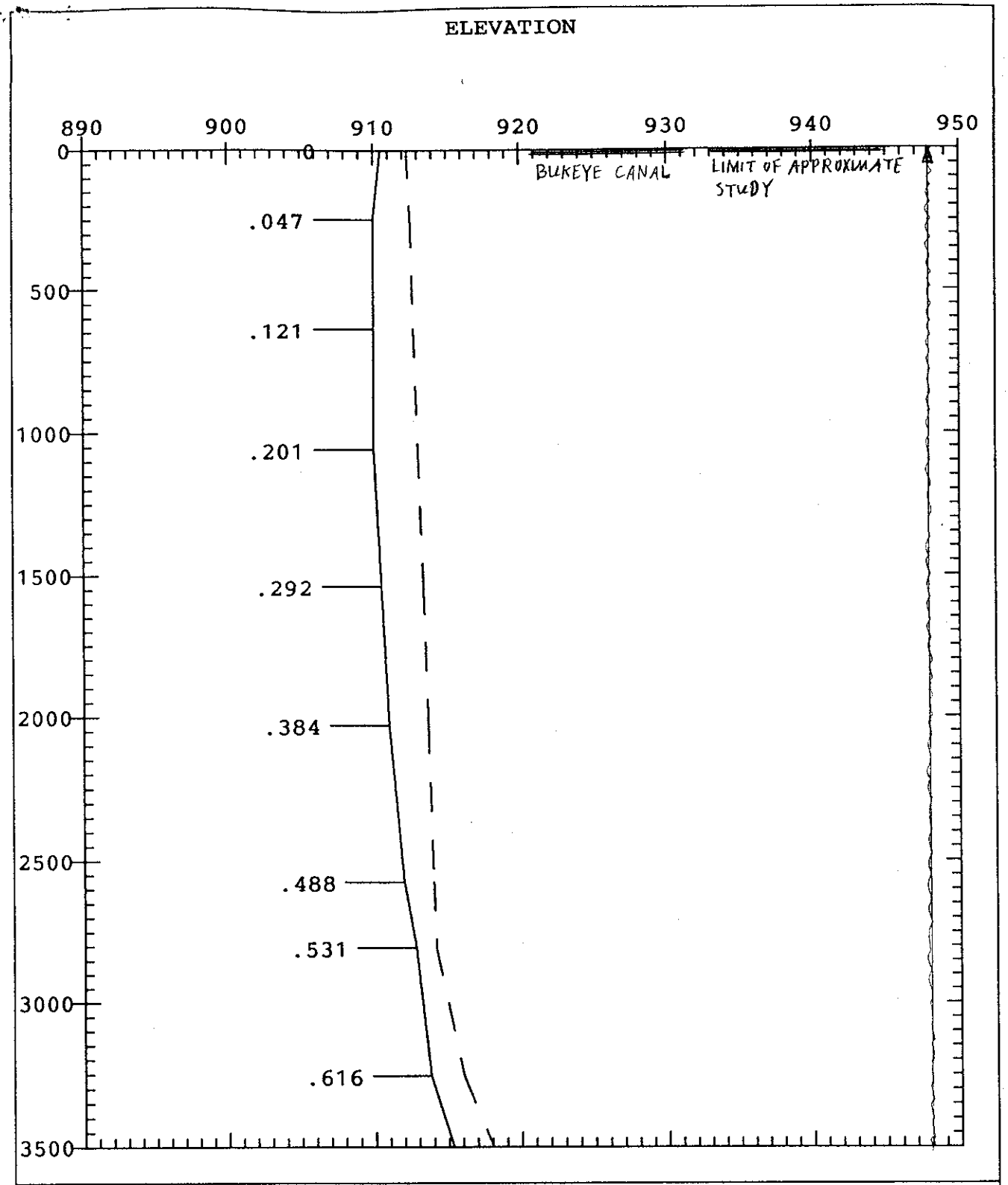
WASH 7 - PERRYVILLE ROAD WASH



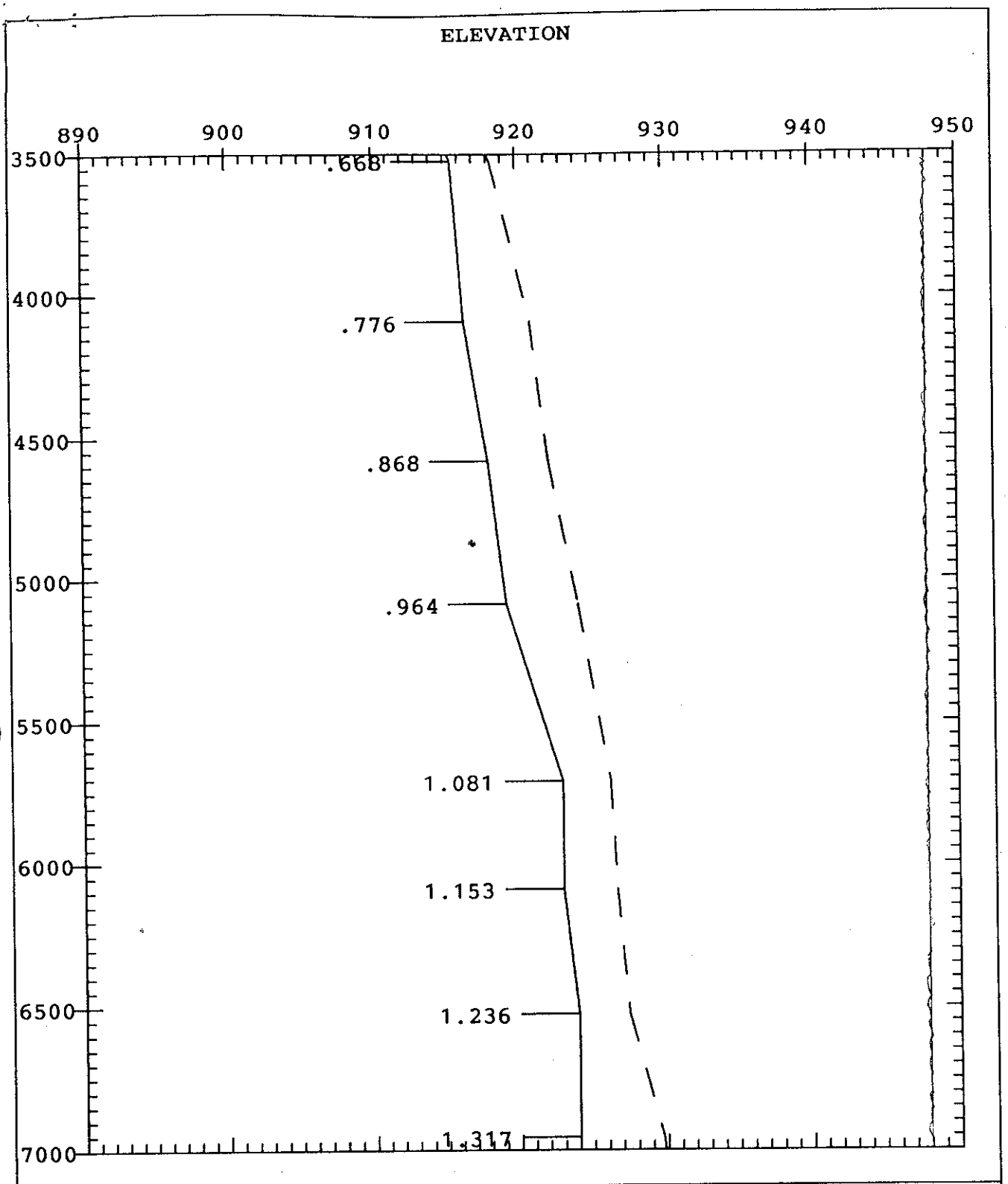
WASH 7 - PERRYVILLE ROAD WASH



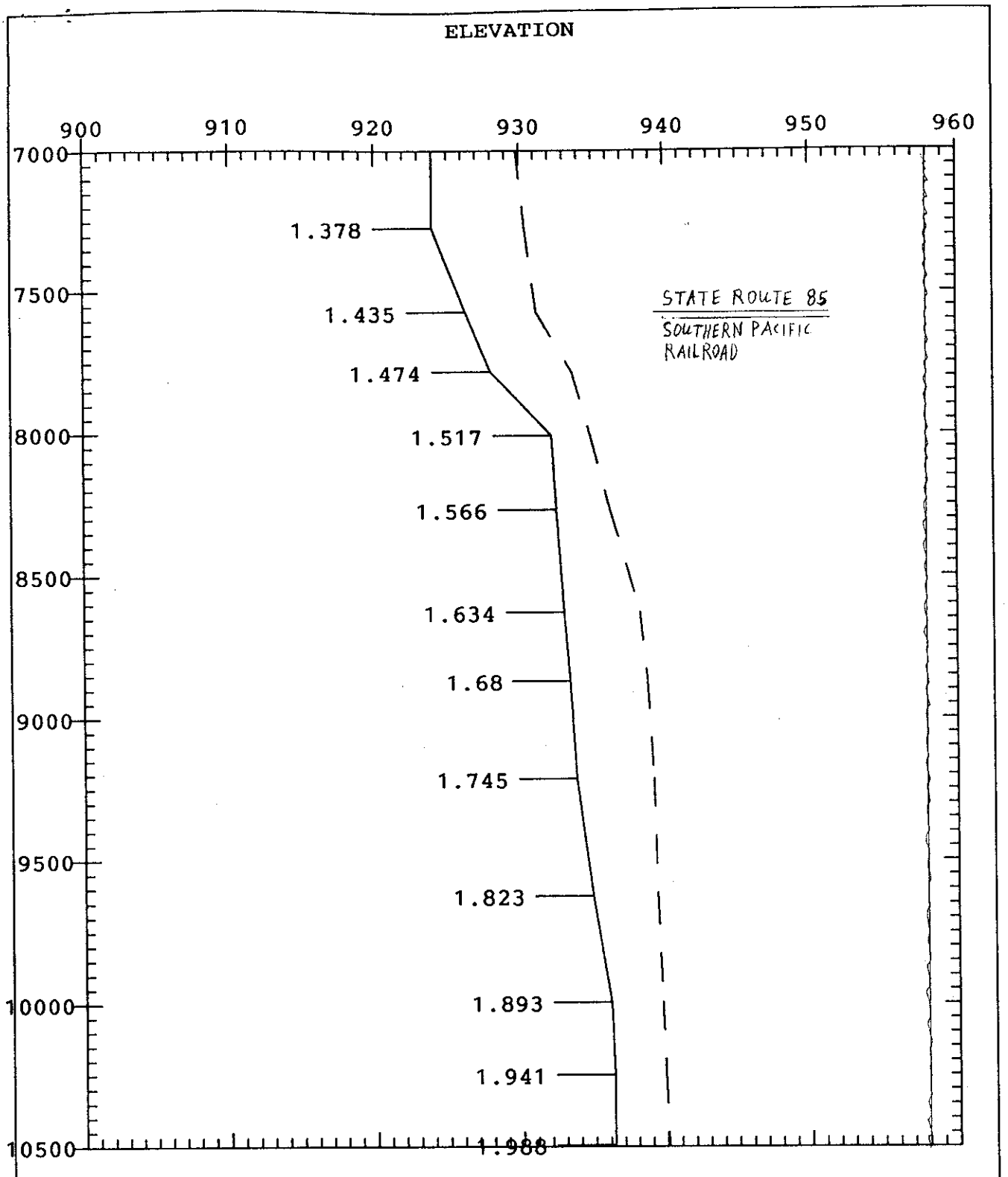
WASH 7 - PERRYVILLE ROAD WASH



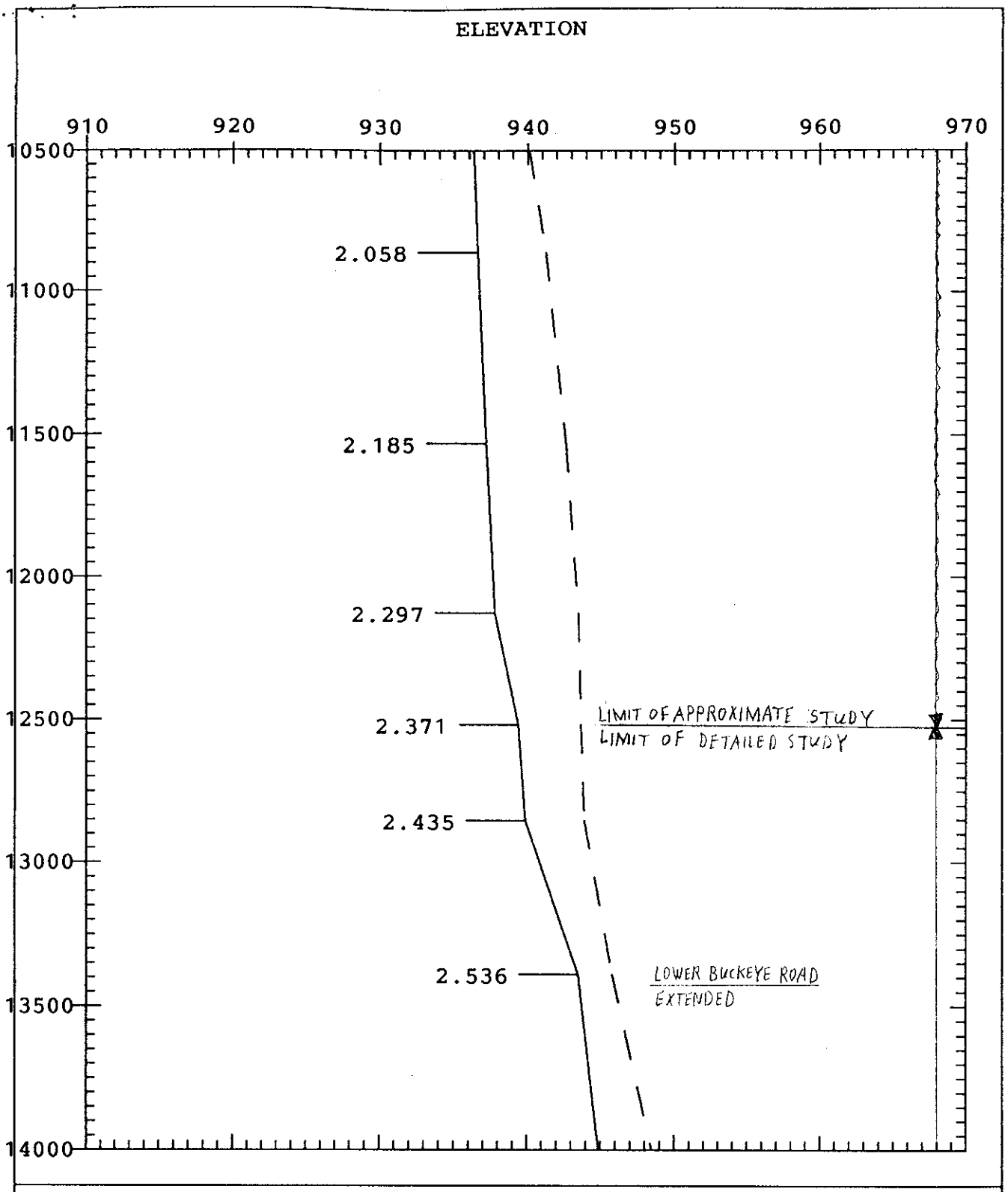
WASH 10 - BULLARD WASH



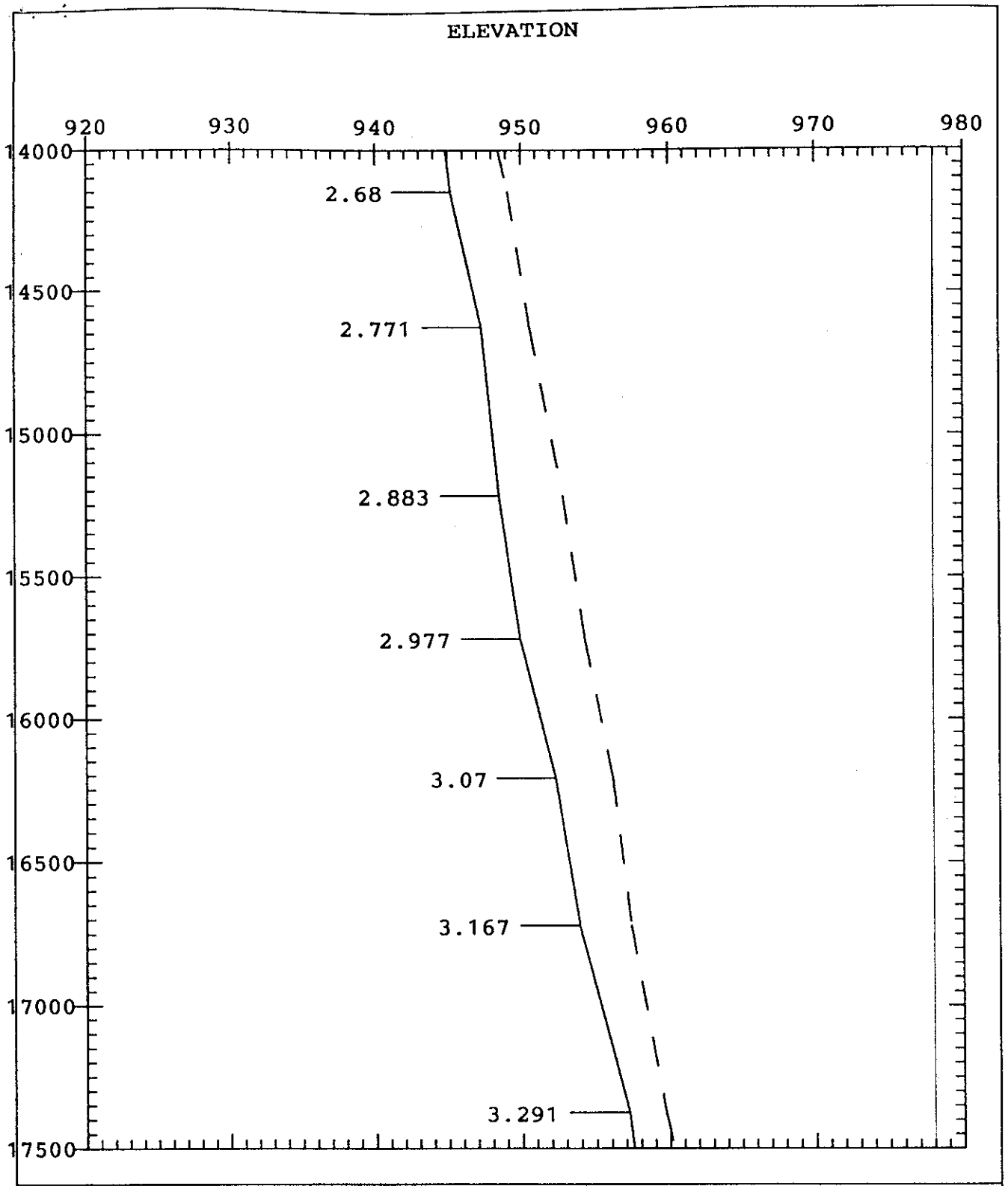
WASH 10 - BULLARD WASH



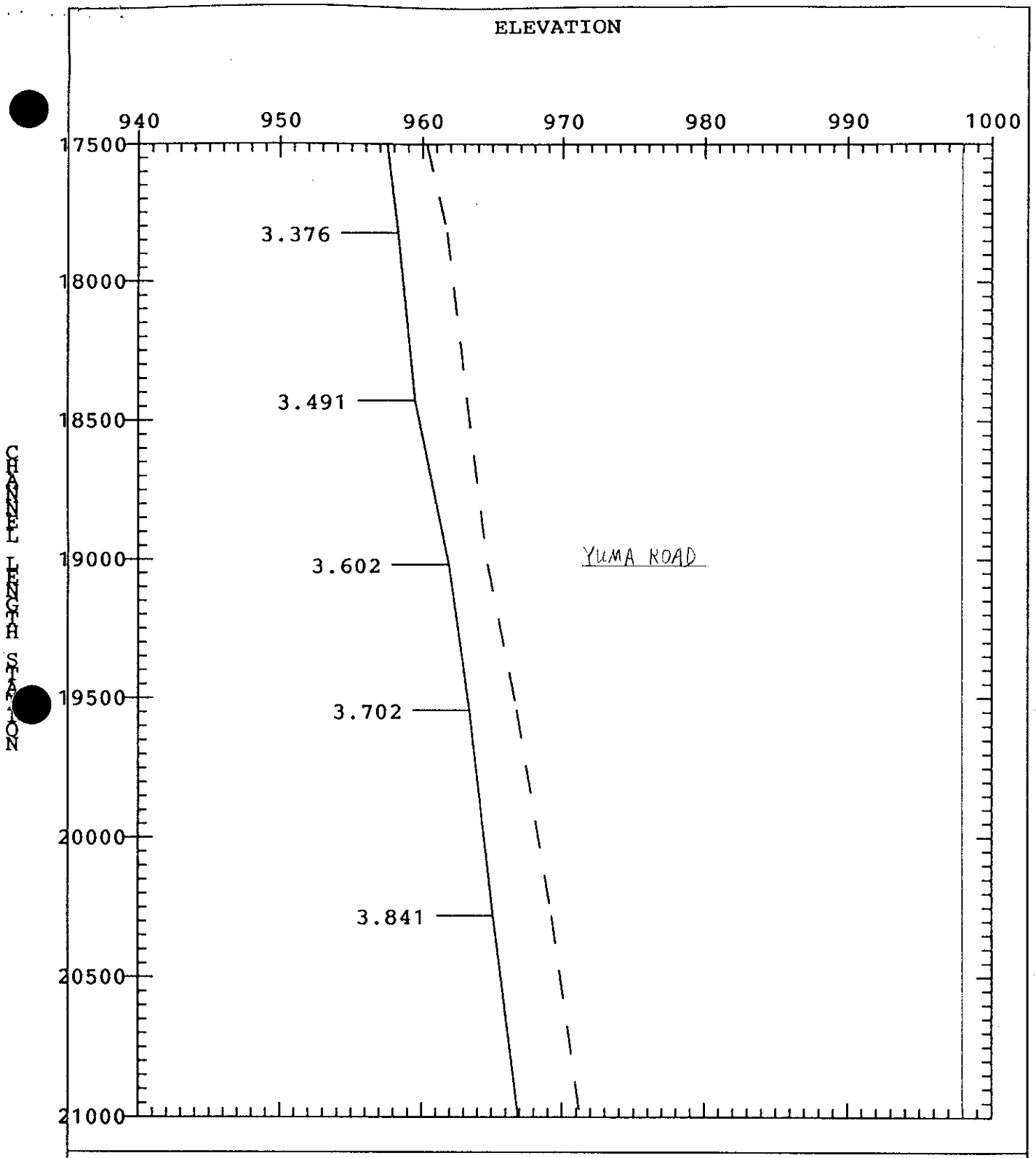
WASH 10 - BULLARD WASH



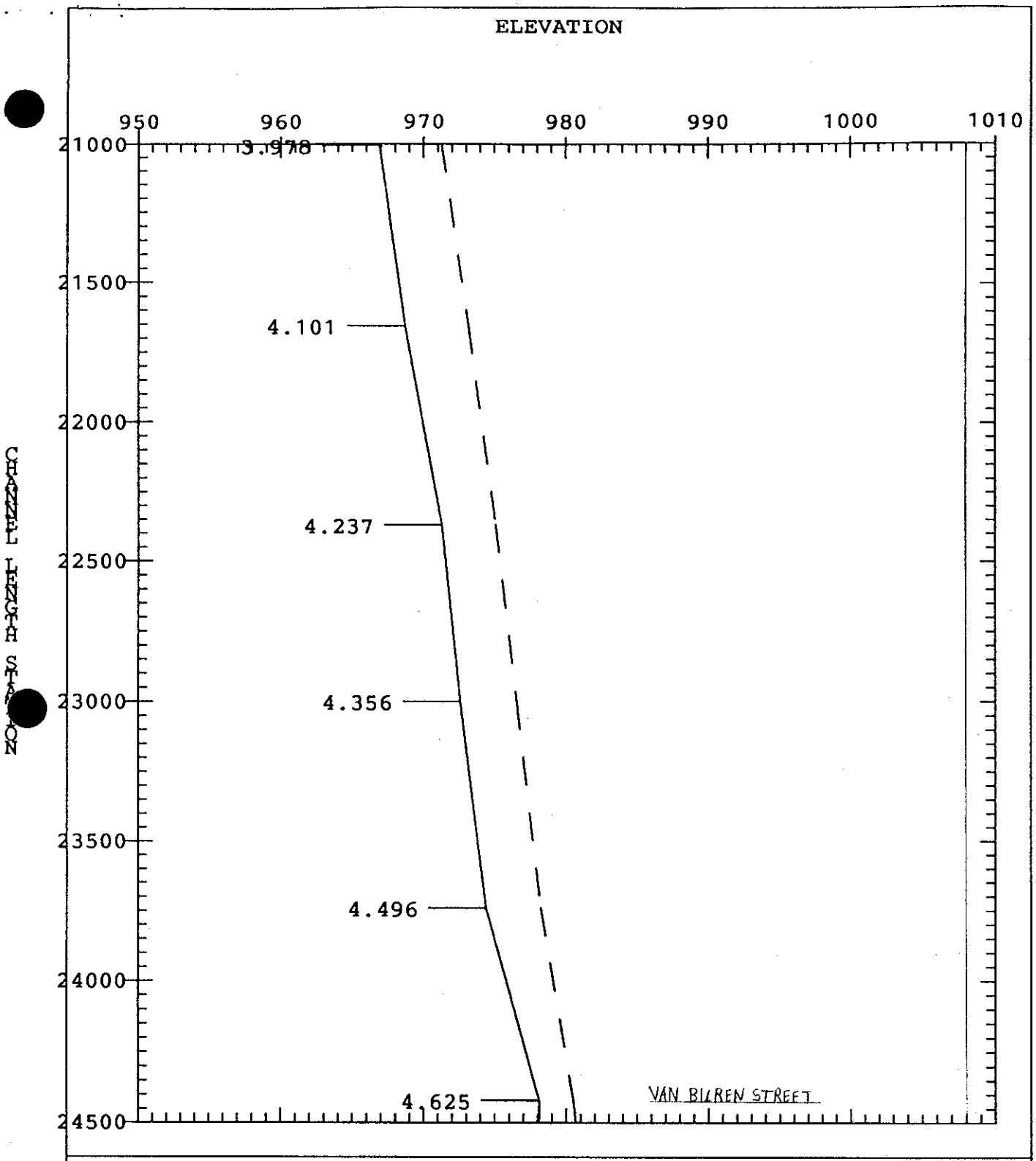
WASH 10 - BULLARD WASH



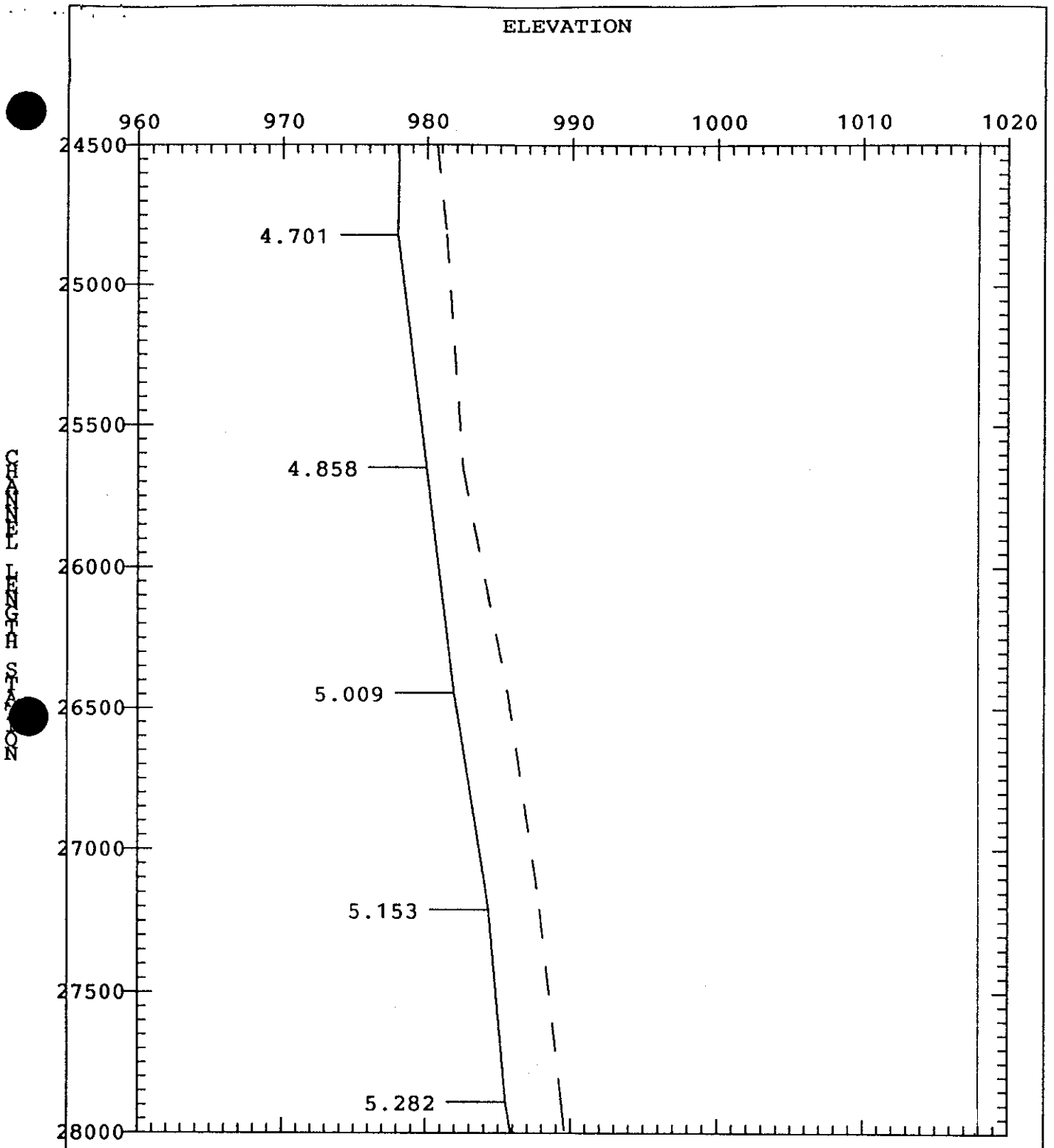
WASH 10 - BULLARD WASH



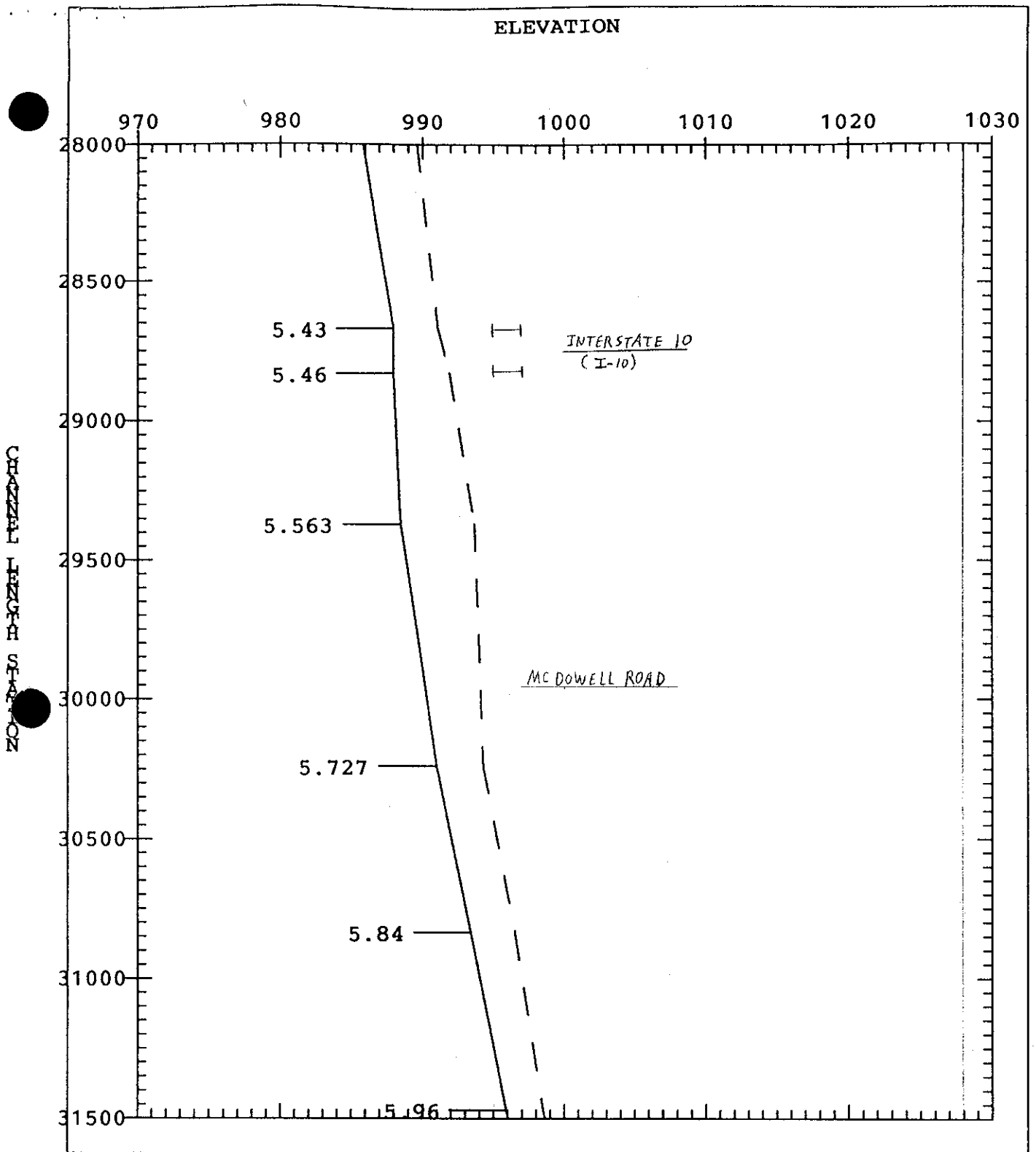
WASH 10 - BULLARD WASH



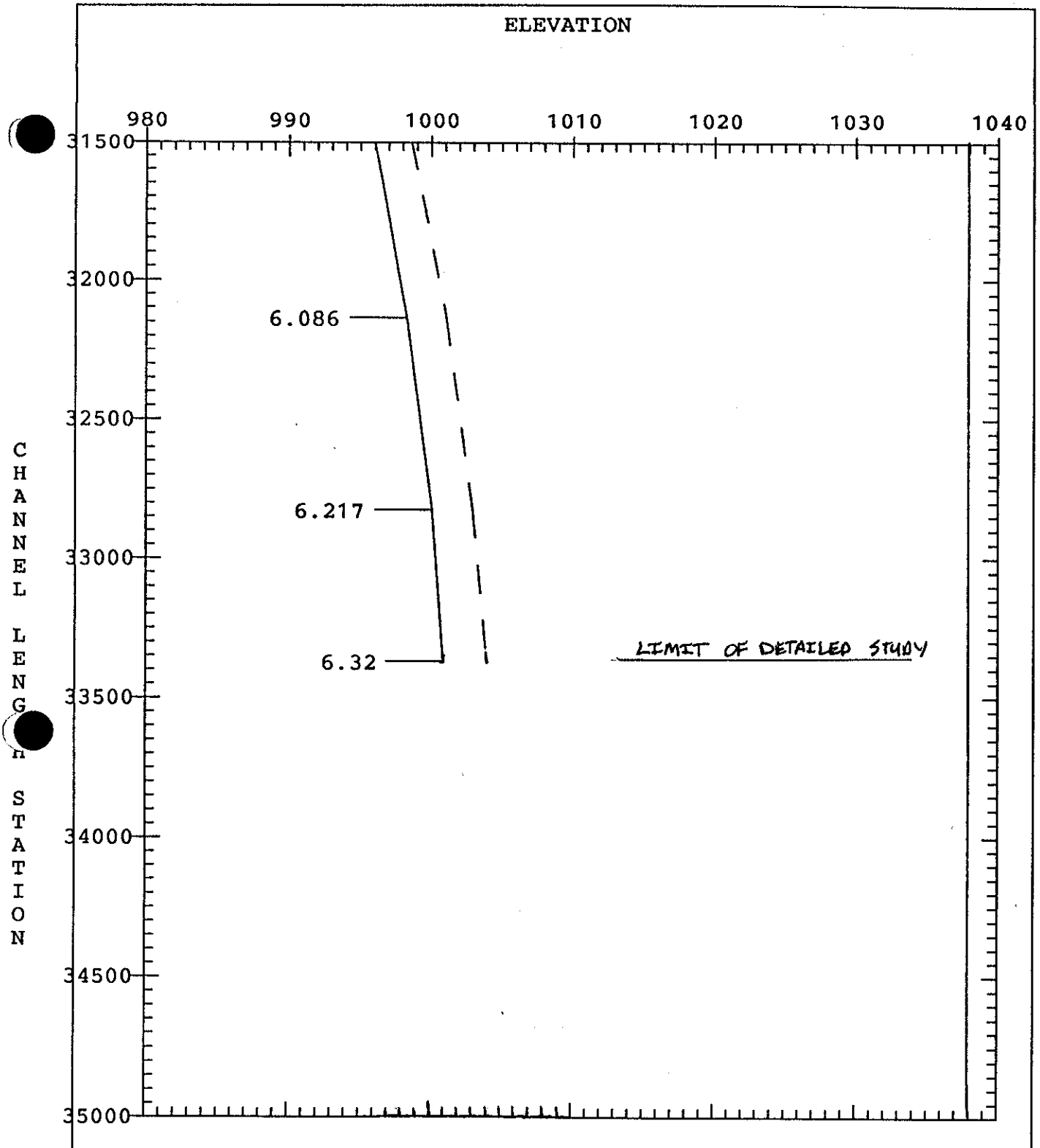
WASH 10 - BULLARD WASH



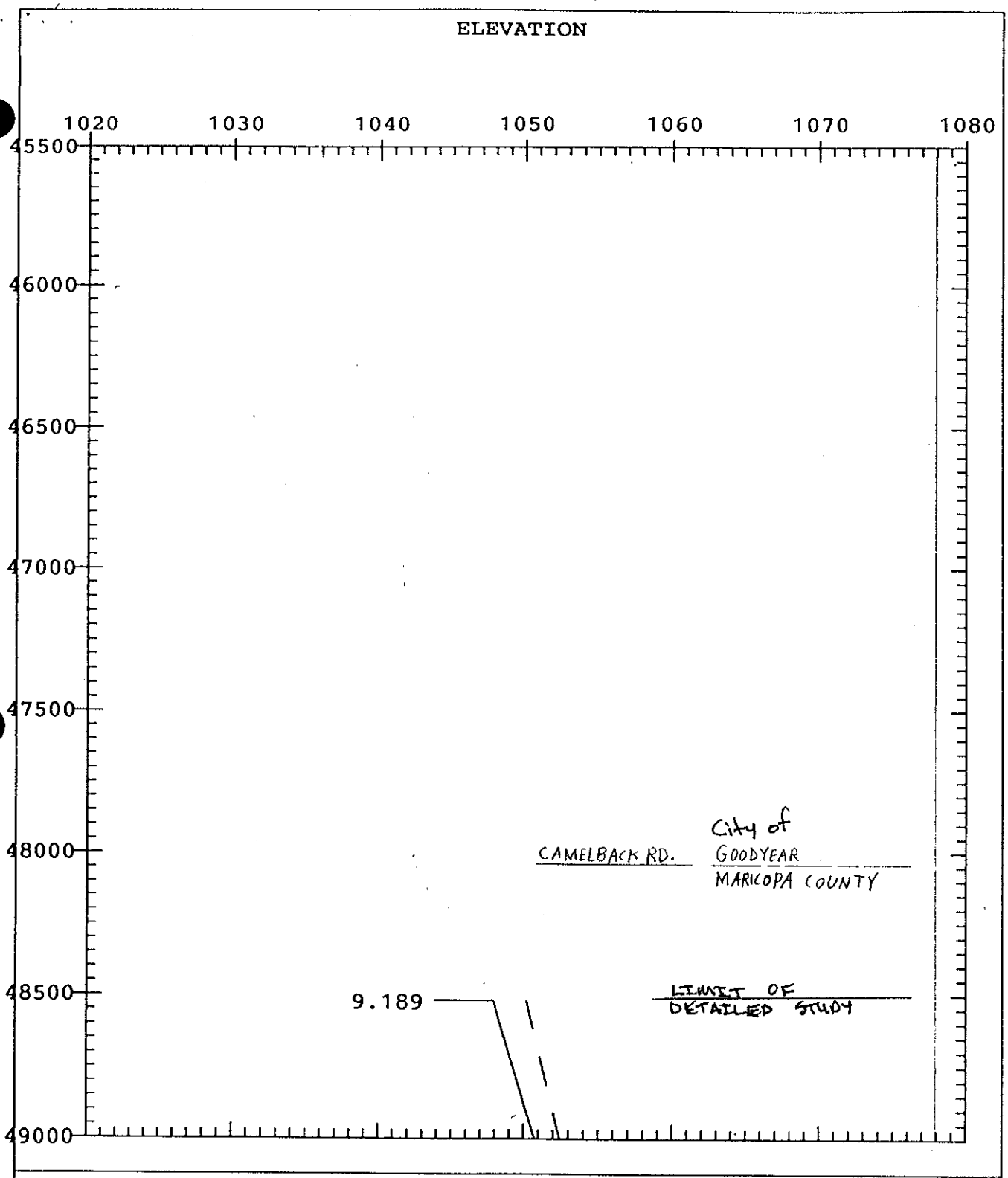
WASH 10 - BULLARD WASH



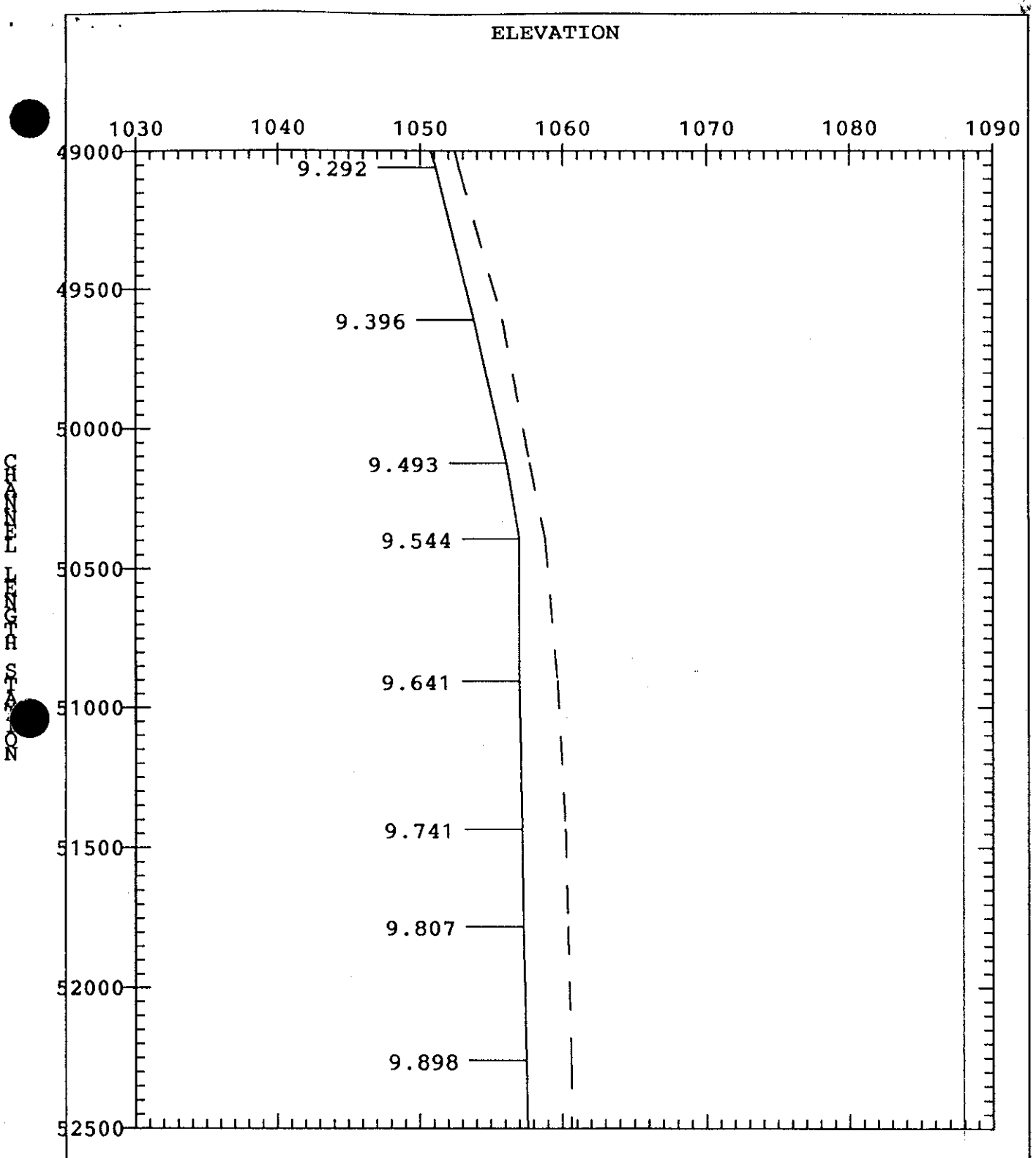
WASH 10 - BULLARD WASH



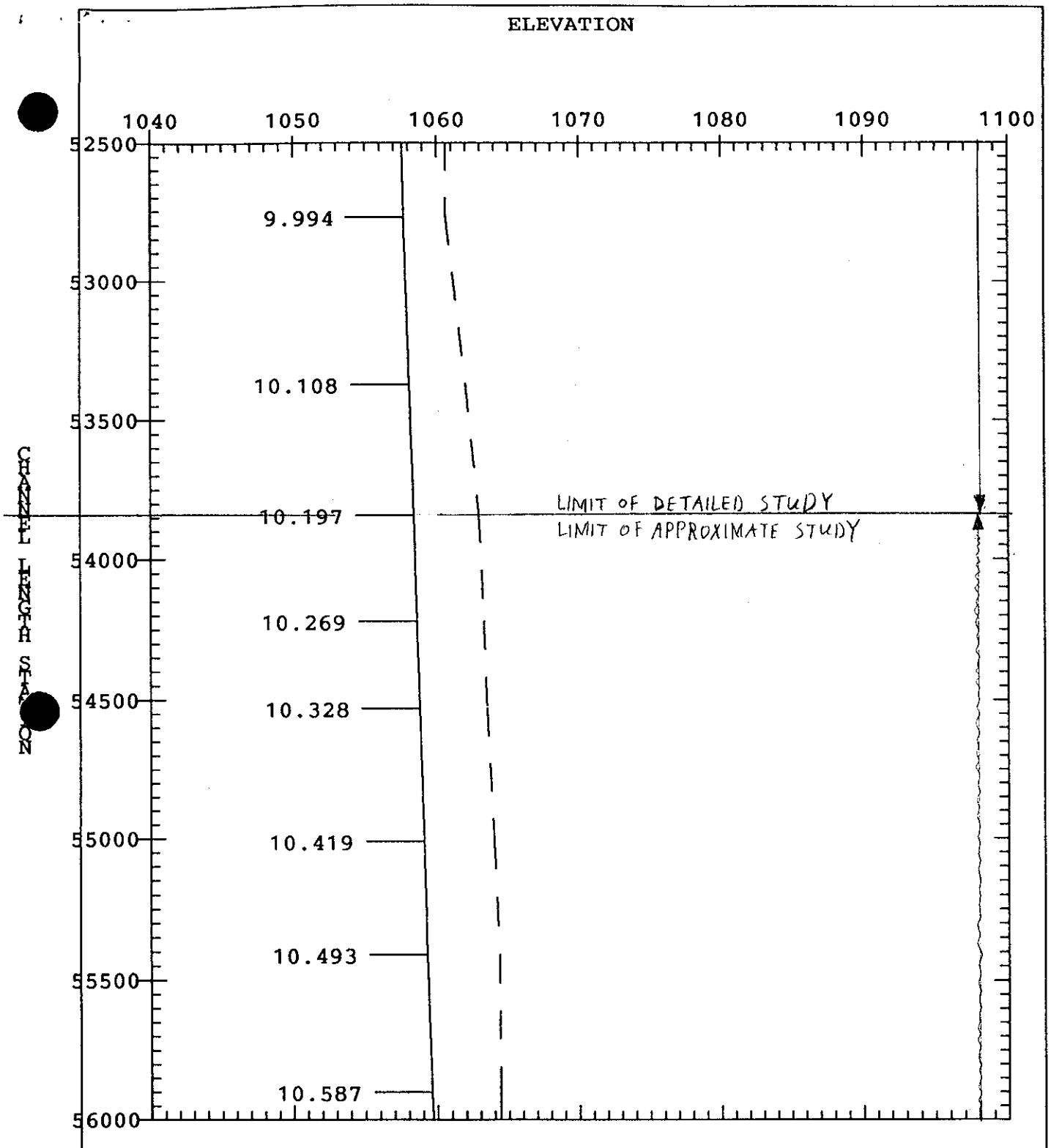
WASH 10 - BULLARD WASH



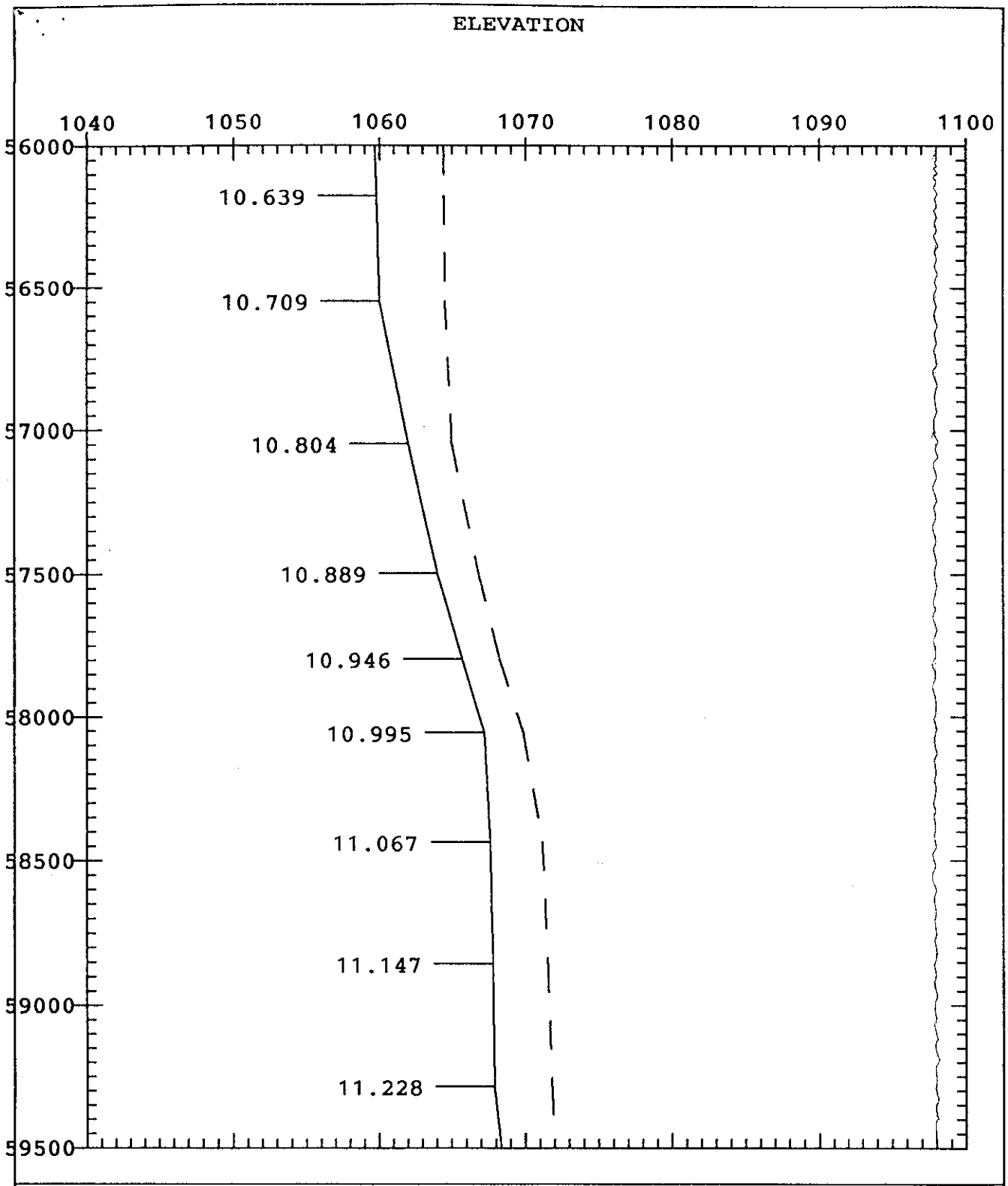
WASH 10 - BULLARD WASH



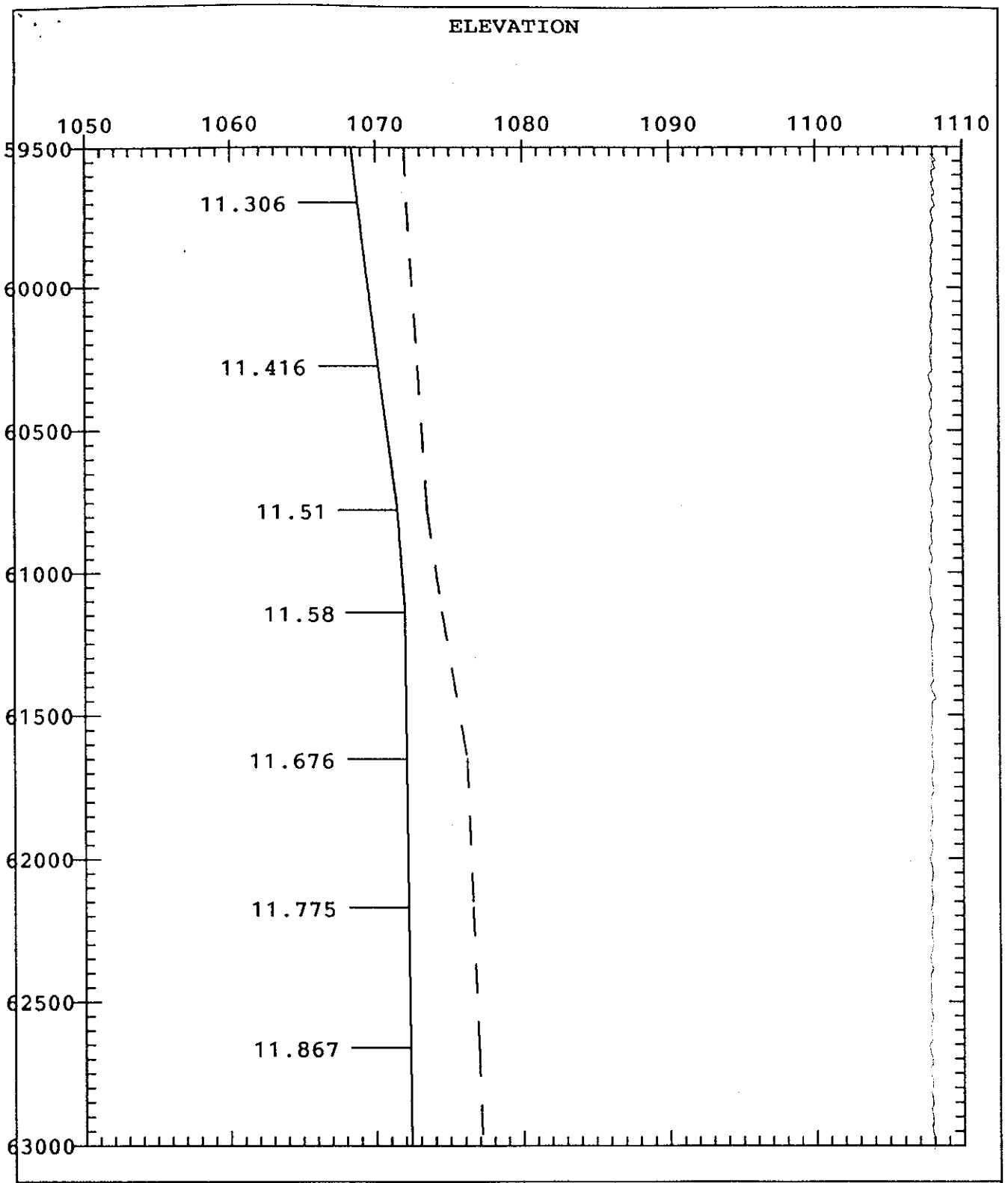
