Projects (continued)

FCDMC

Subsidence Survey

July, 1991

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
16924
WILLIAM D. ZEISLER
Date Signed 8-13-91
ARIZONA, U.S.A.

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

BC. SCS 1. B = 1280.682
E = 1280.676

W/4 S8 AL.C. 2. B: 1252.274
E: 1252.281

2-9 3. B: 1209.550
E: 1209.550

3-11 4 B: 1211.935
E: 1211,936

A-1 BC 5 B: 1207,883
E: 1207.887

5-4 6 B: ~~1216~~ 1214.265
E: 1214.274

6-11 7. B: 1230.860
E: 1230.865

7-9 8 B: 1247.299
E: 1247.274

8-8 9 B: 1260.623
E: 1260.619

9-12 10 B: 1305.228
E: 1305.231

10-11 11 B: 1390.084
E: 1390.085

11-8 12 B: 1460.656
E: 1460.650

9-12 13 B: 1305.228
E: 1305.228

13-12 14 B: 1269.451
1269.456

14-7 15 B: 1252.700
E: 1252.695

	Loop	closure	−	+
July 1 :	1	0. ~~[illegible]~~ 0.006	$\boxed{26}$ 6	$\boxed{35}$ 7
	2	~~[illegible]~~ 0.007 +		
	3	~~0~~		
July 2/3	4	0.001 +		1
July 3	5	0.004 +		4
July 15	6	0.009 +		9 14
15	7	0.005 +		5 14
16	8	0.005 −	5	
16	9	0.004 −	4	
~~16/17~~	~~10~~	~~0.018~~		3
17	10	0.003 +		1
18	11	0.001 +	6	
18	12	0.006 −		
18	13	~~0~~		5
22	14	0.005 +		
22	15	0.005 −	5	
			27	35

July 1, 1991 100°
Clear, Hot

F.C.D.M.C.

91037

⊼ B.M
⊥ P.B
~~B.H~~

①

	B.S.	H.I	F.S.	Elev.	Desc.
				1280.682	Dep.t of Agri. Brass Cap 8-90
	3.665				
	3.045	1283.727			
	2.425				
			8.030		
			(7.177) 7.180	1276.550	1-1
			6.320		
	7.802				
	7.051	1283.601			
	6.302				
			2.130		
			(1.383) 1.382	1282.218	1-2
	9.310		0.638		
	~~9.309~~				
8.545	~~8.547~~	1290.763			
7.780	~~7.771~~				
			1.761		~~1-3 Rock~~
			1.031	1289.732	1-3 Rock
			0.301		

July 1, 1991

(2)

B.S.	H.I	F.S	Elev.	Desc.
			1289.732	1-3
3.671				
3.311	1293.043			
2.951				
		10.020		
		9.795	1283.248	1-4
		9.570		
0.602				
0.392	1283.640			
0.182				
		11.743		
		11.443	1272.197	1-5
		11.143		
1.092				
(0.714)	1292.911			
0.712	~~1292.81~~			
0.338				
		11.790		
		10.865	1262.046 ~~1261.946~~	1-6
		9.940		
3.888				
(3.131)	1265.183			
3.138	~~1265.083~~			
2.386				

July 1, 1991

(3)

B.S.	H.I	F.S.	Elev	Desc.
	1265.183 ~~1265.803~~			
		7.899		
		7.139	1258.044 ~~1258.664~~	1-7
		6.380		
3.465				
(2.703)	1260.747			
2.702	~~1261.366~~			
1.941				
		7.700		
		6.945	1253.802 ~~1254.421~~	1-8
		6.190		
10.221				
(9.657)	1263.459			
9.659	~~1264.078~~			
9.090				
		3.162		
		(3.077)	1260.382	
		3.078	~~1261.001~~	1-9
		2.992		
7.770				
7.490	1267.872 ~~1268.491~~			
7.210				

July 1, 1991

(4)

B.S.	H.I.	F.S.	Elev.	Desc.
	1267.872 ~~1268.491~~			
		16.115 (15.598) 15.600 15.080	1252.274 ~~1251.893~~	W. ¼ Cor. Sec. 8 Alum. Cap.
			1252.274 ~~1252.893~~	W. ¼ Cor. Sec. 3
16.261 (15.718) 15.719 15.174	1267.992 ~~1268.611~~			
		7.874 (7.613) 7.614 7.350	1260.379 ~~1260.998~~	1-9
3.088 (2.997) 2.998 2.904	1263.376 ~~1263.995~~			
		10.132 (9.577) 9.578 9.020	1253.799 ~~1254.418~~	1-8
7.492 6.751 6.010	1260.550 ~~1261.169~~			

July 1, 1991

(5)

B.S.	H.I.	F.S.	Elev.	Desc.
	1260.550 ~~1261.169~~			
		3.288 (2.513) 2.512 1.740	1258.037 ~~1258.656~~	1-7
8.024 7.258 6.490	1265.295 ~~1265.914~~			
		3.999 (3.253) 3.251 2.510	1262.042 ~~1262.661~~	1-6
11.476 (10.564) 10.565 9.650	1272.606 ~~1273.225~~			
		0.810 (0.416) 0.415 0.022	1272.190 ~~1272.809~~	1-5
12.805 12.468 12.130	1284.658 ~~1285.277~~			

July 1, 1991

(10)

B.S.	H.I.	F.S.	Elev.	Desc.
	1284.658 ~~1285.277~~			
		1.600		
		1.419	1283.239 ~~1283.858~~	1-4
		1.238		
10.830				
10.540	1293.779 ~~1294.398~~			
10.250				
		4.398		
		4.058	1289.721 ~~1290.340~~	1-3
		3.718		
1.610	1291.586			
0.865	~~1291.205~~			
0.120				
		9.120		
		(0.377) 8.378	1282.209 ~~1282.828~~	1-2
		7.632		
2.200	1283.659			
(1.450) 1.448	~~1284.278~~			
0.701				
		7.864		
		7.116	1276.543 ~~1277.162~~	1-1
		6.368		

July 1, 1991

(7)

B.S.	H.I.	F.S.	Elev.	Desc.
			1276.543 ~~1277.162~~	1-1
7.930				
7.075	1283.618 ~~1284.237~~			
6.221				
		3.561 (2.942)	1280.676	Out of Adj. Brass Cap
		2.943	~~1281.295~~	
		2.322		

Closed - 0.006

(8) July 1, 1991

B.S.	H.I.	F.S.	Elev.	Desc.
			1252.274	[illegible]
6.102				
5.357	1257.631		~~12~~	
4.609				
		9.070		
		8.333	1249.298	2-1
		7.600		
4.458				
3.704	1253.002			
2.951				
		8.716		
		7.972	1245.030	2-2
		7.230		
2.370				
1.622	1246.652			
0.881				
		8.550		
		7.802	*1238.850 ~~1238.550~~	2-3
		7.051		

July 1, 1991 (9)

B.S.	H.I.	F.S.	Elev.	Desc.
			1238.850 ~~1238.550~~	~~9-3~~ ~~2-3~~
4.130				
3.380	1242.230 ~~1241.93~~			
2.630				
		8.863		
		8.117	1234.113 ~~1237.813~~	~~2-4~~ ~~9-4~~
		7.368		
1.270				
0.990	1235.103 ~~0.910~~ ~~1232.823~~			
0.710				
		10.879		
		10.058	1225.045 ~~1227.765~~	~~2-5~~ ~~9-5~~
		9.240		
4.662				
3.912	1228.957 ~~1226.677~~			
3.162				
		9.070		
		8.322	1220.635 ~~1218.355~~	~~2-6~~ ~~9-6~~
		7.578		
5.710				
4.958	1225.593 ~~1223.313~~			
4.202				

July 1, 1991

(10)

B.S.	H.I.	F.S.	Elev.	Desc.
	1225.593 ~~1223.313~~			
		9.400		
			1216.933	
		8.650	~~1214.653~~	2-7
		7.915		
2.740				
1.990	~~1216.643~~ ~~1212.603~~			
1.248	1218.423			
		5.590		
		4.850	~~1214.793~~ ~~1207.853~~	2-8
			1214.073	
		4.100		
3.508				
2.762	~~1214.555~~ ~~1210.575~~			
2.012	1216.835			
		8.030		
			~~1207.270~~	
		7.285	~~1203.290~~	2-9
			1209.550	
		6.540		
7.912	~~1214.432~~			
7.162	~~1210.152~~			
6.410	1216.712			

July 1, 1991

(11)

B.S.	H.I.	F.S.	Elev.	Desc.
	~~1214.432~~ ~~1216.452~~ 1216.712			
		3.380		
			~~1211.702~~	
		2.640	~~1207.812~~	2-8
		1.895	1214.072	
5.690				
4.950	~~1216.742~~ ~~1212.762~~			
4.200	1219.022			
		2.840		
			~~1214.652~~	
		2.090	~~1210.672~~	2-7
		1.350	1216.932	
9.385				
	1225.572			
8.640	~~1223.292~~			
7.891				
		5.688		
			1220.634	
		4.938	~~1218.354~~	2-6
		4.188		
9.040				
	1228.424			
8.290	~~1226.044~~			
7.540				
		4.622		
			1225.046	
		3.878	~~1222.706~~	2-5
		3.130		