WASH 10 - BULLARD WASH



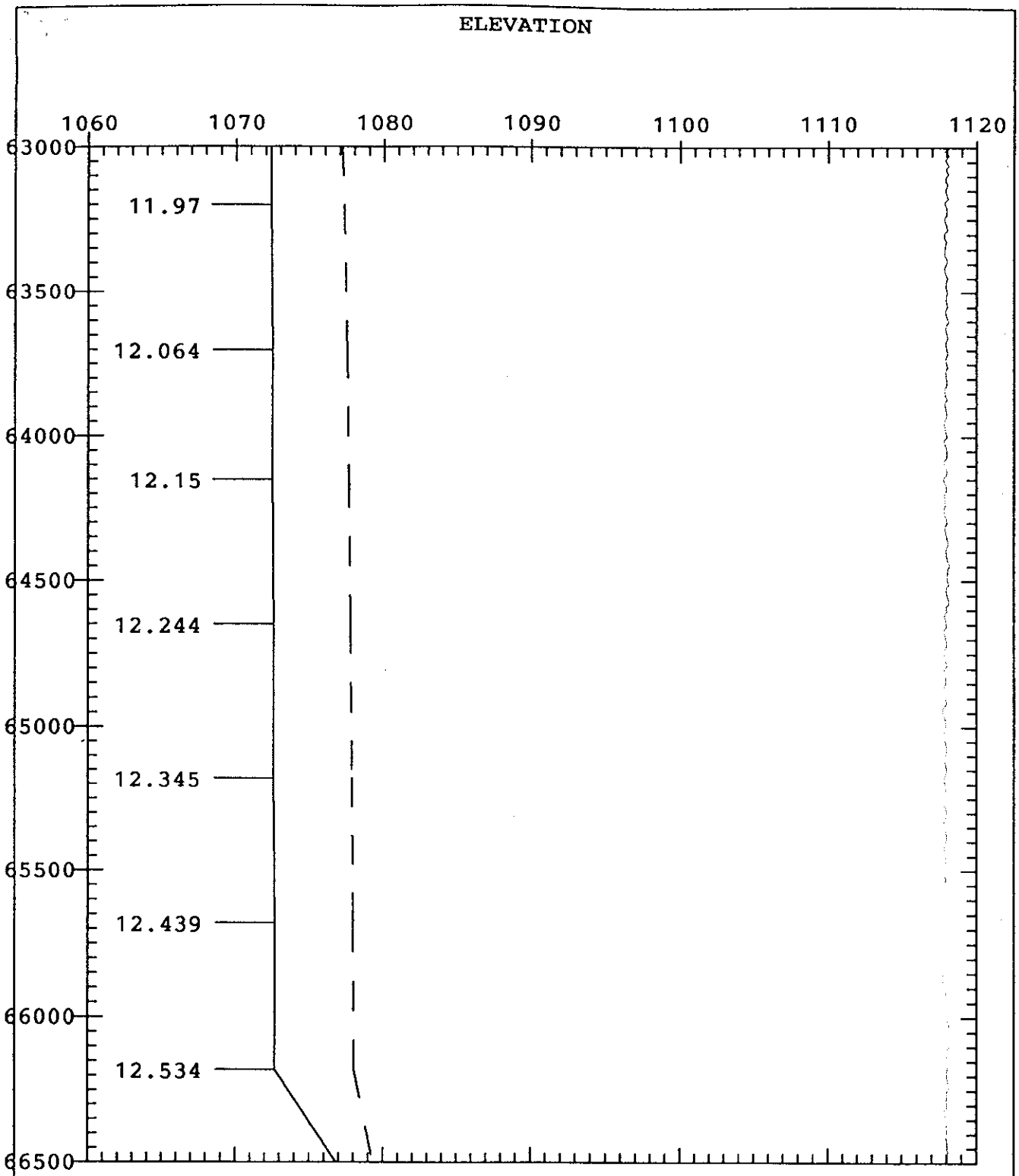
WASH 10 - BULLARD WASH



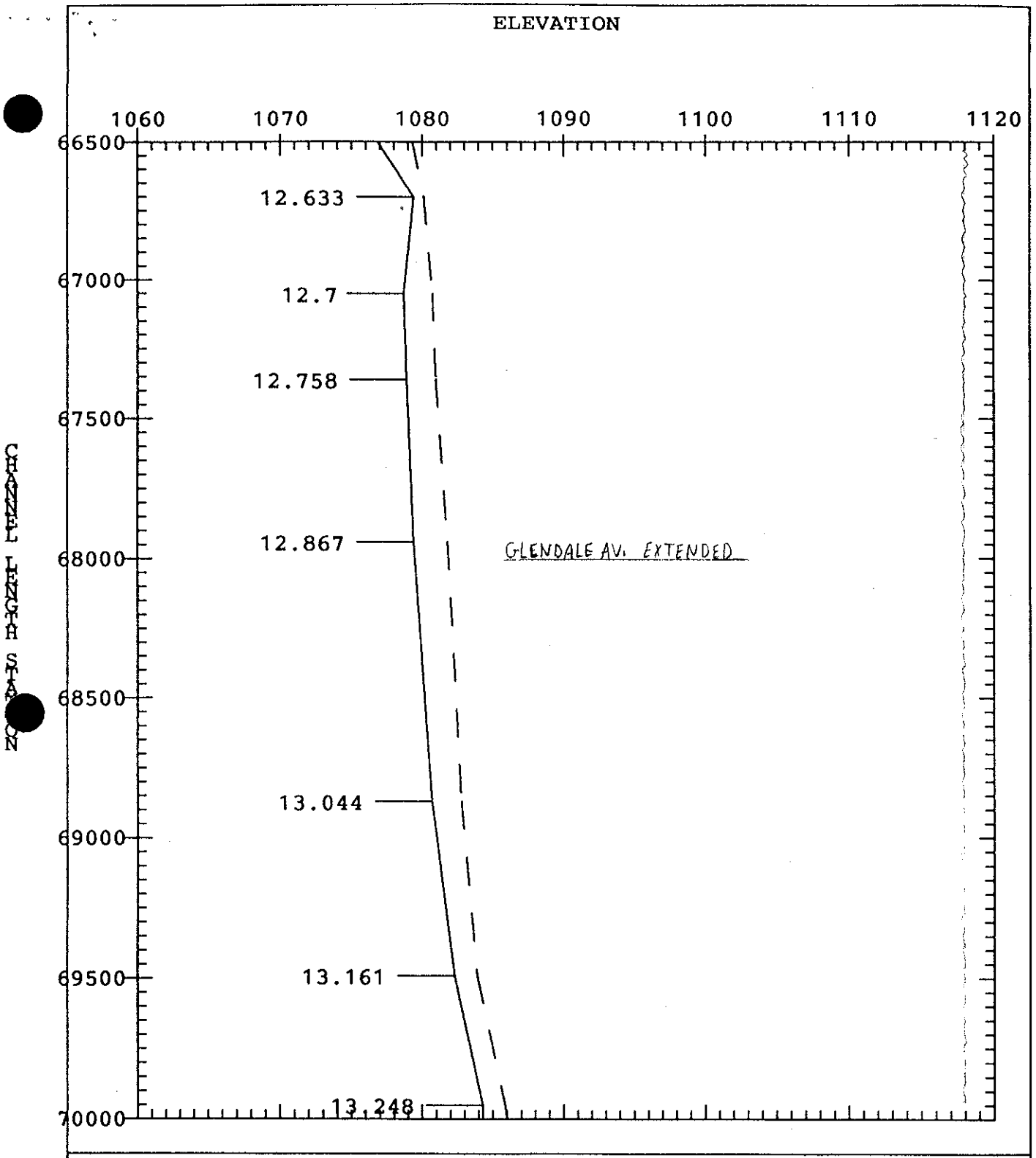
WASH 10 - BULLARD WASH



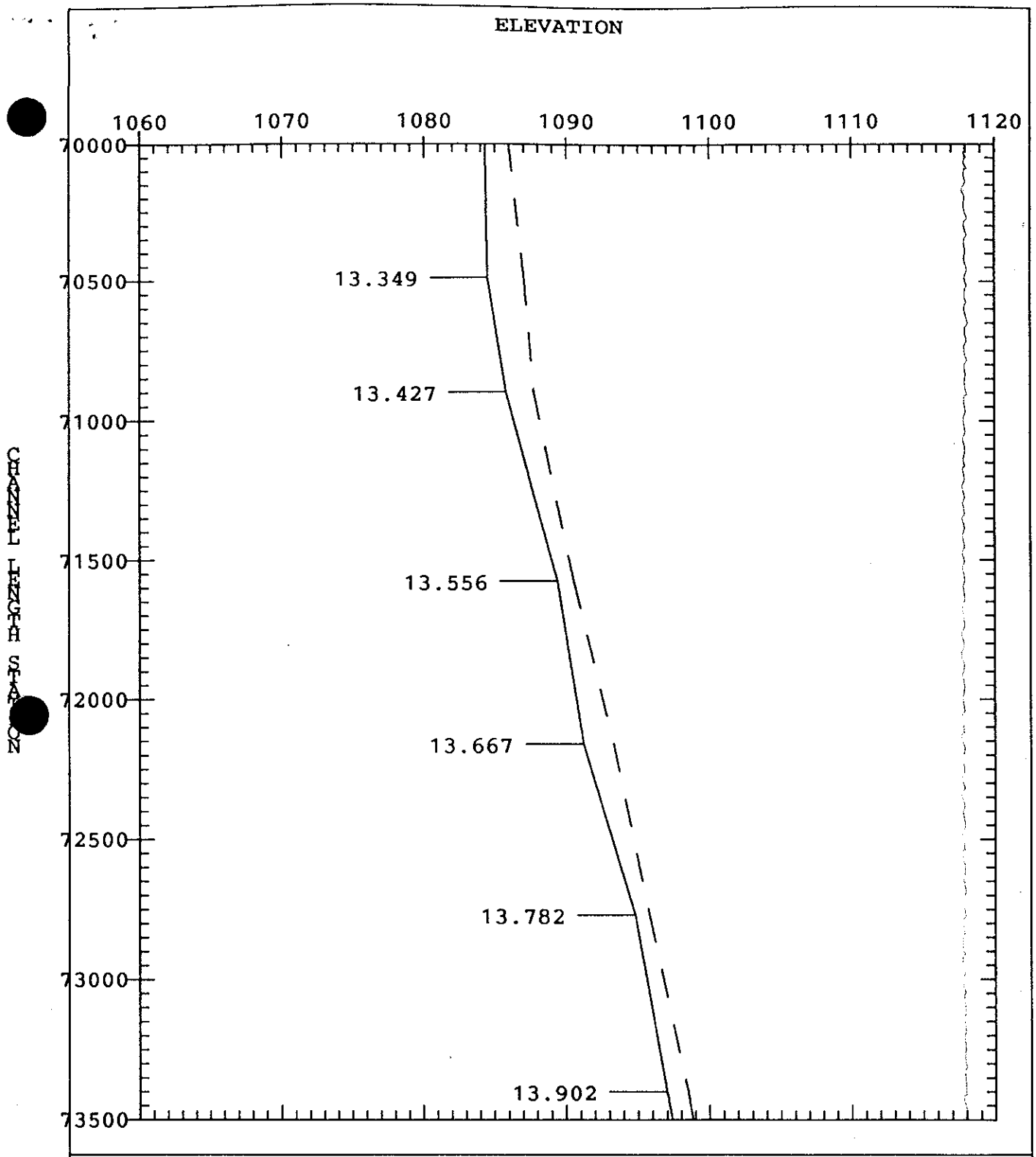
WASH 10 - BULLARD WASH



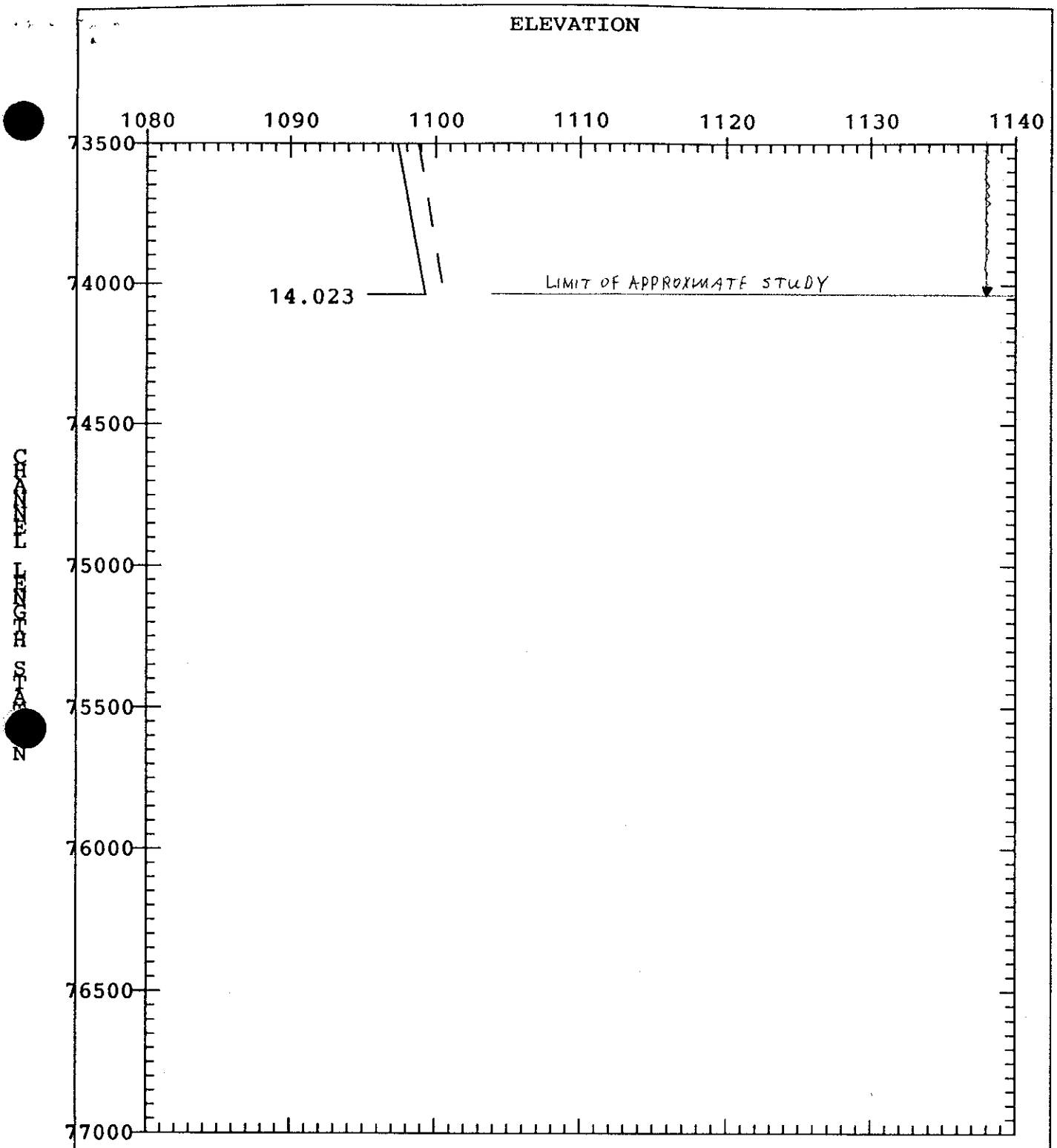
WASH 10 - BULLARD WASH



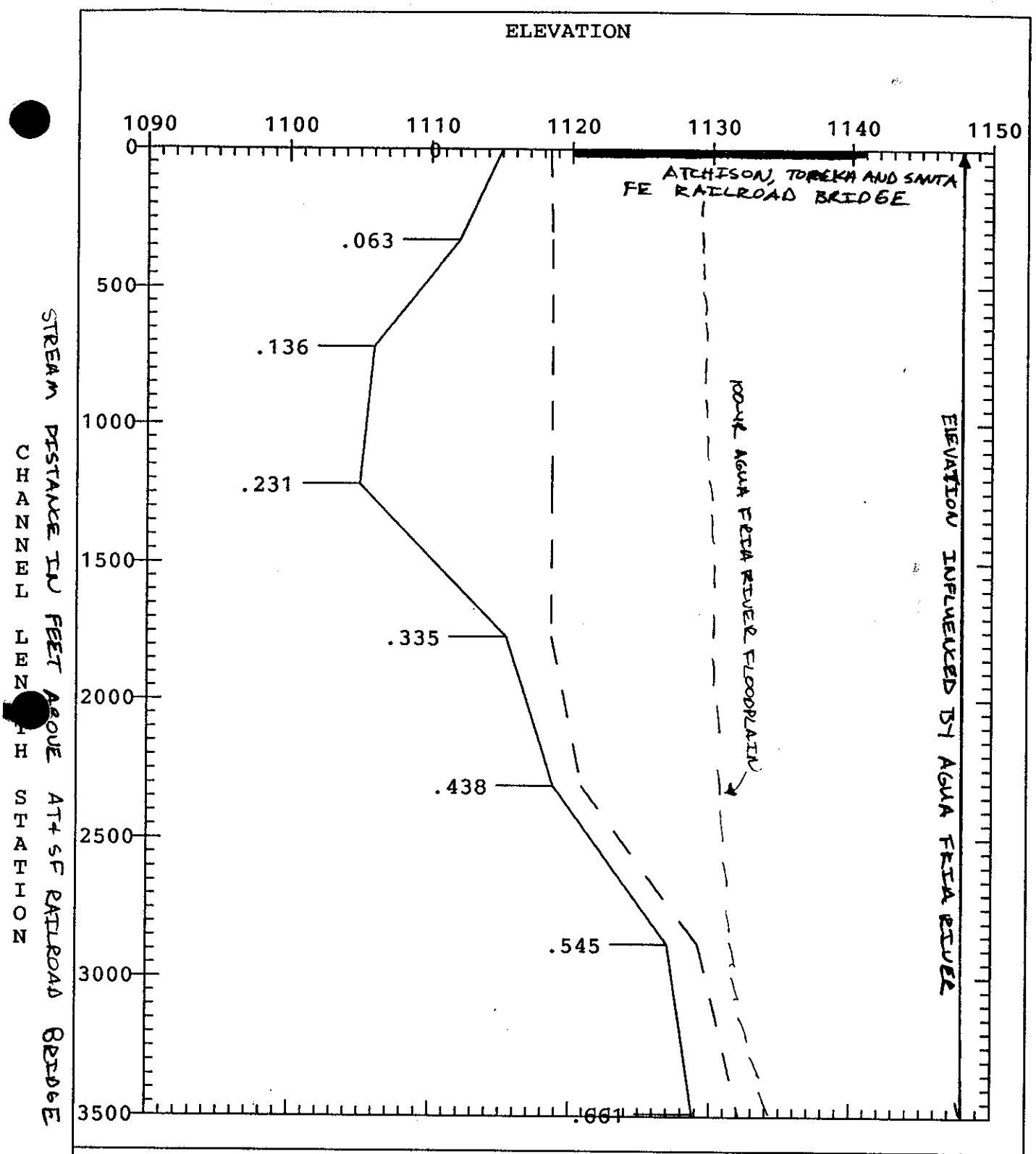
WASH 10 - BULLARD WASH



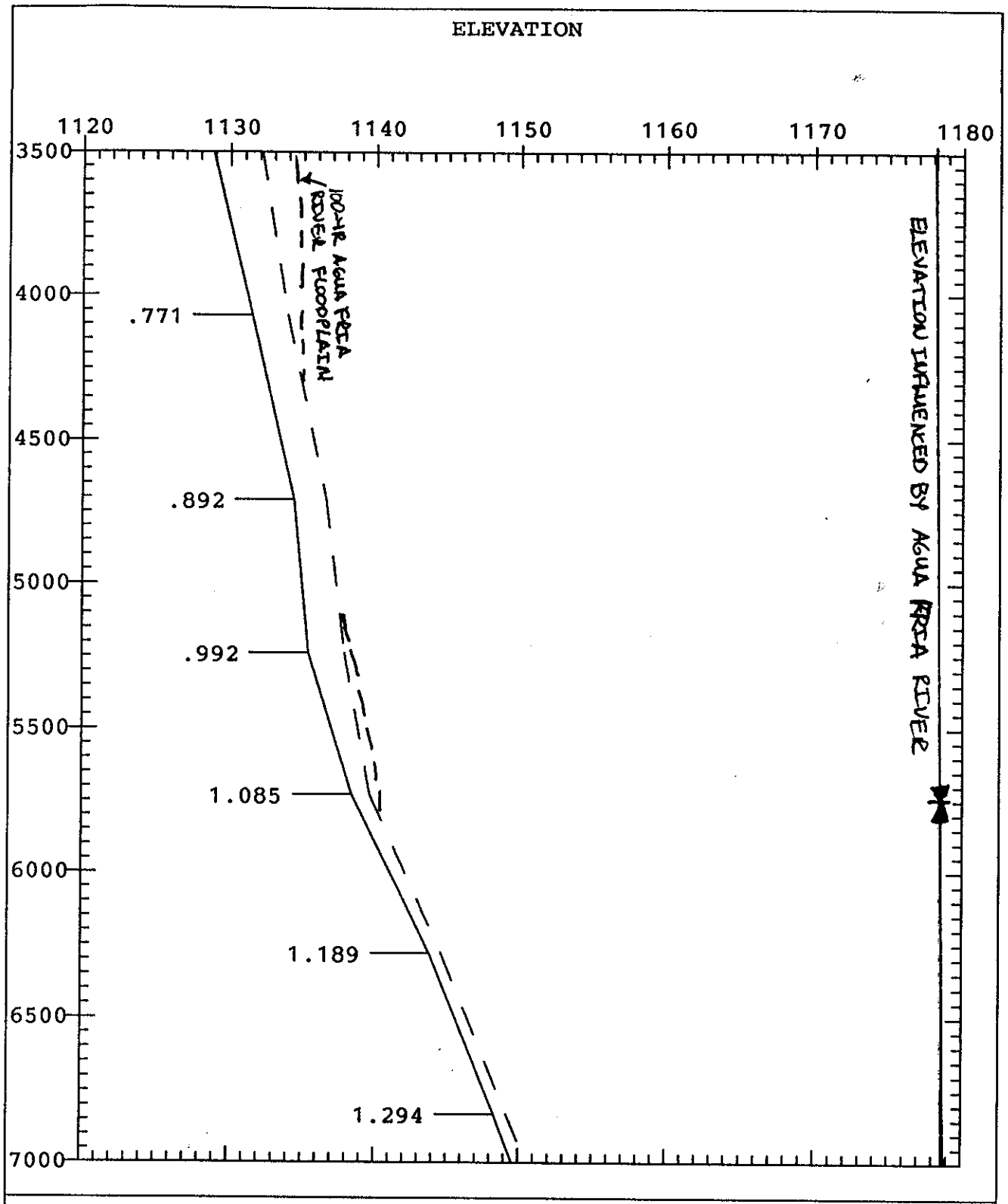
WASH 10 - BULLARD WASH



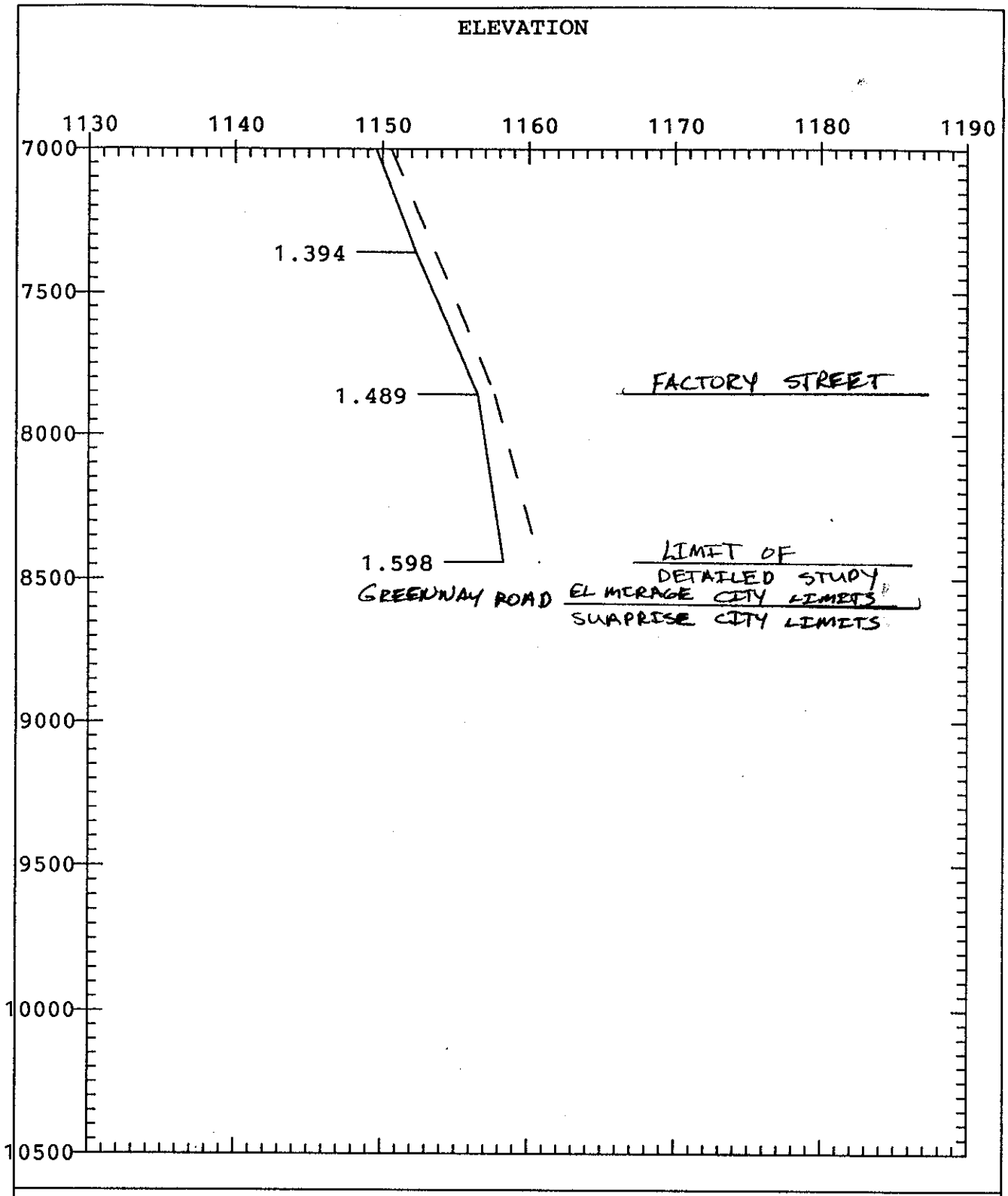
WASH 10 - BULLARD WASH



WASH 12 - ATCHISON, TOPEKA AND SANTA FE RAILROAD CHANNEL -AGUA FRIA TO GREENWAY

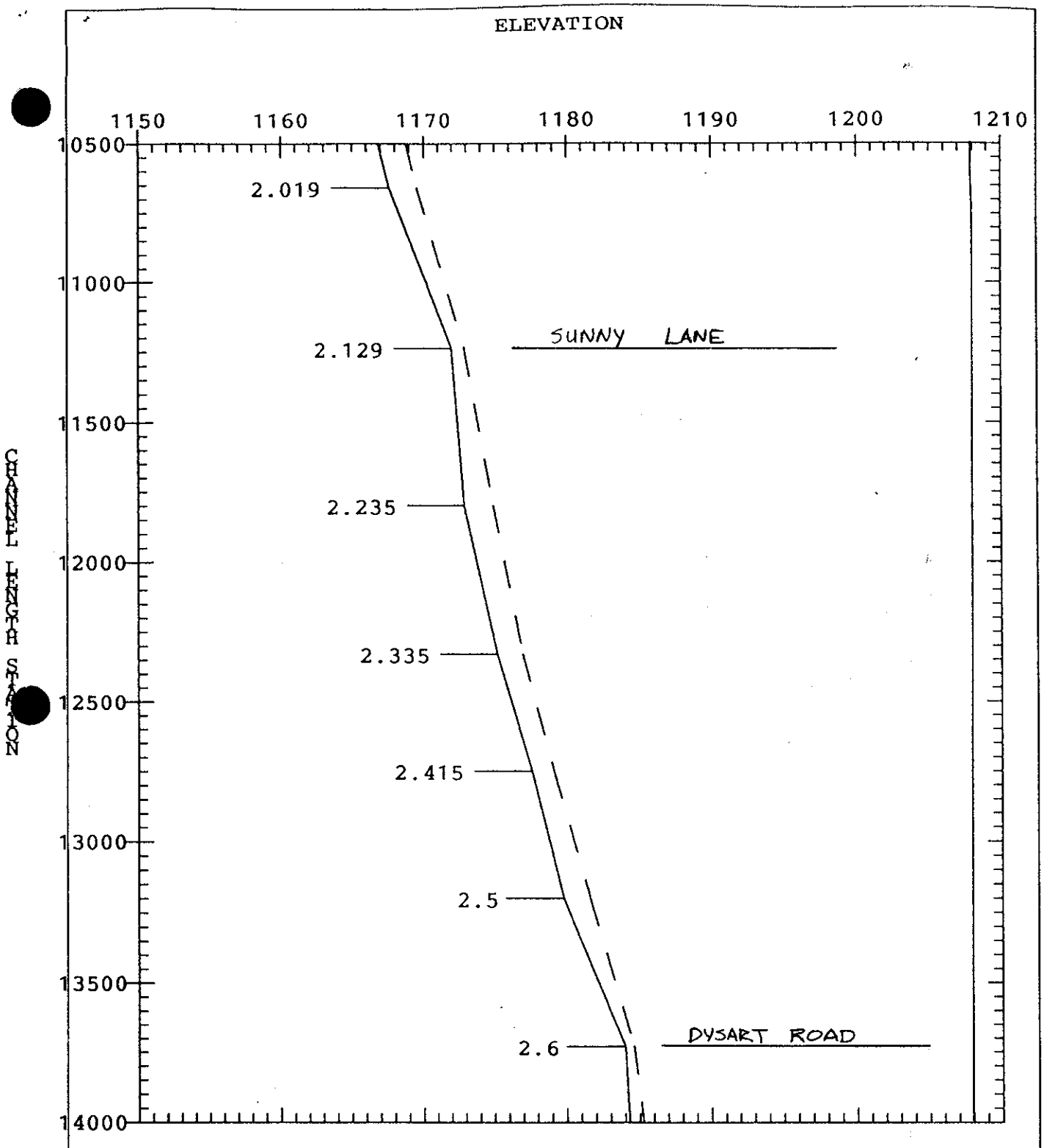


WASH 12 - ATCHISON, TOPEKA AND SANTA FE RAILROAD CHANNEL -AGUA FRIA TO GREENWAY

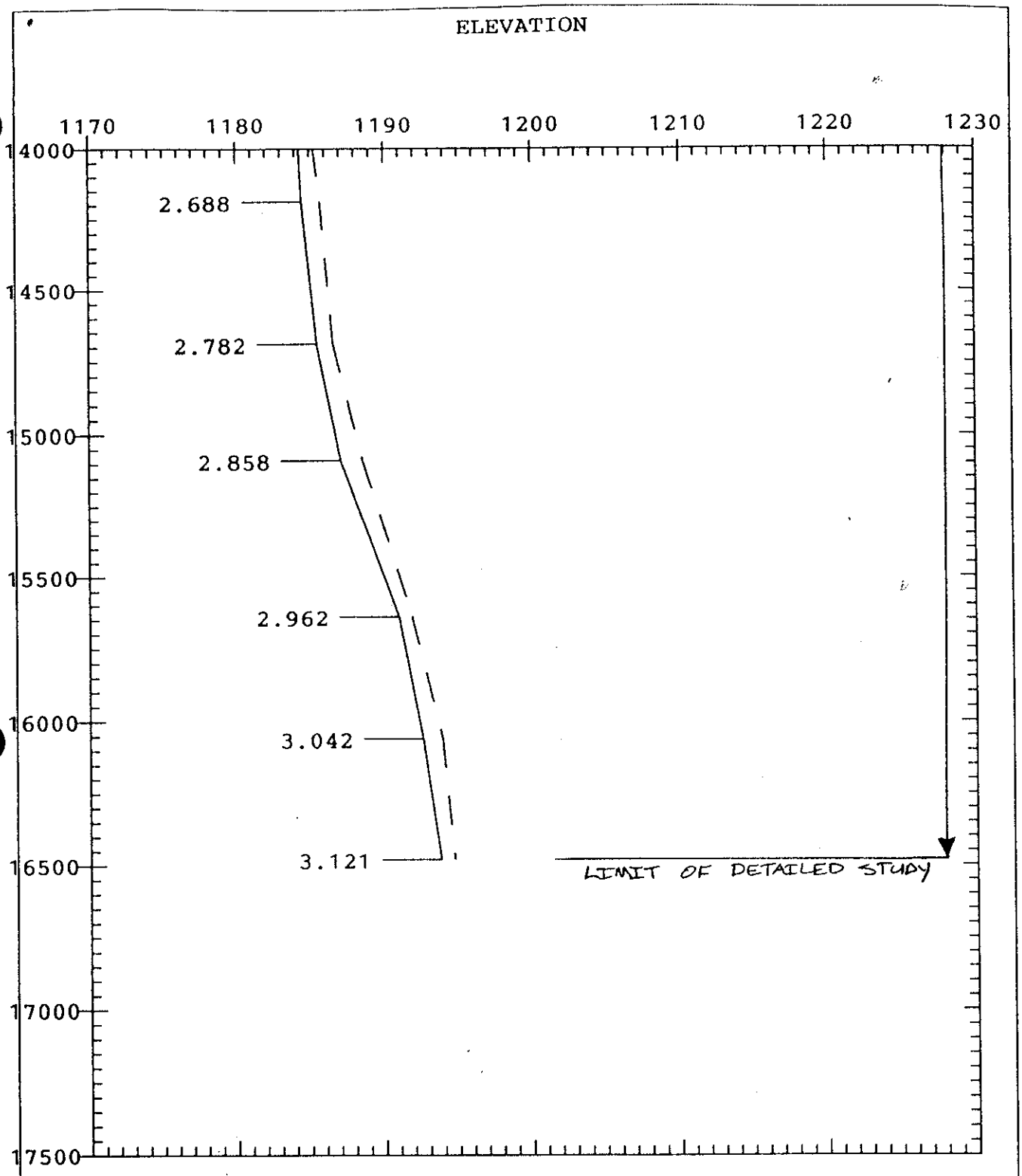


WASH 12 - ATCHISON, TOPEKA AND SANTA FE

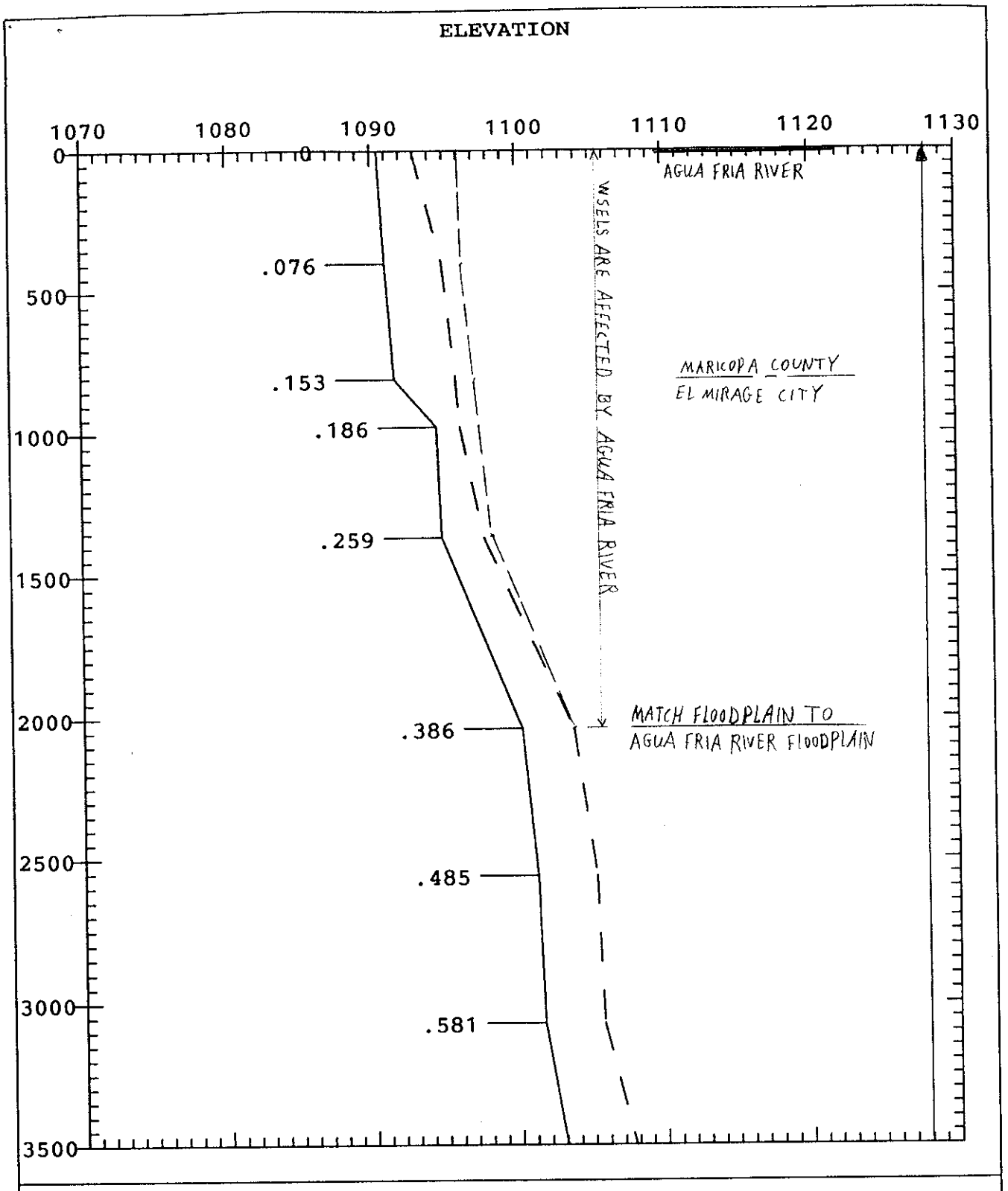
RAILROAD CHANNEL -AGUA FRIA TO GREENWAY



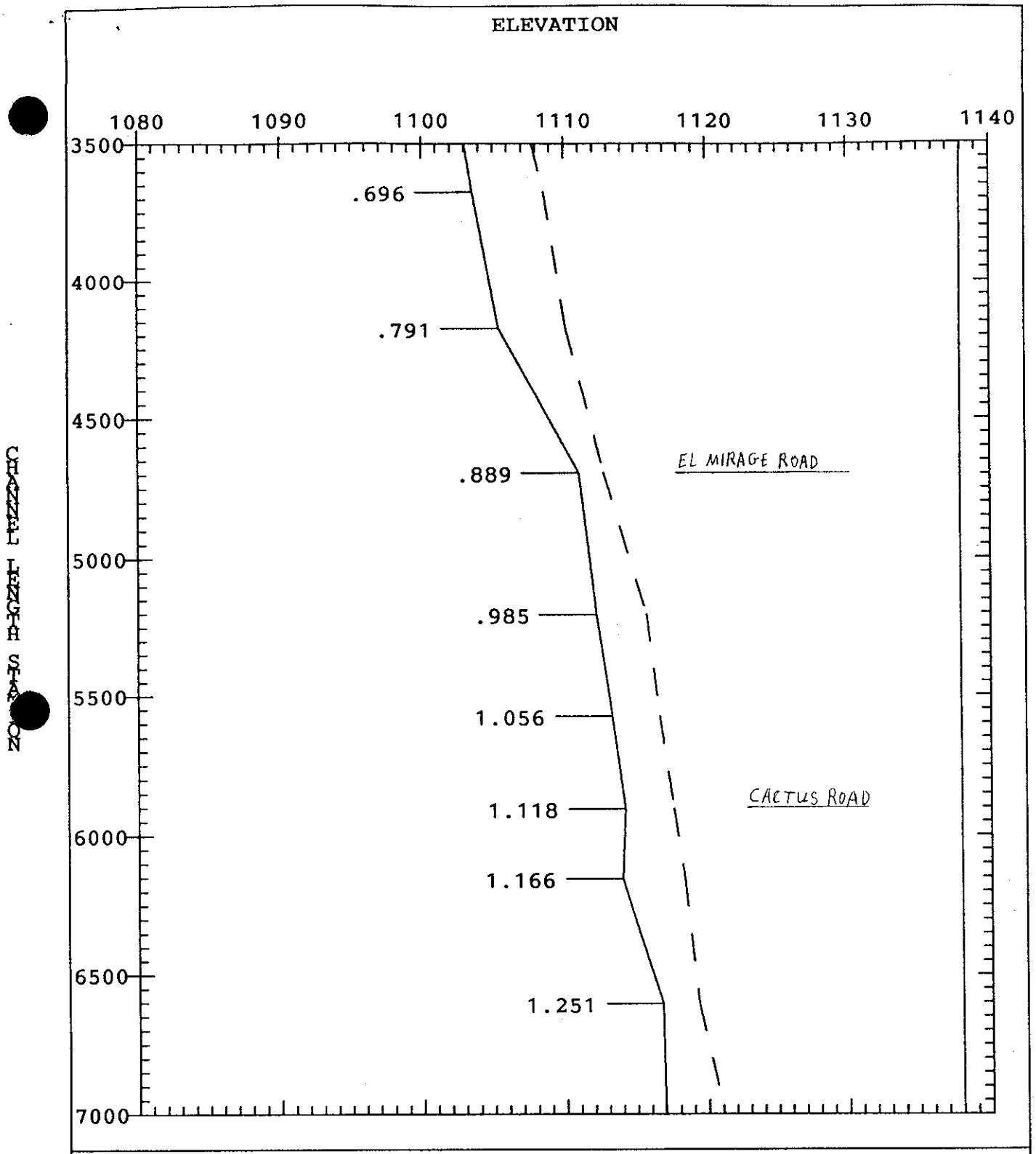
WASH 12 - ATCHISON, TOPEKA AND SANTA FE RAILROAD CHANNEL - AGUA FRIA RIVER TO BELL ROAD



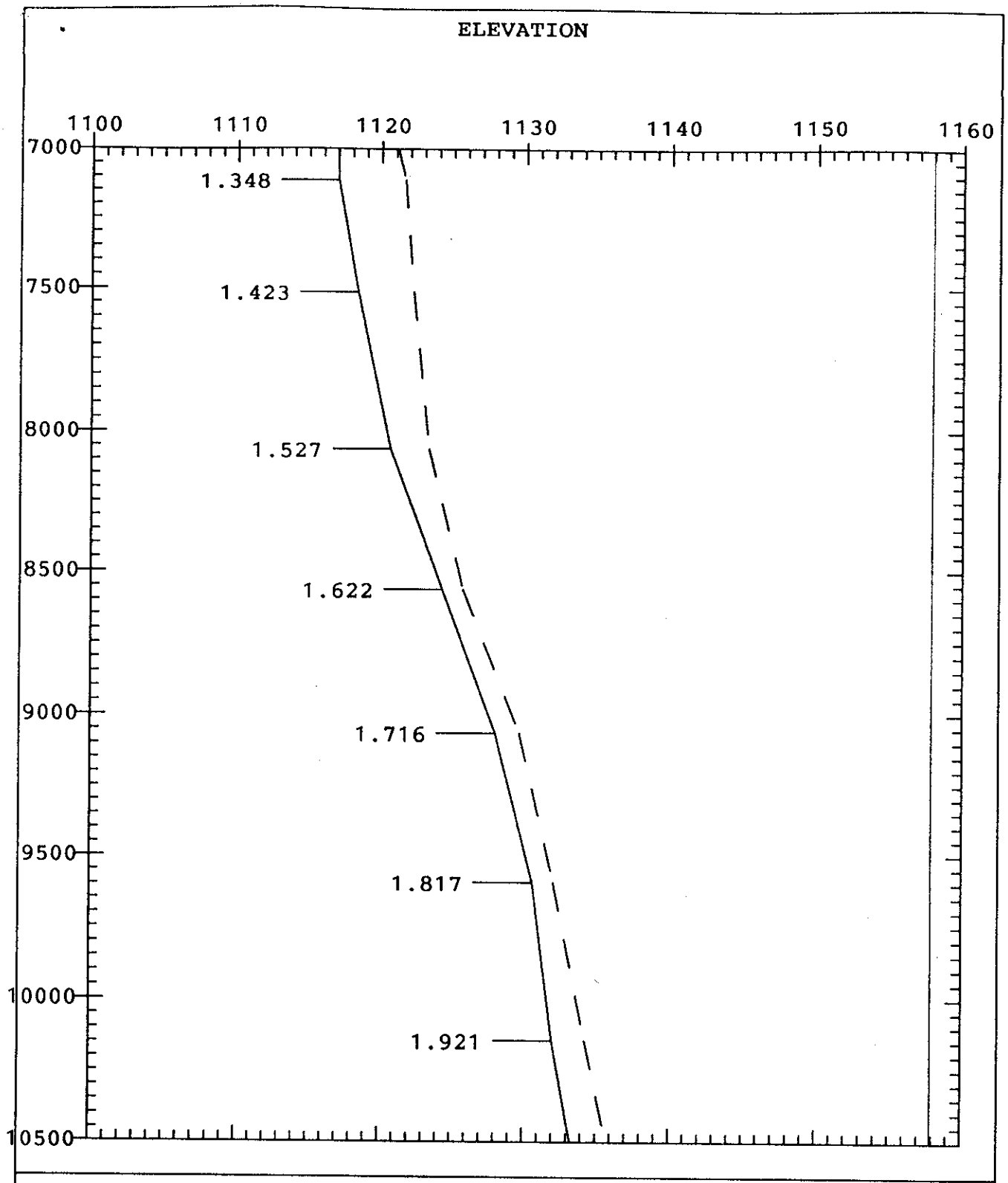
WASH 12 - ATCHISON, TOPEKA AND SANTA FE RAILROAD CHANNEL - AGUA FRIA RIVER TO BELL ROAD



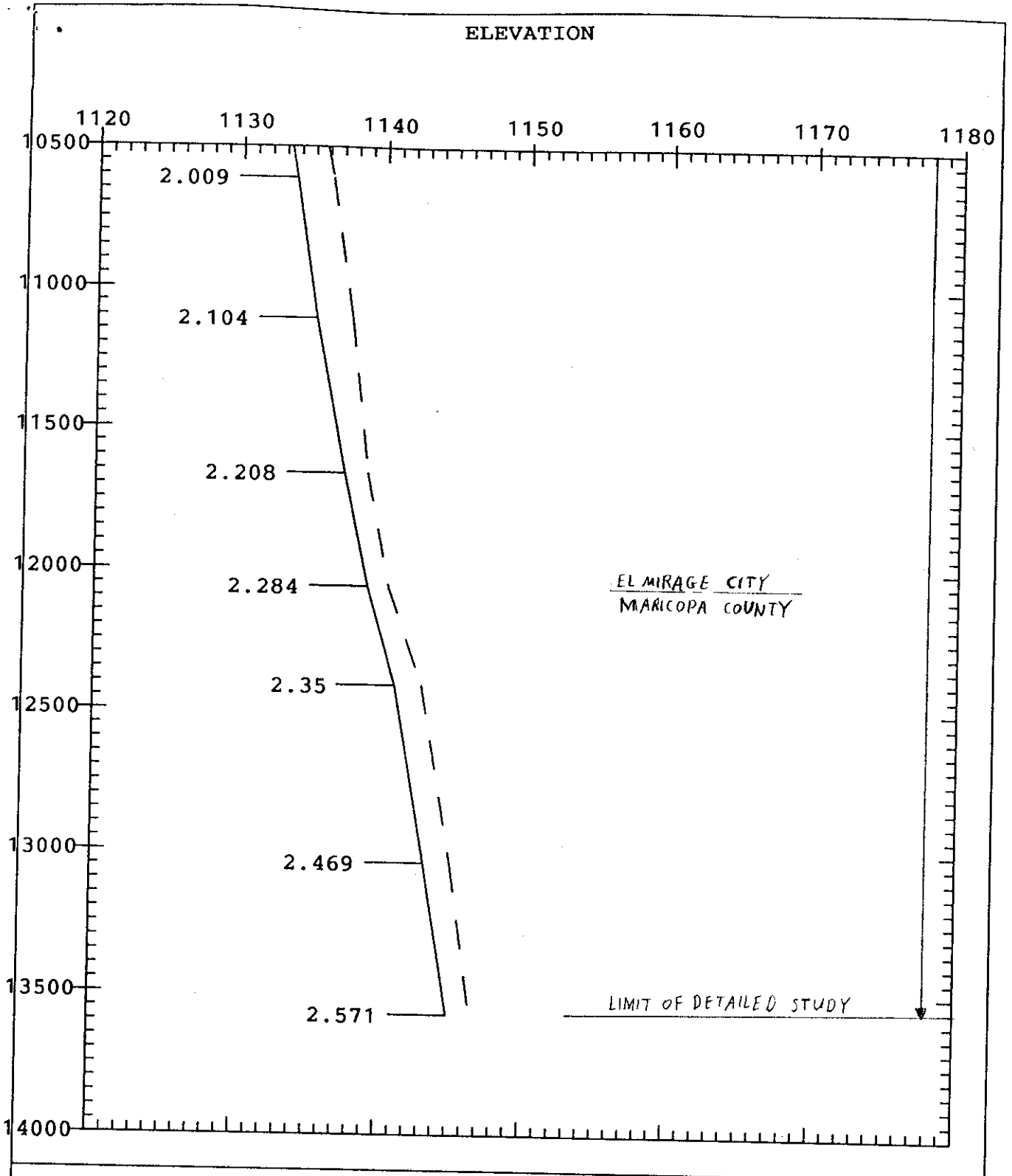
WASH 13 - LOWER EL MIRAGE WASH



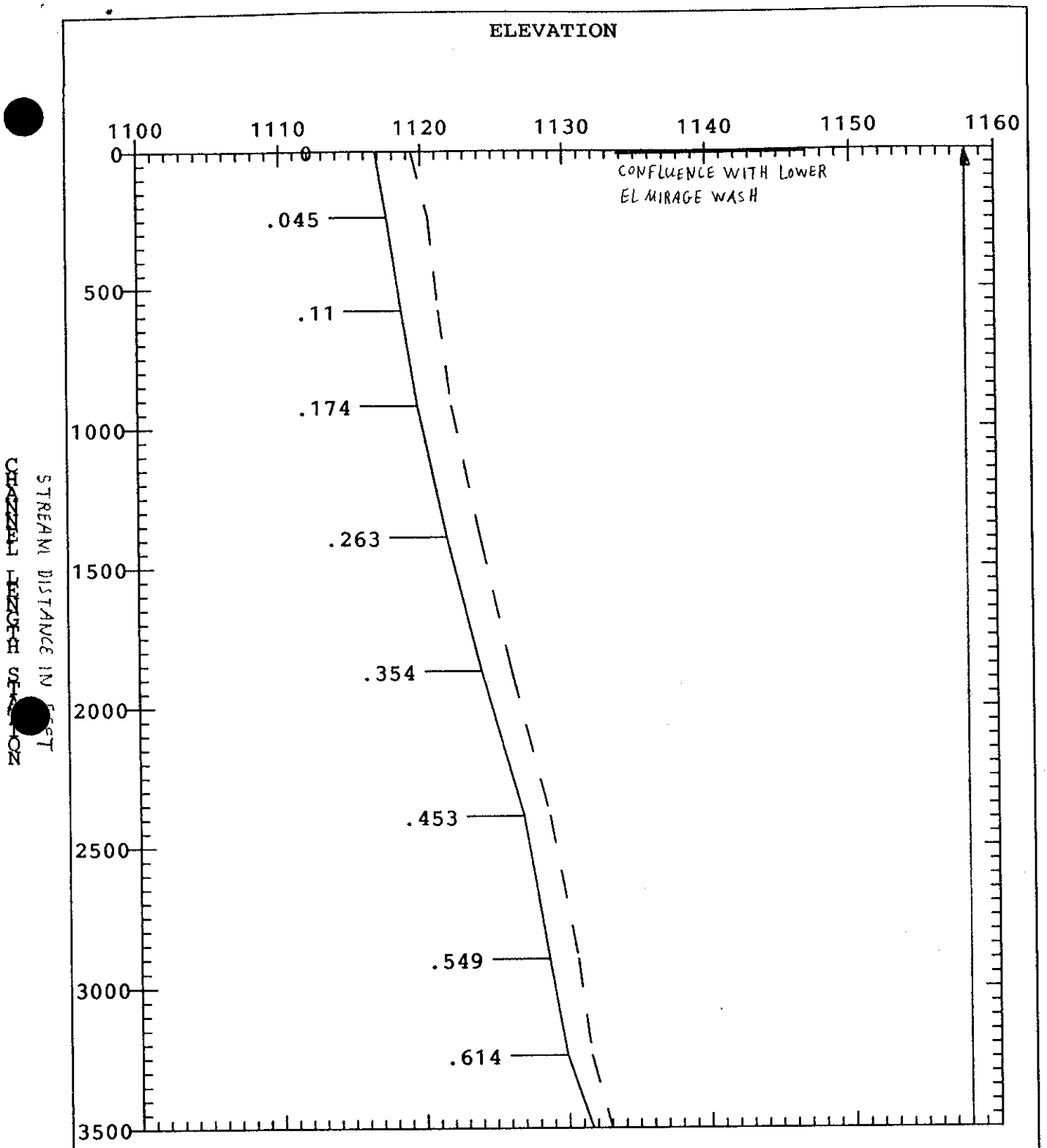
WASH 13 - LOWER EL MIRAGE WASH



WASH 13 - LOWER EL MIRAGE WASH

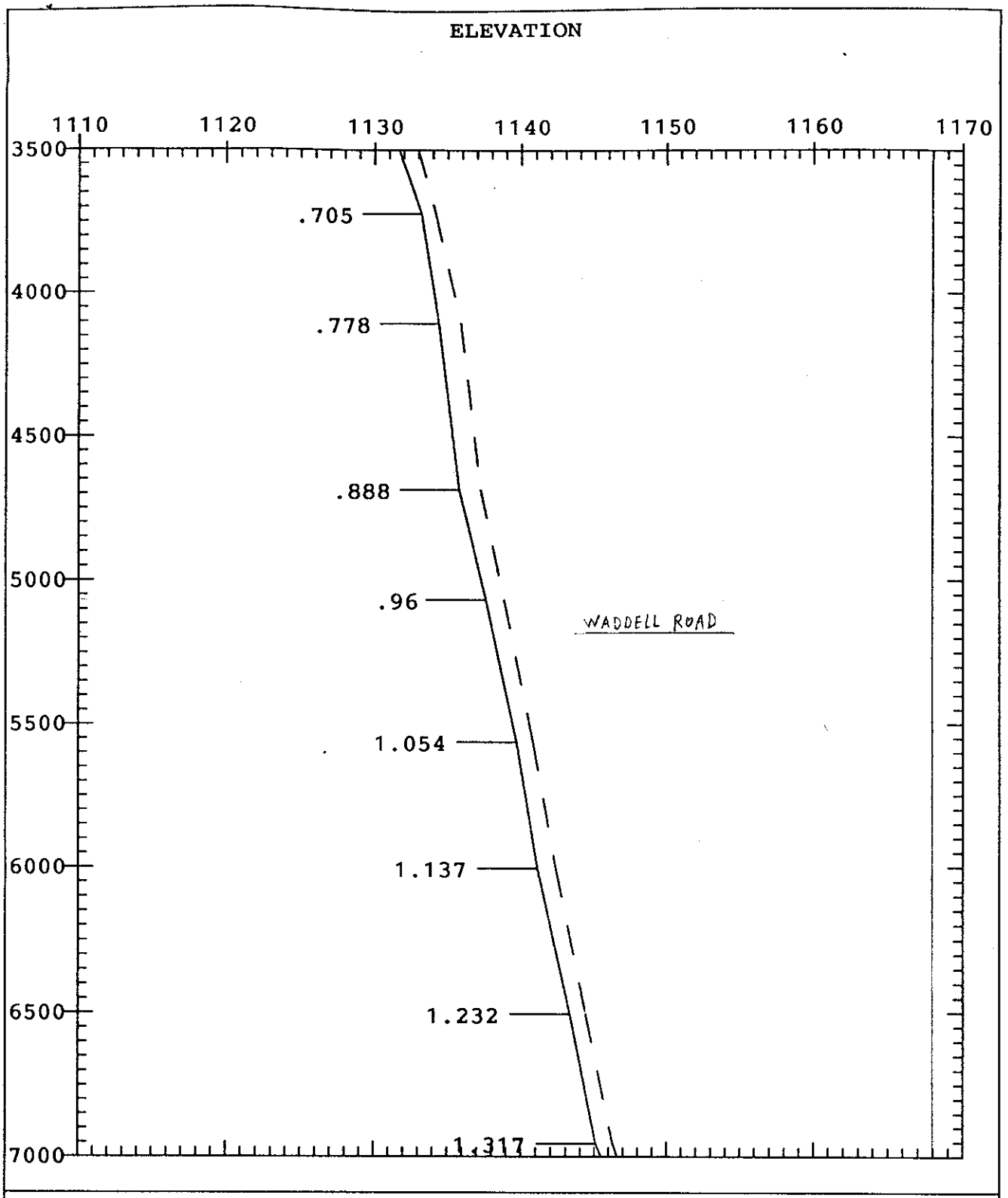


WASH 13 - LOWER EL MIRAGE WASH



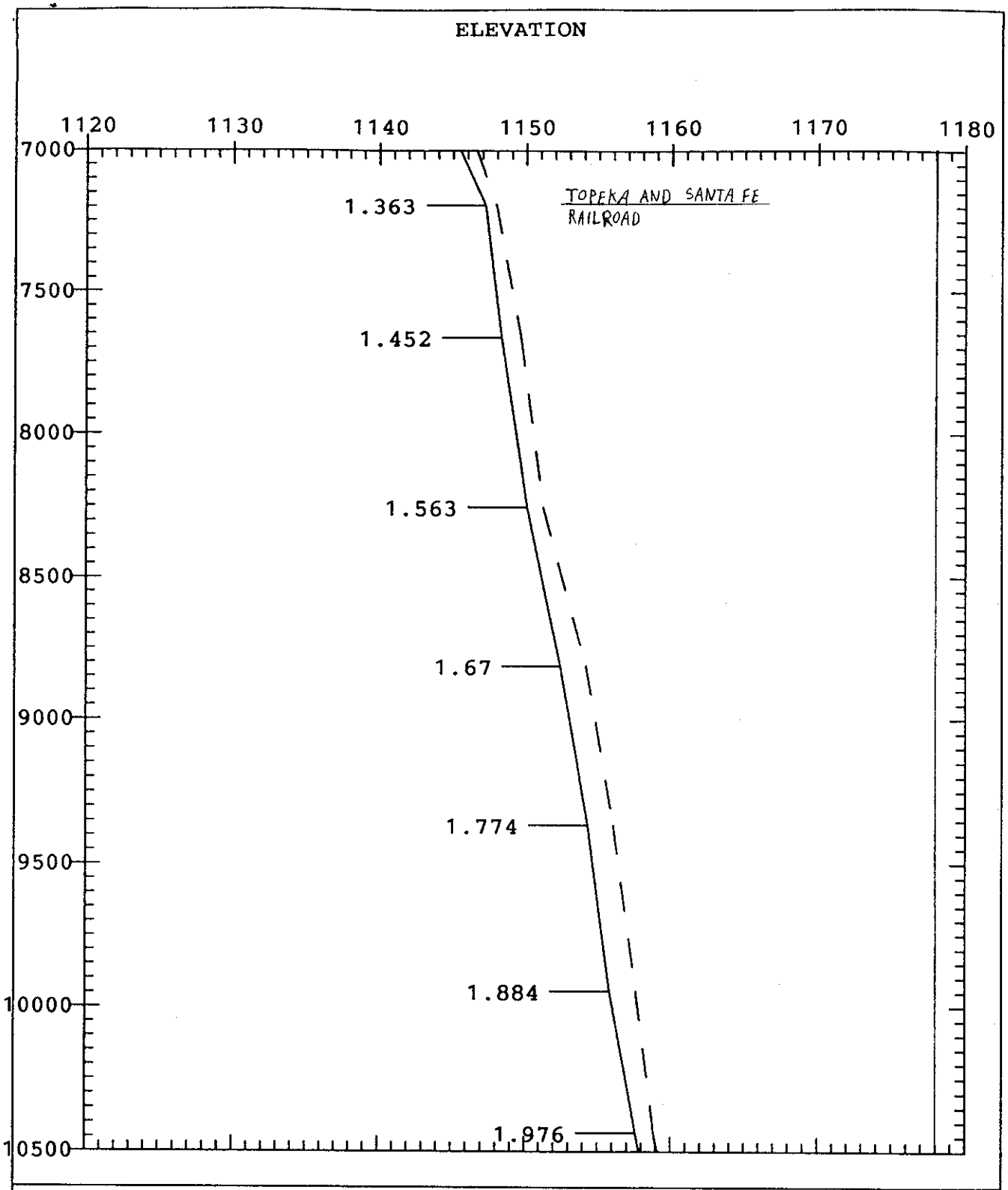
WASH 13A - LOWER EL MIRAGE WASH

TRIBUTARY



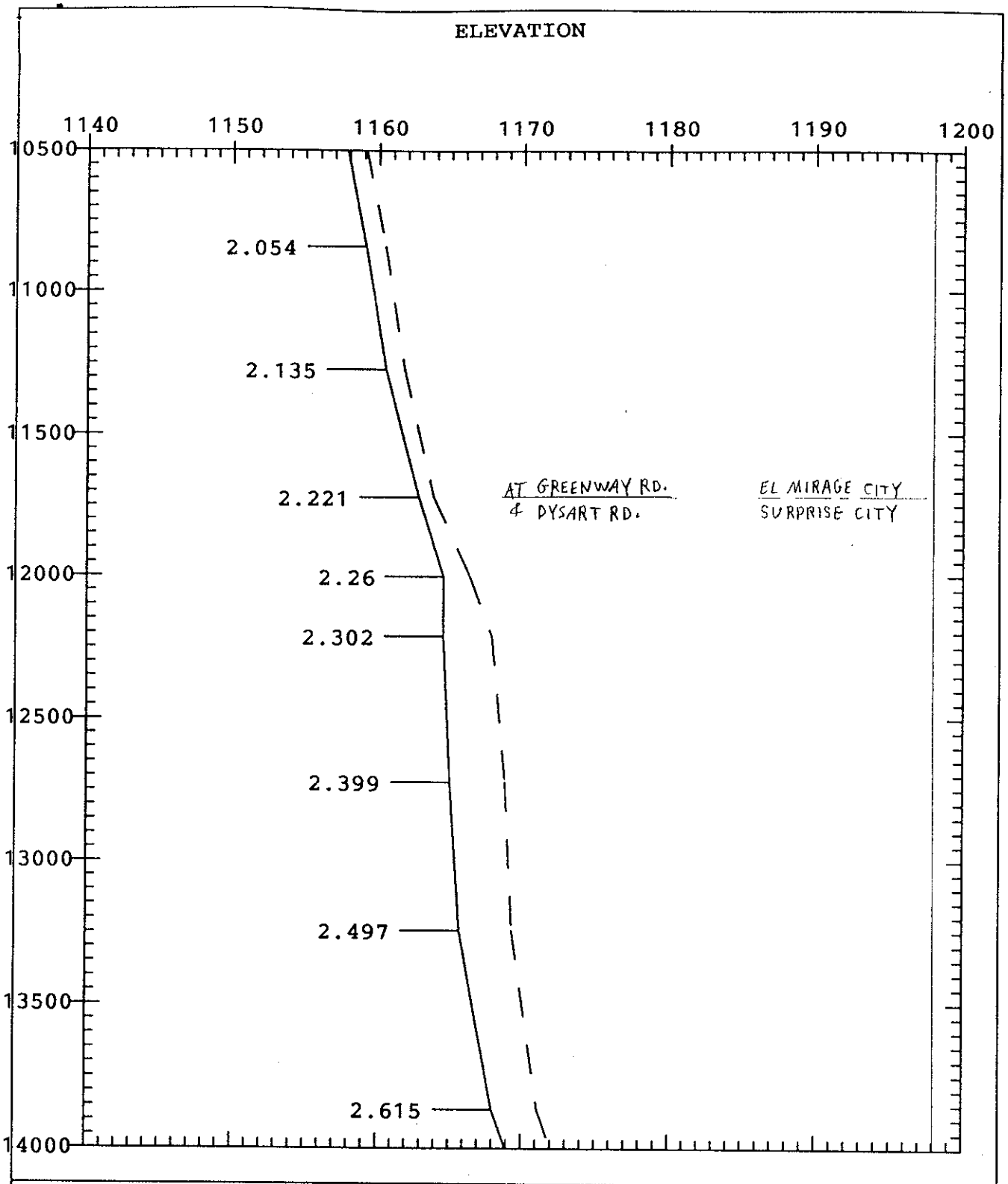
WASH 13A - LOWER EL MIRAGE WASH

TRIBUTARY



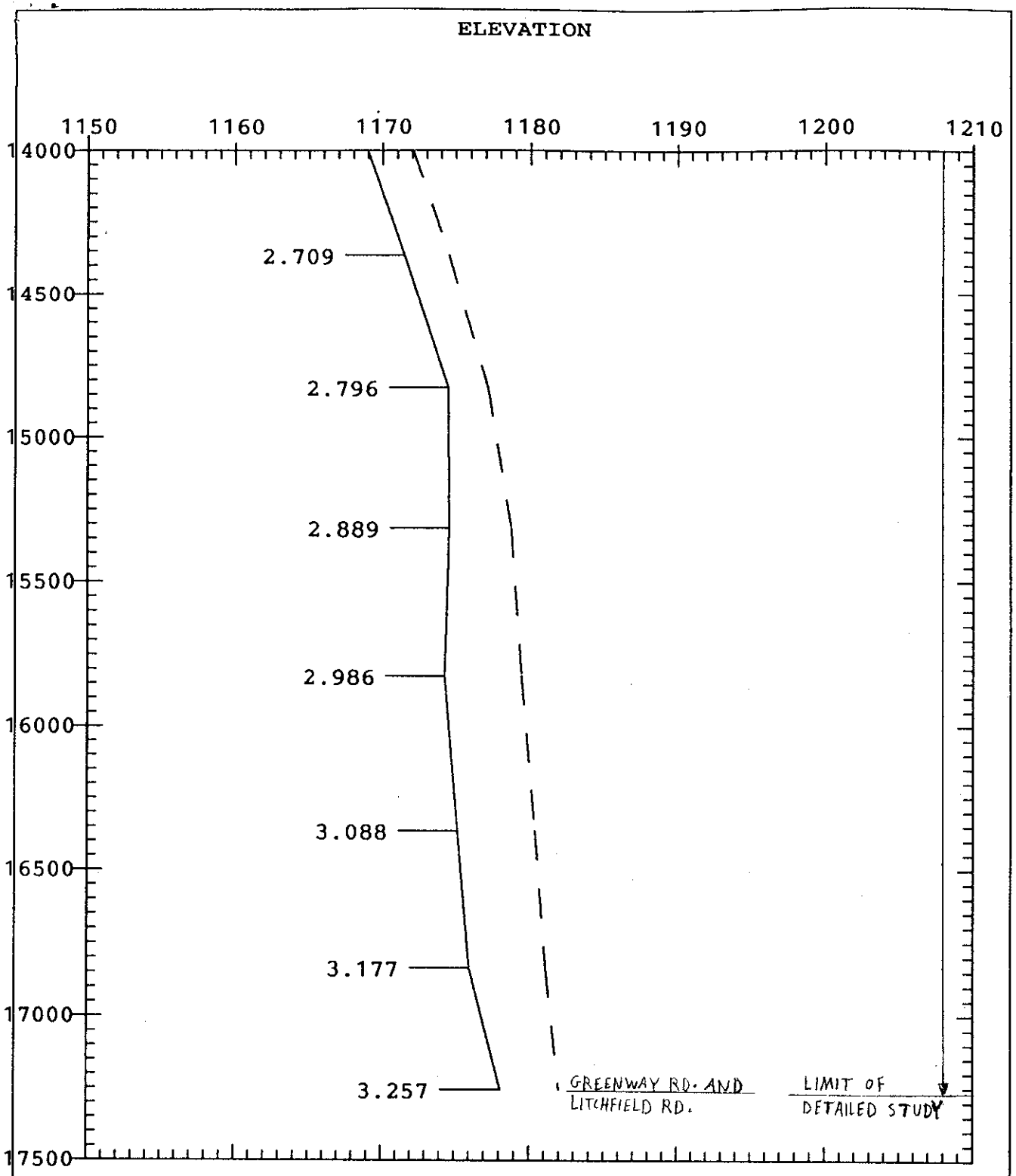
WASH 13A - LOWER EL MIRAGE WASH

TRIBUTARY

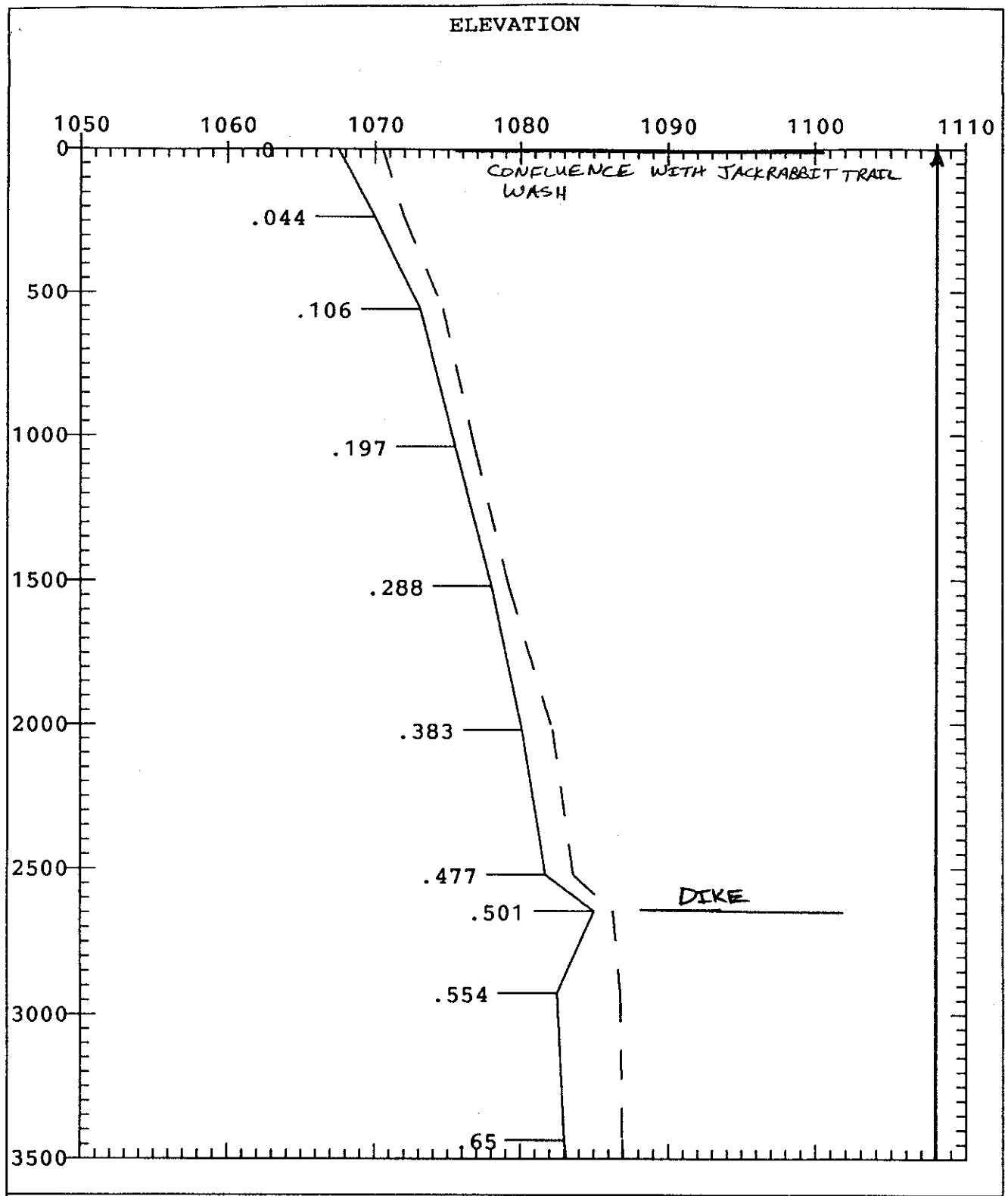


WASH 13A - LOWER EL MIRAGE WASH

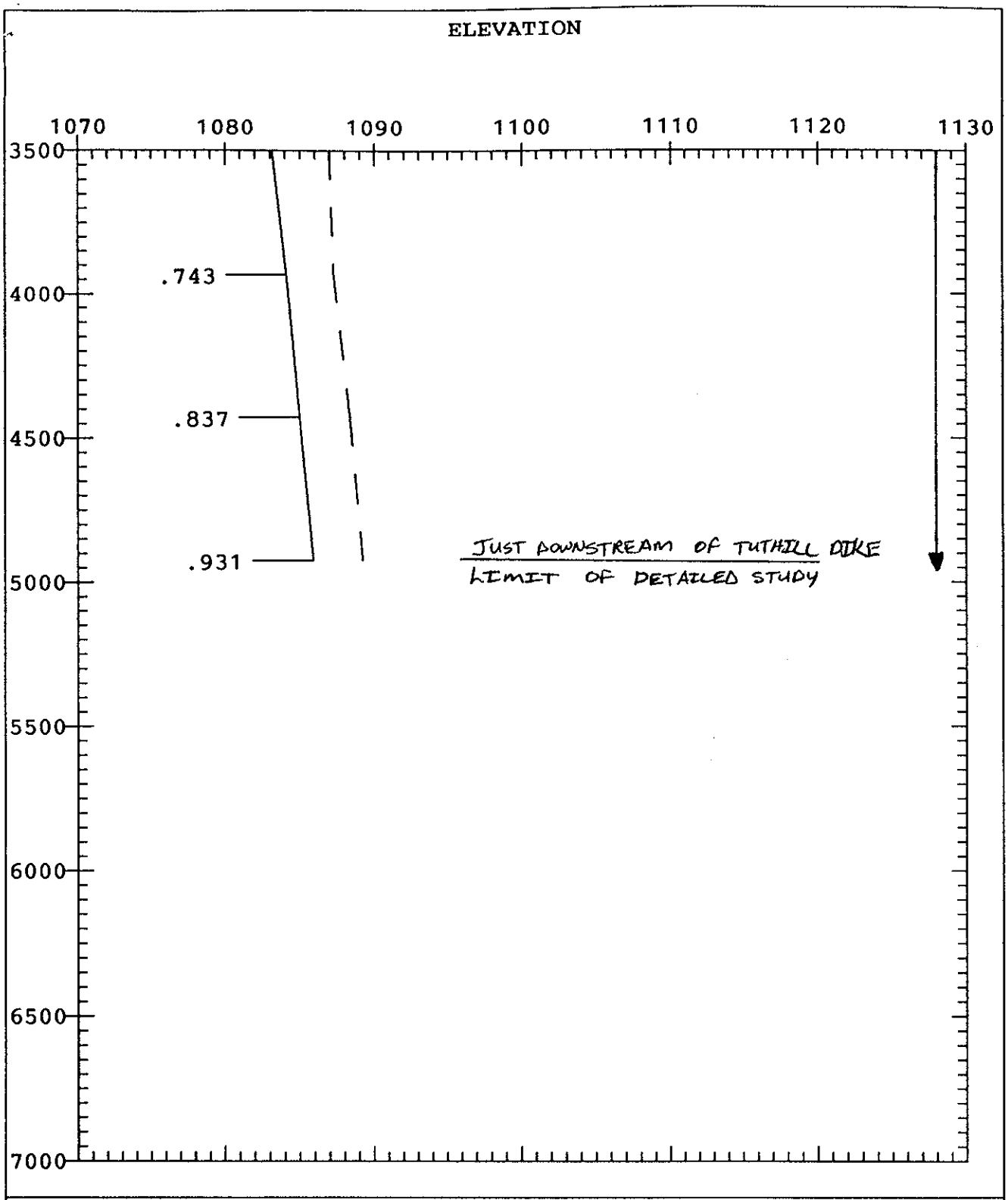
TRIBUTARY



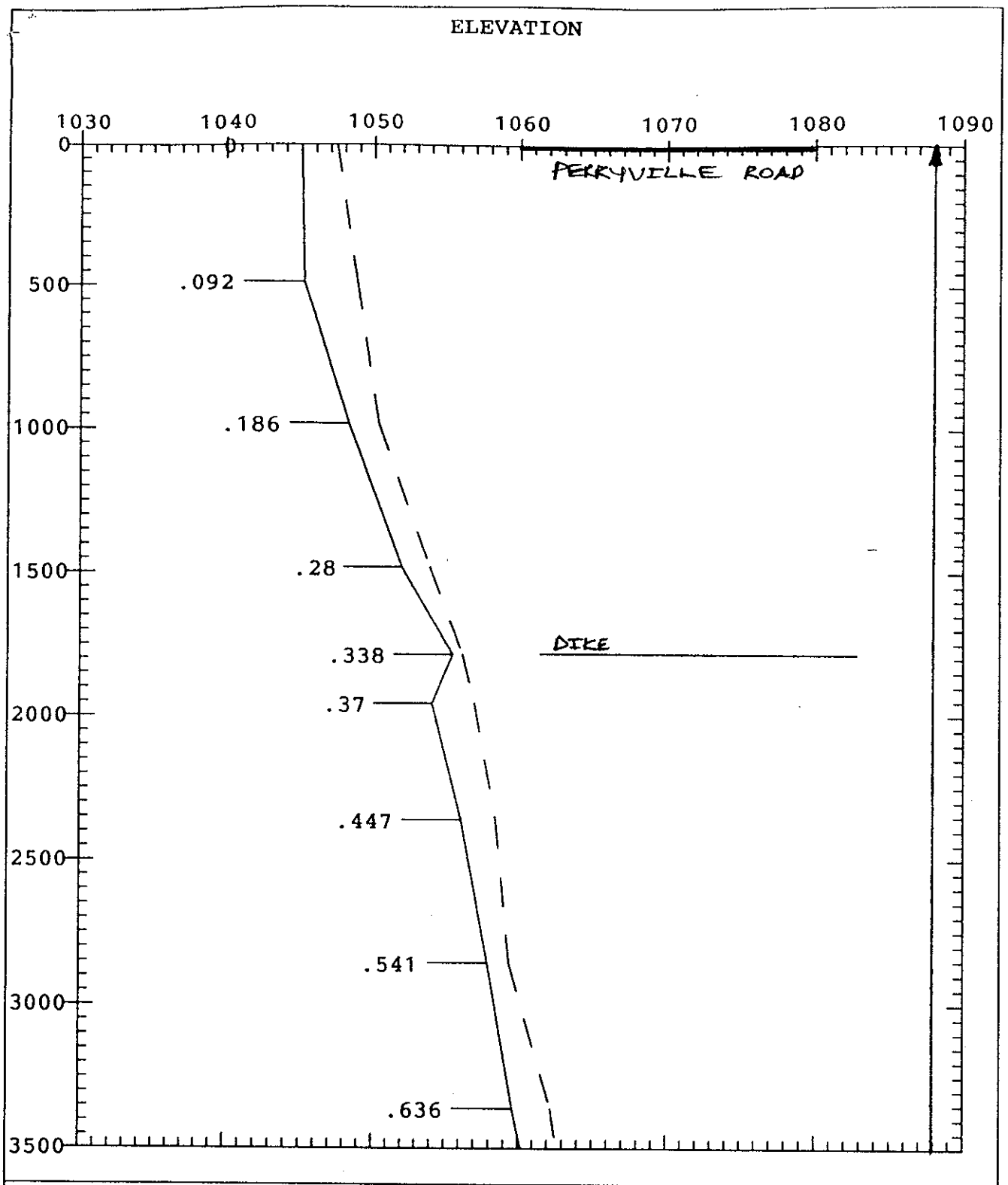
WASH 13A - LOWER EL MIRAGE WASH TRIBUTARY



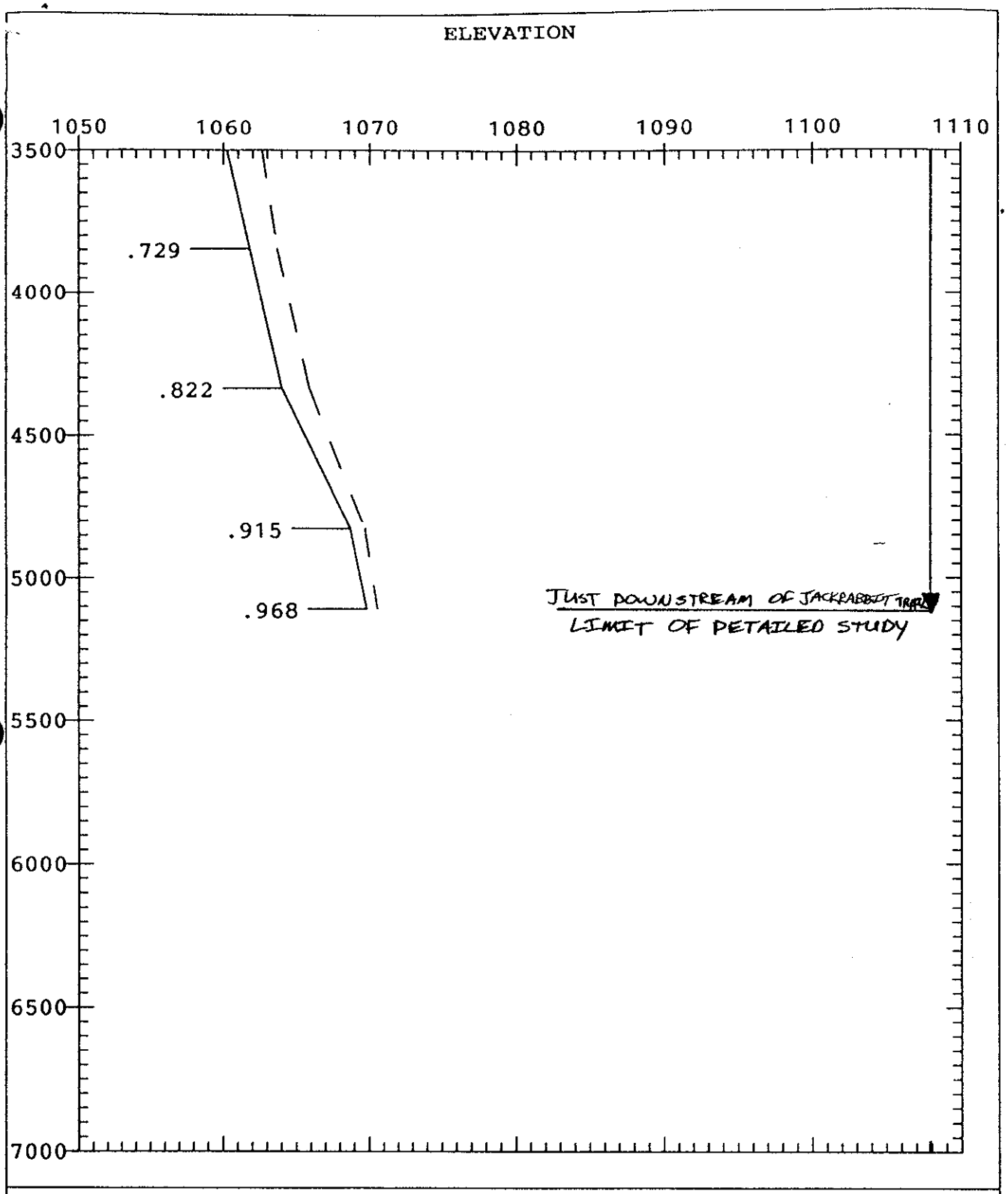
WASH 14-2 - I-10, JACKRABBIT TRAIL TO TUTHILL DIKE



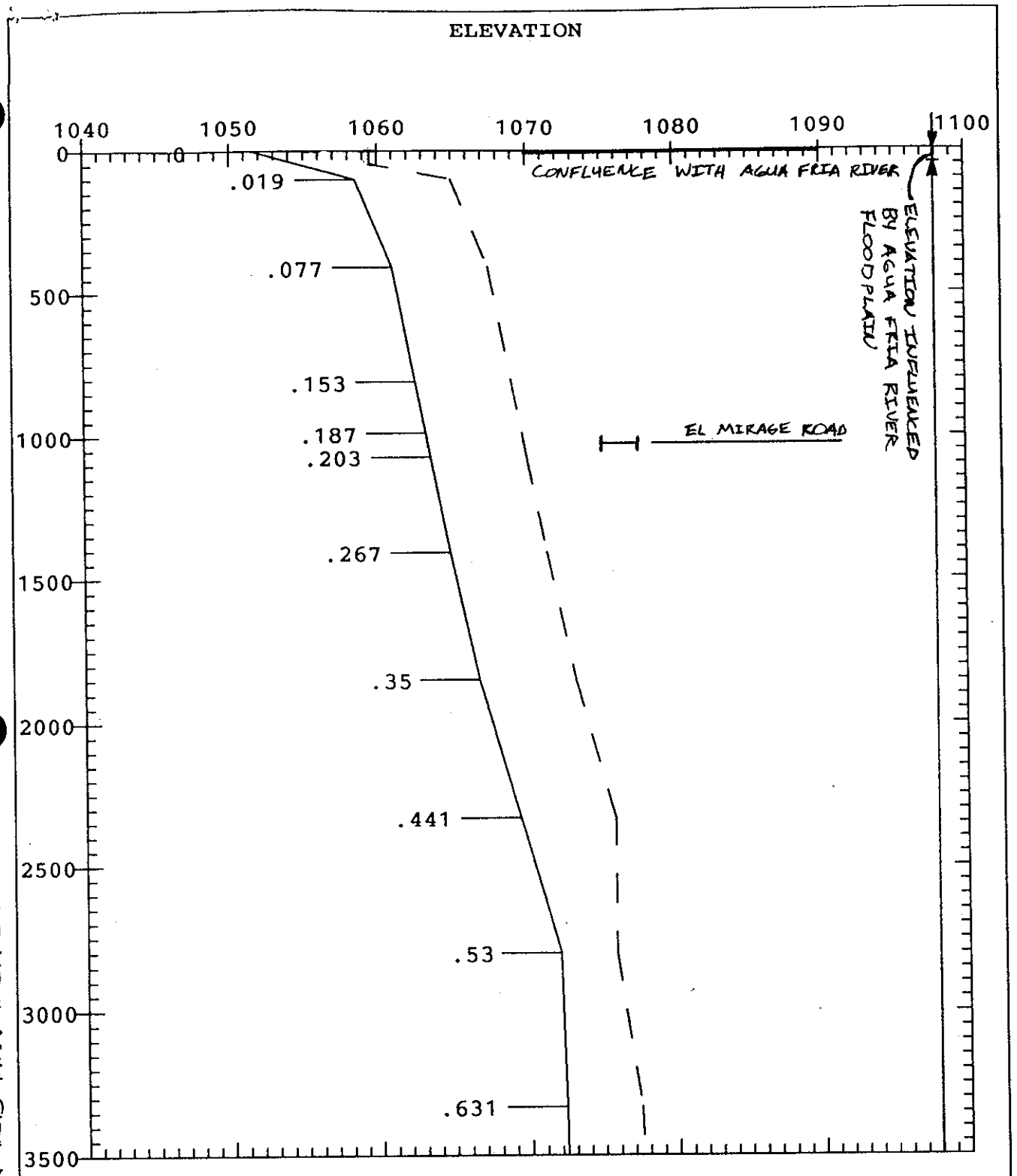
WASH 14-2 - I-10, JACKRABBIT TRAIL TO TUTHILL DIKE