(12) July 1, 1991

B.S.	H.I.	F.S.	Elev.	Desc.
		1225.046 ~~1222.766~~		
			1225.046 ~~1222.766~~	2-5
10.808				
9.992	1235.038 ~~1232.758~~			
9.178				
		1.210	1234.113	
		0.925	~~1231.833~~	2-4
		0.641		
8.832				
8.084	1242.197 ~~1239.917~~			
7.338				
		4.099		
		3.346	1238.851 ~~1236.571~~	2-3
		2.599		
8.670				
7.910	1246.761 ~~1244.481~~			
7.155				
		2.470	~~2.490~~	2-2
		1.730	~~1.750~~	~~1242.751~~
		0.990	~~0.990~~	1245.031

(13)

B.S.	H.I.	F.S.	Elev.	Desc.
			1245.031 ~~1242.751~~	2-2
8.822				
8.070	1253.101 ~~1250.821~~			
7.322				
		4.545		
		3.800	1249.301 ~~1247.021~~	2-1
		3.055		
9.286				
~~9.288~~	~~1257.783~~			
8.480				
~~8.482~~	~~1255.503~~			
7.678	1257.781			
		6.202		
		5.500	~~1252.283~~ ~~1250.002~~	W. 1/4 Cor. Sec. 8
		~~4.799~~ 4.798	1252.281	Alum. Cap

Closed 0.007 –

(14) July 2, 1991
Hot Calm 110°F

FCDMC

B.M. - [illegible]
J.B. - [illegible]
P.B. - [illegible]

BS	HI	FS.	Elev.	Desc.
			1209.550	2-9
3.214				
2.490	1212.041 ~~2.491~~			
1.769				
		2.843		
		2.009	1210.031	3-1
		1.178		
8.440				
7.699	1217.728			
6.951				
		3.820		
		3.065	1214.663	3-2
		2.311		
5.178				
4.426	1219.088			
3.672				
		5.122		
		4.379	1214.711	3-3
		3.630		

Cont. July 2, 1991 (15)

BS	HI	FS	Elev.	Desc.
6.282				
5.538	1220.248			
4.790				
		3.021		
		2.271	1217.977	3-4
		1.521		
7.320				
6.420	1224.397			
5.520				
		7.462		
		6.348	1218.048	3-5
		5.238		
9.399				
8.521	1226.570			
7.645				
		9.303		
		8.529	1218.041	3-6
		7.755		
7.743				
7.045	1225.086			
6.346				

(16) Cont. July 2, 1991

BS	HI	FS	Elev.	Desc.
~~9.770~~		9.770		
~~8.885~~		8.885	1216.201	3-7
~~8.000~~		8.000		
2.284				
1.535	1217.736			
0.785				
		12.999		
		12.223	1205.512	3-8
		11.451		
5.818				
5.059	1210.571			
4.301				
		5.630		
		4.981	1205.590	3-9
		4.332		
6.295				
5.463	1211.052			
4.628				
		6.061		
		5.329	1205.723	3-10
		4.598		

Cont. July 2, 1991 (17)

BS	HI	FS	Elev.	Desc.
9.644				
8.901	1214.624			
8.158				
		3.440		
		2.688	1211.935	3-11 TBM
		1.939		
3.672				
2.925	1214.860			
2.178				
		9.880		
		9.140	1205.720	3-10
		8.400		
6.110				
5.378	1211.097			
4.642				
		6.343		
		5.509	1205.586	3-9
		4.680		
5.542				
4.898	1210.483			
4.251				

BS	HI	FS	Elev.	Desc.
		5.740		
		4.977	1205.506	3-8
		4.213		
13.042				
12.271	1217.778			
11.502				
		2.338		
		1.582	1216.195	3-7
		0.828		
9.745				
8.855	1225.050			
7.965				
		7.710		
		7.010	1218.037	3-6
		6.320		
9.460				
8.705	1226.742			
7.950				
		9.567		
		8.698	1218.044	3-5
		7.828		

BS	HI	FS	Elev.	Desc.
7.495				
6.370	1224.414			
5.245				
		7.330		
		6.440	1217.974	3-4
		5.550		
3.019				
2.261	1220.236			
1.505				
		6.268		
		5.529	1214.708	3-3
		4.788		
5.140				
4.390	1219.100			
3.645				
		5.189		
		4.441	1214.660	3-2
		3.691		
3.840				
3.080	1217.740			
2.320				

Cont.
July 2,

BS	HI	FS	Elev.	Desc.
		8.443		
		7.710	1210.031	3-1
		6.975		
2.707				
1.872	1211.903			
1.038				
		3.081		
		2.351	1209.550	2-9
		1.626		
			Closed	0.000

Cont.
July 2, 1991

Breezy
110°F

BM. -
P.B. -
J.B. -

BS	HI	FS	Elev.	Desc.
			1211.935	TBM 3-11
6.139			New Loop	
5.378	1217.313			
4.618				
		6.240		
		5.502	1211.811	4-1
		4.764		
5.980				
5.230	1217.043			
4.485				
		6.000		
		5.630	1211.412	A-7 Brass Cap
		5.263		
		5.860		
		5.105	1211.938	4-2
		4.350		
5.844				
5.090	1217.029			
4.340				
		6.310		
		5.562	1211.468	4-3
		4.812		

(22) Cont.
July 2, 1991

BS	HI	FS	Elev.	Desc.
5.543				
4.788	1216.255			
4.031				
		5.343		
		4.607	1211.648	4-4
		3.871		
5.565				
4.802	1216.451			
4.041				
		5.989		
		5.250	1211.200	4-5
		4.514		
6.090				
5.323	1216.523			
4.555				
		6.318		
		5.671	1210.852	A-6 Brass Cap
		5.025		
		6.144		
		5.411	1211.111	4-6
		4.682		

Cont. July 2, 1991 (23)

BS	HI	FS.	Elev.	Desc.
6.030				
5.265	1216.376			
4.500				
		5.968		
		5.232	1211.143	4-7
		4.500		
5.465				
4.710	1215.854			
3.958				
		6.060		
		5.310	1210.541	4-8
		4.570		
6.140				
5.375	1215.918			
4.615				
		5.457		
		5.342	1210.576	A-5 Brass Cap
		5.278		
		6.407		
		5.660	1210.248	4-9
		4.934		

Cont. July 2, 1991

BS	HI	FS	Elev.	Desc.
5.668				
4.904	1215.153			
4.142				
		5.6~~10~~09		
		4.8~~8~~70	1210.283	4-10
		4.130		
5.848				
5.082	1215.367			
4.321				
		6.241		
		5.501	1209.865	4-11
		4.764		
5.8~~8~~90				
5.122	1214.989			
4.361				
		6.251		
		5.857	1209.133	A-4 Brass Cap
		5.459		
		6.321		
		5.587	1209.403	4-12
		4.851		

Cont. July 2, 1991

BS	HI	FS	Elev.	Desc.
5.761				
5.000	1214.404			
4.241				
		5.727		
		4.986	1209.417	4-13
		4.247		
5.928				
5.158	1214.575			
4.388				
		6.148		
		5.418	1209.157	4-14
		4.688		
6.040				
5.2~~8~~10	1214.438			
4.522				
		6.780		
		6.032		
		5.290	1208.404	4-15
6.362				
5.630	1214.035			
4.902				

Cont. July 2, 1991

BS	HI	FS	Elev.	Desc
		6.187		
		5.615	1208.420	A-3 Brass Cap
		5.042		
		6.021		
		5.279	1208.755	4-16
		4.539		
6.357				
5.601	1214.357			
4.849				
		6.635		
		5.890	1208.466	4-17
		5.148		
5.982				
5.231	1213.698			
4.482				
		5.890		
		5.142	1208.556	4-18
		4.393		
6.105				
5.345	1213.901			
4.585				

Cont. July 2, 1991

BS	HI	FS	Elev.	
		5.765		
		5.714	1208.187	A-2 Brass Cap
		5.663		
		6.086		
		5.348	1208.553	4-19
		4.611		

July 3, 1991
Sunny 110°F

FCDmc

Topcon

D.S. - X
P.B. - [illegible]
J.B. - [illegible]

(28)

BS	HI	FS	Elev.	Desc.
			1208.553	4-19
6.052				
5.310	1213.862			
4.565				
Ave 5.309				
		5.919		
		5.160	1208.700	4-20
		4.407		
		Ave 5.162		
5.693				
4.955	1213.645			
4.108				
Ave 4.945				
		5.949		
		5.200	1208.445	4-21
		4.450		
		Ave 5.200		
5.832				
5.080	1213.525			
4.329				
Ave 5.080				

Cont. July 3, 1991

(29)

BS	HI	FS	Elev.	Desc.
		6.080		
		5.643	1207.883	A-1 Brass Cap
		5.204		
		Ave 5.642		
		16.189		
		15.713	1197.812	B-1 Brass Cap
		15.237		
		Ave 15.713		
5.387				
4.858	1202.669			
4.327				
Ave 4.857				
		6.536		
		5.872	1196.796	4-22
		5.200		
		Ave 5.873		
3.884				
3.138	1199.933			
2.389				
Ave 3.137				

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc.
		6.931		
		6.178	1193.755	4-23
		5.425		
		Ave 6.178		
3.423				
2.668	1196.422			
1.911				
Ave 2.667				
		7.344		
		6.598	1189.824	4-24
		5.851		
		Ave 6.598		
5.119				
4.370	1194.195			
3.625				
Ave 4.371				
		5.080		No. 5 20+00
		4.895	1189.300	(B-2) BC
		4.709		
		Ave 4.895		

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc
		6.797		
		6.044	1188.150	4-25
		5.293		
		Ave 6.045		
5.917				
5.159	1193.309			
4.400				
Ave 5.159				
		5.451		
		4.710	1188.599	4-26
		3.968		
		Ave 4.710		
4.190				
3.441	1192.039			
2.690				
Ave 3.440				
		6.551		
		5.805	1186.234	4-27
		5.059		
		Ave 5.805		

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc.
5.487				
4.747	1190.981			
4.007				
Ave 4.747				
		5.306		
		4.552	1186.428	4-28
		3.800		
		Ave 4.553		
6.402				
5.655	1192.083			
4.909				
Ave 5.655				
		5.288		
		4.539	1187.545	4-29
		3.788		
		Ave 4.538		
7.250				
6.498	1194.042			
5.742				
Ave 6.497				

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc.
		6.820		
		6.075	1187.967	4-30
		5.330		
		Ave 6.075		
6.082				
5.334	1193.301			
4.587				
Ave 5.334				
		4.399		
		3.649	1189.651	4-31
		2.901		
		Ave 3.650		
4.107				
3.350	1193.003			
2.~~6~~5 98				
Ave 3.352				
		4.197		No. 9
		4.~~180~~ 018	1188.985	40+00 B-4
		~~4~~3 840		
		Ave 4.018		

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc.
		6.868		
		6.121	1186.882	4-32
		5.373		
		Ave 6.121		
6.439				
5.688	1192.570			
4.938				
Ave 5.688				
		5.833		
		5.082	1187.487	4-33
		4.33~~2~~3		
		Ave 5.083		
6.223				
5.473	1192.960			
4.723				
Ave 5.473				
		7.308		
		6.5~~67~~76	1186.384	4-34
		5.84~~4~~3		
		Ave 6.576		

Cont. July 3, 1991

BS	HI	FS	Elev.	Desc.
7.427				
6.677	1193.061			
5.928				
Ave 6.677				
		5.940		
		5.550	1187.511	B-5 Brass Cap
		5.160		
		Ave 5.550		
		5.811		
		5.062		
		4.310	1188.000	4-35
		Ave 5.061		
5.178				
4.429	1192.429			
3.681				
Ave 4.429				
		6.944		
		6.190	1186.238	4-36
		5.440		
		Ave 6.191		

Cont July 3, 1991

BS	HI	FS	Elev.	Desc.
4.070				
3.320	1189.558			
2.569				
Ave 3.320				
		6.833		
		6.085	1183.473	4-37
		5.348		
		Ave 6.085		
6.308				
5.589	1189.031			
4.808				
Ave 5.558				
		4.701		
		3.950	1185.080	4-38
		3.201		
		Ave 3.951		
5.803				
5.050	1190.131			
4.310				
Ave 5.051				

Cont. July 3, 1991

BS.	HI	FS	Elev.	Desc.
		4.836		
		4.084	1186.046	4-39
		3.335		
		Ave 4.085		
		4.249		
		3.681	1186.450	B-6 Brass Cap
		3.113		
		Ave 3.681		
6.598				
5.849	1191.895			
5.101				
Ave 5.849				
		5.202		
		4.467	1187.428	4-40
		3.732		
		Ave 4.467		
6.058				
5.309	1192.737			
4.561				
Ave 5.309				

BS	HI	FS	Elev.	Desc.
		2.110		
		1.368	1191.370	4-41
		0.623		
		Ave 1.367		
6.517				
5.7~~60~~ 72	1197.142			
5.02~~7~~ 8				
Ave 5.772				
		4.996		
		4.890	1192.252	B-7 Brass Cap
		4.784		
		Ave 4.890		
		4.425		
		3.673	1193.469	4-42
		2.922		
		Ave 3.673		
9.~~740~~ 40				
8.65~~0~~ 8	1202.127			
7.91~~8~~ 7				
Ave 8.658				

BS	HI	FS	Elev.	Desc.
		1.729		
		1.148	1200.979	4-43
		0.567		
		Ave 1.148		
12.661				
12.263	1213.242			
11.866				
Ave 12.263				
		1.534		
		1.306	1211.936	3-11
		1.077		
		Ave 1.306		
		Closed	0.001	

Cont. July 3, 1991
Sunny 110°F

D.S. - π
P.B. - ▯
J.B. - ♡

(40)

	BS	HI	FS	Elev.	Desc.
				1186.428	4-28
	4.340				
	4.196	1190.623			
	4.050				
Ave	4.195				
			3.893		
			3.741	1186.883	B-3 Brass Cap
			3.587		
		Ave	3.740		
			Side Shot		

Cont. July 3, 1991

(41)

D.S. - π
P.B. - ▯
J.B. - ♡

	BS	HI	FS	Elev.	Desc.
				1207.883	A-1 Brass Cap
				New loop	
	6.093				
	5.347	1213.230			
	4.601				
Ave	5.347				
			5.787		
			5.034	1208.195	5-1
			4.283		
		Ave.	5.035		
	6.149				
	5.382	1213.578			
	4.617				
Ave	5.383				
			5.916		
			5.181	1208.396	5-2
			4.448		
		Ave	5.182		
	6.501				
	5.782	1214.178			
	5.062				
Ave	5.782				

	BS	HI	FS	Elev	Desc.
			3.271		
			2.614	1211.564	5-3
			1.958		
		Ave	2.614		
	7.~~699~~ 700				
	6.~~359~~ 941	1218.507			
	6.167				
Ave	6.943				
			4.979		
			4.244	1214.265	5-4
			3.504		
		Ave.	4.242		
	4.895				
5-4	4.145	1218.413			
	3.405				
AVE	4.148				
			7.604		
			6.842	1211.568	5-3
			6.090		
		AVE.	6.845		

	BS	HI	FS	ELEV	DESC
	3.935				
5-3	3.315	1214.884			
	2.698				
AVE	3.316				
			7.262		
			6.485	1208.399	5-2
			5.709		
		AVE.	6.485		
	5.935				
5-2	5.201	1213.601			
	4.469				
AVE	5.202				
			6.165		
			5.400	1208.201	5-1
			4.634		
		AVE	5.400		
5-1	5.736				
	4.989	1213.~~191~~ 188			
	4.235				
AVE	4.99				
	4.987				

Cont. July 3, 1991

BS	HI	FS	ELEV	DESC.
		6.042		
		5.302	1207.~~84~~ 887	A-1
		4.560		
		5.301		
		Closed	.00~~8~~ 4	

(46) July 15, 1991 Sokkisha B2-C DS-[illegible] PB-[illegible] JB-[illegible]

Sunny 106°F FCDMC

BS	HI	FS	Elev.	Desc.
			1214.265	5-4
5.989				
5.246	1219.510			
4.501				
Ave 5.245				
		4.120		
		3.368	1216.142	6-1
		2.617		
		Ave. 3.368		
6.897				
6.131	1222.275			
5.370				
Ave 6.133				
		5.3~~20~~52		
		4.6~~8~~17	1217.658	6-2
		3.881		
		Ave 4.617		
6.928				
6.177	1223.835			
5.427				
Ave 6.177				

Cont 7-15-91 (47)

BS	HI	FS	Elev.	Desc
		6.042		
		5.292	1218.54~~3~~2	6-3
		4.544		
		Ave 5.293		
4.430				
3.682	1222.223			
2.932				
Ave 3.681				
		5.5~~6~~59		
		4.808	1217.414	6-4
		4.060		
		Ave 4.809		
6.403				
5.653	1223.066			
4.901				
Ave 5.652				
		5.640		
		4.890	1218.176	6-5
		4.141		
		Ave 4.890		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc
	6.818				
	6.065	1224.243			
	5.~~31~~ 13 8				
Ave	6.067				
			5.529		
			4.~~8~~ 7 78	1219.465	6-6
			4.027		
		Ave	4.778		
	7.040				
	6.283	1225.749			
	5.530				
Ave	6.284				
			4.971		
			4.229	1221.520	6-7
			3.487		
		Ave.	4.229		
	8.761				
	8.034	1229.555			
	7.310				
Ave.	8.035				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc
			4.362		
			3.589	1225.966	6-8
			2.817		
		Ave	3.589		
	6.865				
	6.118	1232.084			
	5.370				
Ave.	6.118				
			4.821		
			4.069	1228.015	6-9
			3.~~0~~ 3 18		
		Ave	4.069		
	5.469				
	4.729	1232.744			
	3.988				
Ave	4.729				
			5.162		
			4.420	1228.324	6-10
			3.677		
		Ave.	4.420		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
	7.497				
	6.700	1235.025			
	5.905				
Ave	6.701				
			4.868		
			4.165	1230.860	6-11
			3.462		
		Ave.	4.165		
	4.207 (207)				
	3.698 (3)	1234.558			
	3.188				
Ave	3.698				
			10.242		
			9.599	1224.959	Brass Cap J-265 1948
			8.957		
		Ave	9.599		
	10.049				
	9.405	1234.364			
	8.762				
Ave.	9.405				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
			4.016		
			3.503	1230.861	6-11
			2.990		
		Ave	3.503		
	4.974 (3)				
	4.268 (7)	1235.132 (27)			
	3.570 (58)				
Ave	4.277 (66)				
			7.590		
			6.799 (801)	1228.327	6-10
			6.009		
		Ave	6.800		
	5.170				
	4.429	1232.756			
	3.687				
Ave	4.429				
			5.477		
			4.736	1228.020	6-9
			3.996		
		Ave	4.736		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc
	4.818				
	4.067	1232.087			
	3.315				
Ave	4.067				
			6.861		
			6.110	1225.976	6-8
			5.363		
		Ave	6.111		
	4.097				
	3.333	1229.309			
	2.570				
Ave	3.333				
			8.513		
			7.780		
			7.780	1221.532	6-7
			7.040		
		Avg	7.777		
	4.869				
	4.132	1225.663			
	3.393				
Ave	4.131				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
			6.943		
			6.183	1219.480	6-6
			5.422		
		Avg	6.183		
	5.599				
	4.849	1224.330			
	4.101				
Ave	4.850				
			6.890		
			6.141	1218.189	6-5
			5.391		
		Ave	6.141		
	5.561				
	4.820	1223.009			
	4.069				
Ave	4.820				
			6.338		
			5.590	1217.419	6-4
			4.841		
		Ave	5.590		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
	5.382				
	4.640	1222.059			
	3.896				
Ave	4.639				
			4.266		
			3.510	1218.547	6-3
			2.757		
		Ave	3.511		
	5.913				
	5.171	1223.718			
	4.430				
Ave.	5.171				
			6.809		
			6.052	1217.664	6-2
			5.300		
		Ave.	6.054		
	5.299				
	4.548	1222.213			
	3.800				
Ave	4.549				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc
			6.807		
			6.058	1216.155	6-1
			5.380		
		Ave	6.058		
	4.012 (81)				
	3.335	1219.491			
	2.591				
Ave	3.336				
			5.968		
			5.217	1214.274	5-4
			4.465		
		Ave	5.217		
			Closed	.009	