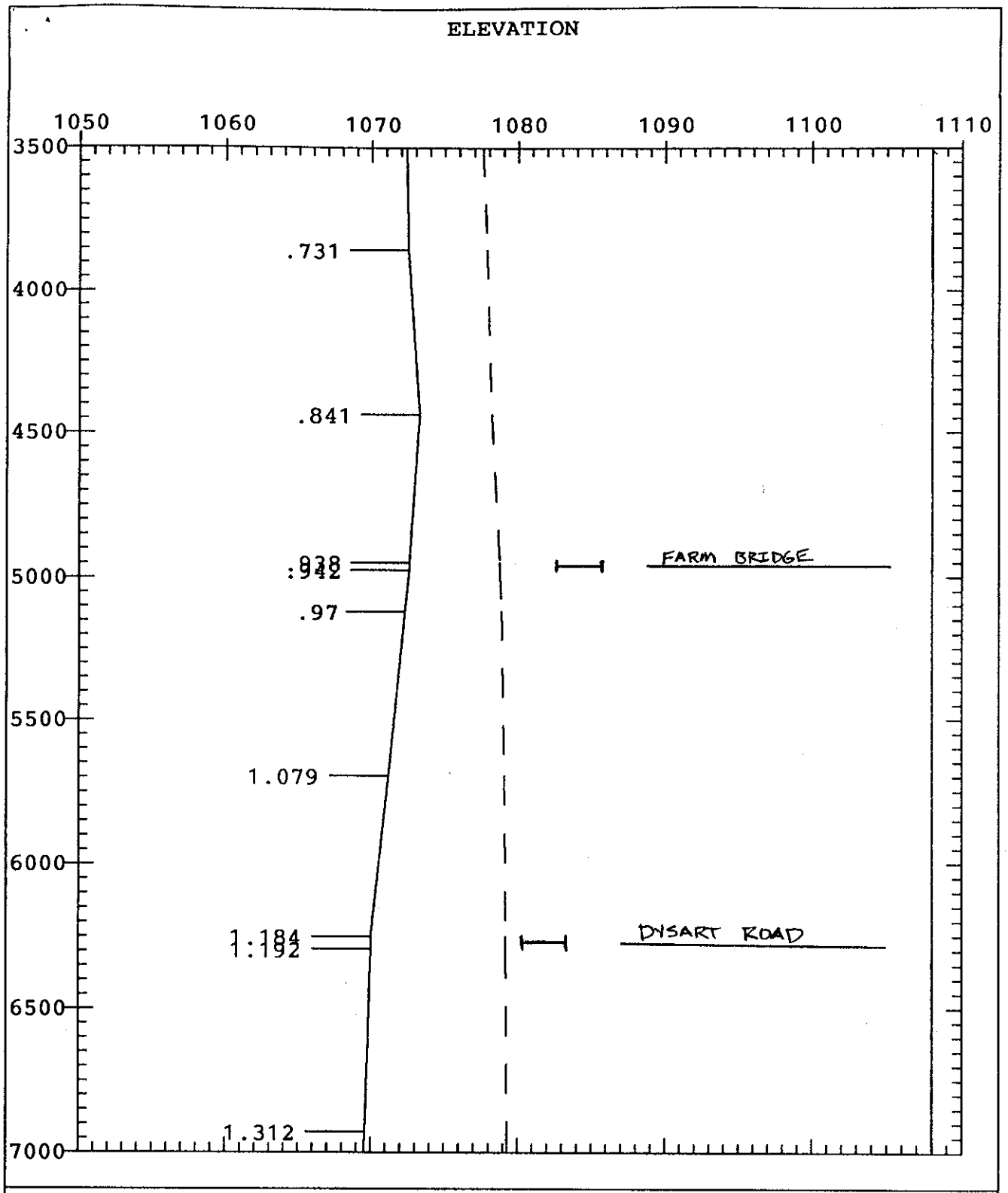
WASH14-3 - PERRYVILLE ROAD TO JACKRABBIT TRAIL



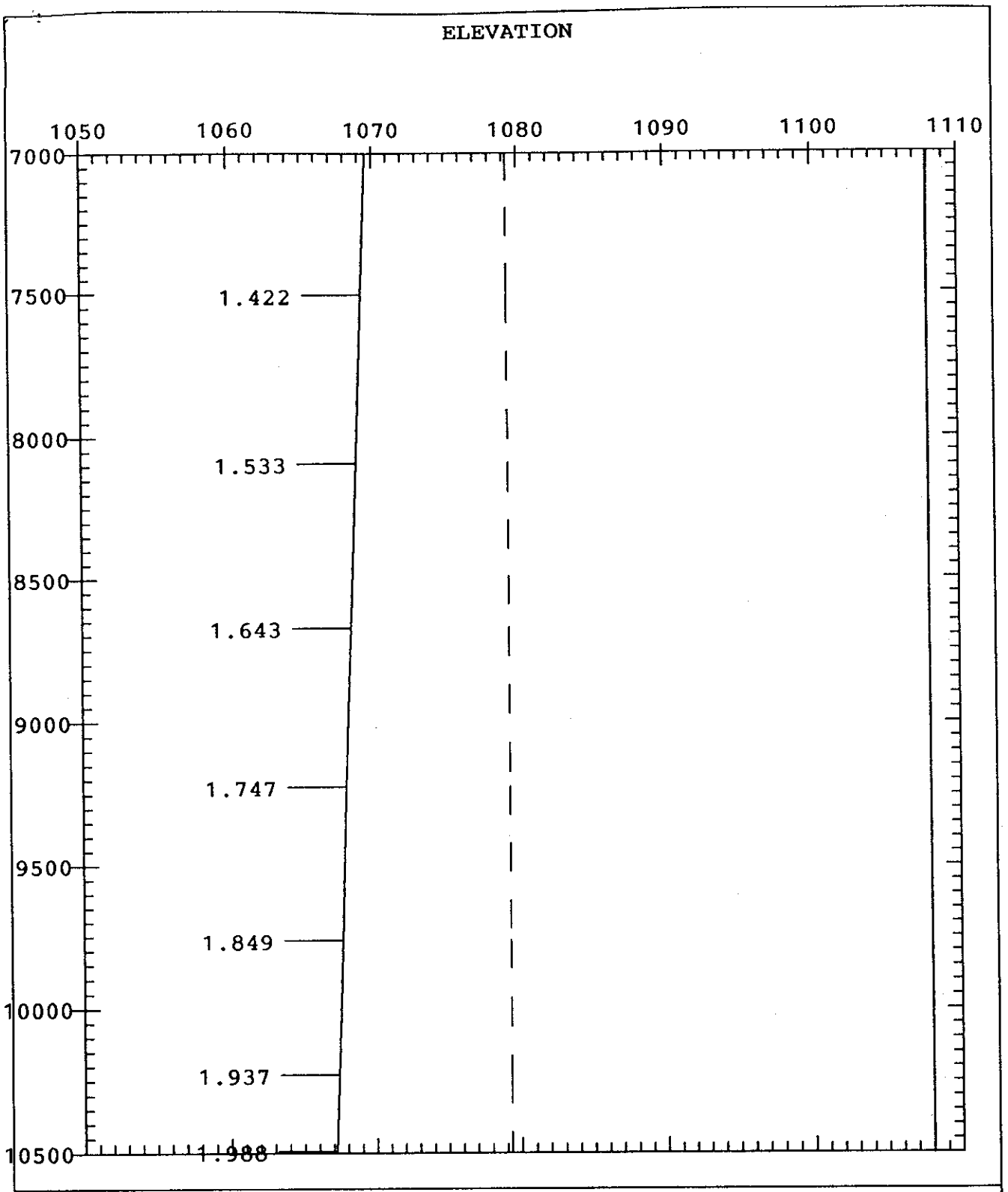
WASH14-3 - PERRYVILLE ROAD TO JACKRABBIT TRAIL



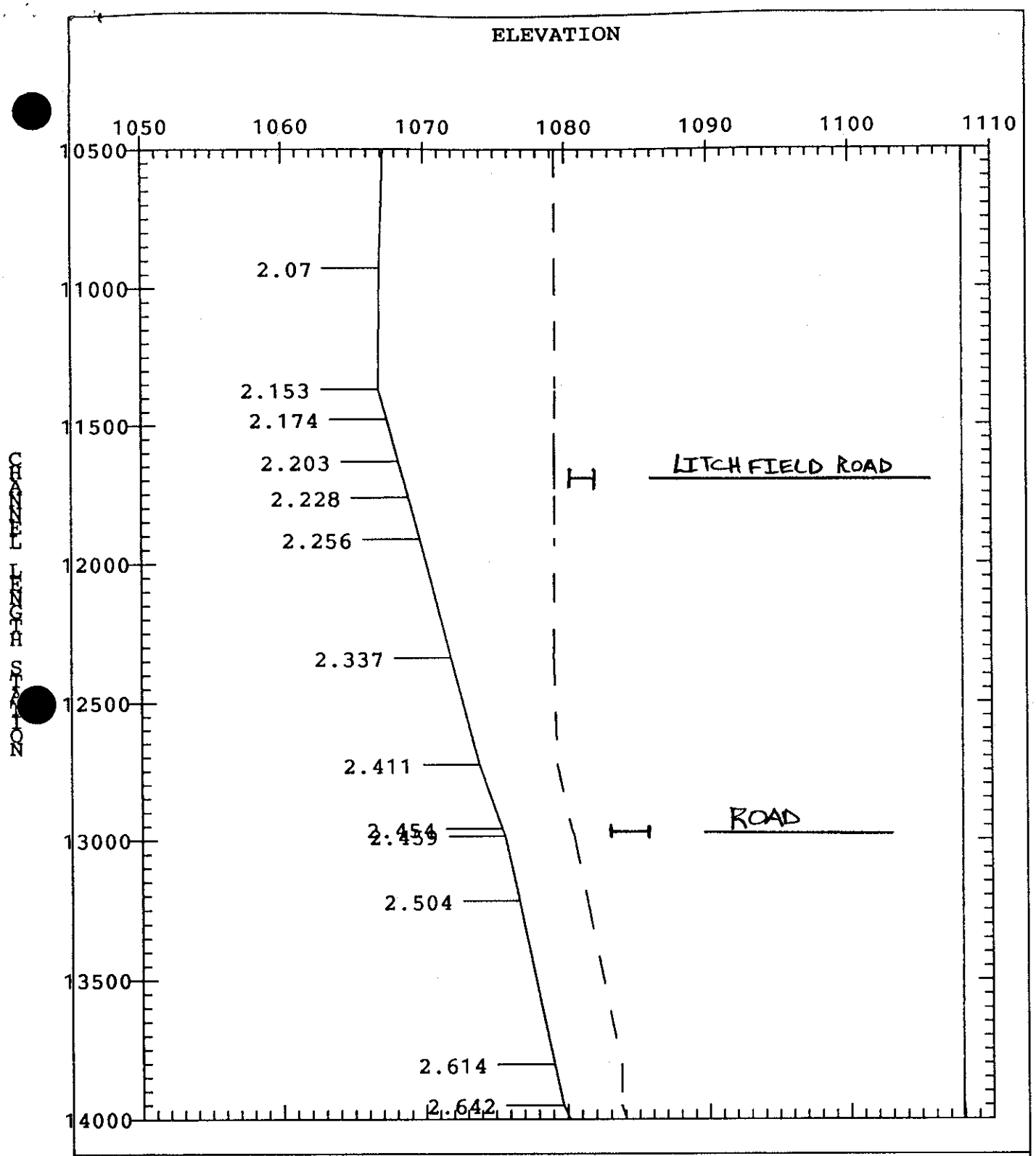
WASH 17 - DYSART DRAIN



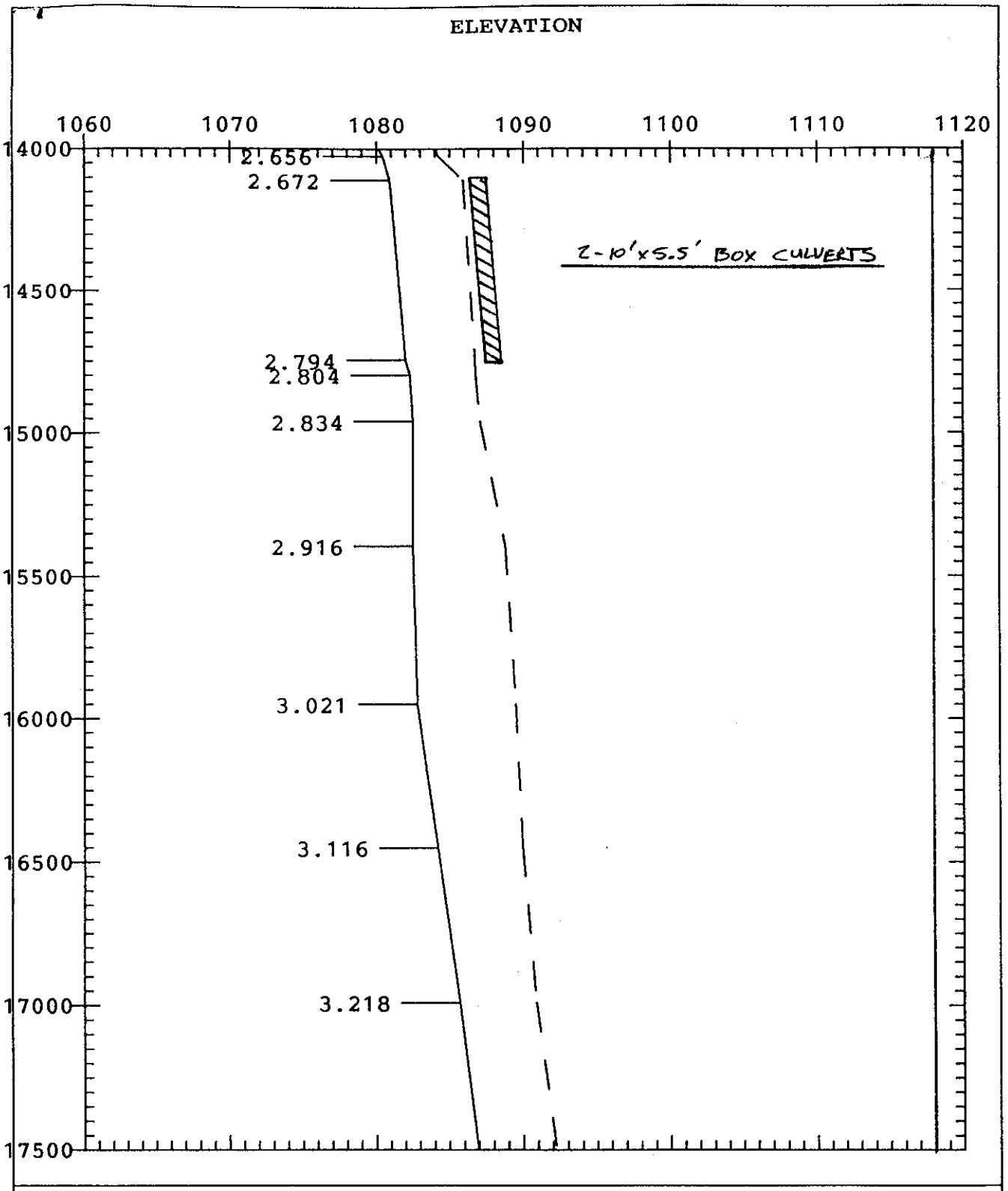
WASH 17 - DYSART DRAIN



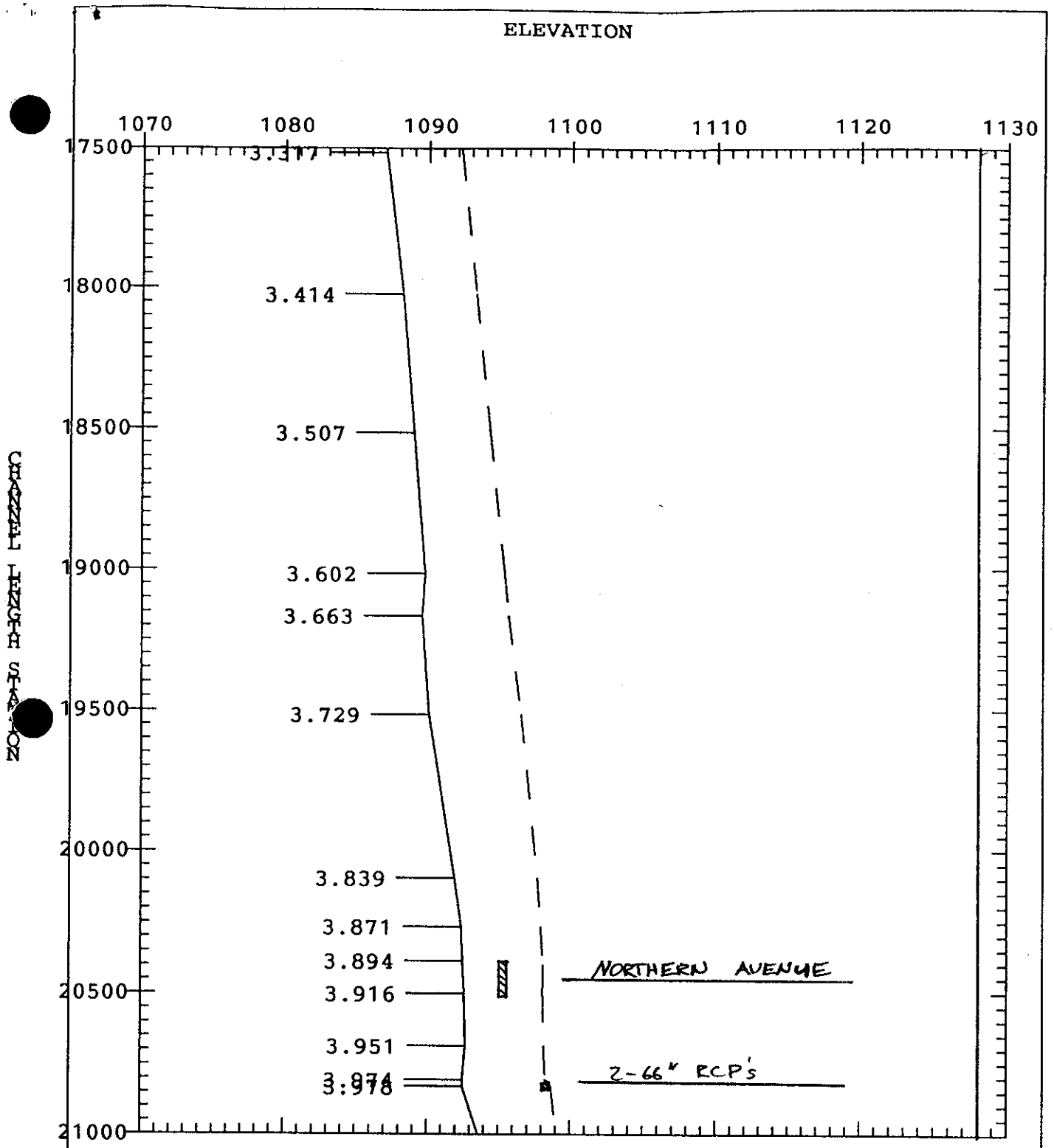
WASH 17 - DYSART DRAIN



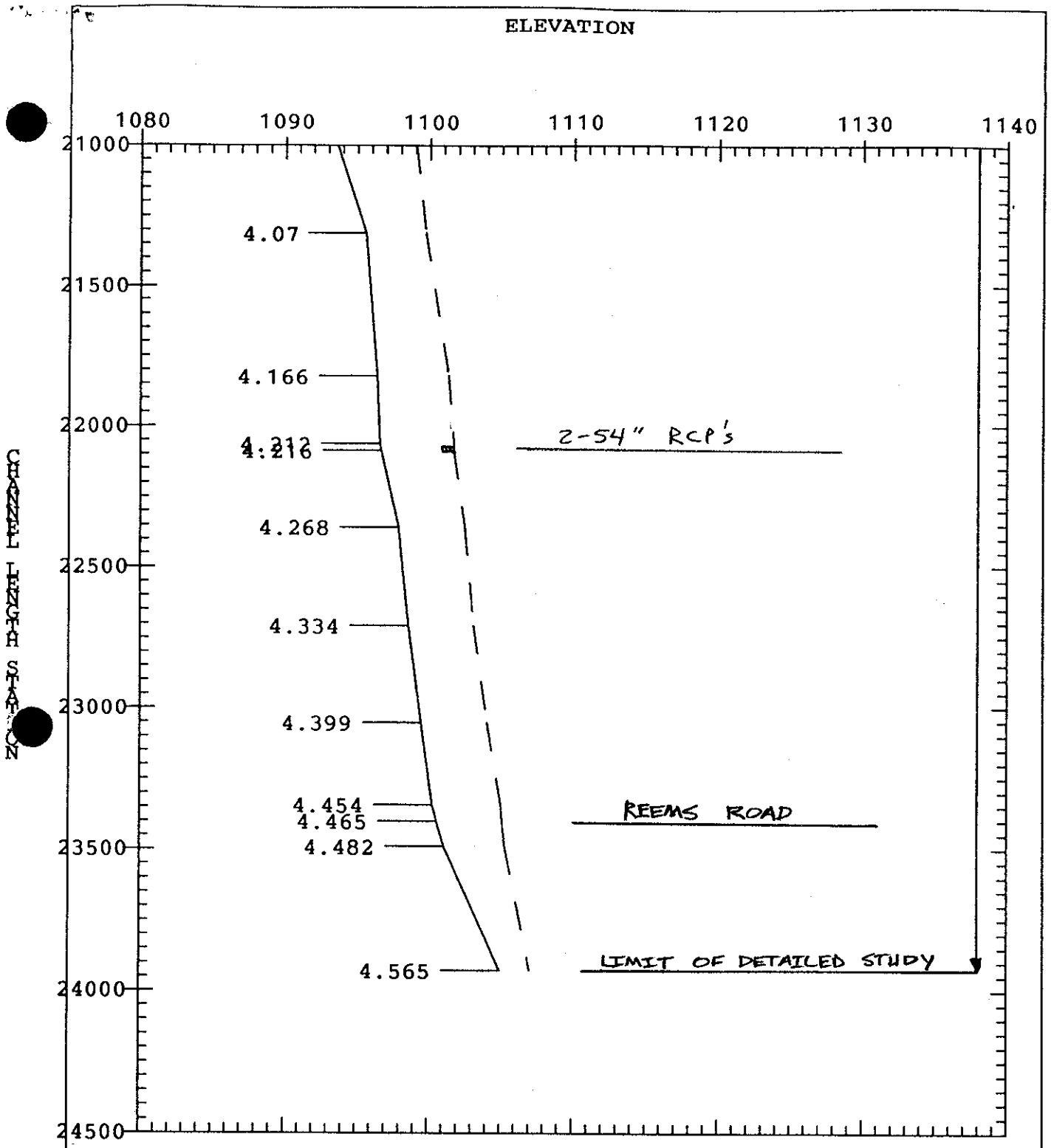
WASH 17 - DYSART DRAIN



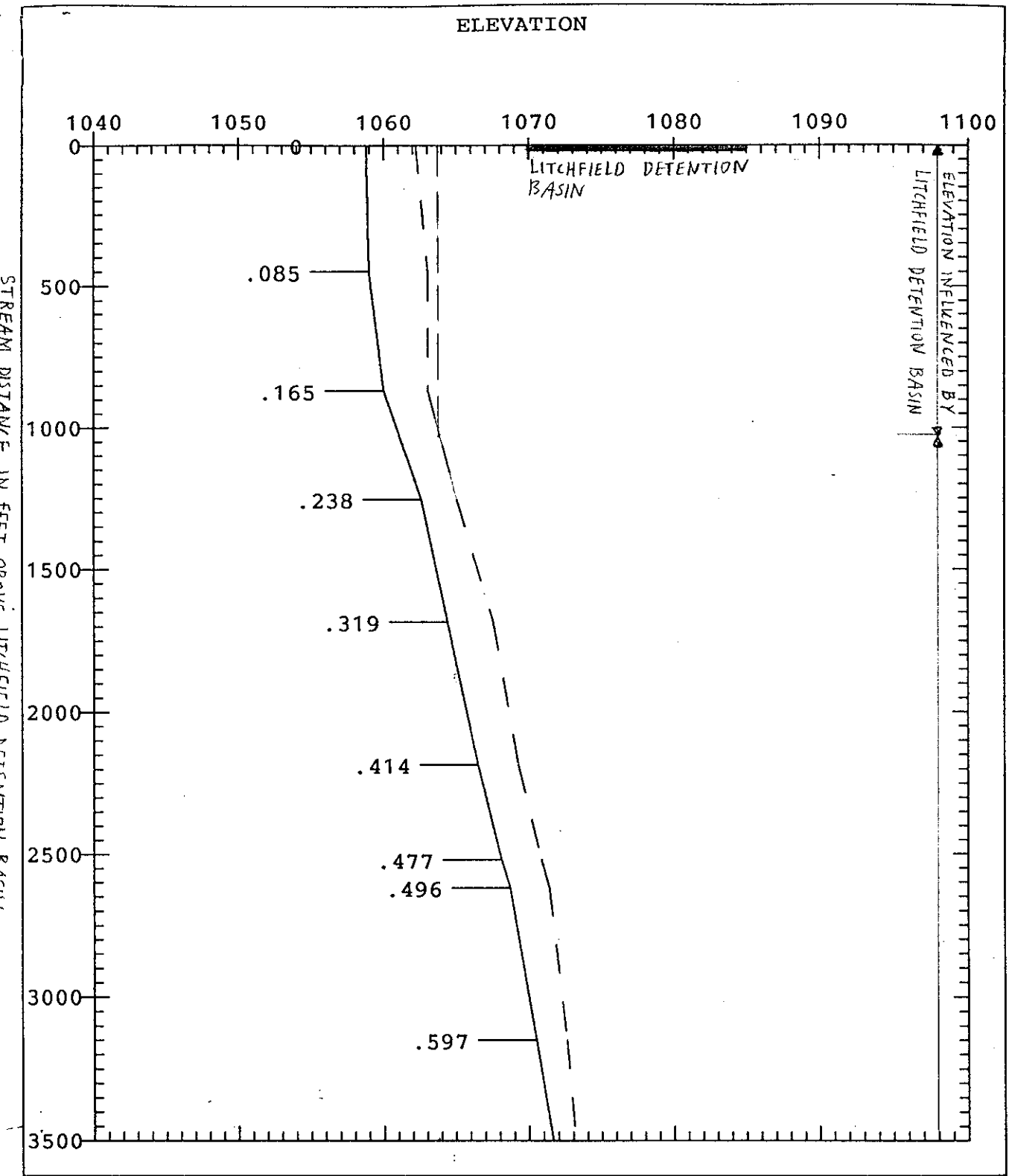
WASH 17 - DYSART DRAIN



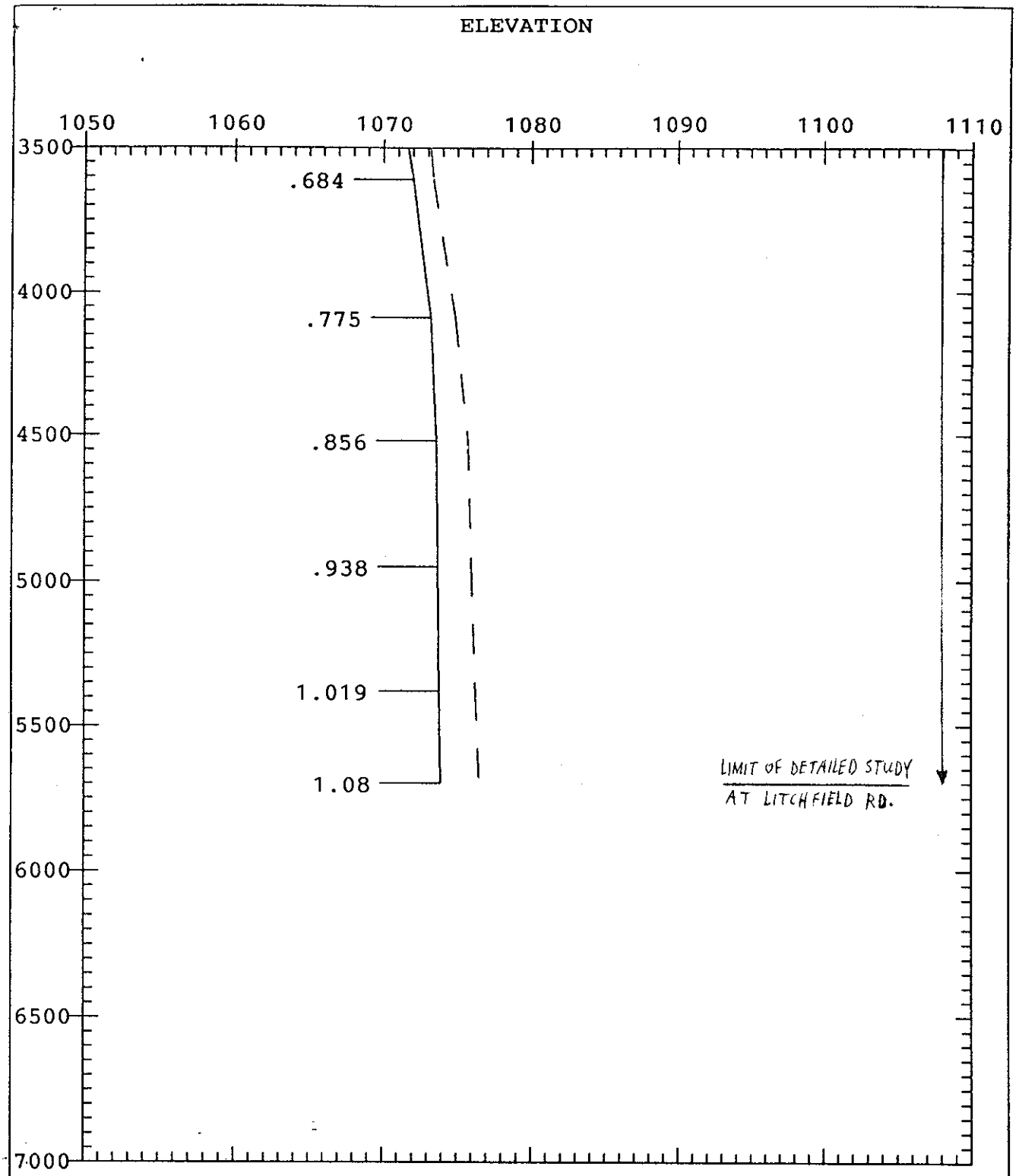
WASH 17 - DYSART DRAIN



WASH 17 - DYSART DRAIN



WASH 21 - LITCHFIELD WASH



WASH 21 - LITCHFIELD WASH

	4850.	C	IEM.	.	.	.	.	.	.	.	.	.
	4900.	C	IEM.	.	.	.	.	.	.	.	.	.
	4950.	C	IEM.	.	.	.	.	.	.	.	.	.
	5000.	C	E M	.	.	.	.	.	.	.	.	.
	5050.	C	WEM	.	.	.	.	.	.	.	.	.
	5100.	C	WEM	.	.	.	.	.	.	.	.	.
	5150.	C	IEM	.	.	.	.	.	.	.	.	.
	5200.	C	IEM	.	.	.	.	.	.	.	.	.
.99	5250.	C	IEM	.	.	.	.	.	.	.	.	.
	5300.	C	IEM	.	.	.	.	.	.	.	.	.
	5350.	C	IEM	.	.	.	.	.	.	.	.	.
	5400.	C	EM	.	.	.	.	.	.	.	.	.
	5450.	C	WE	.	.	.	.	.	.	.	.	.
	5500.	C	IE	.	.	.	.	.	.	.	.	.
	5550.	C	IE	.	.	.	.	.	.	.	.	.
	5600.	C	IE	.	.	.	.	.	.	.	.	.
	5650.	C	IEM	.	.	.	.	.	.	.	.	.
	5700.	C	IEM	.	.	.	.	.	.	.	.	.
1.09	5750.	.	EM	.	.	.	.	.	.	.	.	.
	5800.	C	WE	.	.	.	.	.	.	.	.	.
	5850.	C	IE	.	.	.	.	.	.	.	.	.
	5900.	C	IE	.	.	.	.	.	.	.	.	.
	5950.	C	IEM	.	.	.	.	.	.	.	.	.
	6000.	C	IEM	.	.	.	.	.	.	.	.	.
	6050.	C	IEM	.	.	.	.	.	.	.	.	.
	6100.	C	IEM	.	.	.	.	.	.	.	.	.
	6150.	C	.WE	.	.	.	.	.	.	.	.	.
	6200.	C	.WEM	.	.	.	.	.	.	.	.	.
1.18	6250.	C	.IEM	.	.	.	.	.	.	.	.	.
	6300.	C	.IEM	.	.	.	.	.	.	.	.	.
	6350.	C	.IEM	.	.	.	.	.	.	.	.	.
	6400.	C	.IEM	.	.	.	.	.	.	.	.	.
	6450.	C	.IEM	.	.	.	.	.	.	.	.	.
	6500.	C	.IEM	.	.	.	.	.	.	.	.	.
	6550.	C	.IE M	.	.	.	.	.	.	.	.	.
	6600.	C	.IWEM	.	.	.	.	.	.	.	.	.
	6650.	C	.IWEM	.	.	.	.	.	.	.	.	.
	6700.	C	.IREM	.	.	.	.	.	.	.	.	.
1.27	6750.	.	.IREM	.	.	.	.	.	.	.	.	.
	6800.	.	. IEM	.	.	.	.	.	.	.	.	.
	6850.	.	. IEM	.	.	.	.	.	.	.	.	.
	6900.	.	. IEM	.	.	.	.	.	.	.	.	.
	6950.	.	. IEM	.	.	.	.	.	.	.	.	.
	7000.	.	. IEM	.	.	.	.	.	.	.	.	.
	7050.	.	. IEM	.	.	.	.	.	.	.	.	.
	7100.	.	. IWEM	.	.	.	.	.	.	.	.	.
	7150.	.	. IWEM	.	.	.	.	.	.	.	.	.
	7200.	.	. WEM	.	.	.	.	.	.	.	.	.
1.37	7250.	.	. IEM	.	.	.	.	.	.	.	.	.
	7300.	.	. IEM	.	.	.	.	.	.	.	.	.
	7350.	.	. IEM	.	.	.	.	.	.	.	.	.
	7400.	.	. IEM	.	.	.	.	.	.	.	.	.
	7450.	.	. IEM	.	.	.	.	.	.	.	.	.
	7500.	.	. IWE	.	.	.	.	.	.	.	.	.
	7550.	.	. WE	.	.	.	.	.	.	.	.	.
	7600.	.	. IE	.	.	.	.	.	.	.	.	.
	7650.	.	. IE	.	.	.	.	.	.	.	.	.
	7700.	.	. IE	.	.	.	.	.	.	.	.	.
1.47	7750.	.	. IEM	.	.	.	.	.	.	.	.	.
	7800.	.	. IEM	.	.	.	.	.	.	.	.	.
	7850.	.	. IWE	.	.	.	.	.	.	.	.	.
	7900.	.	. WE	.	.	.	.	.	.	.	.	.

```
      7950.  .        .   IE  .        .        .        .        .        .        .        .        .
      8000.  .        .   IE  .        .        .        .        .        .        .        .        .
      8050.  .        .   IEM .        .        .        .        .        .        .        .        .
      8100.  .        .   IEM .        .        .        .        .        .        .        .        .
      8150.  .        .   IEM .        .        .        .        .        .        .        .        .
      8200.  .        .   IEM .        .        .        .        .        .        .        .        .
 1.56 8250.  .        .   IWE .        .        .        .        .        .        .        .        .
      8300.  .        .    WE .        .        .        .        .        .        .        .        .
      8350.  .        .    IE .        .        .        .        .        .        .        .        .
      8400.  .        .    IE .        .        .        .        .        .        .        .        .
      8450.  .        .    IE .        .        .        .        .        .        .        .        .
      8500.  .        .    IE .        .        .        .        .        .        .        .        .
      8550.  .        .    IE .        .        .        .        .        .        .        .        .
      8600.  .        .    IE .        .        .        .        .        .        .        .        .
      8650.  .        .    IE .        .        .        .        .        .        .        .        .
      8700.  .        .   IWE .        .        .        .        .        .        .        .        .
 1.66 8750.  .        .   IWE .        .        .        .        .        .        .        .        .
      8800.  .        .    IE .        .        .        .        .        .        .        .        .
      8850.  .        .    IE .        .        .        .        .        .        .        .        .
      8900.  .        .    IE .        .        .        .        .        .        .        .        .
      8950.  .        .    IE .        .        .        .        .        .        .        .        .
      9000.  .        .   IEM.        .        .        .        .        .        .        .        .
      9050.  .        .    EM.        .        .        .        .        .        .        .        .
      9100.  .        .    WE.        .        .        .        .        .        .        .        .
      9150.  .        .    IE.        .        .        .        .        .        .        .        .
      9200.  .        .    IEM        .        .        .        .        .        .        .        .
 1.75 9250.  .        .    IEM        .        .        .        .        .        .        .        .
      9300.  .        .    IEM        .        .        .        .        .        .        .        .
      9350.  .        .     EM        .        .        .        .        .        .        .        .
      9400.  .        .     WE        .        .        .        .        .        .        .        .
      9450.  .        .     IE        .        .        .        .        .        .        .        .
      9500.  .        .     IE        .        .        .        .        .        .        .        .
      9550.  .        .     IE        .        .        .        .        .        .        .        .
      9600.  .        .      EM       .        .        .        .        .        .        .        .
      9650.  .        .      WE       .        .        .        .        .        .        .        .
 1.84 9700.  .        .      IE       .        .        .        .        .        .        .        .
      9750.  C        .      IE       .        .        .        .        .        .        .        .
      9800.  C        .      IEM      .        .        .        .        .        .        .        .
 1.86 9850.  C        .      IE M     .        .        .        .        .        .        .        .
      9900.  C        .      IE M     .        .        .        .        .        .        .        .
      9950.  C        .      IE M     .        .        .        .        .        .        .        .
     10000.  C        .      .E M     .        .        .        .        .        .        .        .
     10050.  C        .      .E M     .        .        .        .        .        .        .        .
     10100.  C        .      .WEM     .        .        .        .        .        .        .        .
     10150.  C        .      .WEM     .        .        .        .        .        .        .        .
 1.93 10200.  C        .      .IEM     .        .        .        .        .        .        .        .
     10250.  C        .      .IEM     .        .        .        .        .        .        .        .
     10300.  C        .      .IEM     .        .        .        .        .        .        .        .
     10350.  C        .      .IEM     .        .        .        .        .        .        .        .
     10400.  C        .      .IEM     .        .        .        .        .        .        .        .
     10450.  C        .      . E M    .        .        .        .        .        .        .        .
     10500.  C        .      . WEM    .        .        .        .        .        .        .        .
     10550.  C        .      . WEM    .        .        .        .        .        .        .        .
     10600.  C        .      . IEM    .        .        .        .        .        .        .        .
     10650.  . C      .      . IEM    .        .        .        .        .        .        .        .
 2.02 10700.  .        .      . IEM    .        .        .        .        .        .        .        .
     10750.  .        .      . IE M   .        .        .        .        .        .        .        .
     10800.  .        .      . IE M   .        .        .        .        .        .        .        .
     10850.  .        .      .  WEM   .        .        .        .        .        .        .        .
     10900.  .        .      .  WEM   .        .        .        .        .        .        .        .
     10950.  .        .      .  IEM   .        .        .        .        .        .        .        .
     11000.  .        .      .  IE M  .        .        .        .        .        .        .        .
```

	11050.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11100.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11150.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11200.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11250.	.	.	.	IEM	.	.	.	.	.	.	.	.
2.13	11300.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11350.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11400.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11450.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11500.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11550.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11600.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11650.	.	.	.	IE M	.	.	.	.	.	.	.	.
2.21	11700.	.	.	.	IE M	.	.	.	.	.	.	.	.
	11750.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11800.	.	.	.	IWEM	.	.	.	.	.	.	.	.
	11850.	.	.	.	IEM	.	.	.	.	.	.	.	.
	11900.	.	.	.	IEM	.	.	.	.	.	.	.	.
	11950.	.	.	.	IE M.	.	.	.	.	.	.	.	.
	12000.	.	.	.	IE M.	.	.	.	.	.	.	.	.
	12050.	.	.	.	IE M.	.	.	.	.	.	.	.	.
	12100.	.	.	.	E M.	.	.	.	.	.	.	.	.
	12150.	.	.	.	WEM.	.	.	.	.	.	.	.	.
2.30	12200.	.	.	.	IEM.	.	.	.	.	.	.	.	.
	12250.	.	.	.	IEM.	.	.	.	.	.	.	.	.
	12300.	.	.	.	IEM.	.	.	.	.	.	.	.	.
	12350.	.	.	.	IE M	.	.	.	.	.	.	.	.
	12400.	.	.	.	WEM	.	.	.	.	.	.	.	.
	12450.	.	.	.	IEM	.	.	.	.	.	.	.	.
2.36	12500.	.	.	.	IEM	.	.	.	.	.	.	.	.
	12550.	C	.	.	IEM	.	.	.	.	.	.	.	.
	12600.	C	.	.	IEM	.	.	.	.	.	.	.	.
2.39	12650.	C	.	.	WEM	.	.	.	.	.	.	.	.
	12700.	C	.	.	IEM	.	.	.	.	.	.	.	.
	12750.	C	.	.	IEM	.	.	.	.	.	.	.	.
	12800.	C	.	.	IEM	.	.	.	.	.	.	.	.
	12850.	C	.	.	IEM	.	.	.	.	.	.	.	.
	12900.	C	.	.	IWEM	.	.	.	.	.	.	.	.
	12950.	C	.	.	WEM	.	.	.	.	.	.	.	.
	13000.	C	.	.	IEM	.	.	.	.	.	.	.	.
	13050.	C	.	.	IEM	.	.	.	.	.	.	.	.
	13100.	.	C.	.	IEM	.	.	.	.	.	.	.	.
2.49	13150.	.	.	.	IE M	.	.	.	.	.	.	.	.
	13200.	.	C .	.	IE M	.	.	.	.	.	.	.	.
	13250.	C	.	.	.WEM	.	.	.	.	.	.	.	.
	13300.	C	.	.	.IEM	.	.	.	.	.	.	.	.
	13350.	C	.	.	.IEM	.	.	.	.	.	.	.	.
	13400.	C	.	.	.IE M	.	.	.	.	.	.	.	.
	13450.	C	.	.	.IE M	.	.	.	.	.	.	.	.
	13500.	C	.	.	.IE M	.	.	.	.	.	.	.	.
	13550.	C	.	.	.IE M	.	.	.	.	.	.	.	.
	13600.	C	.	.	. WE M	.	.	.	.	.	.	.	.
2.58	13650.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	13700.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	13750.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	13800.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	13850.	C	.	.	. WEM	.	.	.	.	.	.	.	.
	13900.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	13950.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	14000.	C	.	.	. IE M	.	.	.	.	.	.	.	.
	14050.	C	.	.	. WEM	.	.	.	.	.	.	.	.
	14100.	.	C .	.	. IEM	.	.	.	.	.	.	.	.

```
2.68 14150.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14200.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14250.  .    .    .    .   IE M .    .    .    .    .    .    .
     14300.  .    .    .    .   WEM  .    .    .    .    .    .    .
     14350.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14400.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14450.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14500.  .    .    .    .    E M .    .    .    .    .    .    .
     14550.  .    .    .    .   WEM  .    .    .    .    .    .    .
     14600.  .    .    .    .   IEM  .    .    .    .    .    .    .
2.77 14650.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14700.  .    .    .    .   IEM  .    .    .    .    .    .    .
     14750.  .    .    .    .    E M.    .    .    .    .    .    .
     14800.  .    .    .    .   IEM.    .    .    .    .    .    .
     14850.  .    .    .    .   IEM.    .    .    .    .    .    .
     14900.  .    .    .    .    EM.    .    .    .    .    .    .
     14950.  .    .    .    .    WE.    .    .    .    .    .    .
     15000.  .    .    .    .    IEM    .    .    .    .    .    .
     15050.  .    .    .    .    IEM    .    .    .    .    .    .
     15100.  .    .    .    .     WE    .    .    .    .    .    .
2.87 15150.  .    .    .    .     IE    .    .    .    .    .    .
     15200.  .    .    .    .     IEM   .    .    .    .    .    .
     15250.  .    .    .    .      WE   .    .    .    .    .    .
     15300.  .    .    .    .      IE   .    .    .    .    .    .
     15350.  .    .    .    .      IE   .    .    .    .    .    .
     15400.  .    .    .    .      .EM  .    .    .    .    .    .
     15450.  .    .    .    .      .WE  .    .    .    .    .    .
     15500.  .    .    .    .      .IE  .    .    .    .    .    .
     15550.  .    .    .    .      .IEM .    .    .    .    .    .
     15600.  .    .    .    .      . EM .    .    .    .    .    .
2.96 15650.  .    .    .    .      . WE .    .    .    .    .    .
     15700.  .    .    .    .      . IEM .   .    .    .    .    .
     15750.  .    .    .    .      . IEM .   .    .    .    .    .
     15800.  .    .    .    .      .  EM .   .    .    .    .    .
     15850.  .    .    .    .      .  IE .   .    .    .    .    .
     15900.  .    .    .    .      .  IEM .  .    .    .    .    .
     15950.  .    .    .    .      .  IEM .  .    .    .    .    .
     16000.  .    .    .    .      .   WE .  .    .    .    .    .
     16050.  .    .    .    .      .   IEM .  .    .    .    .    .
     16100.  .    .    .    .      .   IEM .  .    .    .    .    .
     16150.  .    .    .    .      .   IEM .  .    .    .    .    .
     16200.  .    .    .    .      .   WE .   .    .    .    .    .
3.07 16250.  .    .    .    .      .   WEM .  .    .    .    .    .
     16300.  .    .    .    .      .   IEM .  .    .    .    .    .
     16350.  .    .    .    .      .   IEM .  .    .    .    .    .
     16400.  .    .    .    .      .    EM .  .    .    .    .    .
     16450.  .    .    .    .      .    IEM . .    .    .    .    .
     16500.  .    .    .    .      .    IEM . .    .    .    .    .
     16550.  .    .    .    .      .    IEM . .    .    .    .    .
     16600.  .    .    .    .      .     WE . .    .    .    .    .
3.15 16650.  .    .    .    .      .     IEM. .    .    .    .    .
     16700.  .    .    .    .      .      EM. .    .    .    .    .
     16750.  .    .    .    .      .      IE. .    .    .    .    .
     16800.  .    .    .    .      .      IEM  .   .    .    .    .
     16850.  .    .    .    .      .       EM  .   .    .    .    .
     16900.  .    .    .    .      .       IE  .   .    .    .    .
     16950.  .    .    .    .      .       IE  .   .    .    .    .
     17000.  .    .    .    .      .        WE .   .    .    .    .
     17050.  .    .    .    .      .        IE .   .    .    .    .
     17100.  .    .    .    .      .        .E .   .    .    .    .
3.25 17150.  .    .    .    .      .        .WE .  .    .    .    .
```

1

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
        100 - YEAR STORM EVENT     FLOODPLAIN RUN       FILE:  2.H2I
T3      WASH "2" -  WHITE TANKS #3 WASH

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0    1192.29      0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0
```



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


*PROF 2

CCHV=     .300 CEHV=     .500
*SECNO  .000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     9937.9   10034.8  TYPE=      1  TARGET=       96.870

          Q @ X1 = 0.000 TO X1 = 1.085 EQUALS Q AT CP13
          Q = 1743 CFS

          MATCH FLOODPLAIN INTO 100-YEAR PONDING WATER SURFACE ELEVATION BEHIND
          WHITE TANKS STRUCTURE #3.

     .000      5.29   1192.29       .00   1192.29   1193.30      1.01       .00       .00   1190.60
   1743.0     356.7    1386.3        .0      51.5     166.2        .0        .0        .0 100000.00
     .00      6.93      8.34       .00      .035      .035      .000      .000   1187.00   9937.91
  .011157        0.        0.        0.         0         0         0       .00     95.09  10034.74


*SECNO  .082

3470 ENCROACHMENT STATIONS=     9949.0   10029.9  TYPE=      1  TARGET=       80.820
     .082      4.57   1196.97       .00   1196.97   1198.08      1.10      4.73       .05   1196.30
   1743.0     504.2    1235.6       3.2      64.9     142.0       2.4       2.1        .9   1196.00
     .01      7.77      8.70      1.34      .035      .035      .070      .000   1192.40   9949.04
  .010604      435.      435.      435.         3         0         0       .00     80.82  10029.86


CCHV=     .100 CEHV=     .300
*SECNO  .162
```

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9944.0 10050.0 TYPE= 1 TARGET= 106.000

.162	4.10	1201.60	1201.60	1201.60	1202.76	1.16	4.53	.02	1200.00
1743.0	554.7	1145.1	43.3	74.8	122.8	22.6	4.2	1.8	1200.00
.03	7.41	9.33	1.91	.035	.035	.070	.000	1197.50	9944.00
.010948	420.	420.	420.	2	12	0	.00	104.25	10048.25

1

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

*SECNO .244

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.20

3470 ENCROACHMENT STATIONS= 9932.8 10037.0 TYPE= 1 TARGET= 104.160

.244	5.51	1204.31	.00	1204.31	1204.70	.39	1.87	.08	1201.00
1743.0	756.4	985.8	.8	148.5	197.5	2.6	7.0	2.8	1204.00
.05	5.10	4.99	.29	.035	.035	.070	.000	1198.80	9932.85
.002270	435.	435.	435.	4	0	0	.00	104.15	10037.00