(56) July 15, 1991
Windy, 107°F

FCDMC

Spokkisha
BL-C

DS-K
PB-B
JB-

	BS	HI	FS	Elev.	Desc
				1230.860	6-11
	5.428				
	5.009	1235.860			
	4.690				
Ave	5.000				
			4.453		
			4.064	1231.795	7-1
			3.678		
		Ave	4.065		
	5.422				
	4.672	1236.467			
	3.921				
Ave	4.672				
			4.421		
			3.673	1232.795	7-2
			2.923		
		Ave	3.672		
	5.349				
	4.602	1237.395			
	3.850				
Ave	4.600				

Cont. 7-15-91

(57)

	BS	HI	FS	Elev.	Desc.
			6.533		
			5.783	1231.612	7-3
			5.034		
		Ave.	5.783		
	4.417				
	3.653	1235.266			
	2.891				
Ave.	3.654				
			5.009		
			4.273	1230.993	7-4
			3.536		
		Ave	4.273		
	6.700				
	5.950	1236.944			
	5.202				
Ave	5.951				
			4.763		
			4.013	1232.931	7-5
			3.262		
		Ave	4.013		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
	8.866				
	8.117	1241.047			
	7.366				
Ave	8.116				
			3.87~~2~~ 7		
			3.1~~33~~ 26	1237.921	7-6
			2.374		
		Ave	3.126		
	6.750				
	6.000	1243.921			
	5.250				
Ave	6.000				
			5.369		
			4.622	1239.299	7-7
			3.874		
		Ave	4.622		
	7.102				
	6.349	1245.650			
	5.601				
Ave	6.351				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
			3.438		
			2.689	1242.960	7-8
			1.943		
		Ave	2.690		
	9.~~25~~ 32				
	8.~~5~~ 6 02	1251.~~4~~ 5 61			
	7.~~750~~ 848				
Ave.	8.~~5~~ 6 01				
			5.012 ~~4.920~~		
			4.2~~8~~ 62 ~~4.180~~	1247.~~291~~ 299	7-9
			3.512 ~~3.420~~		
		Ave	4.~~170~~ 262		
	4.96~~6~~ 4				
	4.21~~9~~ 3	1251.5~~04~~ 12			
	3.463				
Ave	4.213				
			9.306		
			8.556	1242.~~948~~ 956	7-8
			7.805		
		Ave	8.556		

	BS	HI	FS	Elev.	Desc.
	3.509				
	2.760	1245.716			
	2.011				
Ave	2.760				
			7.163		
			6.417	1239.300	7-7
			5.669		
		Ave	6.416		
	5.408				
	4.658	1243.956			
	3.902				
Ave	4.656				
			6.783		
			6.038	1237.918	7-6
			5.292		
		Ave.	6.038		
	3.862				
	3.113	1241.031			
	2.363				
Ave.	3.113				

	BS	HI	FS	Elev.	Desc.
			8.854		
			8.102	1232.928	7-5
			7.353		
		Ave	8.103		
	4.665				
	3.916	1236.843			
	3.164				
Ave	3.915				
			6.597		
			5.848	1230.994	7-4
			5.102		
		Ave	5.849		
	5.092				
	4.343	1235.338			
	3.597				
Ave	4.344				
			4.471		
			3.723	1231.615	7-3
			2.976		
		Ave	3.723		

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
	6.498				
	5.746	1237.362			
	4.996				
Ave	5.747				
			5.317		
			4.568	1232.793	7-2
			3.821		
		Ave	4.569		
	4.230				
	3.483	1236.276			
	2.737				
Ave	3.483				
			5.231		
			4.482	1231.795	7-1
			3.729		
		Ave	4.481		
	4.290				
	3.838	1235.632			
	3.383				
Ave.	3.837				

Cont. 7-15-91

	BS	HI	FS	Elev.	Desc.
			5.110		
			4.767	1230.865	6-11
			4.423		
		Ave	4.767		
			Closed	.005	

Sunny Calm 7-16-91 Sokkisha DB-
(64) 100°F FCDMC PB-
JB-

	BS	HI	FS	Elev.	Desc.
				1247.299	7-9
	6.935				
	6.188	1253.487			
	5.441				
Ave	6.188				
			4.938		
			4.185	1249.302	8-1
			3.432		
		Ave	4.185		
	7.830				
	7.074	1256.376			
	6.319				
Ave	7.074				
			5.640		
			5.127	1251.248	8-2
			4.618		
		Ave	5.128		
	5.543				
	4 5.798	1256.045			
	4.050				
Ave	4.797				

(65)

	BS	HI	FS	Elev.	Desc.
			3.149		
			2.399	1253.646	8-3
			1.649		
		Ave	2.399		
	7.651				
	6.901	1260.547			
	6.151				
Ave	6.901				
			4.927		
			4.178	1256.369	8-4
			3.429		
		Ave	4.178		
	7.649				
	6.903	1262.273			
	6.161				
Ave	6.904				
			5.027		
			4.272	1259.001	8-5
			3.518		
		Ave	4.272		

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
	4.543				
	3.797	1262.797			
	3.449				
Ave.	3.796				
			3.759		
			2.009	1260.787	8-6
			1.262		
		Ave	2.010		
	5.217				
	4.470	1265.259			
	3.728				
Ave	4.472				
			7.272		
			6.393	1258.865	8-7
			5.517		
		Ave	6.394		
	4.467				
	3.798	1262.662			
	3.127				
Ave	3.797				

	BS	HI	FS	Elev.	Desc.
			2.801		
			2.040	1260.623	8-8
			1.277		
		Ave	2.039		
	2.759				
	1.995	1262.618			
	1.230				
Ave	1.995				
			4.422		
			3.751	1258.866	8-7
			3.082		
		Ave	3.752		
	7.147				
	6.268	1258.134			
	5.390				
Ave	6.268				
			5.091		
			4.348	1260.787	8-6
			3.602		
		Ave	4.347		

Cont 7-16-91

	BS	HI	FS	Elev	Desc.
	2.910				
	2.159	1262.945			
	1.406				
Ave	2.158				
			4.688		
			3.944	1259.000	8-5
			3.202		
		Ave	3.945		
	5.138				
	4.381	1263.381			
	3.624				
Ave	4.381				
			7.756		
			7.012	1256.368	8-4
			6.271		
		Ave	7.013		
	5.041				
	4.286	1260.654			
	3.530				
Ave	4.286				

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
			7.753		
			7.010	1253.644	8-3
			6.268		
		Ave	7.010		
	3.313				
	2.569	1256.212			
	1.823				
Ave	2.568				
			5.718		
			4.968	1251.244	8-2
			4.218		
		Ave	4.968		
	5.649				
	5.144	1256.389			
	4.642				
Ave	5.145				
			7.859		
			7.091	1249.297	8-1
			6.327		
		Ave	7.092		

Cont 7-16-91

	BS	HI	FS	Elev.	Desc.
	5.353				
	4.610	1253.906			
	3.863				
Ave	4.609				
			7.368		
			6.612	1247.294	7-9
			5.867		
		Ave	6.612		
			Closed	.005	

D.S. - T
P.B. - B
J.B. - [illegible]

Cont. 7-16-91
FCDMC

Sunny Breezy
107°F

	BS	HI	FS	Elev.	Desc.
				1260.623	8-8
	7.642				
	6.893	1267.516			
	6.143				
Ave	6.893				
			3.190		
			2.442	1265.074	9-1
			1.695		
		Ave	2.442		
	7.652				
	6.911	1271.985			
	6.170				
Ave	6.911				
			3.357		
			2.608	1269.377	9-2
			1.860		
		Ave	2.608		
	8.809				
	8.049	1277.426			
	7.290				
Ave	8.049				

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
			3.262		
			2.528	1274.898	9-3
			1.793		
		Ave	2.528		
	5.822				
	5.071	1279.969			
	4.321				
Ave	5.071				
			4.621		
			3.872	1276.097	9-4
			3.123		
		Ave	3.872		
	6.697				
	5.943	1282.041			
	5.191				
Ave	5.944				
			4.640		
			5.4		
			3.891	1278.149	9-5
			3.144		
		Ave	3.892		

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
	7.245				
	6.492	1284.642			
	5.741				
Ave.	6.493				
			3.209		
			2.462	1282.179	9-6
			1.717		
		Ave	2.463		
	6.221				
	5.477	1287.655			
	4.730				
Ave	5.476				
			3.749		
			2.998	1284.658	9-7
			2.245		
		Ave	2.997		
	6.508				
	5.870	1290.527			
	5.229				
Ave	5.869				

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
			4.508		
			3.784	1286.743	9-8
			3.061		
		Ave	3.784		
	6.340				
	5.595	1292.338			
	4.849				
Ave	5.595				
			3.387		
			2.633	1289.704	9-9
			1.881		
		Ave	2.634		
	7.813				
	7.061	1296.765			
	6.308				
Ave	7.061				
			2.704		
			1.960	1294.806	9-10
			1.213		
		Ave	1.959		

Cont 7-16-91

	BS	HI	FS	Elev.	Desc.
	7.843				
	7.090	1301.897			
	6.340				
Ave	7.091				
			2.566		
			1.820	1300.078	9-11
			1.070		
		Ave	1.819		
	8.126				
	7.379	1307.456			
	6.630				
Ave	7.378				
			2.978		
			2.228	1305.228	9-12
			1.478		
		Ave	2.228		
	2.908				
	2.159	1307.387			
	1.409				
Ave	2.159				

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Cont. 7-16-91

	BS	HI	FS	Elev.	Desc
			8.067 58		
			7.309 8	1300.078	9-11
			6.561		
		Ave	7.309		
	2.541				
	1.792	1301.870			
	1.043				
Ave	1.792				
			7.820		
			7.068	1294.802	9-10
			6.317		
		Ave	7.068		
	2.633				
	1.882	1296.684			
	1.131				
Ave	1.882				
			7.730		
			6.982	1289.702	9-9
			6.233		
		Ave	6.982		

Cont. 7-16-91

77

	BS	HI	FS	Elev.	Desc.
	3.352				
	2.604	1292.307			
	1.858				
Ave	2.605				
			6.320		
			5.568	1286.739	9-8
			4.817		
		Ave	5.568		
	4.623				
	3.898	1290.636			
	3.171				
Ave	3.897				
			6.620		
			5.983	1284.653	9-7
			5.347		
		Ave	5.983		
	3.764				
	3.016	1287.669			
	2.269				
Ave	3.016				

Cont 7-16-91

	BS	HI	FS	Elev.	Desc.
			6.248		
			5.498	1282.171	9-6
			4.747		
		Ave	5.498		
	3.197				
	2.450	1284.621			
	1.703				
Ave	2.450				
			7.234		
			6.481	1278.140	9-5
			5.729		
		Ave.	6.481		
	4.533				
	3.783	1281.923			
	3.033				
Ave	3.783				
			6.582		
			5.835	1276.088	9-4
			5.087		
		Ave	5.835		

Cont 7-16-91

	BS	HI	FS	Elev	Desc.
	4.660				
	3.907	1279.994			
Ave	3.151				
	3.906				
			5.850		
			5.105	1274.889	9-3
			4.360		
		Ave	5.105		
	3.590				
	2.841	1277.729			
	2.090				
Ave	2.840				
			9.108		
			8.360	1269.370	9-2
			7.609		
		Ave	8.359		
	3.790				
	3.046	1272.416			
	2.303				
Ave	3.046				

Cont. 7-16-91

	BS	HI	FS	Elev	
			8.094		
			7.347	1265.089	9-1
			6.599		
		Ave	7.347		
	3.358				
	2.609	1267.678			
	1.861				
Ave	2.609				
			7.808		
			7.060	1260.619	8-8
			6.310		
		Ave	7.059		
			Closed	.004	

Sunny, Beezy 107°F

Cont. 7-16-91

FCDMC

D.S. - π
P.B. - ⊟
J.B. - 📖

	BS	HI	FS	Elev.	Desc.
				1305.228	9-12
	6.549				
	5.800	1311.027			
	5.049				
Ave	5.799				
			4.291		
			3.543	1307.483	10-1
			2.799		
		Ave	3.544		
	8.172				
	7.421	1314.903			
	6.668				
Ave	7.420				
			4.360		
			3.613	1311.290	10-2
			2.867		
		Ave	3.613		
	7.654				
	6.903	1318.193			
	6.152				
Ave	6.903				

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
			4.050		
			3.3~~10~~ 02	1314.891	10-3
			2.55~~2~~ 3		
		Ave	3.302		
	8.210				
	7.461	1322.352			
	6.711				
Ave	7.461				
			3.392		
			2.643	1319.707	10-4
			1.900		
		Ave	2.645		
	11.499				
	10.~~4~~7 49	1330.457			
	10.001				
Ave	10.750				
			2.399		
			1.648	1328.867	10-~~3~~ 5
			0.902		
		Ave	1.650		

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc
	10.128				
	19.315	1338.182			
	8.622				
Ave	9.375				
	10.940				
	10.130	1338.937			
	9.320				
Ave	10.130				
			1.599		
			0.909	1338.027	10-6
			0.221		
		Ave	0.910		
	10.220				
	9.470	1347.497			
	8.720				
Ave	9.470				
			8.450		
			7.984	1339.513	Top of Rod in H.H. M475 1981
			7.519		
		Ave	7.984		

VOID

Cont. 7-16-91

	BS	HI	FS	Elev.	Desc.
			2.031		
			1.284	1346.212	10-7
			0.539		
		Ave	1.285		

(86) Pt Cloudy 100°F 7-17-91 Sokkisha DS - π PB - ∎ JB - ▽

FCDMC

	BS	HI	FS	Elev.	Desc.
				1346.212	10-7
				Cont. to close loop	
				from 7-16-91	
	1.890				
	1.143	1347.355			
	0.397				
Ave	1.143				
			10.080		
			9.330	1338.025	10-6
			8.581		
		Ave	9.330		
	1.511				
	0.809	1338.832			
	0.102				
Ave	0.807				
			10.821		
			10.029	1328.803	10-5
			9.238		
		Ave	10.029		

Cont. 7-17-91 (87)

	BS	HI	FS	Elev.	Desc.
	2.330				
	1.589	1330.392			
	0.847				
Ave	1.589				
			11.44~~9~~8		
			10.692	1319.699	10-4
			9.9~~40~~39		
		Ave.	10.69~~4~~3		
	3.284				
	2.535	1322.233			
	1.784				
Ave	2.534				
			8.1~~10~~01		
			7.35~~0~~2	1314.880	10-3
			6.60~~3~~5		
		Ave	7.353		
	4.043				
	3.292	1318.173			
	2.543				
Ave	3.293				

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
			7.645		
			6.896	1311.278	10-2
			6.145		
		Ave	6.894		
	4.132				
	3.382	1314.660			
	2.633				
Ave	3.382				
			7.940		
			7.190	1307.470	10-1
			6.440		
		Ave	7.190		
	4.260				
	3.519	1310.986			
	2.768				
Ave	3.516				
			6.525		
			5.777	1305.210	9-12
			5.027		
		Ave	5.776		
			0.018	Bust	

RERAN See Pg. 90

(90) Pt Cloudy 105°F 7-17-91 Sokkisha DS-π PB-[illegible] JB-[illegible]

FCDMC

	BS	HI	FS	Elev.	Desc.
				~~9-12~~	~~1305.228~~
				1305.228	9-12
	6.643				
	5.89~~5~~4	1311.122			
	5.144				
Ave	5.894				
			4.440		
			3.~~7~~690	1307.432	10-1
			2.941		
		Ave	3.690		
	8.889				
	7.339	1314.771			
	6.589				
Ave	7.339				
			4.229		
			3.480	1311.292	10-2
			2.729		
		Ave	3.479		
	7.590				
	6.8~~40~~39	1318.131			
	6.088				
Ave	6.839				

Cont. 7-17-91 (91)

	BS	HI	FS	Elev.	Desc.
			3.984		
			3.237	1314.894	10-3
			2.490		
		Ave	3.237		
	8.410				
	7.628	1322.521			
	6.842				
Ave	7.627				
			3.522		
			2.809	1319.712	10-4
			2.096		
		Ave	2.809		
	11.312				
	10.567	1330.278			
	9.819				
Ave	10.566				
			2.212		
			1.463	1328.814	10-5
			0.716		
		Ave	1.464		

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
	10.813				
	10.001	1338.815			
	9.188				
Ave	10.001				
			1.463		
			0.781	1338.035	10-6
			0.097		
		Ave	0.780		
	10.228				
	9.479	1347.514			
	8.729				
Ave	9.479				
			8.460		
			7.991	1339.522	Top of Rod in HP
			7.525		m475 1981
		Ave	7.992		
			2.~~8~~38		10-7
			1.291	1346.228	
			0.546		
		Ave	1.29~~7~~		