*SECNO .338

3470 ENCROACHMENT STATIONS= 9955.3 10085.2 TYPE= 1 TARGET= 129.870

.338	5.41	1205.41	.00	1205.41	1205.75	.34	1.05	.01	1201.10
1743.0	61.8	1334.4	346.8	20.9	255.5	176.7	11.6	4.1	1202.30
.08	2.95	5.22	1.96	.035	.035	.070	.000	1200.00	9955.31
.001960	500.	495.	495.	3	0	0	.00	129.87	10085.18

*SECNO .392

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .68

3470 ENCROACHMENT STATIONS= 9926.4 10045.3 TYPE= 1 TARGET= 118.960

.392	4.47	1206.07	.00	1206.07	1206.61	.54	.79	.06	1204.00
1743.0	24.8	1603.7	114.5	8.9	262.7	54.6	14.2	5.0	1204.50
.10	2.78	6.10	2.10	.035	.035	.070	.000	1201.60	9926.38
.004256	285.	285.	290.	2	0	0	.00	118.96	10045.34

HV= .300 CEHV= .500
*SECNO .423
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9849.7 10004.6 TYPE= 1 TARGET= 154.930

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
.423	2.93	1208.93	1208.93	1208.94	1209.73	.80	1.22	.13	100000.00
1743.0	.0	1743.0	.0	.0	243.0	.0	15.2	5.5	100000.00
.10	.00	7.17	.00	.000	.035	.000	.000	1206.00	9849.70
.015764	170.	165.	160.	20	14	0	.00	154.93	10004.63

*SECNO .437

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9880.4 10142.5 TYPE= 1 TARGET= 262.030

.437	2.88	1213.38	1213.38	1213.36	1214.11	.73	.90	.02	1212.00
1743.0	97.3	1544.7	101.0	56.2	213.4	58.3	15.7	5.8	1212.00
.11	1.73	7.24	1.73	.070	.035	.070	.000	1210.50	9880.43
.010581	70.	70.	70.	20	5	0	.00	262.03	10142.46

*SECNO .452

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 8.71

3470 ENCROACHMENT STATIONS= 9894.7 10193.9 TYPE= 1 TARGET= 299.229

.452	14.27	1214.27	.00	1214.28	1214.34	.08	.04	.20	1210.00
1743.0	45.6	1536.2	161.2	114.2	656.0	335.4	17.0	6.3	1210.00
.12	.40	2.34	.48	.070	.035	.070	.000	1200.00	9895.37
.000139	80.	80.	80.	2	0	0	.00	297.94	10193.30

*SECNO .484

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.10

3470 ENCROACHMENT STATIONS= 9940.0 10131.7 TYPE= 1 TARGET= 191.700

.484	21.35	1214.35	.00	1214.36	1214.37	.02	.01	.02	1210.00
1743.0	5.2	1722.7	15.1	33.5	1710.0	114.6	22.7	7.2	1210.00
.16	.16	1.01	.13	.070	.035	.070	.000	1193.00	9940.00
.000015	225.	170.	125.	2	0	0	.00	190.97	10130.97

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV

```
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .551

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .48


3470 ENCROACHMENT STATIONS=     9860.0   10061.9  TYPE=      1  TARGET=      201.880
      .551     13.85   1214.35      .00   1214.37   1214.38      .02       .01       .00   1202.00
    1743.0    1120.9     488.3    133.9    1377.3     262.3    238.5      35.5       8.6   1202.00
      .24       .81      1.86      .56      .070      .035     .070      .000   1200.50   9860.00
   .000063     200.      355.     380.         1         0        0       .00    201.82  10061.82


*SECNO  .630

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .26


3470 ENCROACHMENT STATIONS=     9927.5   10106.5  TYPE=      1  TARGET=      178.980
      .630      7.72   1214.32      .00   1214.33   1214.54      .22       .06       .10   1210.00
    1743.0     221.9    1279.2    241.9      151.4     300.0    183.5      46.5      10.3   1210.00
      .27      1.47      4.26     1.32      .070      .035     .070      .000   1206.60   9927.60
   .000937     360.      415.     410.         2         0        0       .00    178.81  10106.41


CCHV=     .100 CEHV=     .300
*SECNO  .703

3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS=     9929.6   10054.7  TYPE=      1  TARGET=      125.090
      .703      5.08   1215.08  1215.08   1215.08   1216.28     1.20       .80       .29   1212.00
    1743.0     344.6    1248.3    150.1      107.1     122.5    52.3      50.3      11.6   1212.00
      .29      3.22     10.19     2.87      .070      .035     .070      .000   1210.00   9929.59
   .008930     325.      385.     390.        20        14        0       .00    125.09  10054.68


*SECNO  .799

3470 ENCROACHMENT STATIONS=     9941.0   10050.0  TYPE=      1  TARGET=      108.960
1
   31OCT91      09:57:00                                                                          PAGE   23


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


      .799      4.05   1220.05  1219.96   1219.93   1221.17     1.13      4.88       .01   1218.00
    1743.0      71.4    1366.2    305.4      31.3     144.6    82.1      53.5      12.9   1217.00
      .30      2.28      9.45     3.72      .070      .035     .070      .000   1216.00   9941.04
   .010474     585.      510.     410.         5        15        0       .00    108.96  10050.00
```

```
*SECNO  .896

3470 ENCROACHMENT STATIONS=     9938.8   10070.0  TYPE=      1  TARGET=      131.190
    .896      3.46   1225.96      .00   1225.50   1226.82      .87      5.63      .03   1224.00
  1743.0     127.7    1031.5    583.8      49.8     113.3    134.9      56.7     14.3   1223.50
     .32      2.56      9.10     4.33      .070      .035     .070      .000  1222.50   9938.81
 .011492      430.      510.     540.         3         0        0       .00   131.19  10070.00


*SECNO  .991

3470 ENCROACHMENT STATIONS=     9970.0   10084.2  TYPE=      1  TARGET=      114.230
    .991      4.03   1231.33      .00   1231.14   1232.19      .86      5.36      .00   1230.50
  1743.0        .0    1723.7     19.3        .0     230.5     10.8      59.7     15.7   1230.00
     .34       .00      7.48     1.78      .000      .035     .070      .000  1227.30   9970.00
 .010368      440.      500.     465.         4         0        0       .00   114.23  10084.23


*SECNO 1.085
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9968.8   10150.0  TYPE=      1  TARGET=      181.190
   1.085      4.11   1239.11   1239.11   1238.16   1240.03      .92      5.29      .02   1236.00
  1743.0     156.3     976.0    610.7      43.4      98.7    190.3      62.9     17.3   1236.30
     .36      3.60      9.89     3.21      .070      .035     .070      .000  1235.00   9968.81
 .011101      445.      500.     475.        13         8        0       .00   181.19  10150.00


*SECNO 1.179

3470 ENCROACHMENT STATIONS=     9975.7   10069.3  TYPE=      1  TARGET=       93.699

          Q @ X1 = 1.179 TO X1 = 1.752 EQUALS (Q AT CP13 + Q AT SUB 11)/2
          Q = (1743 + 1313)/2 = 1528 CFS

   1.179      4.02   1244.72   1244.71   1244.86   1245.92     1.20      5.81      .08   1244.00
  1528.0       1.6    1215.8    310.6       1.3     125.8     80.2      65.9     18.8   1242.60
     .38      1.23      9.66     3.87      .070      .035     .070      .000  1240.70   9976.38
 .013295      515.      495.     445.         5         5        0       .00    92.23  10068.62


1
  31OCT91      09:57:00                                                                          PAGE   24


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


*SECNO 1.272
7185 MINIMUM SPECIFIC ENERGY
7720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9984.7   10130.7  TYPE=      1  TARGET=      146.010
   1.272      5.75   1250.15   1250.15   1250.13   1251.18     1.02      4.75      .02   1250.00
  1528.0        .0    1322.1    205.9        .0     152.1    108.9      68.5     20.1   1248.00
     .39       .02      8.69     1.89      .070      .035     .070      .000  1244.40   9984.66
 .007365      450.      490.     495.         3        11        0       .00   146.01  10130.67
```

```
*SECNO 1.369
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.9   10017.4  TYPE=      1  TARGET=      74.480
    1.369      4.08   1254.98   1254.98   1254.97   1256.27      1.28      4.83       .08   1254.00
   1528.0       9.0    1519.0       .0       6.0     166.5        .0      71.0      21.3 100000.00
      .41      1.50      9.12       .00      .070      .035      .000      .000   1250.90   9942.93
  .012673      490.      515.      425.         3        19         0       .00     74.48  10017.41


*SECNO 1.465
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10043.8  TYPE=      1  TARGET=      81.780
    1.465      4.18   1261.88   1261.88   1261.84   1263.23      1.34      5.65       .02   1260.00
   1528.0      45.7    1455.0      27.3      22.2     152.8      13.3      73.0      22.2   1260.00
      .43      2.06      9.52      2.05      .070      .035      .070      .000   1257.70   9962.01
  .009954      515.      505.      430.         4         5         0       .00     81.78  10043.79


*SECNO 1.560
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9929.4   10035.6  TYPE=      1  TARGET=     106.240
    1.560      4.36   1268.76   1268.76   1268.75   1269.93      1.18      4.89       .02   1266.00
   1528.0     241.7    1204.6      81.7      81.1     124.4      28.5      75.5      23.3   1266.00
      .44      2.98      9.68      2.87      .070      .035      .070      .000   1264.40   9929.38
  .009634      515.      500.      445.         8         8         0       .00    106.24  10035.62


1
   31OCT91      09:57:00                                                                          PAGE   25


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


*SECNO 1.657
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9966.3   10041.0  TYPE=      1  TARGET=      74.730
    1.657      4.49   1273.79   1273.79   1273.75   1275.19      1.40      5.06       .07   1272.00
   1528.0      15.9    1473.4      38.7       8.0     152.4      19.1      77.8      24.3   1272.00
      .46      2.00      9.67      2.02      .070      .035      .070      .000   1269.30   9966.26
  .010309      440.      515.      490.         3         8         0       .00     74.73  10040.99


*SECNO 1.752
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.0   10042.0  TYPE=      1  TARGET=     121.990
    1.752      3.68   1281.68   1281.68   1281.40   1282.73      1.06      5.03       .03   1280.00
```

1528.0	250.6	1263.7	13.7	96.5	140.5	6.8	80.2	25.4	1280.00
.47	2.60	8.99	2.01	.070	.035	.070	.000	1278.00	9920.00
.009927	480.	500.	470.	11	15	0	.00	121.99	10041.99

*SECNO 1.837
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9946.5 10055.5 TYPE= 1 TARGET= 108.950

Q @ X1 = 1.837 TO X1 = 2.487 EQUALS Q AT SUB 11
Q = 1313 CFS

1.837	3.38	1290.38	1290.38	1290.35	1291.41	1.03	4.52	.00	1288.00
1313.0	69.1	1131.5	112.4	28.4	129.7	43.7	82.5	26.5	1288.00
.49	2.43	8.72	2.57	.070	.035	.070	.000	1287.00	9946.51
.010306	400.	450.	505.	20	11	0	.00	108.95	10055.46

*SECNO 1.862

3470 ENCROACHMENT STATIONS= 9933.6 10074.4 TYPE= 1 TARGET= 140.841

1.862	3.55	1291.85	.00	1291.88	1292.60	.75	1.15	.03	1290.00
1313.0	92.1	1181.1	39.8	51.6	162.2	22.3	83.1	26.9	1290.00
.50	1.79	7.28	1.78	.070	.035	.070	.000	1288.30	9934.38
.007833	50.	130.	195.	2	0	0	.00	139.73	10074.10

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

*SECNO 1.928

3470 ENCROACHMENT STATIONS= 9973.6 10084.8 TYPE= 1 TARGET= 111.240

1.928	3.45	1294.65	.00	1294.64	1295.45	.79	2.84	.01	1294.00
1313.0	2.1	1080.2	230.8	2.2	139.0	84.6	84.9	27.9	1292.00
.51	.95	7.77	2.73	.070	.035	.070	.000	1291.20	9973.58
.008632	420.	350.	280.	2	0	0	.00	111.24	10084.82

*SECNO 2.021
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9956.6 10045.6 TYPE= 1 TARGET= 88.950

2.021	3.13	1301.13	1301.13	1301.12	1302.15	1.02	5.24	.07	1300.00
1313.0	8.0	1299.7	5.3	4.8	159.6	3.2	87.1	29.0	1300.00
.53	1.68	8.14	1.67	.070	.035	.070	.000	1298.00	9956.63
.013456	435.	490.	515.	15	11	0	.00	88.95	10045.58

*SECNO 2.134

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9963.5 10011.2 TYPE= 1 TARGET= 47.710

2.134	5.11	1310.31	1310.31	1310.31	1312.10	1.78	6.69	.23	1306.00
1313.0	182.9	1094.4	35.7	46.5	94.3	11.8	89.3	29.9	1306.00
.54	3.93	11.61	3.03	.070	.035	.070	.000	1305.20	9963.45
.009507	630.	595.	510.	3	14	0	.00	47.71	10011.16

*SECNO 2.208
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9981.7 10031.5 TYPE= 1 TARGET= 49.779

2.208	4.63	1317.33	1317.33	1317.30	1318.92	1.59	4.05	.02	1314.00
1313.0	41.7	1263.7	7.6	13.9	122.9	4.4	90.7	30.4	1316.00
.55	3.01	10.28	1.71	.070	.035	.070	.000	1312.70	9981.74
.011135	385.	395.	400.	14	11	0	.00	49.78	10031.52

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

CCHV= .300 CEHV= .500
*SECNO 2.304

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.5 10016.4 TYPE= 1 TARGET= 83.970

2.304	3.48	1324.98	1324.75	1325.01	1325.87	.90	6.75	.21	1323.00
1313.0	426.5	883.9	2.7	92.7	101.7	1.4	92.6	31.1	1323.00
.57	4.60	8.69	1.90	.070	.045	.070	.000	1321.50	9932.67
.016809	470.	505.	480.	11	19	0	.00	83.74	10016.41

*SECNO 2.360
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9978.5 10087.0 TYPE= 1 TARGET= 108.500

2.360	4.76	1331.56	1331.56	1331.55	1332.55	.98	4.53	.04	1330.00
1313.0	10.9	1169.2	132.9	5.1	139.4	53.9	93.9	31.8	1330.00
.58	2.14	8.39	2.46	.070	.045	.070	.000	1326.80	9978.55
.014511	250.	295.	350.	7	11	0	.00	108.50	10087.05

*SECNO 2.394

3470 ENCROACHMENT STATIONS= 9942.9 10040.2 TYPE= 1 TARGET= 97.310

2.394	4.20	1334.40	.00	1334.42	1335.25	.85	2.66	.04	1332.00
1313.0	368.6	855.9	88.5	86.2	98.9	28.9	94.8	32.2	1332.00

```
      .59      4.28      8.66      3.07      .070      .045      .070      .000   1330.20   9943.02
  .014150      265.      180.      100.         2         0         0       .00     96.92  10039.94


SECNO 2.487

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.2   10020.9  TYPE=      1  TARGET=      58.729
    2.487      4.08   1342.38   1342.38   1342.37   1343.75      1.37      7.71       .26   1340.00
   1313.0      48.3    1243.2      21.5      14.3     129.1       7.1      96.8      33.1   1340.00
      .60      3.38      9.63      3.04      .070      .045      .070      .000   1338.30   9962.20
  .017923      460.      490.      500.         4         8         0       .00     58.73  10020.93


1
  31OCT91      09:57:00                                                                          PAGE   28


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


*SECNO 2.581

 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9975.4   10019.8  TYPE=      1  TARGET=      44.340

         Q @ X1 = 2.581 TO X1 = 3.247 EQUALS Q AT SUB 11 / 2
         Q = 1313/2 = 656 CFS

    2.581      4.61   1349.91       .00   1349.91   1350.36       .46      6.34       .27 100000.00
    656.0        .0     656.0        .0        .0     121.0        .0      98.3      33.6 100000.00
      .63       .00      5.42       .00      .000      .045      .000      .000   1345.30   9975.48
  .007318      450.      500.      520.         4         0         0       .00     44.28  10019.76


*SECNO 2.676

3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS=     9982.7   10027.3  TYPE=      1  TARGET=      44.619
    2.676      4.20   1361.00   1361.00   1360.97   1362.08      1.08      5.62       .31   1360.00
    656.0       7.1     641.7       7.1       3.8      76.1       3.8      99.5      34.1   1360.00
      .65      1.89      8.43      1.89      .070      .045      .070      .000   1356.80   9982.69
  .019507      540.      500.      375.        20        11         0       .00     44.62  10027.31


*SECNO 2.766
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
```

```
3470 ENCROACHMENT STATIONS=     9967.5   10020.8  TYPE=      1  TARGET=      53.370
    2.766      3.01   1370.51   1370.51   1370.51   1371.45      .94      8.97      .04   1368.00
    656.0     114.5     485.0      56.5      30.8      55.2     15.3     100.5     34.7   1368.00
      .66      3.71      8.79      3.69      .070      .045     .070      .000  1367.50   9967.47
  .018340      500.      475.      415.         4        19        0       .00     53.37  10020.84


1
  31OCT91      09:57:00                                                                          PAGE   29


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


*SECNO 2.869
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9982.0   10032.4  TYPE=      1  TARGET=      50.360
    2.869      3.39   1386.39   1386.39   1386.38   1387.31      .92     11.05      .01   1386.00
    656.0        .6     654.9        .5        .6      85.0       .5     101.6     35.3   1386.00
      .68      1.09      7.71      1.09      .070      .045     .070      .000  1383.00   9982.04
  .023648      410.      545.      540.        10         8        0       .00     50.36  10032.40


*SECNO 2.963
[illegible]5 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9974.0   10022.4  TYPE=      1  TARGET=      48.400
    2.963      3.51   1399.51   1399.51   1399.47   1400.52     1.01     10.35      .05   1398.00
    656.0      20.6     621.9      13.6       8.5      75.2      5.7     102.6     35.8   1398.00
      .70      2.42      8.27      2.40      .070      .045     .070      .000  1396.00   9973.96
  .018634      490.      495.      465.         4         8        0       .00     48.40  10022.36


*SECNO 3.071
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9978.5   10021.0  TYPE=      1  TARGET=      42.550
    3.071      3.43   1414.23   1414.23   1414.21   1415.24     1.01     11.88      .00   1414.00
    656.0        .2     655.7        .1        .2      81.4       .1     103.7     36.4   1414.00
      .72       .83      8.06       .82      .070      .045     .070      .000  1410.80   9978.47
  .023492      610.      570.      505.        10         8        0       .00     42.55  10021.02


*SECNO 3.152
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

[illegible]70 ENCROACHMENT STATIONS=     9973.3   10021.0  TYPE=      1  TARGET=      47.650
    3.152      3.12   1426.22   1426.22   1426.22   1427.17      .95     10.36      .02   1426.00
    656.0        .1     655.8        .1        .2      83.9       .1     104.6     36.9   1426.00
      .74       .76      7.82       .79      .070      .045     .070      .000  1423.10   9973.35
  .024706      450.      430.      410.         9        15        0       .00     47.65  10021.00
```

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

*SECNO 3.247
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9934.2 10042.7 TYPE= 1 TARGET= 108.500

3.247	2.71	1444.31	1444.31	1444.31	1444.98	.66	9.44	.09	1442.00
656.0	100.8	472.1	83.0	39.6	62.8	27.5	105.8	37.7	1442.00
.76	2.54	7.51	3.02	.070	.045	.070	.000	1441.60	9934.21
.015148	400.	500.	550.	5	15	0	.00	108.50	10042.71

THIS RUN EXECUTED 31OCT91 09:57:46

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

WASH "2" - WHITE TANKS

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	1743.00	1192.29	9937.71	9970.00	10040.00	10034.78	.00	95.38	5.29	1187.00	110.92	8.33
	.000	1743.00	1192.29	9937.91	9970.00	10040.00	10034.74	.00	95.09	5.29	1187.00	111.57	8.34
	.082	1743.00	1196.97	9949.04	9975.00	10025.00	10029.86	4.68	80.82	4.57	1192.40	106.47	8.71
	.082	1743.00	1196.97	9949.04	9975.00	10025.00	10029.86	4.68	80.82	4.57	1192.40	106.04	8.70
*	.162	1743.00	1201.60	9944.00	9980.00	10020.00	10048.25	4.63	104.25	4.10	1197.50	109.51	9.33
*	.162	1743.00	1201.60	9944.00	9980.00	10020.00	10048.25	4.63	104.25	4.10	1197.50	109.48	9.33
*	.244	1743.00	1204.31	9932.85	9970.00	10020.00	10037.01	2.71	104.17	5.51	1198.80	22.70	4.99
	.244	1743.00	1204.31	9932.85	9970.00	10020.00	10037.00	2.71	104.15	5.51	1198.80	22.70	4.99
	.338	1743.00	1205.41	9955.31	9965.00	10020.00	10085.60	1.10	130.29	5.41	1200.00	19.60	5.22
	.338	1743.00	1205.41	9955.31	9965.00	10020.00	10085.18	1.10	129.87	5.41	1200.00	19.60	5.22
*	.392	1743.00	1206.07	9926.38	9935.00	10015.00	10045.34	.66	118.96	4.47	1201.60	42.55	6.10
*	.392	1743.00	1206.07	9926.38	9935.00	10015.00	10045.34	.66	118.96	4.47	1201.60	42.56	6.10

*	.423	1743.00	1208.94	9849.70	9845.00	10010.00	10004.68	2.87	154.98	2.94	1206.00	157.25	7.17
*	.423	1743.00	1208.93	9849.70	9845.00	10010.00	10004.63	2.87	154.93	2.93	1206.00	157.64	7.17
	.437	1743.00	1213.36	9880.43	9960.00	10060.00	10142.51	4.42	262.08	2.86	1210.50	111.85	7.37
	.437	1743.00	1213.38	9880.43	9960.00	10060.00	10142.46	4.45	262.03	2.88	1210.50	105.81	7.24
*	.452	1743.00	1214.28	9894.70	9975.00	10035.00	10193.91	.92	299.21	14.28	1200.00	1.39	2.34
*	.452	1743.00	1214.27	9895.37	9975.00	10035.00	10193.30	.88	297.94	14.27	1200.00	1.39	2.34
*	.484	1743.00	1214.36	9885.53	9950.00	10050.00	10131.70	.08	246.17	21.36	1193.00	.14	1.00
*	.484	1743.00	1214.35	9940.00	9950.00	10050.00	10130.97	.08	190.97	21.35	1193.00	.15	1.01
*	.551	1743.00	1214.37	9752.47	9990.00	10010.00	10061.88	.01	309.42	13.87	1200.50	.56	1.75
*	.551	1743.00	1214.35	9860.00	9990.00	10010.00	10061.82	.00	201.82	13.85	1200.50	.63	1.86

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.630	1743.00	1214.33	9927.55	9980.00	10030.00	10106.52	-.04	178.97	7.73	1206.60	9.33	4.26
*	.630	1743.00	1214.32	9927.60	9980.00	10030.00	10106.41	-.03	178.81	7.72	1206.60	9.37	4.26
*	.703	1743.00	1215.08	9929.59	9985.00	10015.00	10054.68	.76	125.09	5.08	1210.00	89.39	10.19
*	.703	1743.00	1215.08	9929.59	9985.00	10015.00	10054.68	.76	125.09	5.08	1210.00	89.30	10.19
	.799	1743.00	1219.93	9941.04	9970.00	10015.00	10105.69	4.85	164.65	3.93	1216.00	86.07	8.36
	.799	1743.00	1220.05	9941.04	9970.00	10015.00	10050.00	4.96	108.96	4.05	1216.00	104.74	9.45
	.896	1743.00	1225.50	9938.81	9980.00	10020.00	10118.75	5.57	179.94	3.00	1222.50	131.70	8.66
	.896	1743.00	1225.96	9938.81	9980.00	10020.00	10070.00	5.91	131.19	3.46	1222.50	114.92	9.10
	.991	1743.00	1231.14	9929.31	9970.00	10070.00	10084.23	5.64	154.92	3.84	1227.30	103.15	7.08
	.991	1743.00	1231.33	9970.00	9970.00	10070.00	10084.23	5.37	114.23	4.03	1227.30	103.68	7.48
*	1.085	1743.00	1238.16	9968.81	9990.00	10020.00	10208.09	7.02	191.47	3.16	1235.00	186.99	10.23
*	1.085	1743.00	1239.11	9968.81	9990.00	10020.00	10150.00	7.78	181.19	4.11	1235.00	111.01	9.89
	1.179	1528.00	1244.86	9975.66	9980.00	10025.00	10069.34	6.71	93.69	4.16	1240.70	110.63	9.12
	1.179	1528.00	1244.72	9976.38	9980.00	10025.00	10068.62	5.62	92.23	4.02	1240.70	132.95	9.66
*	1.272	1528.00	1250.13	9984.66	9985.00	10025.00	10130.67	5.27	146.01	5.73	1244.40	75.30	8.76
*	1.272	1528.00	1250.15	9984.66	9985.00	10025.00	10130.67	5.43	146.01	5.75	1244.40	73.65	8.69
*	1.369	1528.00	1254.97	9942.93	9955.00	10020.00	10017.41	4.83	74.48	4.07	1250.90	129.20	9.18
*	1.369	1528.00	1254.98	9942.93	9955.00	10020.00	10017.41	4.83	74.48	4.08	1250.90	126.73	9.12
*	1.465	1528.00	1261.84	9962.03	9985.00	10030.00	10043.78	6.87	81.75	4.14	1257.70	104.81	9.68
*	1.465	1528.00	1261.88	9962.01	9985.00	10030.00	10043.79	6.90	81.78	4.18	1257.70	99.54	9.52
*	1.560	1528.00	1268.75	9929.38	9980.00	10015.00	10035.62	6.91	106.23	4.35	1264.40	97.05	9.70
*	1.560	1528.00	1268.76	9929.38	9980.00	10015.00	10035.62	6.87	106.24	4.36	1264.40	96.34	9.68
	1.657	1528.00	1273.75	9966.26	9975.00	10020.00	10040.99	5.00	74.73	4.45	1269.30	107.41	9.79
	1.657	1528.00	1273.79	9966.26	9975.00	10020.00	10040.99	5.03	74.73	4.49	1269.30	103.09	9.67
*	1.752	1528.00	1281.40	9775.01	9990.00	10035.00	10041.99	7.65	266.98	3.40	1278.00	81.43	7.65
*	1.752	1528.00	1281.68	9920.00	9990.00	10035.00	10041.99	7.89	121.99	3.68	1278.00	99.27	8.99
*	1.837	1313.00	1290.35	9946.50	9970.00	10015.00	10055.48	8.95	108.98	3.35	1287.00	107.82	8.85

*	1.837	1313.00	1290.38	9946.51	9970.00	10015.00	10055.46	8.70	108.95	3.38	1287.00	103.06	8.72
	1.862	1313.00	1291.88	9933.60	9990.00	10050.00	10074.44	1.53	140.83	3.58	1288.30	75.57	7.20
	1.862	1313.00	1291.85	9934.38	9990.00	10050.00	10074.10	1.47	139.73	3.55	1288.30	78.33	7.28
	1.928	1313.00	1294.64	9973.58	9980.00	10030.00	10084.82	2.76	111.24	3.44	1291.20	88.36	7.83
	1.928	1313.00	1294.65	9973.58	9980.00	10030.00	10084.82	2.80	111.24	3.45	1291.20	86.32	7.77
*	2.021	1313.00	1301.12	9956.63	9965.00	10040.00	10045.58	6.48	88.96	3.12	1298.00	137.13	8.19
*	2.021	1313.00	1301.13	9956.63	9965.00	10040.00	10045.58	6.47	88.95	3.13	1298.00	134.56	8.14

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.134	1313.00	1310.31	9963.44	9985.00	10005.00	10011.17	9.19	47.72	5.11	1305.20	95.31	11.62
*	2.134	1313.00	1310.31	9963.45	9985.00	10005.00	10011.16	9.19	47.71	5.11	1305.20	95.07	11.61
*	2.208	1313.00	1317.30	9981.74	9990.00	10025.00	10031.52	6.99	49.79	4.60	1312.70	114.49	10.37
*	2.208	1313.00	1317.33	9981.74	9990.00	10025.00	10031.52	7.02	49.78	4.63	1312.70	111.35	10.28
	2.304	1313.00	1325.01	9932.46	9980.00	10015.00	10016.43	7.70	83.98	3.51	1321.50	162.12	8.59
	2.304	1313.00	1324.98	9932.67	9980.00	10015.00	10016.41	7.65	83.74	3.48	1321.50	168.09	8.69
*	2.360	1313.00	1331.55	9978.55	9985.00	10030.00	10087.05	6.54	108.50	4.75	1326.80	148.28	8.45
*	2.360	1313.00	1331.56	9978.55	9985.00	10030.00	10087.05	6.59	108.50	4.76	1326.80	145.11	8.39
	2.394	1313.00	1334.42	9942.91	9985.00	10015.00	10040.22	2.87	97.31	4.22	1330.20	137.58	8.58
	2.394	1313.00	1334.40	9943.02	9985.00	10015.00	10039.94	2.83	96.92	4.20	1330.20	141.50	8.66
*	2.487	1313.00	1342.37	9962.21	9975.00	10015.00	10020.93	7.96	58.73	4.07	1338.30	180.16	9.65
*	2.487	1313.00	1342.38	9962.20	9975.00	10015.00	10020.93	7.98	58.73	4.08	1338.30	179.23	9.63
	2.581	656.00	1349.91	9975.43	9975.00	10020.00	10019.78	7.53	44.35	4.61	1345.30	72.55	5.41
	2.581	656.00	1349.91	9975.48	9975.00	10020.00	10019.76	7.53	44.28	4.61	1345.30	73.18	5.42
*	2.676	656.00	1360.97	9982.69	9990.00	10020.00	10027.31	11.07	44.62	4.17	1356.80	203.34	8.54
*	2.676	656.00	1361.00	9982.69	9990.00	10020.00	10027.31	11.10	44.62	4.20	1356.80	195.07	8.43
*	2.766	656.00	1370.51	9967.47	9990.00	10010.00	10020.84	9.53	53.38	3.01	1367.50	183.96	8.80
*	2.766	656.00	1370.51	9967.47	9990.00	10010.00	10020.84	9.50	53.37	3.01	1367.50	183.40	8.79
*	2.869	656.00	1386.38	9982.04	9985.00	10030.00	10032.40	15.88	50.36	3.38	1383.00	238.15	7.72
*	2.869	656.00	1386.39	9982.04	9985.00	10030.00	10032.40	15.88	50.36	3.39	1383.00	236.48	7.71
*	2.963	656.00	1399.47	9973.98	9985.00	10015.00	10022.35	13.09	48.37	3.47	1396.00	196.84	8.42
*	2.963	656.00	1399.51	9973.96	9985.00	10015.00	10022.36	13.12	48.40	3.51	1396.00	186.34	8.27
*	3.071	656.00	1414.21	9978.46	9980.00	10020.00	10021.03	14.74	42.57	3.41	1410.80	246.72	8.18
*	3.071	656.00	1414.23	9978.47	9980.00	10020.00	10021.02	14.73	42.55	3.43	1410.80	234.92	8.06
*	3.152	656.00	1426.22	9973.34	9975.00	10020.00	10021.10	12.02	47.76	3.12	1423.10	246.79	7.81
*	3.152	656.00	1426.22	9973.35	9975.00	10020.00	10021.00	11.99	47.65	3.12	1423.10	247.06	7.82
	3.247	656.00	1444.31	9934.21	9990.00	10015.00	10042.71	18.09	108.50	2.71	1441.60	153.01	7.54
*	3.247	656.00	1444.31	9934.21	9990.00	10015.00	10042.71	18.09	108.50	2.71	1441.60	151.48	7.51

1

WASH "2" - WHITE TANKS

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1192.29	.29	1193.30	95.38	356.93	1386.07	.00	.00	.00	9970.00	10040.00	.00
	.000	1192.29	.00	1193.30	95.09	356.67	1386.33	.00	96.87	9937.91	9970.00	10040.00	10034.78
	.082	1196.97	.00	1198.08	80.82	504.13	1235.72	3.16	.00	.00	9975.00	10025.00	.00
	.082	1196.97	.00	1198.08	80.82	504.19	1235.62	3.18	80.82	9949.04	9975.00	10025.00	10029.86
*	.162	1201.60	.00	1202.76	104.25	554.65	1145.11	43.24	.00	.00	9980.00	10020.00	.00
*	.162	1201.60	.00	1202.76	104.25	554.67	1145.08	43.25	106.00	9944.00	9980.00	10020.00	10050.00
*	.244	1204.31	.00	1204.70	104.17	756.44	985.79	.77	.00	.00	9970.00	10020.00	.00
*	.244	1204.31	.00	1204.70	104.15	756.45	985.79	.77	104.16	9932.85	9970.00	10020.00	10037.01
	.338	1205.41	.00	1205.75	130.29	61.75	1334.50	346.75	.00	.00	9965.00	10020.00	.00
	.338	1205.41	.00	1205.75	129.87	61.75	1334.40	346.84	129.87	9955.31	9965.00	10020.00	10085.18
*	.392	1206.07	.00	1206.61	118.96	24.79	1603.73	114.48	.00	.00	9935.00	10015.00	.00
*	.392	1206.07	.00	1206.61	118.96	24.79	1603.74	114.47	118.96	9926.38	9935.00	10015.00	10045.34
*	.423	1208.94	.00	1209.73	154.98	.00	1743.00	.00	.00	.00	9845.00	10010.00	.00
*	.423	1208.93	.00	1209.73	154.93	.00	1743.00	.00	154.93	9849.70	9845.00	10010.00	10004.63
*	.437	1213.36	.00	1214.11	262.08	93.41	1552.71	96.87	.00	.00	9960.00	10060.00	.00
	.437	1213.38	.03	1214.11	262.03	97.33	1544.70	100.98	262.03	9880.43	9960.00	10060.00	10142.46
*	.452	1214.28	.00	1214.35	299.21	45.91	1535.04	162.05	.00	.00	9975.00	10035.00	.00
*	.452	1214.27	-.01	1214.34	297.94	45.55	1536.23	161.21	299.23	9894.70	9975.00	10035.00	10193.93
*	.484	1214.36	.00	1214.38	246.17	11.44	1716.35	15.21	.00	.00	9950.00	10050.00	.00
*	.484	1214.35	-.01	1214.37	190.97	5.21	1722.66	15.13	191.70	9940.00	9950.00	10050.00	10131.70
*	.551	1214.37	.00	1214.39	309.42	1157.65	459.23	126.12	.00	.00	9990.00	10010.00	.00
*	.551	1214.35	-.01	1214.38	201.82	1120.85	488.30	133.85	201.88	9860.00	9990.00	10010.00	10061.88
*	.630	1214.33	.00	1214.54	178.97	222.08	1278.67	242.25	.00	.00	9980.00	10030.00	.00
*	.630	1214.32	-.01	1214.54	178.81	221.89	1279.18	241.92	178.98	9927.55	9980.00	10030.00	10106.53
*	.703	1215.08	.00	1216.28	125.09	344.46	1248.49	150.05	.00	.00	9985.00	10015.00	.00
*	.703	1215.08	.00	1216.28	125.09	344.56	1248.32	150.12	125.09	9929.59	9985.00	10015.00	10054.68
	.799	1219.93	.00	1220.70	164.65	53.70	1164.87	524.43	.00	.00	9970.00	10015.00	.00
	.799	1220.05	.11	1221.17	108.96	71.38	1366.19	305.43	108.96	9941.04	9970.00	10015.00	10050.00
	.896	1225.50	.00	1226.18	179.94	61.96	821.68	859.36	.00	.00	9980.00	10020.00	.00
	.896	1225.96	.46	1226.82	131.19	127.69	1031.50	583.81	131.19	9938.81	9980.00	10020.00	10070.00
	.991	1231.14	.00	1231.83	154.92	235.27	1495.76	11.97	.00	.00	9970.00	10070.00	.00
	.991	1231.33	.19	1232.19	114.23	.00	1723.70	19.30	114.23	9970.00	9970.00	10070.00	10084.23

SECNO CWSEL DIFKWS EG TOPWID QLOB QCH QROB PERENC STENCL STCHL STCHR STENCR

*	1.085	1238.16	.00	1239.01	191.47	73.94	718.42	950.64	.00	.00	9990.00	10020.00	.00
*	1.085	1239.11	.95	1240.03	181.19	156.35	975.97	610.68	181.19	9968.81	9990.00	10020.00	10150.00
	1.179	1244.86	.00	1245.93	93.69	2.38	1206.70	318.91	.00	.00	9980.00	10025.00	.00
	1.179	1244.72	-.14	1245.92	92.23	1.60	1215.80	310.59	93.70	9975.65	9980.00	10025.00	10069.35
*	1.272	1250.13	.00	1251.18	146.01	.00	1325.92	202.08	.00	.00	9985.00	10025.00	.00
*	1.272	1250.15	.02	1251.18	146.01	.00	1322.11	205.89	146.01	9984.66	9985.00	10025.00	10130.67
*	1.369	1254.97	.00	1256.27	74.48	8.63	1519.37	.00	.00	.00	9955.00	10020.00	.00
*	1.369	1254.98	.02	1256.27	74.48	8.99	1519.01	.00	74.48	9942.93	9955.00	10020.00	10017.41
*	1.465	1261.84	.00	1263.23	81.75	43.27	1458.87	25.86	.00	.00	9985.00	10030.00	.00
*	1.465	1261.88	.05	1263.23	81.78	45.72	1454.97	27.31	81.78	9962.01	9985.00	10030.00	10043.79
*	1.560	1268.75	.00	1269.93	106.23	241.07	1205.48	81.46	.00	.00	9980.00	10015.00	.00
*	1.560	1268.76	.01	1269.93	106.24	241.68	1204.62	81.70	106.24	9929.38	9980.00	10015.00	10035.62
	1.657	1273.75	.00	1275.19	74.73	15.18	1475.99	36.83	.00	.00	9975.00	10020.00	.00
*	1.657	1273.79	.04	1275.19	74.73	15.92	1473.40	38.68	74.73	9966.26	9975.00	10020.00	10040.99
*	1.752	1281.40	.00	1282.01	266.98	541.65	979.06	7.29	.00	.00	9990.00	10035.00	.00
*	1.752	1281.68	.28	1282.73	121.99	250.62	1263.65	13.73	121.99	9920.00	9990.00	10035.00	10041.99
*	1.837	1290.35	.00	1291.42	108.98	67.51	1135.41	110.08	.00	.00	9970.00	10015.00	.00
*	1.837	1290.38	.03	1291.41	108.95	69.06	1131.54	112.40	108.95	9946.51	9970.00	10015.00	10055.46
	1.862	1291.88	.00	1292.60	140.83	93.83	1178.57	40.60	.00	.00	9990.00	10050.00	.00
	1.862	1291.85	-.03	1292.60	139.73	92.08	1181.08	39.84	140.84	9933.60	9990.00	10050.00	10074.44
	1.928	1294.64	.00	1295.44	111.24	1.92	1081.69	229.39	.00	.00	9980.00	10030.00	.00
	1.928	1294.65	.02	1295.45	111.24	2.07	1080.16	230.77	111.24	9973.58	9980.00	10030.00	10084.82
*	2.021	1301.12	.00	1302.15	88.96	7.84	1299.98	5.19	.00	.00	9965.00	10040.00	.00
*	2.021	1301.13	.01	1302.15	88.95	8.03	1299.65	5.31	88.95	9956.63	9965.00	10040.00	10045.58
*	2.134	1310.31	.00	1312.10	47.72	182.77	1094.61	35.61	.00	.00	9985.00	10005.00	.00
*	2.134	1310.31	.00	1312.10	47.71	182.91	1094.44	35.65	47.71	9963.45	9985.00	10005.00	10011.16
*	2.208	1317.30	.00	1318.92	49.79	41.25	1264.58	7.18	.00	.00	9990.00	10025.00	.00
*	2.208	1317.33	.03	1318.92	49.78	41.74	1263.70	7.56	49.78	9981.74	9990.00	10025.00	10031.52
	2.304	1325.01	.00	1325.88	83.98	428.06	882.23	2.71	.00	.00	9980.00	10015.00	.00
	2.304	1324.98	-.03	1325.87	83.74	426.48	883.86	2.65	83.97	9932.46	9980.00	10015.00	10016.43
*	2.360	1331.55	.00	1332.55	108.50	10.67	1171.73	130.59	.00	.00	9985.00	10030.00	.00
*	2.360	1331.56	.02	1332.55	108.50	10.91	1169.21	132.88	108.50	9978.55	9985.00	10030.00	10087.05
	2.394	1334.42	.00	1335.25	97.31	369.69	853.54	89.76	.00	.00	9985.00	10015.00	.00
	2.394	1334.40	-.02	1335.25	96.92	368.60	855.86	88.53	97.31	9942.91	9985.00	10015.00	10040.22

1

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.487	1342.37	.00	1343.75	58.73	48.16	1243.45	21.39	.00	.00	9975.00	10015.00	.00
*	2.487	1342.38	.00	1343.75	58.73	48.33	1243.21	21.46	58.73	9962.20	9975.00	10015.00	10020.93
	2.581	1349.91	.00	1350.36	44.35	.00	656.00	.00	.00	.00	9975.00	10020.00	.00
	2.581	1349.91	.00	1350.36	44.28	.00	656.00	.00	44.34	9975.44	9975.00	10020.00	10019.78

*	2.676	1360.97	.00	1362.09	44.62	6.64	642.71	6.64	.00	.00	9990.00	10020.00	.00
*	2.676	1361.00	.03	1362.08	44.62	7.15	641.71	7.15	44.62	9982.69	9990.00	10020.00	10027.31
	2.766	1370.51	.00	1371.45	53.38	114.39	485.11	56.50	.00	.00	9990.00	10010.00	.00
	2.766	1370.51	.00	1371.45	53.37	114.48	484.97	56.54	53.37	9967.47	9990.00	10010.00	10020.84
*	2.869	1386.38	.00	1387.31	50.36	.62	654.88	.50	.00	.00	9985.00	10030.00	.00
*	2.869	1386.39	.00	1387.31	50.36	.63	654.85	.51	50.36	9982.04	9985.00	10030.00	10032.40
*	2.963	1399.47	.00	1400.52	48.37	19.53	623.54	12.93	.00	.00	9985.00	10015.00	.00
*	2.963	1399.51	.04	1400.52	48.40	20.56	621.85	13.59	48.40	9973.96	9985.00	10015.00	10022.36
*	3.071	1414.21	.00	1415.24	42.57	.12	655.81	.08	.00	.00	9980.00	10020.00	.00
*	3.071	1414.23	.03	1415.24	42.55	.17	655.72	.11	42.55	9978.47	9980.00	10020.00	10021.02
*	3.152	1426.22	.00	1427.17	47.76	.14	655.77	.09	.00	.00	9975.00	10020.00	.00
*	3.152	1426.22	.00	1427.17	47.65	.14	655.77	.09	47.65	9973.35	9975.00	10020.00	10021.00
*	3.247	1444.31	.00	1444.98	108.50	100.34	472.81	82.85	.00	.00	9990.00	10015.00	.00
*	3.247	1444.31	.01	1444.98	108.50	100.83	472.13	83.05	108.50	9934.21	9990.00	10015.00	10042.71

1

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      .162  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .162  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .162  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .162  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .244  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .244  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .392  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .392  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .423  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .423  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .423  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .423  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .423  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .423  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      .437  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .437  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .437  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .437  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .437  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .437  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .452  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .452  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .484  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .484  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
WARNING SECNO=      .551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .630  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .630  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .703  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .703  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .703  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .703  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .703  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .703  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     1.085  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.085  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.085  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.085  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.272  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.272  PROFILE=  1  MINIMUM SPECIFIC ENERGY
1
   31OCT91      09:57:00                                                    PAGE   38


CAUTION SECNO=     1.272  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.272  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.369  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.369  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.369  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.369  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.465  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.465  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.465  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.465  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.560  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.560  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.560  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.560  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.657  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.657  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.752  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.752  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.752  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.752  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.837  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.837  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.837  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     1.837  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.837  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.837  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     2.021  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.021  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     2.021  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     2.021  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

```
CAUTION SECNO=      2.134  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.134  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.134  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.134  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.208  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.208  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.208  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.208  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.360  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.360  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.360  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.360  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.487  PROFILE=  1  CRITICAL DEPTH ASSUMED
1
```



```
CAUTION SECNO=      2.487  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.487  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.487  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.676  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.676  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.676  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.676  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.676  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.676  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.766  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.766  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.766  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.766  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.869  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.869  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.869  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.869  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.963  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.963  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.963  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.963  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.071  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.071  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.071  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.071  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.152  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.152  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.152  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.152  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      3.247  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.247  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      3.247  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      3.247  PROFILE=  2  MINIMUM SPECIFIC ENERGY

1
```

LOODWAY DATA, WASH "2" - WHITE TANKS
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	97.	218.	8.0	1192.3	1192.3	.0
.082	81.	209.	8.3	1197.0	1197.0	.0
.162	104.	220.	7.9	1201.6	1201.6	.0
.244	104.	349.	5.0	1204.3	1204.3	.0
.338	130.	453.	3.8	1205.4	1205.4	.0
.392	119.	326.	5.3	1206.1	1206.1	.0
.423	155.	243.	7.2	1208.9	1208.9	.0
.437	262.	328.	5.3	1213.4	1213.4	.0
.452	298.	1106.	1.6	1214.3	1214.3	.0
.484	191.	1858.	.9	1214.4	1214.4	.0
.551	202.	1878.	.9	1214.4	1214.4	.0
.630	179.	635.	2.7	1214.3	1214.3	.0
.703	125.	282.	6.2	1215.1	1215.1	.0
.799	109.	258.	6.8	1220.0	1219.9	.1
.896	131.	298.	5.8	1226.0	1225.5	.5
.991	114.	241.	7.2	1231.3	1231.1	.2
1.085	181.	332.	5.2	1239.1	1238.2	.9
1.179	92.	207.	7.4	1244.8	1244.9	-.1
1.272	146.	261.	5.9	1250.1	1250.1	.0
1.369	74.	173.	8.9	1255.0	1255.0	.0
1.465	82.	188.	8.1	1261.8	1261.8	.0
1.560	106.	234.	6.5	1268.7	1268.7	.0
1.657	75.	180.	8.5	1273.7	1273.7	.0
1.752	122.	244.	6.3	1281.7	1281.4	.3
1.837	109.	202.	6.5	1290.3	1290.3	.0
1.862	140.	236.	5.6	1291.9	1291.9	.0
1.928	111.	226.	5.8	1294.6	1294.6	.0
2.021	89.	168.	7.8	1301.1	1301.1	.0
2.134	48.	153.	8.6	1310.3	1310.3	.0
2.208	50.	141.	9.3	1317.3	1317.3	.0
2.304	84.	196.	6.7	1325.0	1325.0	.0
2.360	108.	198.	6.6	1331.5	1331.5	.0
2.394	97.	214.	6.1	1334.4	1334.4	.0
2.487	59.	150.	8.7	1342.4	1342.4	.0
2.581	44.	121.	5.4	1349.9	1349.9	.0
2.676	45.	84.	7.8	1361.0	1361.0	.0
2.766	53.	101.	6.5	1370.5	1370.5	.0
2.869	50.	86.	7.6	1386.4	1386.4	.0
2.963	48.	89.	7.3	1399.5	1399.5	.0
3.071	43.	82.	8.0	1414.2	1414.2	.0
3.152	48.	84.	7.8	1426.2	1426.2	.0
3.247	108.	130.	5.0	1444.3	1444.3	.0

```
1*****************************************
* HEC-2 WATER SURFACE PROFILES           *
*                                        *
* Version   4.6.2;  May 1991             *
*                                        *
* RUN DATE    07NOV91    TIME   16:57:09 *
*****************************************
```

```
****************************************
* U.S. ARMY CORPS OF ENGINEERS         *
* 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
```

1

07NOV91 16:57:09 PAGE 1

THIS RUN EXECUTED 07NOV91 16:57:09

3.H20 - Bedrock Wash
Latest Version
w/ Floodway

```
*************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
*************************************
```

T1 WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2 100 - YEAR STORM EVENT FLOODPLAIN RUN FILE: 3.H2I
T3 WASH "3" - BEDROCK WASH - NORTH & WEST TO GLENDALE AVE. AND 211TH AVE.)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	2	0	0	.0074	0	0	0	1192	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1	0	0	0	0	0	0	0	0	0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38	43	1	53	21	22	54	51	4	8
42	5	26	0	110	0	200			

NC	.07	.035	.045	.3	.5		
QT	2	1738	1738				
			9.1			9941.75	10072.14

MATCH FLODPLAIN INTO PONDING WATER SURFACE ELEVATION BEHIND WHITE
TANKS STRUCTURE #3.