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
	10.143				
	~~9.581~~				
	9.330				
	~~8.913~~	1355.558			
	8.517				
	~~8.145~~				
	9.330				
Ave	~~8.912~~				
			1.509		
			0.828	1354.724	10-8
			0.147		
		Ave	0.828		
	13.118				
	12.210	1366.928			
	11.283				
Ave	12.199				
			1.371		
			0.790	1366.138	10-9
			0.209		
		Ave	0.790		
	13.329				
	12.519	1378.658			
	11.608				
Ave	12.519				

	BS	HI	FS	Elev.	Desc.
			1.409		
			0.723	1377.92~~8~~ 9	10-10
			0.037		
		Ave	0.723		
	14.043				
	13.108	1391.03~~8~~ 9			
	12.177				
Ave	13.109				
			1.532		
			0.955	1390.08~~3~~ 4	10-11
			0.378		
		Ave	0.955		
	1.718				
	1.143	1391.22~~6~~ 7			
	0.569				
Ave	1.143				
			14.253		
			13.298	1377.92~~8~~ 9	10-10
			12.343		
		Ave	13.298		

	BS	HI	FS	Elev.	Desc.
	1.697				
	1.043	1378.97~~8~~ 3			
	0.391				
Ave	1.044				
			13.682		
			12.837	1366.13~~5~~ 6	10-9
			11.993		
		Ave	12.837		
	1.647 3				
	1.072	1367.20~~8~~ 9			
	0.509				
Ave	1.073				
			13.400 1		
			12.480	1354.72~~8~~ 9	10-8
			11.549		
		Ave	12.480		
	1.54~~5~~ 6				
	0.86~~3~~ 5	1355.59~~3~~ 4			
	0.185				
Ave	0.865				

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
			10.182		
			9.367	1346.228	10-7
			8.549		
		Ave	9.366		
	2.067				
	1.316	1347.548			
	0.565				
Ave	1.316				
			10.238		
			9.502	1338.048	10-6
			8.758		
		Ave	9.503		
	1.833				
	1.183	1339.224			
	0.535				
Ave	1.184				
			11.252		
			10.406	1328.894	10-5
			9.557		
		Ave	10.405		

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
	2.831				
	1.887	1330.705			
	1.141				
Ave	1.886				
			11.741		
			10.989	1319.715	10-4
			10.239		
		Ave	10.990		
	3.549				
	2.798	1322.513			
	2.047				
Ave	2.798				
			8.362		
			7.617	1314.894	10-3
			6.879		
		Ave	7.619		
	4.209				
	3.453	1318.348			
	2.701				
Ave	3.454				

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
			7.798		
			7.052	1311.294	10-2
			6.311		
		Ave	7.054		
	4.376				
	3.622	1314.916			
	2.869				
Ave	3.622				
			8.228		
			7.482	1307.434	10-1
			6.736		
		Ave	7.482		
	4.468				
	3.720	1311.153			
	2.970				
Ave	3.719				
			6.670		
			5.923	1305.230	9-12
			5.174		
		Ave	5.923		
			Closed	0.002	

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.

Cont 7-17-91 Sokkisha DS-[illegible] JB-[illegible] PB-[illegible]

Sunny 105°F FCDMC

	BS	HI	FS	Elev.	Desc.
				1390.08~~3~~4	10-11
	9.930				
	9.181	1399.26~~4~~5			
	8.431				
Ave	9.181				
			1.545		
			0.797	1398.46~~7~~8	11-1
			0.049		
		Ave	0.797		
	12.418				
	11.558	1410.02~~7~~8			
	10.703				
Ave	11.560				
			1.563		
			0.895	1409.13~~2~~3	11-2
			0.228		
		Ave	0.895		
	12.870 ~~11.788~~				
	11.943 ~~10.957~~	1421.07~~5~~6			
	11.017				
	10.122				
Ave	11.943 ~~10.956~~				

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
			1.790		
			1.222	1419.85~~3~~4	11-3
			0.653		
		Ave	1.222		
	14.387				
	1~~4~~3.333	1433.188			
	12.282				
Ave	13.334				
			2.173		
			1.733	1431.45~~4~~5	11-4
			1.293		
		Ave	1.733		
	13.06~~7~~9				
	12.1~~8~~75				
	11.28~~1~~2				
Ave	12.175				
	14.122				
	13.141	1444.596			
	12.161				
Ave	13.141				

VOID

Cont. 7-17-91

	BS	HI	FS	Elev.	Desc.
			1.510		
			0.985	1443.620	11-5
			0.440		
		Ave	0.975		
	~~11.887~~				
	~~11.141~~	~~1454.762~~			
	~~10.397~~				
Ave	~~11.142~~				

(104) Sunny 100°F 7-18-91 Topcon DS-π PB-▯ JB-▽

FCDMC

	BS	HI	FS	Elev.	Desc.
				1443.621	11-5
	13.~~359~~ 598				
	12.~~438~~ 673	1456.~~059~~ 294			
	11.~~517~~ 749				
Ave	12.~~438~~ 673				
			1.~~387~~ 701		
			~~0.773~~ 1.089	1455.204	11-6
			0.~~162~~ 479		
		Ave	~~0.774~~ 1.090		
	13.418				
	12.580	1467.784			
	11.741				
Ave	12.580				
			3.632		
			3.070	1464.714	11-7
			2.509		
		Ave	3.070		
	6.457				
	5.705	1470.419			
	4.953				
Ave	5.705				

Cont. 7-18-91 (105)

	BS	HI	FS	Elev.	Desc.
			10.509		
			9.762	1460.656	11-8
			9.017		
		Ave	9.763		
	10.554				
	9.808	1470.464			
	9.062				
Ave	9.808				
			6.507		
			5.753	1464.710	11-7
			5.002		
		Ave	5.754		
	3.022				
	2.432	1467.142			
	1.842				
Ave	2.432				
			12.717		
			11.940	1455.202	11-6
			11.163		
		Ave	11.940		

Cont 7-18-91

	BS	HI	FS	Elev.	Desc.
	1.658				
	1.047	1456.250			
	0.438				
Ave	1.048				
			13.557		
			12.630	1443.618	11-5
			11.708		
		Ave	12.632		
	1.930				
	1.411	1445.029			
	0.893				
Ave	1.411				
			14.537		
			13.577	1431.452	11-4
			12.578		
		Ave	13.577		
	1.708				
	1.171	1432.624			
	0.637				
Ave	1.172				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			13.757		
			12.768	1419.856	11-3
			11.779		
		Ave	12.768		
	1.976				
	1.459	1421.315			
	0.941				
Ave	1.459				
			13.159		
			12.179	1409.136	11-2
			11.200		
		Ave	12.179		
	1.909				
	1.329	1410.465			
	0.750				
Ave	1.329				
			12.953		
			11.992	1398.472	11-1
			11.033		
		Ave	11.993		

(108) Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
	1.993				
	1.284	1399.757			
	0.577				
Ave	1.285				
			10.462		
			9.672	1390.085	10-11
			8.883		
		Ave	9.672		
			Closed	0.001	

Sunny 105°F Cont. 7-18-91 Topcon FCDMC DS-X PB-B JB- (109)

	BS	HI	FS	Elev.	Desc.
				1460.656	11-8
	11.459				
	11.190	1471.846			
	10.922				
Ave	11.190				
			1.447		B.C.
			1.354	1470.492	N 475 1981
			1.262		
		Ave	1.354		
				Side Shot	
				New Loop	
				1460.656	11-8
	1.932				
	1.534	1462.190			
	1.137				
Ave	1.534				
			10.914		
			10.368	1451.822	12-1
			9.823		
		Ave	10.368		

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
	1.216				
	0.846	1452.668			
	0.477				
Ave	0.846				
			13.218		
			12.671	1439.997	12-2
			12.124		
		Ave	12.671		
	2.089				
	1.470	1441.468			
	0.862				
Ave	1.471				
			2.777		B.C. 1.475
			2.121	1439.346	
			1.467		
		Ave	2.122		
	~~9.400~~		9.400		
	~~8.709~~	~~1448.056~~	8.709	1432.758	12-3
	~~8.020~~		8.020		
Ave	~~8.710~~	Ave	8.710		

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
	3.870 ~~3.528~~				
	3.529 ~~3.183~~	1436.285			
	3.183				
Ave	3.527				
			5.809		
			5.318	1430.967	B.C. Q 475
			4.827		
		Ave	5.318		
	5.911				
	5.419	1436.386			
	4.928				
Ave	5.419				
			3.970		
			3.628	1432.758	12-3
			3.285		
		Ave	3.628		
	9.840				
	9.091	1441.849			
	8.343				
Ave	9.091				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			2.405		
			1.856	1439.994	12-2
			1.305		
		Ave	1.855		
	12.813				
	12.281	1452.275			
	11.748				
Ave	12.281				
			0.841		
			0.458	1451.817	12-1
			0.076		
		Ave	0.458		
	11.338				
	10.763	1462.580			
	10.187				
Ave	10.763				
			2.298		
			1.930	1460.650	11-8
			1.563		
		Ave	1.930		
			Closed	0.006	