Q @ X1 = 0.000 TO X1 = 0.700 EQUALS Q AT I1-CP17
Q = 1738 CFS

X1	0.000	13	9950	10035	0	0	0			
GR	1197	9725	1196	9735	1194	9790	1193.7	9910	1192	9940
GR	1190	9950	1188	9980	1187.6	10000	1188	10015	1190	10035
	1192	10080	1200	10110	1210	10130				
ET			9.1						9921.62	10092.17
X1	0.076	11	9940	10060	290	450	400			
GR	1196.4	9830	1196	9870	1194	9920	1192	9940	1190	9970
GR	1189.8	10000	1190	10030	1192	10060	1194	10095	1200	10120
GR	1210	10140								
NC	.07	.07	.045	.1	.3					
ET			9.1						9792.83	10292.56

1

07NOV91 16:57:09 PAGE 2

X1	0.168	12	9950	10110	415	500	485			
GR	1196	9770	1194	9880	1193.3	9905	1194.3	9950	1193	10000
GR	1193.3	10030	1194	10110	1194.5	10155	1193.5	10205	1196	10310
GR	1198	10395	1200	10465						
ET			9.1						9817.71	10152.31
X1	0.243	10	9980	10060	360	405	400			
GR	1200	9770	1198	9850	1196.8	9870	1197.4	9915	1198.2	9970
GR	1198	9980	1196.7	10000	1198	10060	1198.5	10135	1200	10220
ET			9.1						9687.49	10031.16
X1	0.337	12	9970	10015	470	470	495			
	1204	9675	1202	9740	1201.7	9820	1201.4	9880	1200.5	9930
GR	1201.6	9970	1200.4	10000	1202	10015	1204	10035	1206	10180
GR	1207.5	10245	1206	10375						
ET			9.1						9729.39	10100.51
X1	0.388	10	9935	10020	250	250	270			
GR	1205	9700	1204	9730	1200	9750	1200	9935	1199.9	10000
GR	1200	10020	1204	10100	1206	10150	1208	10260	1210	10310
ET			9.1						9742.73	10019.76
X1	0.395	11	9970	10020	35	35	35			
GR	1206	9700	1204	9740	1200	9970	1200	9980	1200	9990
GR	1199.8	10000	1202	10010	1204	10020	1206	10045	1208	10140
GR	1210	10315								
ET			9.1						9839.54	10093.95
X1	0.478	12	9975	10050	440	415	440			
GR	1210	9810	1208	9835	1206	9860	1206.9	9955	1206	9975
GR	1205.6	10000	1206	10015	1206.2	10050	1206.5	10075	1208	10100
GR	1210	10135	1211.1	10200						
ET			9.1						9874.90	10141.81
X1	0.603	12	9960	10015	625	680	660			
GR	1218	9740	1216	9865	1214	9880	1212	9890	1211.5	9910
GR	1212.2	9960	1211.4	10000	1212	10015	1214	10075	1213.5	10115
GR	1214	10135	1215.5	10150						
ET			9.1						9945.04	10223.51
X1	0.700	12	9950	10010	355	700	510			
GR	1220	9940	1216	9950	1215.2	9965	1216	9980	1215	10000
GR	1216	10010	1216	10030	1216	10065	1215.4	10115	1216	10160
GR	1218	10225	1220	10265						

```
NC      .07       .07       .045       .3        .5
QT        2      1920       1920
ET                           9.1                                                    9947.32    10183.05
```



```
          Q @ X1 = 0.793 TO X1 = 1.222 EQUALS Q AT CP15
          Q = 1920 CFS

X1     0.793       12      9975     10100       520       390       490
GR    1224.4     9705      1224      9755    1222.5      9910      1222      9940      1220      9955
GR      1219     9975    1218.1     10000    1218.3     10030      1219     10100      1220     10160
GR      1222    10205      1223     10260

ET                           9.1                                                    9893.64    10238.18
X1     0.892       10      9920     10080       615       275       525
GR    1229.3     9830      1228      9860      1226      9880      1224      9920    1223.4     10000
GR      1224    10080    1223.7     10180      1224     10225      1226     10245      1228     10265

ET                           9.1                                                    9855.72     10125
X1     0.978       18      9970     10080       235       565       455
GR      1232     9815      1230      9860      1228      9880    1227.7      9890      1228      9900
GR      1230     9910      1232      9930      1232      9950      1230      9970      1229      9980
GR      1228     9985    1227.6     10000      1228     10010    1228.6     10080    1228.5     10150
GR    1228.4    10200      1230     10250      1232     10305

NC      .07       .07       .045       .1        .3
                             9.1                                                    9914.90    10090.10
X1     1.058       15      9920     10085       470       330       420
GR    1238.4     9730      1238      9780      1237      9820      1238      9860    1238.5      9870
GR      1238     9880      1236      9900      1234      9920    1231.9      9955    1232.1      9975
GR    1231.9    10000      1232     10020      1234     10085      1236     10105    1236.4     10120

ET                           9.1                                                    9785.13    10068.24
X1     1.124       14      9945     10065       360       355       350
GR    1242.3     9685      1242      9700      1240      9760      1238      9790      1237      9845
GR    1236.7     9890    1236.9      9945      1236      9970    1235.3     10000      1236     10055
GR      1238    10065      1240     10085      1242     10110    1242.7     10140

ET                           9.1                                                    9782.34    10038.64
X1     1.222       15      9970     10040       465       550       515
GR      1247     9585      1246      9710    1246.6      9750    1242.3      9800    1242.7      9820
GR    1242.5     9845      1243      9880    1240.7      9925    1242.5      9970    1241.7     10000
GR      1242    10025      1244     10040      1246     10060      1248     10075    1248.9     10100

QT        2       520       520
ET                           9.1                                                    9957.64    10086.77

          Q @ X1 = 1.317 TO X1 = 2.430 EQUALS Q AT SUB15 / 2
          Q = 1039/2 = 520 CFS

X1     1.317        7      9980     10070       495       470       505
GR    1251.5     9950      1250      9980    1249.2     10000      1250     10070      1252     10100
GR      1254    10115    1254.8     10130
```

ET			9.1						9933.09	10044.08
X1	1.349	8	9980	10030	165	180	170			
GR	1254	9880	1252	9980	1250.9	10000	1252	10030	1254	10060
GR	1256	10070	1260	10080	1262	10090				
			9.1						9978.09	10026.91
X1	1.409	11	9985	10020	280	330	315			
GR	1260.7	9940	1260	9965	1258	9980	1257	9985	1256	9990
GR	1255.5	10000	1256	10010	1257	10020	1258	10025	1260	10040
GR	1261	10050								
ET			9.1						9984.80	10020.30
X1	1.500	13	9985	10020	480	485	480			
GR	1270.5	9965	1270	9980	1268	9985	1266	9990	1265.2	10000
GR	1266	10010	1268	10020	1270.7	10030	1269.4	10040	1270.8	10050
GR	1268.6	10065	1270	10075	1280	10090				
ET			9.1						9984.94	10030.13
X1	1.598	16	9985	10030	500	490	515			
GR	1283	9905	1282	9940	1280	9980	1278	9985	1276	9990
GR	1275.3	10000	1276	10020	1278	10030	1280	10040	1282	10055
GR	1283.8	10080	1283.5	10100	1284	10125	1282.6	10140	1284	10145
GR	1290	10155								
ET			9.1						9982.98	10038.01
X1	1.634	14	9980	10040	120	225	190			
GR	1286.2	9920	1286	9935	1284	9965	1282	9980	1280	9995
GR	1279.7	10000	1280	10020	1279.8	10025	1280	10030	1282	10040
GR	1284	10050	1286	10065	1288	10075	1290	10105		
	.07	.07	.05	.1	.3					
ET			9.1						9972.24	10017.76
X1	1.664	12	9975	10015	135	140	160			
GR	1290.4	9935	1290	9955	1288	9970	1287	9975	1286	9985
GR	1284.8	10000	1286	10010	1287	10015	1288	10020	1290	10060
GR	1292	10085	1292.5	10105						
ET			9.1						9972.88	10017.12
X1	1.686	10	9975	10015	130	105	115			
GR	1294	9930	1292	9965	1290	9975	1288	9985	1287.5	10000
GR	1288	10005	1290	10015	1292	10025	1294	10035	1295.3	10130
ET			9.1						9920.02	10013.23
X1	1.779	10	9905	10015	480	465	495			
GR	1307.4	9800	1306	9905	1304	9990	1303.7	10000	1304	10005
GR	1306	10015	1307.4	10040	1306.9	10090	1308	10115	1310	10135
ET			9.1						9983.78	10022.44
X1	1.870	11	9980	10030	495	480	480			
GR	1325.4	9960	1324	9970	1320	9980	1316	9990	1315.5	10000
GR	1316	10010	1318	10020	1320	10030	1322	10045	1324	10080
GR	1326	10120								

ET			9.1						9988.07	10020.27
X1	1.965	12	9985	10020	505	490	500			
GR	1342.7	9915	1342	9960	1340	9980	1335	9985	1332	9995
GR	1330	10000	1332	10010	1334	10020	1340	10040	1342	10055
GR	1344	10070	1377.8	10095						

ET			9.1						9986.26	10020.61
X1	2.019	12	9985	10020	270	210	285			
GR	1354	9880	1352	9950	1350	9965	1348	9975	1345	9985
	1342	9990	1341.6	10000	1342	10010	1344	10020	1350	10035
GR	1352	10045	1352.5	10055						

ET			9.1						9986.26	10013.74
X1	2.062	12	9985	10015	205	230	225			
GR	1364	9915	1362	9955	1360	9970	1353	9985	1350	9990
GR	1349.2	10000	1350	10010	1353	10015	1360	10020	1362	10035
GR	1364	10040	1364.8	10050						

ET			9.1						9990.45	10014.55
X1	2.120	12	9990	10015	320	265	310			
GR	1380	9950	1378	9970	1370	9985	1365	9990	1362	9995
GR	1361.3	10000	1362	10010	1365	10015	1370	10030	1378	10040
GR	1380	10050	1381	10055						

ET			9.1						9977.82	10018.12
X1	2.155	16	9975	10020	145	215	185			
GR	1387	9890	1386	9915	1380	9940	1378	9950	1376	9960
GR	1374	9975	1372	9990	1370	10000	1372	10010	1374	10020
GR	1380	10040	1388	10060	1390	10065	1392	10090	1394	10125
GR	1396	10150								

ET			9.1						9979.44	10020.56
X1	2.221	17	9975	10025	360	290	345			
GR	1407	9885	1406	9905	1404	9935	1402	9950	1400	9960
GR	1396	9975	1394	9985	1392	10000	1394	10015	1396	10025
	1398	10045	1397.5	10065	1398	10070	1400	10080	1402	10090
GR	1404	10095	1404.6	10110						

ET			9.1						9981.79	10019.11
X1	2.248	16	9980	10020	135	155	145			
GR	1414.5	9870	1414	9885	1412	9895	1410	9910	1408	9925
GR	1406	9940	1404	9960	1402	9980	1400	9990	1398.7	10000
GR	1400	10015	1402	10020	1410	10025	1412	10030	1414	10060
GR	1416	10140								

ET			9.1						9986.41	10013.59
X1	2.285	13	9985	10015	215	175	195			
GR	1429	9945	1428	9965	1420	9980	1413	9985	1410	9990
GR	1409	10000	1410	10010	1413	10015	1420	10040	1422	10055
GR	1424	10065	1426	10085	1428	10110				

1

ET			9.1						9980.89	10009.70
X1	2.341	14	9980	10010	220	300	295			
GR	1443	9910	1442	9925	1440	9935	1438	9950	1436	9960
GR	1434	9975	1433	9980	1432	9985	1430	9995	1428.5	10000
GR	1430	10005	1433	10010	1440	10025	1443.6	10040		

			9.1						9984.72	10015.28
X1	2.379	8	9985	10015	230	175	200			
GR	1461.3	9945	1460	9955	1450	9970	1446	9985	1442	10000
GR	1446	10015	1450	10030	1460	10110				

ET			9.1						9990.21	10036.41

```
X1    2.430        7       9980      10040        235        290        270
GR   1474.7     9930       1470       9980     1461.7      10000       1464      10010       1466      10040
GR     1470    10090       1480      10130
1
07NOV91      16:57:09                                                                                    PAGE    7

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


*PROF 1

CCHV=     .300 CEHV=     .500
*SECNO  .000

          MATCH FLODPLAIN INTO PONDING WATER SURFACE ELEVATION BEHIND WHITE
          TANKS STRUCTURE #3.

          Q @ X1 = 0.000 TO X1 = 0.700 EQUALS Q AT I1-CP17
          Q = 1738 CFS

     .000      4.05   1191.65       .00   1192.00   1192.20       .55       .00       .00   1190.00
   1738.0      10.8    1628.7      98.5       6.8     267.3      30.7        .0        .0   1190.00
     .00      1.59      6.09      3.21      .070      .045      .035      .000   1187.60   9941.75
  .007408        0.        0.        0.         0         0         5       .00    130.40  10072.14


CNO  .076

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57

     .076      4.04   1193.84       .00       .00   1194.09       .25      1.80       .09   1192.00
   1738.0      18.5    1654.7      64.8      16.9     406.6      29.6       3.5       1.4   1192.00
     .03      1.09      4.07      2.19      .070      .045      .035      .000   1189.80   9921.62
  .002990      290.      400.      450.         3         0         0       .00    170.54  10092.17


CCHV=     .100 CEHV=     .300
*SECNO  .168
     .168      2.59   1195.59       .00       .00   1195.70       .11      1.60       .01   1194.30
   1738.0     328.4    1052.6     357.0     197.8     324.6     230.6      10.1       5.0   1194.00
     .08      1.66      3.24      1.55      .070      .045      .070      .000   1193.00   9792.83
  .003757      415.      485.      500.         2         0         0       .00    499.73  10292.56


*SECNO  .243
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .243      2.11   1198.81   1198.81       .00   1199.35       .54      3.17       .13   1198.00
   1738.0     780.1     851.6     106.2     180.5     116.6      44.5      14.9       8.7   1198.00
     .10      4.32      7.31      2.39      .070      .045      .070      .000   1196.70   9817.71
  .029646      360.      400.      405.        20        15         0       .00    334.70  10152.41


1
   07NOV91      16:57:09                                                                                    PAGE    8
```

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

*SECNO .337

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.61

.337	3.22	1203.62	.00	.00	1203.75	.13	4.36	.04	1201.60
1738.0	1255.0	467.0	15.9	545.1	114.9	13.1	20.5	12.4	1202.00
.15	2.30	4.06	1.21	.070	.045	.070	.000	1200.40	9687.31
.004349	470.	495.	470.	5	0	0	.00	343.90	10031.21

*SECNO .388

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.88

.388	4.12	1204.02	.00	.00	1204.06	.04	.30	.01	1200.00
1738.0	945.4	667.1	125.5	784.4	346.1	161.7	26.2	14.5	1200.00
.20	1.21	1.93	.78	.070	.045	.070	.000	1199.90	9729.36
.000524	250.	270.	250.	4	0	0	.00	371.18	10100.54

*SECNO .395

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .35

.395	4.15	1203.95	.00	.00	1204.14	.19	.04	.05	1200.00
1738.0	988.0	750.0	.0	449.4	159.7	.0	27.0	14.8	1204.00
.20	2.20	4.70	.00	.070	.045	.000	.000	1199.80	9742.67
.004325	35.	35.	35.	2	0	0	.00	277.09	10019.77

*SECNO .478
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.478	2.04	1207.64	1207.64	.00	1208.27	.63	3.89	.13	1206.00
1738.0	588.6	989.8	159.6	153.0	127.2	42.9	31.7	17.4	1206.20
.22	3.85	7.78	3.72	.070	.045	.070	.000	1205.60	9839.56
.027488	440.	440.	415.	10	8	0	.00	254.37	10093.92

*SECNO .603

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

1

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

.603	3.28	1214.68	.00	.00	1214.91	.23	6.60	.04	1212.20
1738.0	656.9	778.7	302.4	218.7	159.9	159.0	38.1	21.3	1212.00
.27	3.00	4.87	1.90	.070	.045	.070	.000	1211.40	9874.90

```
 .005240     625.     660.     680.       6       0       0     .00   266.91  10141.81


*SECNO  .700
    .700     2.96  1217.96      .00     .00  1218.17     .21    3.26     .00   1216.00
  1738.0      7.7    696.3   1034.0     4.8    144.3   383.7    45.2    25.1   1216.00
     .31     1.62     4.83     2.69    .070     .045    .070    .000  1215.00   9945.11
 .006650     355.     510.     700.       5       0       0     .00   278.40  10223.51


CCHV=     .300 CEHV=     .500
*SECNO  .793

          Q @ X1 = 0.793 TO X1 = 1.222 EQUALS Q AT CP15
          Q = 1920 CFS

    .793     2.93  1221.03      .00     .00  1221.39     .36    3.15     .07   1219.00
  1920.0     77.0   1611.7    231.3    34.4    312.8   103.3    50.1    27.7   1219.00
     .34     2.24     5.15     2.24    .070     .045    .070    .000  1218.10   9947.32
 .007166     520.     490.     390.       3       0       0     .00   235.74  10183.05


*SECNO  .892
    .892     1.92  1225.32      .00     .00  1225.60     .28    4.19     .02   1224.00
  1920.0     29.7   1254.2    636.1    17.4    258.8   221.5    55.0    30.5   1224.00
     .37     1.71     4.85     2.87    .070     .045    .070    .000  1223.40   9893.64
 .011337     615.     525.     275.       4       0       0     .00   344.53  10238.18


*SECNO  .978

265 DIVIDED FLOW

    .978     2.59  1230.19      .00     .00  1230.43     .24    4.82     .01   1230.00
  1920.0    247.7    995.1    677.2    83.3    207.4   251.8    60.7    34.3   1228.60
     .40     2.97     4.80     2.69    .070     .045    .070    .000  1227.60   9855.72
 .009079     235.     455.     565.       4       0       0     .00   343.30  10255.23


1
 07NOV91      16:57:09                                                                    PAGE   10


   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   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 1.058
   1.058     2.61  1234.51      .00     .00  1235.08     .57    4.55     .10   1234.00
  1920.0      1.3   1917.4      1.3     1.3     316.9     1.3    64.7    36.7   1234.00
     .42     1.01     6.05     1.01    .070     .045    .070    .000  1231.90   9914.90
 .014069     470.     420.     330.       3       0       0     .00   175.20  10090.10


*SECNO 1.124
   1.124     3.02  1238.32      .00     .00  1238.65     .34    3.55     .02   1236.90
  1920.0    439.1   1480.6       .3   196.3    287.4      .5    67.9    38.5   1238.00
     .45     2.24     5.15      .55    .070     .045    .070    .000  1235.30   9785.13
 .007611     360.     350.     355.       3       0       0     .00   283.11  10068.24
```

*SECNO 1.222

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

1.222	3.12	1243.82	.00	.00	1244.20	.39	5.54	.01	1242.50
1920.0	1217.7	702.3	.0	296.1	113.2	.0	72.9	41.5	1244.00
.47	4.11	6.20	.00	.070	.045	.000	.000	1240.70	9782.34
.018167	465.	515.	550.	2	0	0	.00	256.30	10038.64

*SECNO 1.317

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

Q @ X1 = 1.317 TO X1 = 2.430 EQUALS Q AT SUB15 / 2
Q = 1039/2 = 520 CFS

1.317	1.92	1251.12	.00	.00	1251.31	.19	7.09	.02	1250.00
520.0	14.9	493.9	11.2	12.5	136.6	9.4	76.2	43.7	1250.00
.51	1.19	3.62	1.19	.070	.045	.070	.000	1249.20	9957.64
.006875	495.	505.	470.	4	0	0	.00	129.12	10086.77

*SECNO 1.349
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.349	2.04	1252.94	1252.94	.00	1253.49	.55	1.90	.11	1252.00
520.0	41.1	466.6	12.3	22.0	74.4	6.6	76.7	44.2	1252.00
.52	1.87	6.27	1.87	.070	.045	.070	.000	1250.90	9933.09
.021254	165.	170.	180.	2	8	0	.00	110.98	10044.07

1

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

*SECNO 1.409

1.409	2.75	1258.25	.00	.00	1258.91	.66	5.39	.03	1257.00
520.0	8.0	504.1	8.0	4.0	76.4	4.0	77.4	44.8	1257.00
.53	1.98	6.60	1.98	.070	.045	.070	.000	1255.50	9978.09
.014175	280.	315.	330.	5	0	0	.00	48.82	10026.91

*SECNO 1.500
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.500	2.88	1268.08	1268.08	.00	1269.05	.97	8.90	.09	1268.00
520.0	.0	520.0	.0	.0	65.8	.0	78.2	45.2	1268.00
.55	.03	7.90	.03	.070	.045	.070	.000	1265.20	9984.80
.025250	480.	480.	485.	4	8	0	.00	35.50	10020.30

*SECNO 1.598

```
    1.598      2.72   1278.02       .00       .00   1278.58       .56      9.49       .04   1278.00
    520.0        .0     520.0        .0        .0     86.6        .0      79.1      45.7   1278.00
      .58       .00      6.00       .03      .000      .045      .000      .000   1275.30   9984.94
  .014047      500.      515.      490.         3         0         0       .00     45.19  10030.13


*SECNO 1.634
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.634      1.90   1281.60   1281.60       .00   1282.31       .71      3.60       .05   1282.00
    520.0        .0     520.0        .0        .0     76.9        .0      79.5      45.9   1282.00
      .58       .00      6.76       .00      .000      .045      .000      .000   1279.70   9982.98
  .027030      120.      190.      225.         2        19         0       .00     55.03  10038.01


CCHV=     .100 CEHV=     .300
*SECNO 1.664
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.664      2.75   1287.55   1287.55       .00   1288.41       .86      4.57       .04   1287.00
    520.0       1.2     517.6       1.2        .8     69.6        .8      79.7      46.1   1287.00
      .59      1.54      7.44      1.54      .070      .050      .070      .000   1284.80   9972.24
  .030206      135.      160.      140.        13        14         0       .00     45.52  10017.76


1
  07NOV91      16:57:09                                                                          PAGE   12


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


*SECNO 1.686
    1.686      2.92   1290.42       .00       .00   1291.04       .62      2.61       .02   1290.00
    520.0        .4     519.1        .4        .4     81.9        .4      79.9      46.2   1290.00
      .59       .99      6.33       .99      .070      .050      .070      .000   1287.50   9972.88
  .017709      130.      115.      105.         3         0         0       .00     44.24  10017.12


*SECNO 1.779
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.779      1.95   1305.65   1305.65       .00   1306.15       .50     12.36       .01   1306.00
    520.0        .0     520.0        .0        .0     91.3        .0      80.9      47.0   1306.00
      .62       .00      5.69       .00      .000      .050      .000      .000   1303.70   9920.02
  .037814      480.      495.      465.         4        19         0       .00     93.21  10013.23


*SECNO 1.870
    1.870      2.99   1318.49       .00       .00   1319.18       .69     12.97       .06   1320.00
    520.0        .0     520.0        .0        .0     78.0        .0      81.9      47.7   1320.00
      .64       .00      6.67       .00      .000      .050      .000      .000   1315.50   9983.78
  020271      495.      480.      480.         6         0         0       .00     38.66  10022.44


*SECNO 1.965
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.965      4.08   1334.08   1334.08       .00   1335.10      1.02     12.32       .10   1335.00
```

```
    520.0       .0     520.0       .0       .0     64.2       .0     82.7     48.1  1334.00
      .66      .00      8.10      .04     .000     .050     .070     .000  1330.00  9988.07
  .030608     505.      500.     490.        3       11        0      .00    32.20 10020.27


*SECNO 2.019
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.019     2.64  1344.24  1344.24      .00  1345.22      .98     8.71      .00  1345.00
    520.0       .0     520.0       .0       .0     65.5       .1     83.1     48.3  1344.00
      .67      .00      7.94      .04     .000     .050     .070     .000  1341.60  9986.26
  .030492     270.      285.     210.       15       14        0      .00    34.34 10020.61


*SECNO 2.062
7185 MINIMUM SPECIFIC ENERGY
```



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


3720 CRITICAL DEPTH ASSUMED
    2.062     3.05  1352.25  1352.25      .00  1353.36     1.12     6.77      .04  1353.00
    520.0       .0     520.0       .0       .0     61.3       .0     83.4     48.5  1353.00
      .67      .00      8.48      .00     .000     .050     .000     .000  1349.20  9986.26
  .029731     205.      225.     230.        3        8        0      .00    27.48 10013.74


*SECNO 2.120
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.120     3.43  1364.73  1364.73      .00  1365.95     1.22     9.21      .03  1365.00
    520.0       .0     520.0       .0       .0     58.6       .0     83.9     48.7  1365.00
      .68      .00      8.88      .00     .000     .050     .000     .000  1361.30  9990.45
  .029688     320.      310.     265.        9        8        0      .00    24.10 10014.55


*SECNO 2.155
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.155     3.62  1373.62  1373.62      .00  1374.51      .88     5.71      .03  1374.00
    520.0       .0     520.0       .0       .0     69.0       .0     84.1     48.8  1374.00
      .69      .00      7.54      .00     .000     .050     .000     .000  1370.00  9977.82
  .032138     145.      185.     215.       20        8        0      .00    40.30 10018.12


*SECNO 2.221
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    2.221     3.11  1395.11  1395.11      .00  1395.98      .87    11.05      .00  1396.00
    520.0       .0     520.0       .0       .0     69.5       .0     84.7     49.1  1396.00
      .70      .00      7.48      .00     .000     .050     .000     .000  1392.00  9979.44
  .031945     360.      345.     290.       11       15        0      .00    41.11 10020.56


*SECNO 2.248
```

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.248	2.94	1401.64	1401.64	.00	1402.57	.92	4.58	.02	1402.00
520.0	.0	520.0	.0	.0	67.4	.0	84.9	49.3	1402.00
.71	.00	7.71	.00	.000	.050	.000	.000	1398.70	9981.79
.031256	135.	145.	155.	10	11	0	.00	37.32	10019.11

1

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

*SECNO 2.285
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.285	3.15	1412.15	1412.15	.00	1413.29	1.14	5.99	.06	1413.00
520.0	.0	520.0	.0	.0	60.8	.0	85.2	49.4	1413.00
.71	.00	8.56	.00	.000	.050	.000	.000	1409.00	9986.41
.030149	215.	195.	175.	11	8	0	.00	27.18	10013.59

*SECNO 2.341
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.341	4.32	1432.82	1432.82	.00	1433.91	1.08	8.91	.01	1433.00
520.0	.0	520.0	.0	.0	62.3	.0	85.6	49.6	1433.00
.72	.00	8.35	.00	.000	.050	.000	.000	1428.50	9980.89
.030245	220.	295.	300.	20	11	0	.00	28.81	10009.70

*SECNO 2.379
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.379	4.08	1446.08	1446.08	.00	1447.16	1.08	6.14	.00	1446.00
520.0	.0	520.0	.0	.0	62.3	.0	85.9	49.8	1446.00
.73	.04	8.35	.04	.070	.050	.070	.000	1442.00	9984.71
.031194	230.	200.	175.	20	11	0	.00	30.57	10015.29

*SECNO 2.430
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.430	4.06	1465.76	1465.76	.00	1466.57	.80	8.71	.03	1470.00
520.0	.0	520.0	.0	.0	72.2	.0	86.3	50.0	1466.00
.74	.00	7.20	.00	.000	.050	.000	.000	1461.70	9990.21
.033389	235.	270.	290.	20	5	0	.00	46.20	10036.41

1
PROFILE FOR STREAM WASH "3" - BEDROCK WASH

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ATION SECNO	1188. CUMDIS	1238.	1288.	1338.	1388.	1438.	1488.	1538.	1588.	1638.
.00	0. IEM	.	.	.	.	.	.	.	.	.
	50. IEM	.	.	.	.	.	.	.	.	.
	100. IEM	.	.	.	.	.	.	.	.	.
	150. IEM	.	.	.	.	.	.	.	.	.
	200. IEM	.	.	.	.	.	.	.	.	.
	250. IEM	.	.	.	.	.	.	.	.	.
	300. IEM	.	.	.	.	.	.	.	.	.
	350. IEM	.	.	.	.	.	.	.	.	.
.08	400. IEM	.	.	.	.	.	.	.	.	.
	450. CEM	.	.	.	.	.	.	.	.	.
	500. CEM	.	.	.	.	.	.	.	.	.
	550. CEM	.	.	.	.	.	.	.	.	.
	600. CEM	.	.	.	.	.	.	.	.	.
	650. CEM	.	.	.	.	.	.	.	.	.
	700. CEM	.	.	.	.	.	.	.	.	.
	750. CWE	.	.	.	.	.	.	.	.	.
	800. CIE	.	.	.	.	.	.	.	.	.
	850. CIE	.	.	.	.	.	.	.	.	.
.17	900. CIE	.	.	.	.	.	.	.	.	.
	950. CIE	.	.	.	.	.	.	.	.	.
	1000. CIE	.	.	.	.	.	.	.	.	.
	1050. CIE	.	.	.	.	.	.	.	.	.
	1100. CIE	.	.	.	.	.	.	.	.	.
	1150. C E	.	.	.	.	.	.	.	.	.
	1200. C E	.	.	.	.	.	.	.	.	.
	1250. C E	.	.	.	.	.	.	.	.	.
.24	1300. . E	.	.	.	.	.	.	.	.	.
	1350. C EM	.	.	.	.	.	.	.	.	.
	1400. C WE	.	.	.	.	.	.	.	.	.
	1450. C IE	.	.	.	.	.	.	.	.	.
	1500. C IE	.	.	.	.	.	.	.	.	.
	1550. C IE	.	.	.	.	.	.	.	.	.
	1600. C IE	.	.	.	.	.	.	.	.	.
	1650. C IE	.	.	.	.	.	.	.	.	.
	1700. C IE	.	.	.	.	.	.	.	.	.
	1750. C IE	.	.	.	.	.	.	.	.	.
.34	1800. C E	.	.	.	.	.	.	.	.	.
	1850. C E	.	.	.	.	.	.	.	.	.
	1900. C E	.	.	.	.	.	.	.	.	.
	1950. C E	.	.	.	.	.	.	.	.	.
	2000. C IE	.	.	.	.	.	.	.	.	.
.39	2050. C IE	.	.	.	.	.	.	.	.	.
.40	2100. C IEM	.	.	.	.	.	.	.	.	.
	2150. C EM	.	.	.	.	.	.	.	.	.
	2200. C EM	.	.	.	.	.	.	.	.	.
	2250. C IE	.	.	.	.	.	.	.	.	.
	2300. C IE	.	.	.	.	.	.	.	.	.
	2350. C IE	.	.	.	.	.	.	.	.	.
	2400. C IE	.	.	.	.	.	.	.	.	.
	2450. C IE	.	.	.	.	.	.	.	.	.
	2500. C IE	.	.	.	.	.	.	.	.	.
.48	2550. . E	.	.	.	.	.	.	.	.	.
	2600. C EM	.	.	.	.	.	.	.	.	.
	2650. C EM	.	.	.	.	.	.	.	.	.
	2700. C EM	.	.	.	.	.	.	.	.	.

	2750.	C	WE	.	.	.	.	.	.	.	.	.	.
	2800.	C	IE	.	.	.	.	.	.	.	.	.	.
	2850.	C	IE	.	.	.	.	.	.	.	.	.	.
	2900.	C	IE	.	.	.	.	.	.	.	.	.	.
	2950.	C	IE	.	.	.	.	.	.	.	.	.	.
	3000.	C	IE	.	.	.	.	.	.	.	.	.	.
	3050.	C	IE	.	.	.	.	.	.	.	.	.	.
	3100.	C	E	.	.	.	.	.	.	.	.	.	.
	3150.	C	E	.	.	.	.	.	.	.	.	.	.
.60	3200.	C	EM	.	.	.	.	.	.	.	.	.	.
	3250.	C	WE	.	.	.	.	.	.	.	.	.	.
	3300.	C	IE	.	.	.	.	.	.	.	.	.	.
	3350.	C	IE	.	.	.	.	.	.	.	.	.	.
	3400.	C	IE	.	.	.	.	.	.	.	.	.	.
	3450.	C	IE	.	.	.	.	.	.	.	.	.	.
	3500.	C	IE	.	.	.	.	.	.	.	.	.	.
	3550.	C	IE	.	.	.	.	.	.	.	.	.	.
	3600.	C	IE	.	.	.	.	.	.	.	.	.	.
	3650.	C	IE	.	.	.	.	.	.	.	.	.	.
.70	3700.	C	IE	.	.	.	.	.	.	.	.	.	.
	3750.	C	EM	.	.	.	.	.	.	.	.	.	.
	3800.	C	EM	.	.	.	.	.	.	.	.	.	.
	3850.	C	EM	.	.	.	.	.	.	.	.	.	.
	3900.	C	EM	.	.	.	.	.	.	.	.	.	.
	3950.	C	EM	.	.	.	.	.	.	.	.	.	.
	4000.	C	WE	.	.	.	.	.	.	.	.	.	.
	4050.	C	IE	.	.	.	.	.	.	.	.	.	.
	4100.	C	IE	.	.	.	.	.	.	.	.	.	.
	4150.	C	IE	.	.	.	.	.	.	.	.	.	.
.79	4200.	C	IE	.	.	.	.	.	.	.	.	.	.
	4250.	C	IE	.	.	.	.	.	.	.	.	.	.
	4300.	C	IE	.	.	.	.	.	.	.	.	.	.
	4350.	C	IE	.	.	.	.	.	.	.	.	.	.
	4400.	C	E	.	.	.	.	.	.	.	.	.	.
	4450.	C	EM	.	.	.	.	.	.	.	.	.	.
	4500.	C	EM	.	.	.	.	.	.	.	.	.	.
	4550.	C	EM	.	.	.	.	.	.	.	.	.	.
	4600.	C	EM	.	.	.	.	.	.	.	.	.	.
	4650.	C	EM	.	.	.	.	.	.	.	.	.	.
	4700.	C	IE	.	.	.	.	.	.	.	.	.	.
.89	4750.	C	IE	.	.	.	.	.	.	.	.	.	.
	4800.	C	IE	.	.	.	.	.	.	.	.	.	.
	4850.	C	IE	.	.	.	.	.	.	.	.	.	.
	4900.	C	IE	.	.	.	.	.	.	.	.	.	.
	4950.	C	E	.	.	.	.	.	.	.	.	.	.
	5000.	C	EM.	.	.	.	.	.	.	.	.	.	.
	5050.	C	EM.	.	.	.	.	.	.	.	.	.	.
	5100.	C	EM.	.	.	.	.	.	.	.	.	.	.
	5150.	C	EM.	.	.	.	.	.	.	.	.	.	.
.98	5200.	C	IE.	.	.	.	.	.	.	.	.	.	.
	5250.	C	IE.	.	.	.	.	.	.	.	.	.	.
	5300.	C	IE.	.	.	.	.	.	.	.	.	.	.
	5350.	C	IE.	.	.	.	.	.	.	.	.	.	.
	5400.	C	IE.	.	.	.	.	.	.	.	.	.	.
	5450.	C	E.	.	.	.	.	.	.	.	.	.	.
	5500.	C	EM	.	.	.	.	.	.	.	.	.	.
	5550.	C	EM	.	.	.	.	.	.	.	.	.	.
1.06	5600.	C	EM	.	.	.	.	.	.	.	.	.	.
	5650.	C	WE	.	.	.	.	.	.	.	.	.	.
	5700.	C	IE	.	.	.	.	.	.	.	.	.	.
	5750.	C	IE	.	.	.	.	.	.	.	.	.	.
	5800.	C	IE	.	.	.	.	.	.	.	.	.	.

	5850.	C	IEM	.	.	.	.	.	.	.	.	.
	5900.	C	IEM	.	.	.	.	.	.	.	.	.
1.12	5950.	C	EM	.	.	.	.	.	.	.	.	.
	6000.	C	EM	.	.	.	.	.	.	.	.	.
	6050.	C	EM	.	.	.	.	.	.	.	.	.
	6100.	C	WE	.	.	.	.	.	.	.	.	.
	6150.	C	IE	.	.	.	.	.	.	.	.	.
	6200.	C	IE	.	.	.	.	.	.	.	.	.
	6250.	C	IE	.	.	.	.	.	.	.	.	.
	6300.	C	IEM	.	.	.	.	.	.	.	.	.
	6350.	C	IEM	.	.	.	.	.	.	.	.	.
	6400.	C	IEM	.	.	.	.	.	.	.	.	.
1.22	6450.	C	.EM	.	.	.	.	.	.	.	.	.
	6500.	C	.EM	.	.	.	.	.	.	.	.	.
	6550.	C	.IE	.	.	.	.	.	.	.	.	.
	6600.	C	.IE	.	.	.	.	.	.	.	.	.
	6650.	C	.IE	.	.	.	.	.	.	.	.	.
	6700.	C	.IE	.	.	.	.	.	.	.	.	.
	6750.	C	. E	.	.	.	.	.	.	.	.	.
	6800.	C	. EM	.	.	.	.	.	.	.	.	.
	6850.	C	. EM	.	.	.	.	.	.	.	.	.
	6900.	C	. IE	.	.	.	.	.	.	.	.	.
	6950.	C	. IE	.	.	.	.	.	.	.	.	.
1.32	7000.	C	. IE	.	.	.	.	.	.	.	.	.
	7050.	C	. IE	.	.	.	.	.	.	.	.	.
	7100.	C	. E	.	.	.	.	.	.	.	.	.
1.35	7150.	.	. E	.	.	.	.	.	.	.	.	.
	7200.	C	. E	.	.	.	.	.	.	.	.	.
	7250.	C	. WE	.	.	.	.	.	.	.	.	.
	7300.	C	. IE	.	.	.	.	.	.	.	.	.
	7350.	C	. IE	.	.	.	.	.	.	.	.	.
	7400.	C	. IE	.	.	.	.	.	.	.	.	.
1.41	7450.	C	. EM	.	.	.	.	.	.	.	.	.
	7500.	C	. EM	.	.	.	.	.	.	.	.	.
	7550.	C	. IE	.	.	.	.	.	.	.	.	.
	7600.	C	. IE	.	.	.	.	.	.	.	.	.
	7650.	C	. IE	.	.	.	.	.	.	.	.	.
	7700.	C	. EM	.	.	.	.	.	.	.	.	.
	7750.	C	. WE	.	.	.	.	.	.	.	.	.
	7800.	C	. IE	.	.	.	.	.	.	.	.	.
	7850.	C	. IE	.	.	.	.	.	.	.	.	.
	7900.	C	. IE	.	.	.	.	.	.	.	.	.
1.50	7950.	.	. EM	.	.	.	.	.	.	.	.	.
	8000.	C	. EM	.	.	.	.	.	.	.	.	.
	8050.	C	. WE	.	.	.	.	.	.	.	.	.
	8100.	C	. IE	.	.	.	.	.	.	.	.	.
	8150.	C	. IEM	.	.	.	.	.	.	.	.	.
	8200.	C	. EM	.	.	.	.	.	.	.	.	.
	8250.	C	. EM	.	.	.	.	.	.	.	.	.
	8300.	C	. WE	.	.	.	.	.	.	.	.	.
	8350.	C	. IEM.	.	.	.	.	.	.	.	.	.
	8400.	C	. IEM.	.	.	.	.	.	.	.	.	.
1.60	8450.	C	. EM.	.	.	.	.	.	.	.	.	.
	8500.	C	. EM.	.	.	.	.	.	.	.	.	.
	8550.	C	. WE.	.	.	.	.	.	.	.	.	.
	8600.	C	. IEM	.	.	.	.	.	.	.	.	.
1.63	8650.	.	. IEM	.	.	.	.	.	.	.	.	.
	8700.	.	. EM	.	.	.	.	.	.	.	.	.
	8750.	.	. IE	.	.	.	.	.	.	.	.	.
1.66	8800.	.	. IEM	.	.	.	.	.	.	.	.	.
	8850.	C	. EM	.	.	.	.	.	.	.	.	.
1.69	8900.	C	. IE	.	.	.	.	.	.	.	.	.

```
      8950.  C        .        IEM      .        .        .        .        .        .        .        .
      9000.  C        .        .EM      .        .        .        .        .        .        .        .
      9050.  C        .        .WE      .        .        .        .        .        .        .        .
      9100.  C        .        .IE      .        .        .        .        .        .        .        .
      9150.  C        .        . EM     .        .        .        .        .        .        .        .
      9200.  C        .        . WE     .        .        .        .        .        .        .        .
      9250.  C        .        . IE     .        .        .        .        .        .        .        .
      9300.  C        .        .  E     .        .        .        .        .        .        .        .
      9350.  C        .        .  EM    .        .        .        .        .        .        .        .
1.78  9400.  .        .        .  IE    .        .        .        .        .        .        .        .
      9450.  C        .        .  IE    .        .        .        .        .        .        .        .
      9500.  C        .        .   EM   .        .        .        .        .        .        .        .
      9550.  C        .        .   WE   .        .        .        .        .        .        .        .
      9600.  C        .        .   IE   .        .        .        .        .        .        .        .
      9650.  C        .        .   IEM  .        .        .        .        .        .        .        .
      9700.  C        .        .    EM  .        .        .        .        .        .        .        .
      9750.  C        .        .    WEM .        .        .        .        .        .        .        .
      9800.  C        .        .    IEM .        .        .        .        .        .        .        .
      9850.  C        .        .    IEM .        .        .        .        .        .        .        .
1.87  9900.  C        .        .     E M.        .        .        .        .        .        .        .
      9950.  C        .        .     WEM.        .        .        .        .        .        .        .
     10000.  C        .        .     IEM.        .        .        .        .        .        .        .
     10050.  C        .        .     IE M.       .        .        .        .        .        .        .
     10100.  C        .        .      WEM.       .        .        .        .        .        .        .
     10150.  C        .        .      IEM.       .        .        .        .        .        .        .
     10200.  C        .        .      IE M       .        .        .        .        .        .        .
     10250.  C        .        .       WEM       .        .        .        .        .        .        .
     10300.  C        .        .       IEM       .        .        .        .        .        .        .
     10350.  .  C     .        .       IE.M      .        .        .        .        .        .        .
1.97 10400.  .        .        .       IWEM      .        .        .        .        .        .        .
     10450.  .        .        .        IEM      .        .        .        .        .        .        .
     10500.  .        .        .        IE M     .        .        .        .        .        .        .
     10550.  .        .        .         WEM     .        .        .        .        .        .        .
     10600.  .        .        .         IEM     .        .        .        .        .        .        .
     10650.  .        .        .         .E M    .        .        .        .        .        .        .
2.02 10700.  .        .        .         .WEM    .        .        .        .        .        .        .
     10750.  .        .        .         .IEM    .        .        .        .        .        .        .
     10800.  .        .        .         .IE M   .        .        .        .        .        .        .
     10850.  .        .        .         . WE M  .        .        .        .        .        .        .
2.06 10900.  .        .        .         . IE M  .        .        .        .        .        .        .
     10950.  .        .        .         .  WE M .        .        .        .        .        .        .
     11000.  .        .        .         .  IE M .        .        .        .        .        .        .
     11050.  .        .        .         .  IE  M.        .        .        .        .        .        .
     11100.  .        .        .         .   IE M.        .        .        .        .        .        .
     11150.  .        .        .         .   IE  M.       .        .        .        .        .        .
2.12 11200.  .        .        .         .    WE M.       .        .        .        .        .        .
     11250.  .        .        .         .    IE  M.      .        .        .        .        .        .
     11300.  .        .        .         .     WE M.      .        .        .        .        .        .
     11350.  .        .        .         .     IE  M      .        .        .        .        .        .
2.15 11400.  .        .        .         .     IE  M      .        .        .        .        .        .
     11450.  .        .        .         .      IE M      .        .        .        .        .        .
     11500.  .        .        .         .      WE.M      .        .        .        .        .        .
     11550.  .        .        .         .      IE.M      .        .        .        .        .        .
     11600.  .        .        .         .       IE M     .        .        .        .        .        .
     11650.  .        .        .         .        E M     .        .        .        .        .        .
     11700.  .        .        .         .        IE M    .        .        .        .        .        .
2.22 11750.  .        .        .         .        .IEM    .        .        .        .        .        .
     11800.  .        .        .         .        .IE M   .        .        .        .        .        .
     11850.  .        .        .         .        . WE M  .        .        .        .        .        .
2.25 11900.  .        .        .         .        . IE M  .        .        .        .        .        .
     11950.  .        .        .         .        .  WE M .        .        .        .        .        .
     12000.  .        .        .         .        .  IE  M.        .        .        .        .        .
```

```
        12050.  .         .         .         .         .  WE M  .         .         .         .         .         .
   2.29 12100.  .         .         .         .         .  IE  M .         .         .         .         .         .
        12150.  .         .         .         .         .   IE  M.         .         .         .         .         .
        12200.  .         .         .         .         .   WE M.         .         .         .         .         .
        12250.  .         .         .         .         .   IE  M         .         .         .         .         .
        12300.  .         .         .         .         .    IE M         .         .         .         .         .
        12350.  .         .         .         .         .     WE.M        .         .         .         .         .
   2.34 12400.  .         .         .         .         .     IE.M        .         .         .         .         .
        12450.  .         .         .         .         .      IE M       .         .         .         .         .
        12500.  .         .         .         .         .       WE M      .         .         .         .         .
        12550.  .         .         .         .         .       IE  M     .         .         .         .         .
   2.38 12600.  .         .         .         .         .       .IE M     .         .         .         .         .
        12650.  .         .         .         .         .       . WE M    .         .         .         .         .
        12700.  .         .         .         .         .       . IE  M   .         .         .         .         .
        12750.  .         .         .         .         .       .  IE M   .         .         .         .         .
        12800.  .         .         .         .         .       .   IE M  .         .         .         .         .
   2.43 12850.  .         .         .         .         .       .    IEM  .         .         .         .         .
1
```



```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE:  3.H2I
T3      WASH "3" - BEDROCK WASH -  NORTH & WEST TO GLENDALE AVE. AND 211TH AVE.)
```

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0	0	0	0	1191.65	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	0	0	0	0

1

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

```
*PROF 2
0

CCHV=     .300 CEHV=     .500
*SECNO  .000

3470 ENCROACHMENT STATIONS=     9941.8   10072.1  TYPE=      1  TARGET=      130.390

        MATCH FLODPLAIN INTO PONDING WATER SURFACE ELEVATION BEHIND WHITE
        TANKS STRUCTURE #3.

        Q @ X1 = 0.000 TO X1 = 0.700 EQUALS Q AT I1-CP17
        Q = 1738 CFS

     .000      4.05   1191.65      .00   1191.65   1192.20      .55      .00      .00   1190.00
   1738.0      10.8    1628.8     98.4       6.8     267.3     30.6       .0       .0   1190.00
```

```
      .00      1.59      6.09      3.21      .070      .045      .035      .000   1187.60   9941.75
   .007415      0.        0.        0.         0         0         0       .00    130.38  10072.13


CNO  .076

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57


3470 ENCROACHMENT STATIONS=     9921.6   10092.2  TYPE=      1  TARGET=      170.550
      .076      4.04   1193.84       .00   1193.84   1194.09       .25      1.80       .09   1192.00
    1738.0      18.5    1654.7      64.8      16.9     406.6      29.6       3.5       1.4   1192.00
      .03      1.09      4.07      2.19      .070      .045      .035      .000   1189.80   9921.62
   .002989      290.      400.      450.         3         0         0       .00    170.55  10092.17


CCHV=     .100 CEHV=     .300
*SECNO  .168

3470 ENCROACHMENT STATIONS=     9792.8   10292.6  TYPE=      1  TARGET=      499.729
      .168      2.59   1195.59       .00   1195.59   1195.70       .11      1.60       .01   1194.30
    1738.0     328.4    1052.6     357.0      197.8     324.6     230.6      10.1       5.0   1194.00
      .08      1.66      3.24      1.55      .070      .045      .070      .000   1193.00   9792.83
   .003756      415.      485.      500.         2         0         0       .00    499.73  10292.56


1
   07NOV91      16:57:09                                                                          PAGE   17

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


*SECNO  .243
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9817.7   10152.3  TYPE=      1  TARGET=      334.600
      .243      2.11   1198.81   1198.81   1198.81   1199.35       .54      3.16       .13   1198.00
    1738.0     780.0     850.7     107.3      181.3     117.0      45.0      14.9       8.7   1198.00
      .10      4.30      7.27      2.39      .070      .045      .070      .000   1196.70   9817.71
   .029219      360.      400.      405.        20        15         0       .00    334.60  10152.31


*SECNO  .337

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.58


3470 ENCROACHMENT STATIONS=     9687.5   10031.2  TYPE=      1  TARGET=      343.670
      .337      3.22   1203.62       .00   1203.62   1203.75       .13      4.36       .04   1201.60
    1738.0    1254.9     467.2      15.9      543.9     114.8      13.1      20.5      12.4   1202.00
      .15      2.31      4.07      1.22      .070      .045      .070      .000   1200.40   9687.49
   .004375      470.      495.      470.         5         0         0       .00    343.67  10031.16


*SECNO  .388
```

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.89

3470 ENCROACHMENT STATIONS= 9729.4 10100.5 TYPE= 1 TARGET= 371.120

.388	4.12	1204.02	.00	1204.02	1204.06	.04	.30	.01	1200.00
1738.0	945.3	667.1	125.6	784.6	346.2	161.8	26.2	14.5	1200.00
.20	1.20	1.93	.78	.070	.045	.070	.000	1199.90	9729.39
.000524	250.	270.	250.	4	0	0	.00	371.12	10100.51

*SECNO .395

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .35

3470 ENCROACHMENT STATIONS= 9742.7 10019.8 TYPE= 1 TARGET= 277.029

.395	4.15	1203.95	.00	1203.95	1204.14	.19	.04	.05	1200.00
1738.0	988.3	749.7	.0	449.8	159.8	.0	27.0	14.8	100000.00
.20	2.20	4.69	.00	.070	.045	.000	.000	1199.80	9742.73
.004311	35.	35.	35.	2	0	0	.00	277.03	10019.76

1

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

*SECNO .478
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9839.5 10094.0 TYPE= 1 TARGET= 254.410

.478	2.05	1207.65	1207.65	1207.64	1208.27	.62	3.85	.13	1206.00
1738.0	590.4	987.3	160.2	154.6	128.0	43.4	31.7	17.4	1206.20
.22	3.82	7.71	3.69	.070	.045	.070	.000	1205.60	9839.54
.026733	440.	440.	415.	10	8	0	.00	254.41	10093.95

*SECNO .603

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.25

3470 ENCROACHMENT STATIONS= 9874.9 10141.8 TYPE= 1 TARGET= 266.909

.603	3.27	1214.67	.00	1214.68	1214.90	.23	6.60	.04	1212.20
1738.0	657.4	779.4	301.2	218.0	159.5	158.0	38.1	21.3	1212.00
.27	3.01	4.89	1.91	.070	.045	.070	.000	1211.40	9874.95
.005297	625.	660.	680.	6	0	0	.00	266.78	10141.73

*SECNO .700

3470 ENCROACHMENT STATIONS= 9945.0 10223.5 TYPE= 1 TARGET= 278.470

.700	2.96	1217.96	.00	1217.96	1218.17	.21	3.27	.00	1216.00
1738.0	7.8	696.0	1034.2	4.8	144.4	384.4	45.2	25.1	1216.00
.31	1.62	4.82	2.69	.070	.045	.070	.000	1215.00	9945.11
.006617	355.	510.	700.	5	0	0	.00	278.40	10223.51

```
CCHV=     .300 CEHV=     .500
*SECNO  .793

3470 ENCROACHMENT STATIONS=     9947.3   10183.0  TYPE=      1  TARGET=      235.729

          Q @ X1 = 0.793 TO X1 = 1.222 EQUALS Q AT CP15
          Q = 1920 CFS

      .793      2.93   1221.03       .00   1221.03   1221.39       .36      3.14       .07   1219.00
    1920.0      77.0    1611.9     231.1      34.4     312.6     103.1      50.2      27.7   1219.00
      .34      2.24      5.16      2.24      .070      .045      .070      .000   1218.10   9947.33
   .007184      520.      490.      390.         3         0         0       .00    235.68  10183.01


1
   07NOV91      16:57:09                                                                          PAGE   19


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


*SECNO  .892

3470 ENCROACHMENT STATIONS=     9893.6   10238.2  TYPE=      1  TARGET=      344.540
      .892      1.92   1225.32       .00   1225.32   1225.60       .28      4.19       .02   1224.00
    1920.0      29.7    1254.1     636.2      17.4     259.0     221.7      55.0      30.5   1224.00
      .37      1.71      4.84      2.87      .070      .045      .070      .000   1223.40   9893.64
   .011310      615.      525.      275.         4         0         0       .00    344.54  10238.18


*SECNO  .978

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     9855.7   10125.0  TYPE=      1  TARGET=      269.280
      .978      2.81   1230.41       .00   1230.19   1230.81       .40      5.15       .06   1230.00
    1920.0     333.5    1316.6     269.9      96.3     231.2      82.7      59.8      33.5   1228.60
      .40      3.46      5.70      3.26      .070      .045      .070      .000   1227.60   9855.72
   .011070      235.      455.      565.         4         0         0       .00    217.40  10125.00


CCHV=     .100 CEHV=     .300
*SECNO 1.058

3470 ENCROACHMENT STATIONS=     9914.9   10090.1  TYPE=      1  TARGET=      175.199
     1.058      2.82   1234.72       .00   1234.51   1235.18       .46      4.35       .02   1234.00
    1920.0       3.0    1914.0       3.0       2.4     352.7       2.4      63.5      35.4   1234.00
      .42      1.24      5.43      1.24      .070      .045      .070      .000   1231.90   9914.90
   .009814      470.      420.      330.         3         0         0       .00    175.20  10090.10


*SECNO 1.124

3470 ENCROACHMENT STATIONS=     9785.1   10068.2  TYPE=      1  TARGET=      283.110
     1.124      2.89   1238.19       .00   1238.32   1238.58       .39      3.40       .01   1236.90
    1920.0     411.9    1508.0        .1     175.1     271.4        .2      66.8      37.2   1238.00
```

```
      .44      2.35      5.56       .43      .070      .045      .070      .000   1235.30   9787.13
  .009557      360.      350.      355.         3         0         0       .00    279.78  10066.91


CNO 1.222

3470 ENCROACHMENT STATIONS=     9782.3   10038.6  TYPE=      1  TARGET=      256.300
1
   07NOV91      16:57:09                                                                          PAGE   20


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


     1.222      3.25   1243.95       .00   1243.82   1244.28       .33      5.69       .01   1242.50
    1920.0    1216.8     703.2        .0     320.7     122.2        .0      71.7      40.2 100000.00
       .47      3.79      5.76       .00      .070      .045      .000      .000   1240.70   9782.34
   .014151      465.      515.      550.         4         0         0       .00    256.30  10038.64


*SECNO 1.317

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .29


3470 ENCROACHMENT STATIONS=     9957.6   10086.8  TYPE=      1  TARGET=      129.130

        Q @ X1 = 1.317 TO X1 = 2.430 EQUALS Q AT SUB15 / 2
        Q = 1039/2 = 520 CFS

     1.317      1.69   1250.89   1250.61   1251.12   1251.17       .28      6.88       .00   1250.00
     520.0      10.7     501.2       8.0       7.8     115.7       5.9      75.0      42.3   1250.00
       .50      1.37      4.33      1.37      .070      .045      .070      .000   1249.20   9962.29
   .012326      495.      505.      470.        12        18         0       .00    120.98  10083.28


*SECNO 1.349

3470 ENCROACHMENT STATIONS=     9933.1   10044.1  TYPE=      1  TARGET=      110.990
     1.349      2.17   1253.07       .00   1252.94   1253.50       .42      2.29       .04   1252.00
     520.0      52.8     451.5      15.7      28.6      81.4       8.6      75.5      42.8   1252.00
       .51      1.85      5.55      1.84      .070      .045      .070      .000   1250.90   9933.09
   .014749      165.      170.      180.         2         0         0       .00    110.99  10044.08


*SECNO 1.409

3470 ENCROACHMENT STATIONS=     9978.1   10026.9  TYPE=      1  TARGET=       48.820
     1.409      2.57   1258.07   1258.00   1258.25   1258.87       .80      5.26       .11   1257.00
     520.0       5.8     508.5       5.8       2.9      70.1       2.9      76.2      43.3   1257.00
       .52      1.99      7.26      1.99      .070      .045      .070      .000   1255.50   9979.45
   .019255      280.      315.      330.         5         8         0       .00     46.11  10025.55


*SECNO 1.500

3470 ENCROACHMENT STATIONS=     9984.8   10020.3  TYPE=      1  TARGET=       35.500
1
   07NOV91      16:57:09                                                                          PAGE   21
```

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


    1.500      2.93    1268.13    1268.09    1268.08    1269.05        .92      10.15        .04    1268.00
    520.0        .0      520.0        .0         .0       67.4         .0       77.0       43.8    1268.00
      .54       .03       7.71        .03       .070       .045       .070       .000    1265.20    9984.80
  .023310      480.       480.       485.         13          8          0        .00      35.50   10020.30


*SECNO 1.598

3470 ENCROACHMENT STATIONS=     9984.9   10030.1  TYPE=       1  TARGET=       45.189
    1.598      2.69    1277.99        .00    1278.02    1278.57        .58       9.49        .03    1278.00
    520.0        .0      520.0        .0         .0       85.0         .0       77.9       44.3    1278.00
      .56       .00       6.12        .00       .000       .045       .000       .000    1275.30    9985.03
  .014931      500.       515.       490.          4          0          0        .00      44.92   10029.94


*SECNO 1.634

3470 ENCROACHMENT STATIONS=     9983.0   10038.0  TYPE=       1  TARGET=       55.029
    1.634      1.91    1281.61    1281.60    1281.60    1282.31        .70       3.70        .04  100000.00
    520.0        .0      520.0        .0         .0       77.4         .0       78.2       44.5  100000.00
      .57       .00       6.72        .00       .000       .045       .000       .000    1279.70    9982.98
  .026495      120.       190.       225.          4         19          0        .00      55.03   10038.01


CCHV=     .100 CEHV=     .300
*SECNO 1.664
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9972.2   10017.8  TYPE=       1  TARGET=       45.520
    1.664      2.76    1287.56    1287.56    1287.55    1288.41        .85       4.49        .04    1287.00
    520.0       1.2      517.6       1.2         .8       69.9         .8       78.5       44.7    1287.00
      .58      1.56       7.40       1.56       .070       .050       .070       .000    1284.80    9972.24
  .029755      135.       160.       140.         10         14          0        .00      45.52   10017.76


*SECNO 1.686

3470 ENCROACHMENT STATIONS=     9972.9   10017.1  TYPE=       1  TARGET=       44.240
    1.686      2.92    1290.42        .00    1290.42    1291.04        .63       2.61        .02    1290.00
    520.0        .4      519.1        .4         .4       81.7         .4       78.7       44.8    1290.00
      .58       .99       6.36        .99       .070       .050       .070       .000    1287.50    9972.92
  .017906      130.       115.       105.          3          0          0        .00      44.17   10017.08


1
   07NOV91      16:57:09                                                                                PAGE   22


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

```
*SECNO 1.779
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9920.0   10013.2  TYPE=      1  TARGET=      93.211
     1.779      1.94   1305.64   1305.64   1305.65   1306.15      .51     12.49      .01 100000.00
     520.0       .0     520.0       .0        .0      91.0       .0      79.7     45.6 100000.00
       .61      .00      5.71       .00      .000      .050     .000      .000  1303.70   9920.18
   .038194     480.      495.      465.         4        23        0       .00    93.03  10013.21


*SECNO 1.870

3470 ENCROACHMENT STATIONS=     9983.8   10022.4  TYPE=      1  TARGET=      38.660
     1.870      2.99   1318.49       .00  1318.49   1319.18      .69     12.98      .05 100000.00
     520.0       .0     520.0       .0        .0      78.1       .0      80.6     46.3 100000.00
       .63      .00      6.66       .00      .000      .050     .000      .000  1315.50   9983.78
   .020137     495.      480.      480.         6         0        0       .00    38.66  10022.44


*SECNO 1.965
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9988.1   10020.3  TYPE=      1  TARGET=      32.199
     1.965      4.08   1334.08   1334.08   1334.08   1335.10     1.02     12.30      .10 100000.00
     520.0       .0     520.0       .0        .0      64.1       .0      81.4     46.7   1334.00
       .64      .00      8.11       .04      .000      .050     .070      .000  1330.00   9988.08
   .030705     505.      500.      490.         3        11        0       .00    32.18  10020.26


*SECNO 2.019
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.3   10020.6  TYPE=      1  TARGET=      34.351
     2.019      2.64   1344.24   1344.24   1344.24   1345.22      .98      8.71      .00 100000.00
     520.0       .0     520.0       .0        .0      65.5       .1      81.9     46.9   1344.00
       .65      .00      7.94       .04      .000      .050     .070      .000  1341.60   9986.26
   .030426     270.      285.      210.        14        14        0       .00    34.35  10020.61


1
   07NOV91      16:57:09                                                                    PAGE   23


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


*SECNO 2.062
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.3   10013.7  TYPE=      1  TARGET=      27.480
     2.062      3.04   1352.24   1352.24   1352.25   1353.36     1.12      6.78      .04 100000.00
     520.0       .0     520.0       .0        .0      61.3       .0      82.2     47.1 100000.00
       .66      .00      8.49       .00      .000      .050     .000      .000  1349.20   9986.26
   .029803     205.      225.      230.         3         8        0       .00    27.48  10013.74
```

```
*SECNO 2.120
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9990.5   10014.5  TYPE=      1  TARGET=      24.100
    2.120      3.42   1364.72   1364.72   1364.73   1365.95      1.23      9.24       .03 100000.00
    520.0       .0     520.0       .0        .0      58.5        .0      82.6      47.3 100000.00
      .67       .00      8.89       .00      .000      .050      .000      .000   1361.30   9990.46
  .029830     320.      310.      265.         9         8         0       .00     24.08  10014.54


*SECNO 2.155
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9977.8   10018.1  TYPE=      1  TARGET=      40.300
    2.155      3.62   1373.62   1373.62   1373.62   1374.51       .89      5.76       .03 100000.00
    520.0       .0     520.0       .0        .0      68.6        .0      82.9      47.4 100000.00
      .68       .00      7.58       .00      .000      .050      .000      .000   1370.00   9977.88
  .032557     145.      185.      215.        20         8         0       .00     40.19  10018.08


*SECNO 2.221
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9979.4   10020.6  TYPE=      1  TARGET=      41.119
    2.221      3.10   1395.10   1395.10   1395.11   1395.98       .88     11.18       .00 100000.00
    520.0       .0     520.0       .0        .0      69.3        .0      83.4      47.7 100000.00
      .69       .00      7.51       .00      .000      .050      .000      .000   1392.00   9979.48
  .032280     360.      345.      290.        10        15         0       .00     41.05  10020.52


1
   07NOV91      16:57:09                                                                          PAGE   24


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


*SECNO 2.248
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.8   10019.1  TYPE=      1  TARGET=      37.320
    2.248      2.94   1401.64   1401.64   1401.64   1402.57       .93      4.62       .02 100000.00
    520.0       .0     520.0       .0        .0      67.3        .0      83.7      47.8 100000.00
      .69       .00      7.73       .00      .000      .050      .000      .000   1398.70   9981.81
  .031479     135.      145.      155.        10        11         0       .00     37.29  10019.09


*SECNO 2.285
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9986.4   10013.6  TYPE=      1  TARGET=      27.180
```

```
    2.285      3.15   1412.15   1412.15   1412.15   1413.29      1.14      6.01       .06 100000.00
    520.0       .0     520.0       .0        .0      60.7        .0      84.0      48.0 100000.00
      .70      .00      8.56       .00      .000      .050      .000      .000   1409.00   9986.42
  .030222     215.      195.      175.        11         8         0       .00     27.17  10013.58


*SECNO 2.341
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9980.9   10009.7  TYPE=      1  TARGET=      28.811
    2.341      4.31   1432.81   1432.81   1432.82   1433.91      1.09      8.96       .00 100000.00
    520.0       .0     520.0       .0        .0      62.1        .0      84.4      48.2 100000.00
      .71      .00      8.38       .00      .000      .050      .000      .000   1428.50   9980.93
  .030520     220.      295.      300.        20        11         0       .00     28.76  10009.69


*SECNO 2.379
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9984.7   10015.3  TYPE=      1  TARGET=      30.561
    2.379      4.07   1446.07   1446.07   1446.08   1447.16      1.09      6.20       .00   1446.00
    520.0       .0     520.0       .0        .0      62.1        .0      84.7      48.3   1446.00
      .72      .04      8.37       .04      .070      .050      .070      .000   1442.00   9984.73
  .031465     230.      200.      175.        20        11         0       .00     30.53  10015.26
```



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


*SECNO 2.430
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9990.2   10036.4  TYPE=      1  TARGET=      46.200
    2.430      4.04   1465.74   1465.74   1465.76   1466.57       .82      8.87       .03 100000.00
    520.0       .0     520.0       .0        .0      71.4        .0      85.1      48.6 100000.00
      .73      .00      7.28       .00      .000      .050      .000      .000   1461.70   9990.26
  .034370     235.      270.      290.        20         5         0       .00     45.89  10036.15


1
```


THIS RUN EXECUTED 07NOV91 16:57:42

****

HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

WASH "3" - BEDROCK WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	1738.00	1191.65	9941.75	9950.00	10035.00	10072.14	.00	130.40	4.05	1187.60	74.08	6.09
	.000	1738.00	1191.65	9941.75	9950.00	10035.00	10072.13	.00	130.38	4.05	1187.60	74.15	6.09
*	.076	1738.00	1193.84	9921.62	9940.00	10060.00	10092.17	2.19	170.54	4.04	1189.80	29.90	4.07
*	.076	1738.00	1193.84	9921.62	9940.00	10060.00	10092.17	2.19	170.55	4.04	1189.80	29.89	4.07
	.168	1738.00	1195.59	9792.83	9950.00	10110.00	10292.56	1.75	499.73	2.59	1193.00	37.57	3.24
	.168	1738.00	1195.59	9792.83	9950.00	10110.00	10292.56	1.75	499.73	2.59	1193.00	37.56	3.24
*	.243	1738.00	1198.81	9817.71	9980.00	10060.00	10152.41	3.22	334.70	2.11	1196.70	296.46	7.31
*	.243	1738.00	1198.81	9817.71	9980.00	10060.00	10152.31	3.23	334.60	2.11	1196.70	292.19	7.27
*	.337	1738.00	1203.62	9687.31	9970.00	10015.00	10031.21	4.82	343.90	3.22	1200.40	43.49	4.06
*	.337	1738.00	1203.62	9687.49	9970.00	10015.00	10031.16	4.81	343.67	3.22	1200.40	43.75	4.07
*	.388	1738.00	1204.02	9729.36	9935.00	10020.00	10100.54	.40	371.18	4.12	1199.90	5.24	1.93
	.388	1738.00	1204.02	9729.39	9935.00	10020.00	10100.51	.40	371.12	4.12	1199.90	5.24	1.93
*	.395	1738.00	1203.95	9742.67	9970.00	10020.00	10019.77	-.07	277.09	4.15	1199.80	43.25	4.70
*	.395	1738.00	1203.95	9742.73	9970.00	10020.00	10019.76	-.07	277.03	4.15	1199.80	43.11	4.69
*	.478	1738.00	1207.64	9839.56	9975.00	10050.00	10093.92	3.68	254.37	2.04	1205.60	274.88	7.78
*	.478	1738.00	1207.65	9839.54	9975.00	10050.00	10093.95	3.69	254.41	2.05	1205.60	267.33	7.71
*	.603	1738.00	1214.68	9874.90	9960.00	10015.00	10141.81	7.05	266.91	3.28	1211.40	52.40	4.87
*	.603	1738.00	1214.67	9874.95	9960.00	10015.00	10141.73	7.03	266.78	3.27	1211.40	52.97	4.89
	.700	1738.00	1217.96	9945.11	9950.00	10010.00	10223.51	3.27	278.40	2.96	1215.00	66.50	4.83
	.700	1738.00	1217.96	9945.11	9950.00	10010.00	10223.51	3.29	278.40	2.96	1215.00	66.17	4.82
	.793	1920.00	1221.03	9947.32	9975.00	10100.00	10183.05	3.07	235.74	2.93	1218.10	71.66	5.15
	.793	1920.00	1221.03	9947.33	9975.00	10100.00	10183.01	3.07	235.68	2.93	1218.10	71.84	5.16

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.892	1920.00	1225.32	9893.64	9920.00	10080.00	10238.18	4.29	344.53	1.92	1223.40	113.37	4.85
	.892	1920.00	1225.32	9893.64	9920.00	10080.00	10238.18	4.29	344.54	1.92	1223.40	113.10	4.84
	.978	1920.00	1230.19	9855.72	9970.00	10080.00	10255.23	4.87	343.30	2.59	1227.60	90.79	4.80
	.978	1920.00	1230.41	9855.72	9970.00	10080.00	10125.00	5.09	217.40	2.81	1227.60	110.70	5.70
	1.058	1920.00	1234.51	9914.90	9920.00	10085.00	10090.10	4.32	175.20	2.61	1231.90	140.69	6.05
	1.058	1920.00	1234.72	9914.90	9920.00	10085.00	10090.10	4.31	175.20	2.82	1231.90	98.14	5.43

	1.124	1920.00	1238.32	9785.13	9945.00	10065.00	10068.24	3.80	283.11	3.02	1235.30	76.11	5.15
	1.124	1920.00	1238.19	9787.13	9945.00	10065.00	10066.91	3.47	279.78	2.89	1235.30	95.57	5.56
*	1.222	1920.00	1243.82	9782.34	9970.00	10040.00	10038.64	5.50	256.30	3.12	1240.70	181.67	6.20
	1.222	1920.00	1243.95	9782.34	9970.00	10040.00	10038.64	5.76	256.30	3.25	1240.70	141.51	5.76
*	1.317	520.00	1251.12	9957.64	9980.00	10070.00	10086.77	7.30	129.12	1.92	1249.20	68.75	3.62
*	1.317	520.00	1250.89	9962.29	9980.00	10070.00	10083.28	6.94	120.98	1.69	1249.20	123.26	4.33
*	1.349	520.00	1252.94	9933.09	9980.00	10030.00	10044.07	1.82	110.98	2.04	1250.90	212.54	6.27
	1.349	520.00	1253.07	9933.09	9980.00	10030.00	10044.08	2.19	110.99	2.17	1250.90	147.49	5.55
	1.409	520.00	1258.25	9978.09	9985.00	10020.00	10026.91	5.32	48.82	2.75	1255.50	141.75	6.60
	1.409	520.00	1258.07	9979.45	9985.00	10020.00	10025.55	4.99	46.11	2.57	1255.50	192.55	7.26
*	1.500	520.00	1268.08	9984.80	9985.00	10020.00	10020.30	9.83	35.50	2.88	1265.20	252.50	7.90
	1.500	520.00	1268.13	9984.80	9985.00	10020.00	10020.30	10.06	35.50	2.93	1265.20	233.10	7.71
	1.598	520.00	1278.02	9984.94	9985.00	10030.00	10030.13	9.94	45.19	2.72	1275.30	140.47	6.00
	1.598	520.00	1277.99	9985.03	9985.00	10030.00	10029.94	9.87	44.92	2.69	1275.30	149.31	6.12
*	1.634	520.00	1281.60	9982.98	9980.00	10040.00	10038.01	3.58	55.03	1.90	1279.70	270.30	6.76
	1.634	520.00	1281.61	9982.98	9980.00	10040.00	10038.01	3.62	55.03	1.91	1279.70	264.95	6.72
*	1.664	520.00	1287.55	9972.24	9975.00	10015.00	10017.76	5.95	45.52	2.75	1284.80	302.06	7.44
*	1.664	520.00	1287.56	9972.24	9975.00	10015.00	10017.76	5.95	45.52	2.76	1284.80	297.55	7.40
	1.686	520.00	1290.42	9972.88	9975.00	10015.00	10017.12	2.87	44.24	2.92	1287.50	177.09	6.33
	1.686	520.00	1290.42	9972.92	9975.00	10015.00	10017.08	2.86	44.17	2.92	1287.50	179.06	6.36
	1.779	520.00	1305.65	9920.02	9905.00	10015.00	10013.23	15.22	93.21	1.95	1303.70	378.14	5.69
*	1.779	520.00	1305.64	9920.18	9905.00	10015.00	10013.21	15.23	93.03	1.94	1303.70	381.94	5.71
	1.870	520.00	1318.49	9983.78	9980.00	10030.00	10022.44	12.84	38.66	2.99	1315.50	202.71	6.67
	1.870	520.00	1318.49	9983.78	9980.00	10030.00	10022.44	12.85	38.66	2.99	1315.50	201.37	6.66
*	1.965	520.00	1334.08	9988.07	9985.00	10020.00	10020.27	15.59	32.20	4.08	1330.00	306.08	8.10
*	1.965	520.00	1334.08	9988.08	9985.00	10020.00	10020.26	15.58	32.18	4.08	1330.00	307.05	8.11
*	2.019	520.00	1344.24	9986.26	9985.00	10020.00	10020.61	10.16	34.34	2.64	1341.60	304.92	7.94
*	2.019	520.00	1344.24	9986.26	9985.00	10020.00	10020.61	10.17	34.35	2.64	1341.60	304.26	7.94

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	2.062	520.00	1352.25	9986.26	9985.00	10015.00	10013.74	8.00	27.48	3.05	1349.20	297.31	8.48
*	2.062	520.00	1352.24	9986.26	9985.00	10015.00	10013.74	8.00	27.48	3.04	1349.20	298.03	8.49
*	2.120	520.00	1364.73	9990.45	9990.00	10015.00	10014.55	12.48	24.10	3.43	1361.30	296.88	8.88
*	2.120	520.00	1364.72	9990.46	9990.00	10015.00	10014.54	12.48	24.08	3.42	1361.30	298.30	8.89
*	2.155	520.00	1373.62	9977.82	9975.00	10020.00	10018.12	8.90	40.30	3.62	1370.00	321.38	7.54
	2.155	520.00	1373.62	9977.88	9975.00	10020.00	10018.08	8.89	40.19	3.62	1370.00	325.57	7.58
*	2.221	520.00	1395.11	9979.44	9975.00	10025.00	10020.56	21.49	41.11	3.11	1392.00	319.45	7.48
*	2.221	520.00	1395.10	9979.48	9975.00	10025.00	10020.52	21.49	41.05	3.10	1392.00	322.80	7.51
*	2.248	520.00	1401.64	9981.79	9980.00	10020.00	10019.11	6.53	37.32	2.94	1398.70	312.56	7.71
*	2.248	520.00	1401.64	9981.81	9980.00	10020.00	10019.09	6.53	37.29	2.94	1398.70	314.79	7.73

*	2.285	520.00	1412.15	9986.41	9985.00	10015.00	10013.59	10.51	27.18	3.15	1409.00	301.49	8.56
*	2.285	520.00	1412.15	9986.42	9985.00	10015.00	10013.58	10.51	27.17	3.15	1409.00	302.22	8.56
	2.341	520.00	1432.82	9980.89	9980.00	10010.00	10009.70	20.67	28.81	4.32	1428.50	302.45	8.35
	2.341	520.00	1432.81	9980.93	9980.00	10010.00	10009.69	20.66	28.76	4.31	1428.50	305.20	8.38
*	2.379	520.00	1446.08	9984.71	9985.00	10015.00	10015.29	13.25	30.57	4.08	1442.00	311.94	8.35
*	2.379	520.00	1446.07	9984.73	9985.00	10015.00	10015.26	13.26	30.53	4.07	1442.00	314.65	8.37
*	2.430	520.00	1465.76	9990.21	9980.00	10040.00	10036.41	19.68	46.20	4.06	1461.70	333.89	7.20
*	2.430	520.00	1465.74	9990.26	9980.00	10040.00	10036.15	19.67	45.89	4.04	1461.70	343.70	7.28

WASH "3" - BEDROCK WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1191.65	-.35	1192.20	130.40	10.81	1628.68	98.51	.00	.00	9950.00	10035.00	.00
	.000	1191.65	.00	1192.20	130.38	10.80	1628.76	98.43	130.39	9941.75	9950.00	10035.00	10072.14
*	.076	1193.84	.00	1194.09	170.54	18.47	1654.73	64.79	.00	.00	9940.00	10060.00	.00
*	.076	1193.84	.00	1194.09	170.55	18.47	1654.72	64.80	170.55	9921.62	9940.00	10060.00	10092.17
	.168	1195.59	.00	1195.70	499.73	328.39	1052.65	356.96	.00	.00	9950.00	10110.00	.00
	.168	1195.59	.00	1195.70	499.73	328.39	1052.63	356.98	499.73	9792.83	9950.00	10110.00	10292.56
*	.243	1198.81	.00	1199.35	334.70	780.12	851.63	106.25	.00	.00	9980.00	10060.00	.00
*	.243	1198.81	.01	1199.35	334.60	780.01	850.68	107.31	334.60	9817.71	9980.00	10060.00	10152.31
*	.337	1203.62	.00	1203.75	343.90	1255.04	467.02	15.94	.00	.00	9970.00	10015.00	.00
*	.337	1203.62	.00	1203.75	343.67	1254.90	467.21	15.89	343.67	9687.49	9970.00	10015.00	10031.16
*	.388	1204.02	.00	1204.06	371.18	945.36	667.10	125.55	.00	.00	9935.00	10020.00	.00
*	.388	1204.02	.00	1204.06	371.12	945.34	667.07	125.60	371.12	9729.39	9935.00	10020.00	10100.51
*	.395	1203.95	.00	1204.14	277.09	988.00	750.00	.00	.00	.00	9970.00	10020.00	.00
*	.395	1203.95	.00	1204.14	277.03	988.33	749.67	.00	277.03	9742.73	9970.00	10020.00	10019.76
*	.478	1207.64	.00	1208.27	254.37	588.64	989.76	159.60	.00	.00	9975.00	10050.00	.00
*	.478	1207.65	.01	1208.27	254.41	590.42	987.33	160.25	254.41	9839.54	9975.00	10050.00	10093.95
*	.603	1214.68	.00	1214.91	266.91	656.90	778.66	302.44	.00	.00	9960.00	10015.00	.00
*	.603	1214.67	-.01	1214.90	266.78	657.35	779.43	301.22	266.91	9874.90	9960.00	10015.00	10141.81
	.700	1217.96	.00	1218.17	278.40	7.75	696.29	1033.97	.00	.00	9950.00	10010.00	.00
	.700	1217.96	.00	1218.17	278.40	7.76	696.05	1034.19	278.47	9945.04	9950.00	10010.00	10223.51
	.793	1221.03	.00	1221.39	235.74	77.02	1611.68	231.30	.00	.00	9975.00	10100.00	.00
	.793	1221.03	.00	1221.39	235.68	76.97	1611.91	231.13	235.73	9947.32	9975.00	10100.00	10183.05
	.892	1225.32	.00	1225.60	344.53	29.69	1254.18	636.12	.00	.00	9920.00	10080.00	.00
	.892	1225.32	.00	1225.60	344.54	29.74	1254.09	636.17	344.54	9893.64	9920.00	10080.00	10238.18
	.978	1230.19	.00	1230.43	343.30	247.71	995.08	677.21	.00	.00	9970.00	10080.00	.00
	.978	1230.41	.22	1230.81	217.40	333.51	1316.63	269.85	269.28	9855.72	9970.00	10080.00	10125.00

	1.058	1234.51	.00	1235.08	175.20	1.31	1917.37	1.31	.00	.00	9920.00	10085.00	.00
	1.058	1234.72	.21	1235.18	175.20	2.98	1914.05	2.97	175.20	9914.90	9920.00	10085.00	10090.10
	1.124	1238.32	.00	1238.65	283.11	439.14	1480.57	.29	.00	.00	9945.00	10065.00	.00
	1.124	1238.19	-.13	1238.58	279.78	411.93	1507.99	.08	283.11	9785.13	9945.00	10065.00	10068.24
*	1.222	1243.82	.00	1244.20	256.30	1217.67	702.33	.00	.00	.00	9970.00	10040.00	.00
	1.222	1243.95	.13	1244.28	256.30	1216.81	703.19	.00	256.30	9782.34	9970.00	10040.00	10038.64

1

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	1.317	1251.12	.00	1251.31	129.12	14.91	493.91	11.17	.00	.00	9980.00	10070.00	.00
*	1.317	1250.89	-.23	1251.17	120.98	10.72	501.25	8.03	129.13	9957.64	9980.00	10070.00	10086.77
*	1.349	1252.94	.00	1253.49	110.98	41.10	466.59	12.31	.00	.00	9980.00	10030.00	.00
	1.349	1253.07	.14	1253.50	110.99	52.79	451.47	15.74	110.99	9933.09	9980.00	10030.00	10044.08
	1.409	1258.25	.00	1258.91	48.82	7.96	504.07	7.96	.00	.00	9985.00	10020.00	.00
	1.409	1258.07	-.19	1258.87	46.11	5.76	508.48	5.76	48.82	9978.09	9985.00	10020.00	10026.91
*	1.500	1268.08	.00	1269.05	35.50	.00	520.00	.00	.00	.00	9985.00	10020.00	.00
	1.500	1268.13	.05	1269.05	35.50	.00	520.00	.00	35.50	9984.80	9985.00	10020.00	10020.30
	1.598	1278.02	.00	1278.58	45.19	.00	520.00	.00	.00	.00	9985.00	10030.00	.00
	1.598	1277.99	-.03	1278.57	44.92	.00	520.00	.00	45.19	9984.94	9985.00	10030.00	10030.13
	1.634	1281.60	.00	1282.31	55.03	.00	520.00	.00	.00	.00	9980.00	10040.00	.00
	1.634	1281.61	.01	1282.31	55.03	.00	520.00	.00	55.03	9982.98	9980.00	10040.00	10038.01
*	1.664	1287.55	.00	1288.41	45.52	1.18	517.64	1.18	.00	.00	9975.00	10015.00	.00
*	1.664	1287.56	.01	1288.41	45.52	1.22	517.56	1.22	45.52	9972.24	9975.00	10015.00	10017.76
	1.686	1290.42	.00	1291.04	44.24	.44	519.11	.44	.00	.00	9975.00	10015.00	.00
	1.686	1290.42	-.01	1291.04	44.17	.43	519.14	.43	44.24	9972.88	9975.00	10015.00	10017.12
*	1.779	1305.65	.00	1306.15	93.21	.00	520.00	.00	.00	.00	9905.00	10015.00	.00
*	1.779	1305.64	.00	1306.15	93.03	.00	520.00	.00	93.21	9920.02	9905.00	10015.00	10013.23
	1.870	1318.49	.00	1319.18	38.66	.00	520.00	.00	.00	.00	9980.00	10030.00	.00
	1.870	1318.49	.01	1319.18	38.66	.00	520.00	.00	38.66	9983.78	9980.00	10030.00	10022.44
*	1.965	1334.08	.00	1335.10	32.20	.00	520.00	.00	.00	.00	9985.00	10020.00	.00
*	1.965	1334.08	.00	1335.10	32.18	.00	520.00	.00	32.20	9988.07	9985.00	10020.00	10020.27
*	2.019	1344.24	.00	1345.22	34.34	.00	520.00	.00	.00	.00	9985.00	10020.00	.00
*	2.019	1344.24	.00	1345.22	34.35	.00	520.00	.00	34.35	9986.26	9985.00	10020.00	10020.61
*	2.062	1352.25	.00	1353.36	27.48	.00	520.00	.00	.00	.00	9985.00	10015.00	.00
*	2.062	1352.24	.00	1353.36	27.48	.00	520.00	.00	27.48	9986.26	9985.00	10015.00	10013.74
	2.120	1364.73	.00	1365.95	24.10	.00	520.00	.00	.00	.00	9990.00	10015.00	.00
	2.120	1364.72	.00	1365.95	24.08	.00	520.00	.00	24.10	9990.45	9990.00	10015.00	10014.55
*	2.155	1373.62	.00	1374.51	40.30	.00	520.00	.00	.00	.00	9975.00	10020.00	.00
*	2.155	1373.62	-.01	1374.51	40.19	.00	520.00	.00	40.30	9977.82	9975.00	10020.00	10018.12
*	2.221	1395.11	.00	1395.98	41.11	.00	520.00	.00	.00	.00	9975.00	10025.00	.00

*	2.221	1395.10	-.01	1395.98	41.05	.00	520.00	.00	41.12	9979.44	9975.00	10025.00	10020.56
*	2.248	1401.64	.00	1402.57	37.32	.00	520.00	.00	.00	.00	9980.00	10020.00	.00
*	2.248	1401.64	.00	1402.57	37.29	.00	520.00	.00	37.32	9981.79	9980.00	10020.00	10019.11

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.285	1412.15	.00	1413.29	27.18	.00	520.00	.00	.00	.00	9985.00	10015.00	.00
*	2.285	1412.15	.00	1413.29	27.17	.00	520.00	.00	27.18	9986.41	9985.00	10015.00	10013.59
*	2.341	1432.82	.00	1433.91	28.81	.00	520.00	.00	.00	.00	9980.00	10010.00	.00
*	2.341	1432.81	-.01	1433.91	28.76	.00	520.00	.00	28.81	9980.89	9980.00	10010.00	10009.70
*	2.379	1446.08	.00	1447.16	30.57	.00	520.00	.00	.00	.00	9985.00	10015.00	.00
*	2.379	1446.07	-.01	1447.16	30.53	.00	520.00	.00	30.56	9984.72	9985.00	10015.00	10015.28
*	2.430	1465.76	.00	1466.57	46.20	.00	520.00	.00	.00	.00	9980.00	10040.00	.00
*	2.430	1465.74	-.02	1466.57	45.89	.00	520.00	.00	46.20	9990.21	9980.00	10040.00	10036.41

1

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=      .076  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .076  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .243  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .243  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .243  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .243  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .243  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .243  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .337  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .337  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .388  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .388  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .395  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .395  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .478  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .478  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .478  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .478  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .603  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .603  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.222  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.317  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

```
WARNING SECNO=      1.317  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.349  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.349  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.500  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.500  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.634  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.634  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.664  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.664  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.664  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.664  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      1.779  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.779  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.779  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.779  PROFILE=  2  MINIMUM SPECIFIC ENERGY
1
```



```
CAUTION SECNO=      1.965  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.965  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.965  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.965  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.019  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.019  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.019  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.019  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.062  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.062  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.062  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.062  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.120  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.120  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.120  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.120  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.155  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.155  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.155  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.155  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.155  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.155  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.221  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.221  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.221  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.221  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.248  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.248  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.248  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.248  PROFILE=  2  MINIMUM SPECIFIC ENERGY
```

```
CAUTION SECNO=      2.285  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.285  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.285  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.285  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      2.341  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.341  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.341  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.341  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.341  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.341  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.379  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.379  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.379  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.379  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.379  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
1
```



```
CAUTION SECNO=      2.379  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      2.430  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.430  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.430  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      2.430  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      2.430  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      2.430  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
```


FLOODWAY DATA, WASH "3" - BEDROCK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	130.	305.	5.7	1191.7	1191.7	.0
.076	171.	453.	3.8	1193.8	1193.8	.0
.168	500.	753.	2.3	1195.6	1195.6	.0
.243	335.	343.	5.1	1198.8	1198.8	.0
.337	344.	672.	2.6	1203.6	1203.6	.0
.388	371.	1293.	1.3	1204.0	1204.0	.0
.395	277.	610.	2.9	1204.0	1204.0	.0
.478	254.	326.	5.3	1207.6	1207.6	.0
.603	267.	536.	3.2	1214.7	1214.7	.0
.700	278.	534.	3.3	1218.0	1218.0	.0
.793	236.	450.	4.3	1221.0	1221.0	.0
.892	345.	498.	3.9	1225.3	1225.3	.0
.978	269.	410.	4.7	1230.4	1230.2	.2
1.058	175.	358.	5.4	1234.7	1234.5	.2
1.124	280.	447.	4.3	1238.2	1238.3	-.1
1.222	256.	443.	4.3	1243.9	1243.8	.1
1.317	121.	129.	4.0	1250.9	1251.1	-.2
1.349	111.	119.	4.4	1253.0	1252.9	.1

1.409	46.	76.	6.9	1258.1	1258.3	-.2
1.500	35.	67.	7.7	1268.1	1268.1	.0
1.598	45.	85.	6.1	1278.0	1278.0	.0
1.634	55.	77.	6.7	1281.6	1281.6	.0
1.664	46.	71.	7.3	1287.6	1287.6	.0
1.686	44.	83.	6.3	1290.4	1290.4	.0
1.779	93.	91.	5.7	1305.6	1305.6	.0
1.870	39.	78.	6.7	1318.5	1318.5	.0
1.965	32.	64.	8.1	1334.1	1334.1	.0
2.019	34.	66.	7.9	1344.2	1344.2	.0
2.062	27.	61.	8.5	1352.2	1352.2	.0
2.120	24.	58.	8.9	1364.7	1364.7	.0
2.155	40.	69.	7.6	1373.6	1373.6	.0
2.221	41.	69.	7.5	1395.1	1395.1	.0
2.248	37.	67.	7.7	1401.6	1401.6	.0
2.285	27.	61.	8.6	1412.2	1412.2	.0
2.341	29.	62.	8.4	1432.8	1432.8	.0
2.379	31.	62.	8.4	1446.1	1446.1	.0
2.430	46.	71.	7.3	1465.8	1465.8	.0

```
1*****************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    07NOV91    TIME   16:52:09 *
*****************************************
```

```
****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  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
```

1

07NOV91 16:52:09 PAGE 1

THIS RUN EXECUTED 07NOV91 16:52:09

3A.H2O - North Fork Bedrock Wa:
Latest Version
W/ Floodway

```
****************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
****************************************
```

```
T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODPLAIN RUN      FILE:  3A.H2I
T3      WASH "3A" - NORTH FORK BEDROCK WASH - TRIBUTARY TO WASH "3"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        2        0        0        0        0        0        0     1238.32     0

J2  NPROF    IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

      1        0        0        0        0        0        0        0        0        0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     38       43        1       53       21       22       54       51        4        8
     42        5       26        0      110        0      200

NC     .07      .07     .045      .1       .3
QT       2     1920     1920
                          9.1                                                  9785.35     10068

          CONFLUENCE WITH BEDROCK WASH - WASH "3"


          Q @ X1 = 0.000 TO X1 = 0.094 EQUALS Q AT CP15
          Q = 1920 CFS
```

```
X1    0.00       14      9790     10065       0       0       0
GR   1242.3     9685      1242      9700    1240    9760    1238    9790    1237    9845
GR   1236.7     9890    1236.9      9945    1236    9970  1235.3   10000    1236   10055
      1238    10065      1240     10085    1242   10110  1242.7   10140

ET                         9.1                                            9941.11  10191.21
X1   0.094       15      9905     10195     425     500     495
GR    1247     9740      1246      9865  1246.6    9905  1242.3    9955  1242.7    9975
GR  1242.5    10000      1243     10035  1240.7   10080  1242.5   10125  1241.1   10155
GR    1242    10180      1244     10195    1246   10215    1248   10230  1248.9   10255

QT       2     1560      1560
ET                         9.1                                             9900  10076.37
1
   07NOV91      16:52:09                                                              PAGE    2


          Q @ X1 = 0.147 TO X1 = 0.964 EQUALS (Q AT RCP14 + Q AT SUB15/2)
          Q = 1041 + (1039/2) = 1560 CFS

X1   0.147       13      9965     10080     290     270     280
GR    1250     9750      1248      9770    1246    9830  1244.8    9880    1246    9900
GR    1248     9920    1249.3      9945    1248    9965    1246    9985  1245.2   10000
GR    1246    10030      1248     10080  1249.2   10120

ET                         9.1                                            9873.88  10114.81
X1   0.194        7      9925     10030     250     230     250
GR  1252.8     9820      1252      9850    1250    9925  1249.4   10000  1250.2   10030
      1249.5    10050    1251.8     10130

ET                         9.1                                             9825  10075.20
X1   0.230       11      9955     10065     190     165     190
GR    1256     9725      1254      9800    1252    9835  1251.3    9880    1252    9910
GR    1254     9955      1252      9980  1251.2   10000    1252   10025    1253   10065
GR    1255    10085

ET                         9.1                                            9924.28  10043.54
X1   0.310        6      9915     10040     450     400     420
GR    1263     9915      1260      9985    1259   10000    1260   10010    1262   10040
GR  1268.8    10080

ET                         9.1                                            9953.17  10067.86
X1   0.400       10      9980     10020     440     515     475
GR  1271.4     9910      1270      9970    1268    9980    1266    9995  1265.5   10000
GR    1266    10010      1268     10020    1270   10060    1272   10100  1272.4   10145

ET                         9.1                                            9977.15  10101.31
X1   0.496        8      9975     10030     465     455     510
GR  1282.9     9855      1282      9910    1280    9975    1276    9985    1274   10000
GR    1276    10015      1278     10030    1280   10155

ET                         9.1                                            9952.21  10035.84
X1   0.590       13      9960     10030     450     480     495
      1292     9895      1290      9910    1288    9940    1286    9960    1284    9975
     1282.8    10000      1284     10020    1286   10030    1288   10045    1290   10065
GR    1292    10095      1294     10135    1296   10210

NC     .07      .07      .035        .3      .5
ET                         9.1                                            9976.91  10031.19
X1   0.684       11      9975     10035     485     485     495
```

```
GR   1298.1     9895     1298     9925     1296     9975     1292     9985   1290.5    10000
GR      1292   10015     1294    10025     1296    10035     1298    10045     1300    10055
GR      1302   10175
                          9.1                                                9956.95   10049.03
X1     0.777       7     9975    10050      515      445      490
GR    1306.1     9915     1306     9925     1304     9975     1302     9985   1299.8    10000
GR      1302   10015   1304.8    10050
1
   07NOV91     16:52:09                                                                  PAGE    3


ET                        9.1                                                9933.66   10052.55
X1     0.870       9     9975    10030      460      430      495
GR      1314     9920     1312     9975     1310     9990   1308.7    10000     1310    10010
GR      1312   10030     1314    10060     1316    10095     1318    10130

NC      .07      .07     .045       .1       .3
ET                        9.1                                                9969.58   10066.83
X1     0.964       9     9975    10035      480      475      495
GR    1324.7     9955     1324     9965     1322     9975     1320     9990   1319.2    10000
GR      1320   10015     1322    10035   1321.2    10050     1324    10075

QT         2     1362     1362
ET                        9.1                                                9969.64   10025.18

          Q AT X1 = 1.063 TO X1 = 1.545 EQUALS (Q AT X1=.964 + Q AT SUB14)/2
          Q = (1560 + 1163)/2 = 1362 CFS

     1.063      10     9960    10030      485      520      525
GR      1334     9960     1330     9980     1328     9990   1327.2    10000     1328    10010
GR      1330   10020     1334    10030     1336    10045     1338    10080     1340    10110

ET                        9.1                                                9967.11   10029.34
X1     1.158      15     9970    10025      500      490      500
GR    1346.7     9880     1346     9910     1344     9950     1342     9960     1340     9970
GR      1338     9980     1336    10000     1338    10010     1340    10025     1342    10040
GR      1344   10055     1346    10065     1348    10080     1350    10095     1352    10115

ET                        9.1                                                9908.97   10037.76
X1     1.254       7     9920    10040      450      515      505
GR      1360     9720   1359.2     9810     1358     9895     1356     9920   1354.3     9975
GR    1354.9    10000     1357    10040

ET                        9.1                                                9983.53   10052.25
X1     1.351      14     9980    10035      490      520      515
GR    1378.7     9785     1378     9800     1376     9810     1374     9830     1372     9855
GR      1372     9900   1374.3     9960     1372     9980     1370     9990     1368     9995
GR    1366.2    10000     1368    10015     1370    10035   1371.5    10055

ET                        9.1                                                9959.97   10015.01
X1     1.451       6     9955    10015      405      550      525
GR    1390.5     9955     1388     9980     1386     9990     1384    10000     1390    10015
GR      1392   10025
                          9.1                                                9959.07   10033.20
X1     1.545       8     9970    10025      500      450      500
GR      1410     9950     1408     9970     1406     9985   1405.3    10000     1406    10010
GR      1408   10025     1410    10040   1410.9    10060
1
   07NOV91     16:52:09                                                                  PAGE    4
```

```
QT        2       1163       1163
                              9.1                                                                  9959.75    10014.61

          Q AT X1 = 1.640 EQUALS Q AT SUB14
          Q = 1163 CFS

X1     1.640         8       9950      10020        500        470        500
GR    1427.5      9950       1426       9970       1424       9985       1422      10000       1424      10010
GR      1430     10020     1432.4      10045       1431      10090

ET                            9.1                                                                  9974.18    10022.91
X1     1.736        12       9980      10020        530        450        505
GR      1452      9870       1454       9915       1452       9935       1450       9950       1440       9980
GR      1438     10000       1440      10020       1450      10035       1452      10045       1454      10055
GR      1454     10105       1455      10145
1
   07NOV91      16:52:09                                                                                          PAGE    5

    SECNO      DEPTH      CWSEL      CRIWS      WSELK       EG         HV         HL      OLOSS    L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL       TWA    R-BANK ELEV
    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  .000

          CONFLUENCE WITH BEDROCK WASH - WASH "3"


          Q @ X1 = 0.000 TO X1 = 0.094 EQUALS Q AT CP15
          Q = 1920 CFS

     .000      3.02   1238.32       .00   1238.32   1238.57       .25       .00       .00   1238.00
   1920.0        .4    1919.3        .3        .8    481.7        .5        .0        .0   1238.00
     .00       .52      3.98       .52      .070      .045      .070      .000   1235.30   9785.20
  .006901       0.        0.        0.         0         0         0       .00    283.00  10068.20


*SECNO  .094

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .60

     .094      2.79   1243.49   1243.32       .00   1243.98       .49      5.34       .07   1246.60
   1920.0        .0    1920.0        .0        .0     341.1        .0       4.7       3.0   1244.00
     .02       .00      5.63       .00      .000      .045      .000      .000   1240.70   9941.23
  .019216      425.      495.      500.        15        15         0       .00    249.90  10191.13


SECNO  .147

3265 DIVIDED FLOW


          Q @ X1 = 0.147 TO X1 = 0.964 EQUALS (Q AT RCP14 + Q AT SUB15/2)
```