Sunny 108°F

Cont. 7-18-91 Topcon

FCDmc

DS-
PB-
JB-

	BS	HI	FS	Elev.	Desc.
				1305.228	9-12
	3.037				
	2.289	1307.519			
	1.547				
Ave	2.291				
			6.477		
			5.669	1301.849	13-1
			4.863		
		Ave	5.670		
	5.716				
	4.967	1306.817			
	4.220				
Ave	4.968				
			8.113		
			7.363	1299.454	13-2
			6.613		
		Ave	7.363		
	4.555				
	3.807	1303.261			
	3.058				
Ave	3.807				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			6.700		
			5.948	1297.312	13-3
			5.188		
		Ave	5.949		
	4.088				
	3.331	1300.653			
	2.595				
Ave	3.341				
			7.730		
			6.879	1293.674	13-4
			6.227		
		Ave	6.979		
	6.375				
	5.671	1299.345			
	4.968				
Ave	5.671				
			10.789		
			9.997	1289.349	13-5
			9.202		
		Ave	9.996		

	BS	HI	FS	Elev.	Desc.
	3.114				
	2.344	1291.694			
	1.576				
Ave	2.345				
			6.447		
			5.722	1285.972	13-6
			4.998		
		Ave	5.722		
	1.740				
	1.039	1287.009			
	0.333				
Ave	1.037				
			10.753		
			9.950	1277.059	13-7
			9.148		
		Ave	9.950		
	4.472				
	3.662	1280.720			
	2.848				
Ave	3.661				

	BS	HI	FS	Elev.	Desc.
			9.633		
			8.847	1271.876	13-8
			8.058		
		Ave	8.844		
	10.452				
	9.790	1281.567			
	8.981				
Ave	9.691				
			6.789		
			6.052	1275.514	13-9
			5.318		
		Ave	6.053		
	1.743				
	1.041	1276.592			
	0.340				
Ave	1.041				
			6.303		
			5.502	1271.089	13-10
			4.703		
		Ave	5.503		

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
	7.173				
	6.426	1277.516			
	5.681				
Ave	6.427				
			8.417		
			7.669	1269.847	13-11
			6.922		
		Ave	7.669		
	6.508				
	5.762	1275.608			
	5.013				
Ave	5.761				
			6.997		
			6.157	1269.451	13-12
			5.417		
		Ave	6.157		
	6.920				
	6.179	1275.630			
	5.439				
Ave	6.179				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			6.529		
			5.784	1269.846	13-11
			5.039		
		Ave	5.784		
	8.321				
	7.574	1277.420			
	6.827				
Ave	7.574				
			7.079		
			6.331	1271.088	13-10
			5.585		
		Ave	6.332		
	6.270				
	5.474	1276.562			
	4.678				
Ave	5.474				
			1.758		
			1.050	1275.511	13-9
			0.346		
		Ave	1.051		

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
	6.735				
	5.996	1281.507			
	5.257				
Ave	5.996				
			10.390		
			9.635	1271.873	13-8
			8.878		
		Ave	9.634		
	9.688				
	8.843	1280.716			
	7.997				
Ave	8.843				
			4.412		
			3.654	1277.061	13-7
			2.898		
		Ave	3.655		
	10.~~102~~ 873				
	10.045				
	~~9.350~~	1287.107			
	9.219				
	~~8.394~~				
Ave	10.046 ~~9.350~~				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			1.827		
			1.131	1285.975	13-6
			0.439		
		Ave	1.132		
	6.738				
	6.008	1291.983			
	5.2~~69~~ 78				
Ave	6.008				
			3.403		
			2.630	1289.352	13-5
			1.859		
		Ave	2.631		
	10.807				
	10.000	1299.351			
	9.191				
Ave	9.999				
			6.379		
			5.678	1293.674	13-4
			4.974		
		Ave	5.677		

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc
	8.007				
	7.253	1300.928			
	6.502				
Ave	7.254				
			4.372		
			3.618	1297.310	13-3
			2.863		
		Ave	3.618		
	6.923				
	6.168	1303.478			
	5.415				
Ave	6.168				
			4.787		
			4.~~27~~ 027	1299.451	13-2
			3.268		
		Ave	4.027		
	8.391				
	7.642	1307.092			
	6.891				
Ave	7.641				

Cont. 7-18-91

	BS	HI	FS	Elev.	Desc.
			6.002		
			5.243	1301.849	13-1
			4.484		
		Ave	5.243		
	6.51~~8~~ 2				
	5.716	1307.565			
	4.919				
Ave	5.716				
			3.097		
			2.336	1305.228	9-12
			1.578		
		Ave	2.337		
			Closed	0.000	

(124) Sunny 100°F — 7-22-91 — Topcon — BH-T, PB-H, JB-♡

FCDMC

	BS	HI	FS	Elev.	Desc
				1269.451	13-12
	5.895				
	5.138	1274.589			
	4.380				
Ave	5.138				
			8.450		
			7.708	1266.883	14-1
			6.961		
		Ave	7.706		
	3.120				
	3.339 (2)	1269.222			
	1.557				
Ave	2.339				
			4.600		
			3.885	1265.337	14-2
			3.169		
		Ave	3.885		
	3.112				
	2.363	1267.698			
	1.609				
Ave	2.361				

Cont. 7-22-91 (125)

	BS	HI	FS	Elev.	Desc.
			7.029 ~~6.919~~		
			6.175 (298)	1261.409	14-3
			5.739 (549)		
		Ave	6.289		
	1.700				
	0.950	1262.359			
	0.191				
Ave	0.950				
			8.650		
			7.932 (20)	1254.439	14-4
			7.190		
		Ave	7.920		
	4.897				
	4.145	1258.584			
	3.394				
Ave	4.145				
			6.735		
			5.993	1252.588	14-5
			5.259		
		Ave	5.996		

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
	8.063				
	7.260	1259.846			
	6.450				
Ave	7.258				
			4.359		
			3.740	1256.108	14-6
			3.125		
		Ave	3.738		
	6.993				
	6.338	1262.445			
	5.681				
Ave	6.337				
			10.340		
			9.746	1252.700	14-7
			9.149		
		Ave	9.745		
	10.319				
	9.721	1262.424			
	9.123				
Ave	9.724				

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
			6.969		
			6.310	1256.113	14-6
			5.655		
		Ave	6.311		
	4.450				
	3.820	1259.943			
	3.210				
Ave	3.830				
			9.281		
			8.468	1251.476	Aluminum Cap Caterpillar By Pt #122
			7.651		
		Ave	8.467		
	~~8.146~~		8.146		
	~~7.350~~		7.350	1252.592	14-5
	~~6.558~~		6.558		
Ave	~~7.351~~	Ave	7.351		
	6.738				
	5.989	1258.583			
	5.243				
Ave	5.990				

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
			4.882		
			4.140	1254.443	14-4
			3.395		
		Ave	4.139		
	8.543				
	7.792	1262.235			
	7.041				
Ave	7.792				
			1.567		
			0.821	1261.412	14-3
			0.082		
		Ave	0.823		
	7.174				
	6.423	1267.835			
	5.673				
Ave	6.423				
			3.248		
			2.500	1265.335	14-2
			1.751		
		Ave	2.500		

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
	4.809				
	4.080	1269.415			
	3.350				
Ave	4.080				
			3.300		
			2.529	1266.885	14-1
			1.761		
		Ave	2.530		
	8.719				
	7.963	1274.849			
	7.209				
Ave	7.964				
			6.141		
			5.391	1269.456	13-12
			4.648		
		Ave	5.393		
			Closed	0.005	

(130) Sunny 108°F Cont. 7-22-91 Topcon B# - π HB - [illegible] JB - [illegible]

FCDMC

	BS	HI	FS	Elev.	Desc
				1252.700	14-7
	2.108				
	1.401	1254.103			
	0.700				
Ave	1.403				
			7.899		
			7.104	1246.999	15-1
			6.310		
		Ave	7.104		
	6.0~~8~~7 9				
	5.313	1252.314			
	4.552				
Ave	5.315				
			6.159		
			5.395	1246.919	15-2
			4.632		
		Ave	5.395		
	6.221				
	5.489	1252.406			
	4.752				
Ave	5.487				

Cont. 7-22-91 (131)

	BS	HI	FS	Elev.	Desc.
			5.7~~80~~78		
			5.080	1247.327	15-3
			4.379		
		Ave	5.079		
	5.482				
	4.725	1252.052			
	3.969				
Ave	4.725				
			5.770		
			5.061	1246.992	15-4
			~~3.450~~ 4.3		
		Ave	5.060		
	3.983				
	3.188	1250.179			
	2.~~3~~390				
Ave	3.187				
			5.029		
			4.362	1245.816	15-5
			3.698		
		Ave	4.363		

	BS	HI	FS	Elev	Desc.
	6.500				
	5.708	1251.523			
	4.912				
Ave	5.707				
			4.189		
			3.519	1248.005	15-6
			2.845		
		Ave	3.518		
	6.278				
	5.538	1253.541			
	4.791				
Ave	5.536				
			4.422		
			3.699	1249.84	15-7
			2.978		
		Ave	3.700		
	6.380				
	5.549	1255.391			
	4.710				
Ave	5.550				