Q = 1041 + (1039/2) = 1560 CFS

.147	3.06	1247.86	.00	.00	1248.11	.24	4.10	.03	1248.00
1560.0	838.3	721.7	.0	242.1	162.8	.0	7.1	4.7	1248.00
.04	3.46	4.43	.00	.070	.045	.000	.000	1244.80	9774.05
.010741	290.	280.	270.	4	0	0	.00	254.88	10076.63

1

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

*SECNO .194

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

.194	1.95	1251.35	1251.29	.00	1251.93	.59	3.72	.10	1250.00
1560.0	84.5	1168.8	306.7	34.4	170.8	90.0	9.1	6.1	1250.20
.06	2.45	6.84	3.41	.070	.045	.070	.000	1249.40	9874.18
.022456	250.	250.	230.	5	14	0	.00	240.34	10114.52

*SECNO .230

WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

.230	2.82	1254.02	.00	.00	1254.22	.20	2.25	.04	1254.00
1560.0	734.3	819.6	6.1	260.1	195.7	5.2	10.7	7.2	1253.00
.07	2.82	4.19	1.17	.070	.045	.070	.000	1251.20	9799.08
.007470	190.	190.	165.	3	0	0	.00	276.17	10075.25

*SECNO .310

3301 HV CHANGED MORE THAN HVINS

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

.310	3.60	1262.60	1262.60	.00	1263.50	.90	5.33	.21	1263.00
1560.0	.0	1558.4	1.6	.0	204.6	1.1	14.0	9.1	1262.00
.09	.00	7.62	1.49	.000	.045	.070	.000	1259.00	9924.29
.024940	450.	420.	400.	20	11	0	.00	119.26	10043.54

*SECNO .400

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.45

.400	4.89	1270.39	1270.23	.00	1271.45	1.06	7.90	.05	1268.00
1560.0	42.2	1356.4	161.4	17.2	154.5	57.3	16.4	10.4	1268.00
.10	2.44	8.78	2.82	.070	.045	.070	.000	1265.50	9953.15
.011813	440.	475.	515.	9	11	0	.00	114.71	10067.86

1

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


*SECNO  .496
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .496      5.14   1279.14   1279.14       .00   1280.29      1.15      6.81       .03   1280.00
   1560.0        .0    1486.0      74.0        .0     168.7      40.7      18.9      11.7   1278.00
     .12       .00      8.81      1.82      .000      .045      .070      .000   1274.00   9977.15
  .015528      465.      510.      455.         3         8         0       .00    124.17  10101.32


*SECNO  .590
     .590      3.98   1286.78       .00       .00   1287.74       .96      7.43       .02   1286.00
   1560.0       4.1    1552.8       3.1       3.0     196.5       2.3      21.2      12.9   1286.00
     .14      1.36      7.90      1.36      .070      .045      .070      .000   1282.80   9952.21
  .014559      450.      495.      480.         4         0         0       .00     83.64  10035.84


CCHV=     .300 CEHV=     .500
*SECNO  .684

3301 HV CHANGED MORE THAN HVINS

5 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .684      4.74   1295.24   1295.24       .00   1296.73      1.50      6.83       .27   1296.00
   1560.0        .0    1560.0        .0        .0     159.0        .0      23.3      13.7   1296.00
     .15       .00      9.81       .00      .000      .035      .000      .000   1290.50   9976.91
  .013098      485.      495.      485.         4        11         0       .00     54.28  10031.19


*SECNO  .777
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .777      4.92   1304.72   1304.72       .00   1305.89      1.17      6.44       .10   1304.00
   1560.0       8.1    1551.9        .0       6.5     178.2        .0      25.2      14.5   1304.80
     .17      1.24      8.71       .00      .070      .035      .000      .000   1299.80   9956.95
  .013189      515.      490.      445.        10         8         0       .00     92.08  10049.03


*SECNO  .870
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .870      4.80   1313.50   1313.50       .00   1314.61      1.11      5.42       .02   1312.00
   1560.0      52.5    1478.8      28.6      31.1     170.7      16.9      27.5      15.7   1312.00
     .18      1.69      8.66      1.69      .070      .035      .070      .000   1308.70   9933.66
  .009289      460.      495.      430.         3         6         0       .00    118.89  10052.55
```



```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
```

```
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


V=     .100 CEHV=     .300
SECNO  .964
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .964      3.88   1323.08   1323.08       .00   1324.22      1.13      6.45       .01   1322.00
   1560.0       5.8    1422.7     131.5       2.9     160.1      38.1      29.8      16.9   1322.00
      .20      1.96      8.89      3.45      .070      .045      .070      .000   1319.20   9969.58
  .019694      480.      495.      475.        14        15         0       .00     97.25  10066.83


*SECNO 1.063

          Q AT X1 = 1.063 TO X1 = 1.545 EQUALS (Q AT X1=.964 + Q AT SUB14)/2
          Q = (1560 + 1163)/2 = 1362 CFS

    1.063      4.88   1332.08       .00       .00   1333.11      1.03      8.88       .01   1334.00
   1362.0        .0    1362.0        .0        .0     167.0        .0      32.1      17.8   1334.00
      .22       .00      8.15       .00      .000      .045      .000      .000   1327.20   9969.64
  .014408      485.      525.      520.         4         0         0       .00     55.55  10025.18


*SECNO 1.158
    1.158      4.59   1340.59   1340.57       .00   1341.92      1.33      8.72       .09   1340.00
   1362.0       1.1    1359.2       1.7        .8     146.8       1.3      33.9      18.5   1340.00
      .23      1.35      9.26      1.36      .070      .045      .070      .000   1336.00   9967.11
  .021537      500.      500.      490.         2        11         0       .00     62.24  10029.34


*SECNO 1.254

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.254      2.58   1356.88   1356.88       .00   1357.67       .78     11.63       .05   1356.00
   1362.0       9.4    1352.6        .0       4.9     189.8        .0      35.9      19.5   1357.00
      .25      1.93      7.13       .00      .070      .045      .000      .000   1354.30   9908.97
  .024687      450.      505.      515.         9        11         0       .00    128.79  10037.76


*SECNO 1.351
1
   07NOV91      16:52:09                                                                          PAGE     9


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


1 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    1.351      5.09   1371.29   1371.29       .00   1372.58      1.29     11.39       .15   1372.00
   1362.0        .0    1337.0      25.0        .0     145.4      11.2      37.9      20.7   1370.00
```

.27	.00	9.20	2.24	.000	.045	.070	.000	1366.20	9983.53
.019942	490.	515.	520.	3	17	0	.00	68.71	10052.25

*SECNO 1.451
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.451	6.00	1390.00	1390.00	.00	1391.37	1.37	11.25	.02	1390.50
1362.0	.0	1362.0	.0	.0	145.1	.0	39.8	21.5	1390.00
.28	.00	9.38	.00	.000	.045	.000	.000	1384.00	9959.97
.023047	405.	525.	550.	16	11	0	.00	55.04	10015.01

*SECNO 1.545
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.545	3.79	1409.09	1409.09	.00	1410.34	1.24	10.69	.01	1408.00
1362.0	11.9	1341.2	8.9	6.0	148.8	4.5	41.5	22.2	1408.00
.30	1.99	9.01	1.99	.070	.045	.070	.000	1405.30	9959.07
.019888	500.	500.	450.	11	14	0	.00	74.12	10033.20

*SECNO 1.640
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

Q AT X1 = 1.640 EQUALS Q AT SUB14
Q = 1163 CFS

1.640	4.77	1426.77	1426.77	.00	1427.99	1.22	10.68	.00	1427.50
1163.0	.0	1163.0	.0	.0	131.1	.0	43.2	22.9	1430.00
.31	.00	8.87	.00	.000	.045	.000	.000	1422.00	9959.75
.023304	500.	500.	470.	15	11	0	.00	54.86	10014.61

1

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

*SECNO 1.736
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.736	3.96	1441.96	1441.96	.00	1443.37	1.41	10.92	.06	1440.00
1163.0	16.5	1138.9	7.6	5.8	118.3	2.9	44.7	23.5	1440.00
.33	2.87	9.62	2.63	.070	.045	.070	.000	1438.00	9974.13
.020135	530.	505.	450.	19	15	0	.00	48.81	10022.94

1
PROFILE FOR STREAM WASH "3A" - NORTH FORK B

PLOTTED POINTS (BY PRIORITY) E-ENERGY,W-WATER SURFACE,I-INVERT,C-CRITICAL W.S.,L-LEFT BANK,R-RIGHT BANK,M-LOWER END STA

ELEVATION	1235.	1285.	1335.	1385.	1435.	1485.	1535.	1585.	1635.	1685.
SECNO	CUMDIS									
.00	0.	IE	.	.	.	.	.	.	.	.
	50.	IE	.	.	.	.	.	.	.	.
	100.	IEM	.	.	.	.	.	.	.	.
	150.	IEM	.	.	.	.	.	.	.	.
	200.	IEM	.	.	.	.	.	.	.	.
	250.	CEM	.	.	.	.	.	.	.	.
	300.	CEL	.	.	.	.	.	.	.	.
	350.	CEL	.	.	.	.	.	.	.	.
	400.	CWE	.	.	.	.	.	.	.	.
	450.	CIE	.	.	.	.	.	.	.	.
.09	500.	.IE	.	.	.	.	.	.	.	.
	550.	CIE	.	.	.	.	.	.	.	.
	600.	CIE	.	.	.	.	.	.	.	.
	650.	C EM	.	.	.	.	.	.	.	.
	700.	C EM	.	.	.	.	.	.	.	.
	750.	C EL	.	.	.	.	.	.	.	.
.15	800.	C IE	.	.	.	.	.	.	.	.
	850.	C IE	.	.	.	.	.	.	.	.
	900.	C IE	.	.	.	.	.	.	.	.
	950.	C IE	.	.	.	.	.	.	.	.
	1000.	C E	.	.	.	.	.	.	.	.
.19	1050.	. E	.	.	.	.	.	.	.	.
	1100.	C E	.	.	.	.	.	.	.	.
	1150.	C WE	.	.	.	.	.	.	.	.
	1200.	C IE	.	.	.	.	.	.	.	.
.23	1250.	C IE	.	.	.	.	.	.	.	.
	1300.	C IE	.	.	.	.	.	.	.	.
	1350.	C E	.	.	.	.	.	.	.	.
	1400.	C EM	.	.	.	.	.	.	.	.
	1450.	C IE	.	.	.	.	.	.	.	.
	1500.	C IE	.	.	.	.	.	.	.	.
	1550.	C IE	.	.	.	.	.	.	.	.
	1600.	C IE	.	.	.	.	.	.	.	.
.31	1650.	. WE	.	.	.	.	.	.	.	.
	1700.	. IE	.	.	.	.	.	.	.	.
	1750.	. IE	.	.	.	.	.	.	.	.
	1800.	. IE	.	.	.	.	.	.	.	.
	1850.	. IE	.	.	.	.	.	.	.	.
	1900.	. IE	.	.	.	.	.	.	.	.
	1950.	. WE	.	.	.	.	.	.	.	.
	2000.	. IE	.	.	.	.	.	.	.	.
	2050.	. IE	.	.	.	.	.	.	.	.
	2100.	. IE	.	.	.	.	.	.	.	.
.40	2150.	. IE	.	.	.	.	.	.	.	.
	2200.	. IE	.	.	.	.	.	.	.	.
	2250.	. IWE	.	.	.	.	.	.	.	.
	2300.	. IE	.	.	.	.	.	.	.	.
	2350.	. IE	.	.	.	.	.	.	.	.
	2400.	. IE	.	.	.	.	.	.	.	.
	2450.	. IE	.	.	.	.	.	.	.	.
	2500.	. IE	.	.	.	.	.	.	.	.
	2550.	. IWE.	.	.	.	.	.	.	.	.
	2600.	. IE.	.	.	.	.	.	.	.	.
.50	2650.	. IE.	.	.	.	.	.	.	.	.
	2700.	C IE.	.	.	.	.	.	.	.	.
	2750.	C IE.	.	.	.	.	.	.	.	.
	2800.	C IEM	.	.	.	.	.	.	.	.
	2850.	C IWE	.	.	.	.	.	.	.	.

	2900.	C	IE	.	.	.	.	.	.	.	.	.
	2950.	C	IE	.	.	.	.	.	.	.	.	.
	3000.	C	IEM	.	.	.	.	.	.	.	.	.
	3050.	C	IEM	.	.	.	.	.	.	.	.	.
	3100.	C	IEM	.	.	.	.	.	.	.	.	.
.59	3150.	C	EM	.	.	.	.	.	.	.	.	.
	3200.	C	WE	.	.	.	.	.	.	.	.	.
	3250.	C	IEM	.	.	.	.	.	.	.	.	.
	3300.	C	IEM	.	.	.	.	.	.	.	.	.
	3350.	C	IEM	.	.	.	.	.	.	.	.	.
	3400.	C	IEM	.	.	.	.	.	.	.	.	.
	3450.	C	IWE	.	.	.	.	.	.	.	.	.
	3500.	C	.WE	.	.	.	.	.	.	.	.	.
	3550.	C	.IE	.	.	.	.	.	.	.	.	.
	3600.	C	.IE	.	.	.	.	.	.	.	.	.
.68	3650.	.	.IEM	.	.	.	.	.	.	.	.	.
	3700.	.	.IEM	.	.	.	.	.	.	.	.	.
	3750.	.	.IWE	.	.	.	.	.	.	.	.	.
	3800.	.	. IE	.	.	.	.	.	.	.	.	.
	3850.	.	. IE	.	.	.	.	.	.	.	.	.
	3900.	.	. IE	.	.	.	.	.	.	.	.	.
	3950.	.	. IE	.	.	.	.	.	.	.	.	.
	4000.	.	. IWE	.	.	.	.	.	.	.	.	.
	4050.	.	. IE	.	.	.	.	.	.	.	.	.
.78	4100.	.	. IE	.	.	.	.	.	.	.	.	.
	4150.	.	. IE	.	.	.	.	.	.	.	.	.
	4200.	.	. IE	.	.	.	.	.	.	.	.	.
	4250.	.	. IWE	.	.	.	.	.	.	.	.	.
	4300.	.	. IE	.	.	.	.	.	.	.	.	.
	4350.	.	. IE	.	.	.	.	.	.	.	.	.
	4400.	.	. IE	.	.	.	.	.	.	.	.	.
	4450.	.	. IE	.	.	.	.	.	.	.	.	.
	4500.	.	. IWE	.	.	.	.	.	.	.	.	.
	4550.	.	. WE	.	.	.	.	.	.	.	.	.
.87	4600.	.	. IE	.	.	.	.	.	.	.	.	.
	4650.	.	. IE	.	.	.	.	.	.	.	.	.
	4700.	.	. IE	.	.	.	.	.	.	.	.	.
	4750.	.	. IE	.	.	.	.	.	.	.	.	.
	4800.	.	. WE	.	.	.	.	.	.	.	.	.
	4850.	.	. IE	.	.	.	.	.	.	.	.	.
	4900.	.	. IE	.	.	.	.	.	.	.	.	.
	4950.	.	. IE	.	.	.	.	.	.	.	.	.
	5000.	.	. IE	.	.	.	.	.	.	.	.	.
	5050.	.	. WE	.	.	.	.	.	.	.	.	.
.96	5100.	.	. IE	.	.	.	.	.	.	.	.	.
	5150.	C	. IE	.	.	.	.	.	.	.	.	.
	5200.	C	. IE	.	.	.	.	.	.	.	.	.
	5250.	C	. IE	.	.	.	.	.	.	.	.	.
	5300.	C	. IEM.	.	.	.	.	.	.	.	.	.
	5350.	C	. WE.	.	.	.	.	.	.	.	.	.
	5400.	C	. IE.	.	.	.	.	.	.	.	.	.
	5450.	C	. IE.	.	.	.	.	.	.	.	.	.
	5500.	C	. IE.	.	.	.	.	.	.	.	.	.
	5550.	C	. IE.	.	.	.	.	.	.	.	.	.
	5600.	C	. IEL	.	.	.	.	.	.	.	.	.
1.06	5650.	C	. IWE	.	.	.	.	.	.	.	.	.
	5700.	C	. IE	.	.	.	.	.	.	.	.	.
	5750.	C	. IE	.	.	.	.	.	.	.	.	.
	5800.	C	. IEM	.	.	.	.	.	.	.	.	.
	5850.	C	. IEM	.	.	.	.	.	.	.	.	.
	5900.	C	. IEM	.	.	.	.	.	.	.	.	.
	5950.	C	. IWE	.	.	.	.	.	.	.	.	.

```
      6000.  C     .     IEM    .     .     .     .     .     .     .     .
      6050.  C     .     IEM    .     .     .     .     .     .     .     .
      6100.  C     .     IEM    .     .     .     .     .     .     .     .
1.16  6150.  .     .     IEM    .     .     .     .     .     .     .     .
      6200.  .     .     .WE    .     .     .     .     .     .     .     .
      6250.  .     .     .IEM   .     .     .     .     .     .     .     .
      6300.  .     .     .IEM   .     .     .     .     .     .     .     .
      6350.  .     .     . WE   .     .     .     .     .     .     .     .
      6400.  .     .     . IE   .     .     .     .     .     .     .     .
      6450.  .     .     . IEM  .     .     .     .     .     .     .     .
      6500.  .     .     .  WE  .     .     .     .     .     .     .     .
      6550.  .     .     .  IE  .     .     .     .     .     .     .     .
      6600.  .     .     .  IE  .     .     .     .     .     .     .     .
1.25  6650.  .     .     .   E  .     .     .     .     .     .     .     .
      6700.  .     .     .   IE .     .     .     .     .     .     .     .
      6750.  .     .     .   IE .     .     .     .     .     .     .     .
      6800.  .     .     .   IE .     .     .     .     .     .     .     .
      6850.  .     .     .    WE .     .     .     .     .     .     .     .
      6900.  .     .     .    IE .     .     .     .     .     .     .     .
      6950.  .     .     .    IE .     .     .     .     .     .     .     .
      7000.  .     .     .    IWE .     .     .     .     .     .     .     .
      7050.  .     .     .     IE .     .     .     .     .     .     .     .
      7100.  .     .     .     IE .     .     .     .     .     .     .     .
1.35  7150.  .     .     .     IE .     .     .     .     .     .     .     .
      7200.  .     .     .      IE .     .     .     .     .     .     .     .
      7250.  .     .     .      IE .     .     .     .     .     .     .     .
      7300.  .     .     .      IWE.     .     .     .     .     .     .     .
      7350.  .     .     .       IE.     .     .     .     .     .     .     .
      7400.  .     .     .       IE.     .     .     .     .     .     .     .
      7450.  .     .     .       IWE     .     .     .     .     .     .     .
      7500.  .     .     .        IE     .     .     .     .     .     .     .
      7550.  .     .     .        IE     .     .     .     .     .     .     .
      7600.  .     .     .        IWE    .     .     .     .     .     .     .
      7650.  .     .     .         IE    .     .     .     .     .     .     .
1.45  7700.  .     .     .         IE    .     .     .     .     .     .     .
      7750.  .     .     .         IWE   .     .     .     .     .     .     .
      7800.  .     .     .         .IE   .     .     .     .     .     .     .
      7850.  .     .     .         .IE   .     .     .     .     .     .     .
      7900.  .     .     .         .IWE  .     .     .     .     .     .     .
      7950.  .     .     .         . IE  .     .     .     .     .     .     .
      8000.  .     .     .         . IE  .     .     .     .     .     .     .
      8050.  .     .     .         .  IE .     .     .     .     .     .     .
      8100.  .     .     .         .  IE .     .     .     .     .     .     .
      8150.  .     .     .         .   WE .     .     .     .     .     .     .
1.54  8200.  .     .     .         .   IE .     .     .     .     .     .     .
      8250.  .     .     .         .   IE .     .     .     .     .     .     .
      8300.  .     .     .         .    WE .     .     .     .     .     .     .
      8350.  .     .     .         .    IE .     .     .     .     .     .     .
      8400.  .     .     .         .    IE .     .     .     .     .     .     .
      8450.  .     .     .         .     IE .     .     .     .     .     .     .
      8500.  .     .     .         .     IE .     .     .     .     .     .     .
      8550.  .     .     .         .     IER .     .     .     .     .     .     .
      8600.  .     .     .         .      IE .     .     .     .     .     .     .
      8650.  .     .     .         .      IE .     .     .     .     .     .     .
1.64  8700.  .     .     .         .      IWE.     .     .     .     .     .     .
      8750.  .     .     .         .       IE.     .     .     .     .     .     .
      8800.  .     .     .         .       IE.     .     .     .     .     .     .
      8850.  .     .     .         .       IER     .     .     .     .     .     .
      8900.  .     .     .         .        WE     .     .     .     .     .     .
      8950.  .     .     .         .        IEM    .     .     .     .     .     .
      9000.  .     .     .         .        IEM    .     .     .     .     .     .
      9050.  .     .     .         .         WEM   .     .     .     .     .     .
```

```
          9100.  .        .        .        .        IEM      .        .        .        .        .        .
          9150.  .        .        .        .        IE M     .        .        .        .        .        .
     1.74 9200.  .        .        .        .        .WEM     .        .        .        .        .        .
1
07NOV91      16:52:09                                                                                    PAGE   11


T1      WHITE TANKS / AGUA FRIA AREA DRAINAGE MASTER STUDY
T2      100 - YEAR STORM EVENT     FLOODWAY RUN       FILE:  3A.H2I
T3      WASH "3A" - NORTH FORK BEDROCK WASH - TRIBUTARY TO WASH "3"

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

      0        3        0        0        0        0        0        0     1238.32     0

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     15        0       -1        0        0        0        0        0        0        0




1
   07NOV91      16:52:09                                                                                    PAGE   12


    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    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  .000

 3470 ENCROACHMENT STATIONS=     9785.3   10068.0  TYPE=      1  TARGET=      282.650

          CONFLUENCE WITH BEDROCK WASH - WASH "3"


          Q @ X1 = 0.000 TO X1 = 0.094 EQUALS Q AT CP15
          Q = 1920 CFS

      .000      3.02   1238.32       .00   1238.32   1238.57       .25       .00       .00   1238.00
    1920.0        .4   1919.3        .3        .8     481.7        .5        .0        .0   1238.00
      .00       .53      3.98       .54      .070      .045      .070      .000   1235.30   9785.35
   .006901       0.        0.        0.         0         0         0       .00    282.65  10068.00


 *SECNO  .094

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .60


 3470 ENCROACHMENT STATIONS=     9941.1   10191.2  TYPE=      1  TARGET=      250.100
      .094      2.79   1243.49   1243.32   1243.49   1243.98       .49      5.34       .07 100000.00
    1920.0        .0   1920.0        .0        .0     341.3        .0       4.7       3.0 100000.00
      .02       .00      5.63       .00      .000      .045      .000      .000   1240.70   9941.22
   .019188      425.      495.      500.        15        15         0       .00    249.91  10191.14
```

*SECNO .147

5 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9900.0 10076.4 TYPE= 1 TARGET= 176.370

Q @ X1 = 0.147 TO X1 = 0.964 EQUALS (Q AT RCP14 + Q AT SUB15/2)
Q = 1041 + (1039/2) = 1560 CFS

.147	3.59	1248.39	.00	1247.86	1249.04	.66	5.01	.05	1248.00
1560.0	89.3	1470.7	.0	30.3	220.8	.0	6.6	4.3	100000.00
.04	2.94	6.66	.00	.070	.045	.000	.000	1244.80	9900.00
.016465	290.	280.	270.	3	0	0	.00	144.76	10076.37

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

*SECNO .194

0 ENCROACHMENT STATIONS= 9873.9 10114.8 TYPE= 1 TARGET= 240.930

.194	2.37	1251.77	.00	1251.35	1252.09	.32	3.02	.03	1250.00
1560.0	120.3	1102.4	337.3	55.7	214.4	125.2	8.4	5.4	1250.20
.05	2.16	5.14	2.70	.070	.045	.070	.000	1249.40	9873.88
.009363	250.	250.	230.	4	0	0	.00	240.93	10114.81

*SECNO .230

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 9825.0 10075.2 TYPE= 1 TARGET= 250.200

.230	2.58	1253.78	.00	1254.02	1254.06	.28	1.96	.00	1254.00
1560.0	730.9	825.4	3.8	210.9	169.6	3.1	10.1	6.4	1253.00
.06	3.47	4.87	1.23	.070	.045	.070	.000	1251.20	9825.00
.011823	190.	190.	165.	2	0	0	.00	240.29	10072.84

*SECNO .310

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0 ENCROACHMENT STATIONS= 9924.3 10043.5 TYPE= 1 TARGET= 119.260

.310	3.59	1262.59	1262.59	1262.60	1263.50	.91	7.12	.19	100000.00
1560.0	.0	1558.5	1.5	.0	203.7	1.0	13.0	8.2	1262.00
.08	.00	7.65	1.49	.000	.045	.070	.000	1259.00	9924.47
.025269	450.	420.	400.	13	14	0	.00	119.02	10043.49

*SECNO .400

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

3470 ENCROACHMENT STATIONS= 9953.2 10067.9 TYPE= 1 TARGET= 114.690

.400	4.90	1270.40	1270.25	1270.39	1271.45	1.05	7.91	.04	1268.00
1560.0	42.5	1355.3	162.2	17.4	154.8	57.6	15.4	9.5	1268.00
.10	2.44	8.76	2.82	.070	.045	.070	.000	1265.50	9953.17
.011720	440.	475.	515.	9	11	0	.00	114.69	10067.86

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

*SECNO .496
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9977.2 10101.3 TYPE= 1 TARGET= 124.159

.496	5.21	1279.21	1279.21	1279.14	1280.29	1.08	6.52	.01	100000.00
1560.0	.0	1474.6	85.4	.0	172.2	45.4	17.9	10.8	1278.00
.11	.00	8.56	1.88	.000	.045	.070	.000	1274.00	9977.15
.014297	465.	510.	455.	3	8	0	.00	124.16	10101.31

*SECNO .590

3470 ENCROACHMENT STATIONS= 9952.2 10035.8 TYPE= 1 TARGET= 83.630

.590	3.91	1286.71	.00	1286.78	1287.72	1.02	7.43	.01	1286.00
1560.0	3.4	1554.1	2.5	2.5	191.8	1.9	20.3	11.9	1286.00
.13	1.34	8.10	1.33	.070	.045	.070	.000	1282.80	9952.88
.015806	450.	495.	480.	4	0	0	.00	82.46	10035.34

CCHV= .300 CEHV= .500
*SECNO .684
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9976.9 10031.2 TYPE= 1 TARGET= 54.280

.684	4.73	1295.23	1295.23	1295.24	1296.73	1.50	7.13	.24	100000.00
1560.0	.0	1560.0	.0	.0	158.6	.0	22.3	12.7	100000.00
.14	.00	9.84	.00	.000	.035	.000	.000	1290.50	9976.92
.013186	485.	495.	485.	4	11	0	.00	54.23	10031.15

*SECNO .777
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9957.0 10049.0 TYPE= 1 TARGET= 92.080

.777	4.93	1304.73	1304.73	1304.72	1305.89	1.17	6.45	.10	1304.00
1560.0	8.2	1551.8	.0	6.6	178.4	.0	24.2	13.5	100000.00

```
      .16      1.24      8.70       .00      .070      .035      .000      .000   1299.80   9956.95
   .013133     515.      490.      445.        10         8         0       .00     92.08  10049.03
```



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

*SECNO  .870
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9933.7   10052.5  TYPE=      1  TARGET=      118.890
      .870      4.75   1313.45   1313.45   1313.50   1314.61      1.16      5.60       .00   1312.00
    1560.0      49.4    1483.7      26.9      29.0     167.8      15.8      26.4      14.7   1312.00
      .18      1.70      8.84      1.70      .070      .035      .070      .000   1308.70   9935.08
   .009888      460.      495.      430.         4         8         0       .00    116.69  10051.77

CCHV=     .100 CEHV=     .300
*SECNO  .964
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9969.6   10066.8  TYPE=      1  TARGET=       97.250
      .964      3.91   1323.11   1323.11   1323.08   1324.22      1.11      6.59       .00   1322.00
    1560.0       6.1    1420.3     133.7       3.1     161.6      39.0      28.8      15.9   1322.00
      .19      1.98      8.79      3.43      .070      .045      .070      .000   1319.20   9969.58
   .019007      480.      495.      475.        13        15         0       .00     97.25  10066.83

*SECNO 1.063

3470 ENCROACHMENT STATIONS=     9969.6   10025.2  TYPE=      1  TARGET=       55.540

          Q AT X1 = 1.063 TO X1 = 1.545 EQUALS (Q AT X1=.964 + Q AT SUB14)/2
          Q = (1560 + 1163)/2 = 1362 CFS

    1.063      4.83   1332.03       .00   1332.08   1333.09      1.06      8.87       .00 100000.00
    1362.0        .0    1362.0        .0        .0     165.0        .0      31.0      16.8 100000.00
      .21       .00      8.25       .00      .000      .045      .000      .000   1327.20   9969.81
   .014896      485.      525.      520.         4         0         0       .00     55.28  10025.09

*SECNO 1.158

3470 ENCROACHMENT STATIONS=     9967.1   10029.3  TYPE=      1  TARGET=       62.229
    1.158      4.61   1340.61   1340.58   1340.59   1341.91      1.30      8.74       .07   1340.00
    1362.0       1.3    1358.8       1.9        .9     148.3       1.4      32.8      17.5   1340.00
      .23      1.40      9.16      1.41      .070      .045      .070      .000   1336.00   9967.11
   .020803      500.      500.      490.         5        11         0       .00     62.23  10029.34
```

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

*SECNO 1.254

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9909.0 10037.8 TYPE= 1 TARGET= 128.790

1.254	2.58	1356.88	1356.88	1356.88	1357.67	.78	11.42	.05	1356.00
1362.0	9.4	1352.6	.0	4.9	189.8	.0	34.8	18.6	100000.00
.25	1.93	7.13	.00	.070	.045	.000	.000	1354.30	9908.97
.024675	450.	505.	515.	9	11	0	.00	128.79	10037.76

*SECNO 1.351
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9983.5 10052.3 TYPE= 1 TARGET= 68.720

1.351	5.11	1371.31	1371.31	1371.29	1372.58	1.27	11.25	.15	100000.00
1362.0	.0	1336.1	25.9	.0	146.4	11.5	36.9	19.7	1370.00
.26	.00	9.13	2.25	.000	.045	.070	.000	1366.20	9983.53
.019479	490.	515.	520.	3	17	0	.00	68.72	10052.25

*SECNO 1.451
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9960.0 10015.0 TYPE= 1 TARGET= 55.040

1.451	5.99	1389.99	1389.99	1390.00	1391.37	1.38	11.19	.03	100000.00
1362.0	.0	1362.0	.0	.0	144.3	.0	38.7	20.5	1390.00
.28	.00	9.44	.00	.000	.045	.000	.000	1384.00	9960.13
.023399	405.	525.	550.	17	11	0	.00	54.84	10014.97

*SECNO 1.545
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9959.1 10033.2 TYPE= 1 TARGET= 74.130

1.545	3.82	1409.12	1409.12	1409.09	1410.33	1.22	10.58	.02	1408.00
1362.0	12.6	1339.9	9.4	6.3	150.3	4.7	40.5	21.2	1408.00
.29	2.02	8.92	2.01	.070	.045	.070	.000	1405.30	9959.07
.019231	500.	500.	450.	11	14	0	.00	74.13	10033.20

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

*SECNO 1.640
7185 MINIMUM SPECIFIC ENERGY
0 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9959.8 10014.6 TYPE= 1 TARGET= 54.860

Q AT X1 = 1.640 EQUALS Q AT SUB14
Q = 1163 CFS

1.640	4.76	1426.76	1426.76	1426.77	1427.99	1.24	10.54	.01	100000.00
1163.0	.0	1163.0	.0	.0	130.3	.0	42.1	22.0	100000.00
.31	.00	8.92	.00	.000	.045	.000	.000	1422.00	9959.93
.023620	500.	500.	470.	15	11	0	.00	54.66	10014.59

*SECNO 1.736
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9974.2 10022.9 TYPE= 1 TARGET= 48.730

1.736	3.97	1441.97	1441.97	1441.96	1443.37	1.40	10.90	.05	1440.00
1163.0	16.8	1138.5	7.7	5.8	118.9	2.9	43.6	22.5	1440.00
.32	2.88	9.58	2.63	.070	.045	.070	.000	1438.00	9974.18
.019816	530.	505.	450.	17	15	0	.00	48.73	10022.91

THIS RUN EXECUTED 07NOV91 16:52:31

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

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

WASH "3A" - NORTH FORK B

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
	.000	1920.00	1238.32	9785.20	9790.00	10065.00	10068.20	.00	283.00	3.02	1235.30	69.01	3.98
	.000	1920.00	1238.32	9785.35	9790.00	10065.00	10068.00	.00	282.65	3.02	1235.30	69.01	3.98
	.094	1920.00	1243.49	9941.23	9905.00	10195.00	10191.13	5.17	249.90	2.79	1240.70	192.16	5.63
	.094	1920.00	1243.49	9941.22	9905.00	10195.00	10191.14	5.17	249.91	2.79	1240.70	191.88	5.63
	.147	1560.00	1247.86	9774.05	9965.00	10080.00	10076.63	4.37	254.88	3.06	1244.80	107.41	4.43
	.147	1560.00	1248.39	9900.00	9965.00	10080.00	10076.37	4.90	144.76	3.59	1244.80	164.65	6.66
*	.194	1560.00	1251.35	9874.18	9925.00	10030.00	10114.52	3.48	240.34	1.95	1249.40	224.56	6.84

	.194	1560.00	1251.77	9873.88	9925.00	10030.00	10114.81	3.39	240.93	2.37	1249.40	93.63	5.14
*	.230	1560.00	1254.02	9799.08	9955.00	10065.00	10075.25	2.68	276.17	2.82	1251.20	74.70	4.19
	.230	1560.00	1253.78	9825.00	9955.00	10065.00	10072.84	2.01	240.29	2.58	1251.20	118.23	4.87
	.310	1560.00	1262.60	9924.29	9915.00	10040.00	10043.54	8.58	119.26	3.60	1259.00	249.40	7.62
*	.310	1560.00	1262.59	9924.47	9915.00	10040.00	10043.49	8.81	119.02	3.59	1259.00	252.69	7.65
*	.400	1560.00	1270.39	9953.15	9980.00	10020.00	10067.86	7.79	114.71	4.89	1265.50	118.13	8.78
*	.400	1560.00	1270.40	9953.17	9980.00	10020.00	10067.86	7.81	114.69	4.90	1265.50	117.20	8.76
*	.496	1560.00	1279.14	9977.15	9975.00	10030.00	10101.32	8.75	124.17	5.14	1274.00	155.28	8.81
*	.496	1560.00	1279.21	9977.15	9975.00	10030.00	10101.31	8.81	124.16	5.21	1274.00	142.97	8.56
	.590	1560.00	1286.78	9952.21	9960.00	10030.00	10035.84	7.64	83.64	3.98	1282.80	145.59	7.90
	.590	1560.00	1286.71	9952.88	9960.00	10030.00	10035.34	7.50	82.46	3.91	1282.80	158.06	8.10
*	.684	1560.00	1295.24	9976.91	9975.00	10035.00	10031.19	8.46	54.28	4.74	1290.50	130.98	9.81
*	.684	1560.00	1295.23	9976.92	9975.00	10035.00	10031.15	8.52	54.23	4.73	1290.50	131.86	9.84
*	.777	1560.00	1304.72	9956.95	9975.00	10050.00	10049.03	9.48	92.08	4.92	1299.80	131.89	8.71
*	.777	1560.00	1304.73	9956.95	9975.00	10050.00	10049.03	9.49	92.08	4.93	1299.80	131.33	8.70

1

	SECNO	Q	CWSEL	SSTA	STCHL	STCHR	ENDST	DIFWSX	TOPWID	DEPTH	ELMIN	10*KS	VCH
*	.870	1560.00	1313.50	9933.66	9975.00	10030.00	10052.55	8.78	118.89	4.80	1308.70	92.89	8.66
	.870	1560.00	1313.45	9935.08	9975.00	10030.00	10051.77	8.73	116.69	4.75	1308.70	98.88	8.84
*	.964	1560.00	1323.08	9969.58	9975.00	10035.00	10066.83	9.58	97.25	3.88	1319.20	196.94	8.89
*	.964	1560.00	1323.11	9969.58	9975.00	10035.00	10066.83	9.66	97.25	3.91	1319.20	190.07	8.79
	1.063	1362.00	1332.08	9969.64	9960.00	10030.00	10025.18	8.99	55.55	4.88	1327.20	144.08	8.15
	1.063	1362.00	1332.03	9969.81	9960.00	10030.00	10025.09	8.92	55.28	4.83	1327.20	148.96	8.25
	1.158	1362.00	1340.59	9967.11	9970.00	10025.00	10029.34	8.51	62.24	4.59	1336.00	215.37	9.26
	1.158	1362.00	1340.61	9967.11	9970.00	10025.00	10029.34	8.57	62.23	4.61	1336.00	208.03	9.16
*	1.254	1362.00	1356.88	9908.97	9920.00	10040.00	10037.76	16.29	128.79	2.58	1354.30	246.87	7.13
*	1.254	1362.00	1356.88	9908.97	9920.00	10040.00	10037.76	16.28	128.79	2.58	1354.30	246.75	7.13
*	1.351	1362.00	1371.29	9983.53	9980.00	10035.00	10052.25	14.41	68.71	5.09	1366.20	199.42	9.20
*	1.351	1362.00	1371.31	9983.53	9980.00	10035.00	10052.25	14.43	68.72	5.11	1366.20	194.79	9.13
*	1.451	1362.00	1390.00	9959.97	9955.00	10015.00	10015.01	18.71	55.04	6.00	1384.00	230.47	9.38
*	1.451	1362.00	1389.99	9960.13	9955.00	10015.00	10014.97	18.67	54.84	5.99	1384.00	233.99	9.44
*	1.545	1362.00	1409.09	9959.07	9970.00	10025.00	10033.20	19.09	74.12	3.79	1405.30	198.88	9.01
*	1.545	1362.00	1409.12	9959.07	9970.00	10025.00	10033.20	19.13	74.13	3.82	1405.30	192.31	8.92
*	1.640	1163.00	1426.77	9959.75	9950.00	10020.00	10014.61	17.68	54.86	4.77	1422.00	233.04	8.87
*	1.640	1163.00	1426.76	9959.93	9950.00	10020.00	10014.59	17.64	54.66	4.76	1422.00	236.20	8.92
	1.736	1163.00	1441.96	9974.13	9980.00	10020.00	10022.94	15.19	48.81	3.96	1438.00	201.35	9.62
*	1.736	1163.00	1441.97	9974.18	9980.00	10020.00	10022.91	15.22	48.73	3.97	1438.00	198.16	9.58

1

WASH "3A" - NORTH FORK B

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.000	1238.32	.00	1238.57	283.00	.40	1919.34	.27	.00	.00	9790.00	10065.00	.00
	.000	1238.32	.00	1238.57	282.65	.41	1919.32	.27	282.65	9785.35	9790.00	10065.00	10068.00
*	.094	1243.49	.00	1243.98	249.90	.00	1920.00	.00	.00	.00	9905.00	10195.00	.00
*	.094	1243.49	.00	1243.98	249.91	.00	1920.00	.00	250.10	9941.11	9905.00	10195.00	10191.21
	.147	1247.86	.00	1248.11	254.88	838.34	721.66	.00	.00	.00	9965.00	10080.00	.00
	.147	1248.39	.52	1249.04	144.76	89.27	1470.73	.00	176.37	9900.00	9965.00	10080.00	10076.37
*	.194	1251.35	.00	1251.93	240.34	84.47	1168.78	306.75	.00	.00	9925.00	10030.00	.00
	.194	1251.77	.43	1252.09	240.93	120.32	1102.36	337.32	240.93	9873.88	9925.00	10030.00	10114.81
*	.230	1254.02	.00	1254.22	276.17	734.28	819.57	6.15	.00	.00	9955.00	10065.00	.00
	.230	1253.78	-.24	1254.06	240.29	730.85	825.36	3.79	250.20	9825.00	9955.00	10065.00	10075.20
*	.310	1262.60	.00	1263.50	119.26	.00	1558.41	1.59	.00	.00	9915.00	10040.00	.00
*	.310	1262.59	-.01	1263.50	119.02	.00	1558.45	1.54	119.26	9924.28	9915.00	10040.00	10043.54
*	.400	1270.39	.00	1271.45	114.71	42.15	1356.41	161.44	.00	.00	9980.00	10020.00	.00
*	.400	1270.40	.01	1271.45	114.69	42.49	1355.26	162.25	114.69	9953.17	9980.00	10020.00	10067.86
*	.496	1279.14	.00	1280.29	124.17	.00	1485.96	74.04	.00	.00	9975.00	10030.00	.00
	.496	1279.21	.07	1280.29	124.16	.00	1474.64	85.36	124.16	9977.15	9975.00	10030.00	10101.31
	.590	1286.78	.00	1287.74	83.64	4.13	1552.77	3.09	.00	.00	9960.00	10030.00	.00
	.590	1286.71	-.07	1287.72	82.46	3.39	1554.08	2.53	83.63	9952.21	9960.00	10030.00	10035.84
*	.684	1295.24	.00	1296.73	54.28	.00	1560.00	.00	.00	.00	9975.00	10035.00	.00
*	.684	1295.23	-.01	1296.73	54.23	.00	1560.00	.00	54.28	9976.91	9975.00	10035.00	10031.19
*	.777	1304.72	.00	1305.89	92.08	8.05	1551.94	.00	.00	.00	9975.00	10050.00	.00
*	.777	1304.73	.00	1305.89	92.08	8.15	1551.85	.00	92.08	9956.95	9975.00	10050.00	10049.03
*	.870	1313.50	.00	1314.61	118.89	52.53	1478.84	28.63	.00	.00	9975.00	10030.00	.00
*	.870	1313.45	-.05	1314.61	116.69	49.38	1483.72	26.91	118.89	9933.66	9975.00	10030.00	10052.55
*	.964	1323.08	.00	1324.22	97.25	5.75	1422.73	131.51	.00	.00	9975.00	10035.00	.00
*	.964	1323.11	.03	1324.22	97.25	6.09	1420.25	133.65	97.25	9969.58	9975.00	10035.00	10066.83
	1.063	1332.08	.00	1333.11	55.55	.00	1362.00	.00	.00	.00	9960.00	10030.00	.00
	1.063	1332.03	-.04	1333.09	55.28	.00	1362.00	.00	55.54	9969.64	9960.00	10030.00	10025.18
	1.158	1340.59	.00	1341.92	62.24	1.13	1359.17	1.70	.00	.00	9970.00	10025.00	.00
	1.158	1340.61	.02	1341.91	62.23	1.28	1358.78	1.94	62.23	9967.11	9970.00	10025.00	10029.34
*	1.254	1356.88	.00	1357.67	128.79	9.38	1352.61	.00	.00	.00	9920.00	10040.00	.00
*	1.254	1356.88	.00	1357.67	128.79	9.39	1352.61	.00	128.79	9908.97	9920.00	10040.00	10037.76

SECNO CWSEL DIFKWS EG TOPWID QLOB QCH QROB PERENC STENCL STCHL STCHR STENCR

*	1.351	1371.29	.00	1372.58	68.71	.00	1337.04	24.96	.00	.00	9980.00	10035.00	.00
*	1.351	1371.31	.02	1372.58	68.72	.00	1336.12	25.88	68.72	9983.53	9980.00	10035.00	10052.25
*	1.451	1390.00	.00	1391.37	55.04	.00	1362.00	.00	.00	.00	9955.00	10015.00	.00
	1.451	1389.99	-.02	1391.37	54.84	.00	1362.00	.00	55.04	9959.97	9955.00	10015.00	10015.01
*	1.545	1409.09	.00	1410.34	74.12	11.90	1341.19	8.91	.00	.00	9970.00	10025.00	.00
*	1.545	1409.12	.03	1410.33	74.13	12.62	1339.94	9.43	74.13	9959.07	9970.00	10025.00	10033.20
*	1.640	1426.77	.00	1427.99	54.86	.00	1163.00	.00	.00	.00	9950.00	10020.00	.00
*	1.640	1426.76	-.01	1427.99	54.66	.00	1163.00	.00	54.86	9959.75	9950.00	10020.00	10014.61
*	1.736	1441.96	.00	1443.37	48.81	16.50	1138.94	7.56	.00	.00	9980.00	10020.00	.00
*	1.736	1441.97	.01	1443.37	48.73	16.79	1138.54	7.67	48.73	9974.18	9980.00	10020.00	10022.91

1

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=      .094  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .094  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .194  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      .230  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .310  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .310  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .310  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .310  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .310  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .400  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .400  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .496  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .496  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .496  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .496  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .684  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .684  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .684  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .684  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .777  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .777  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .777  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .777  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .870  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .870  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .870  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .870  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      .964  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .964  PROFILE=  1  MINIMUM SPECIFIC ENERGY
```

```
CAUTION SECNO=      .964  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .964  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.254  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.254  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.254  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.254  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.351  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.351  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.351  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.351  PROFILE=  2  MINIMUM SPECIFIC ENERGY
1
   07NOV91      16:52:09                                                    PAGE   23


CAUTION SECNO=     1.451  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.451  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.451  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.451  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.545  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.545  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.545  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.545  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.640  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.640  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.640  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.640  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     1.736  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.736  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     1.736  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.736  PROFILE=  2  MINIMUM SPECIFIC ENERGY

1
   07NOV91      16:52:09                                                    PAGE   24


FLOODWAY DATA,   WASH "3A" - NORTH FORK B
PROFILE NO.  2
```

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.000	283.	483.	4.0	1238.3	1238.3	.0
.094	250.	341.	5.6	1243.5	1243.5	.0
.147	176.	251.	6.2	1248.4	1247.9	.5
.194	241.	395.	3.9	1251.7	1251.3	.4
.230	248.	383.	4.1	1253.8	1254.0	-.2
.310	119.	205.	7.6	1262.6	1262.6	.0
.400	115.	230.	6.8	1270.4	1270.4	.0
.496	124.	218.	7.2	1279.2	1279.1	.1
.590	82.	196.	7.9	1286.7	1286.8	-.1
.684	54.	159.	9.8	1295.2	1295.2	.0
.777	92.	185.	8.4	1304.7	1304.7	.0

.870	117.	213.	7.3	1313.4	1313.5	-.1
.964	97.	204.	7.7	1323.1	1323.1	.0
1.063	55.	165.	8.3	1332.1	1332.1	.0
1.158	62.	151.	9.0	1340.6	1340.6	.0
1.254	129.	195.	7.0	1356.9	1356.9	.0
1.351	69.	158.	8.6	1371.3	1371.3	.0
1.451	55.	144.	9.4	1390.0	1390.0	.0
1.545	74.	161.	8.4	1409.1	1409.1	.0
1.640	55.	130.	8.9	1426.8	1426.8	.0
1.736	49.	128.	9.1	1442.0	1442.0	.0