	BS	HI	FS	Elev.	Des
			3.288		
			2.594	1252.797	15-8
			1.899		
		Ave	2.594		
	10.943				
	10.140	1262.937			
	9.338				
Ave	10.140				
			2.350		
			1.869	1261.070	15-9 No lathe
			1.382		
		Ave	1.867		
	19.374				
	18.~~870~~ 49	1279.918			
	18.320				
Ave	18.848				
			4.108		
			3.411	1276.507	15-10
			2.715		
		Ave	3.411		

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
	7.779				
	6.920	1283.427			
	6.061				
Ave	6.920				
			3.401		
			2.790	1280.636	Dept of Arm Brass Cap 8-90
			2.181		
		Ave	2.791		
	3.241				
	2.630	1283.266			
	2.020				
Ave	2.630				
			7.620		
			6.758	1276.507	15-10
			5.899		
		Ave	6.759		
	4.243				
	3.550	1280.057			
	2.858				
Ave	3.550				

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc
			19.5~~20~~18		
			18.990	1261.067	15-9
			18.462		
		Ave	18.990		
	2.203				
	1.702	1262.769			
	1.200				
Ave	1.702				
			10.758		
			9.972	1252.796	15-8
			9.189		
		Ave	9.973		
	3.095				
	2.390	1255.188			
	1.690				
Ave	2.392				
			6.180		
			5.346	1249.841	15-7
			4.515		
		Ave	5.347		

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
	4.438				
	3.710	1253.553			
	2.986				
Ave	3.712				
			6.290		
			5.549	1248.004	15-6
			4.807		
		Ave	5.549		
	4.186				
	3.510	1251.515			
	2.838				
Ave	3.511				
			6.489		
			5.701	1245.815	15-5
			4.910		
		Ave	5.700		
	4.921				
	4.267	1250.082			
	3.612				
Ave	4.267				

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
			3.902		
			3.048	1246.992	15-4
			2.279		
		Ave	3.090		
	5.699				
	4.984	1251.976			
	4.270				
Ave	4.984				
			5.401		
			4.650	1247.325	15-3
			3.901		
		Ave	4.651		
	5.784				
	5.074	1252.399			
	4.364				
Ave	5.074				
			6.203		
			5.484	1246.915	15-2
			4.765		
		Ave	5.484		

Cont. 7-22-91

	BS	HI	FS	Elev.	Desc.
	6.053				
	5.289	1252.204			
	4.525				
Ave	5.289				
			5.969		
			5.209	1246.995	15-1
			4.450		
		Ave	5.209		
	7.999				
	7.199	1254.185			
	6.388				
Ave	7.190				
			2.221		
			1.489	1252.695	14-7
			0.760		
		Ave	1.490		
			Closed	0.005	

Sunny 108°F Cont. 7-22-91 Topcon BH-[illegible] PB-[illegible] JB-[illegible]

FCDMC

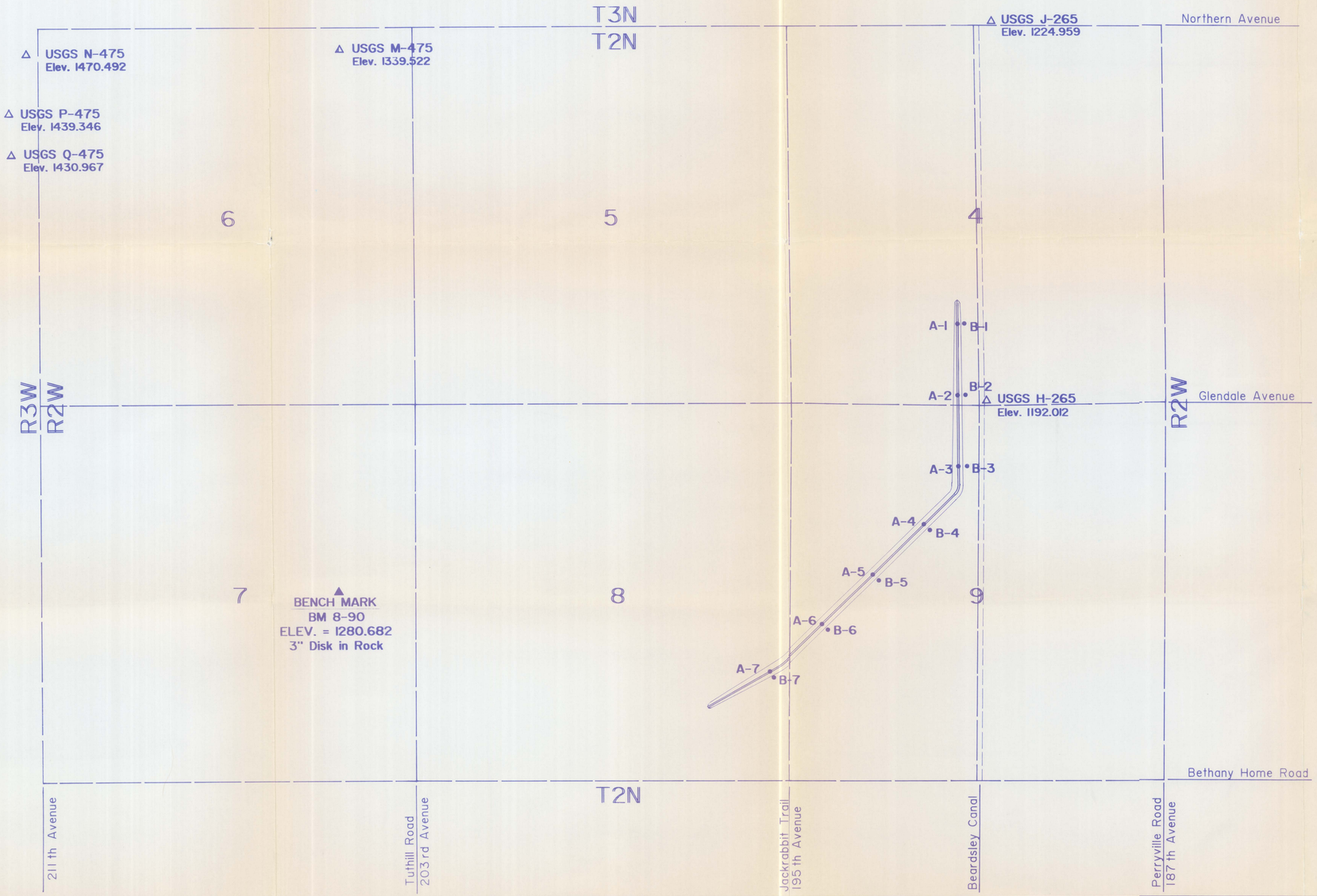
	BS	HI	FS	Elev	Desc.
				1189.824	4-24
	6.513				
	6.020	1195.842			
	5.521				
Ave	6.018				
			4.859		BC.
			3.830	1192.012	H265 1948
			2.801		
		Ave.	3.830		

SUBSIDENCE SURVEY

WHITE TANKS SITE NO. 3

NO.	STATION	02/84	07/86	08/90	07/91	Difference between 1984 (base) survey
A-1	10 + 00	1207.397	1208.348	1207.979	1207.883	+ 0.486
A-2	19 + 95	1207.652	1208.622	1208.267	1208.187	+ 0.535
A-3	30 + 00	1207.864	1208.849	1208.504	1208.420	+ 0.556
A-4	40 + 00	1208.529	1209.542	1209.204	1209.133	+ 0.604
A-5	49 + 88	1209.898	1210.939	1210.618	1210.576	+ 0.678
A-6	60 + 08	1210.939	1211.163	1210.880	1210.852	− 0.087
A-7	70 + 07	1209.927	1211.017	1211.445	1211.412	+ 1.485
B-1	10 + 00	1197.300	1198.268	1197.907	1197.812	+ 0.512
B-2	19 + 95	1188.732	1189.701	1189.392	1189.300	+ 0.565
B-3	30 + 00	1186.280	1187.264	1186.971	1186.883	+ 0.603
B-4	40 + 00	1188.348	1189.354	1189.049	1188.985	+ 0.637
B-5	49 + 88	1186.818	1187.837	1187.563	1187.511	+ 0.693
B-6	60 + 08	1185.668	1186.724	1186.496	1186.450	+ 0.782
B-7	70 + 07	1191.429	1192.518	1192.294	1192.252	+ 0.823

Scale: 1" = 800'



USGS Benchmark Comparison

No.	USGS Elevation	Z & H Elevation	Difference between 1984 USGS (base) survey
H 265	1196.135	1192.012	− 4.123
J 265	1228.992	1224.959	− 4.033
M 475	1343.218	1339.522	− 3.696
N 475	1474.154	1470.492	− 3.662
P 475	1443.019	1439.346	− 3.673
Q 475	1434.646	1430.967	− 3.679

CERTIFICATION

I hereby certify that this survey was performed during the month of July , 1991, under my supervision and direction. All information shown is accurate and correct to the best of my information, knowledge and belief.

REGISTERED LAND SURVEYOR CERTIFICATE NO. 16924 WILLIAM D. ARIZONA U.S.A.

Registered Land Surveyor — Date

FLOOD CONTROL DISTRICT of Maricopa County
3335 W. DURANGO STREET, PHOENIX ARIZONA 85009 TEL. (602) 262-1501

Z & H Engineering, Inc.
717 West Dunlap Avenue
Phoenix, Arizona 85021
Phone (602) 997-7536

SUBSIDENCE SURVEY
WHITE TANKS FRS

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
PROJECT NO.		

SHEET 1 OF 1