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GL03867

Open-File Report # NM/Baca- 13

Environmental (Cont'd.)

<u>No.</u>	<u>Transfer Date</u>	<u>Release Date</u>	<u>Title</u>
7.	A	A	"The Biota of Redondo Creek Canyon, Sandoval County, New Mexico, with Emphasis on Big Game Species and Rare, Endangered or Threatened Species", by Southwest Environmental Research and Development Corporation, October 1974.
8.	A	A	"Report on Reconnaissance of Redondo Creek, Redondo Border, Sulfur Canyon, Alamo Canyon and Valle Seco Areas with Proposals and Budget Estimates for Biological Baseline Studies", Whitford Ecological Consultants, May 1975.
9.	B	B	"Winter Activity and Habitat Use by Elk in the Redondo Creek Area with Comments on Activities and Relative Abundance of Other Species", by Whitford Ecological Consultants, August 1975.
10.	B	B	"The Biota of the Baca Geothermal Site", by Whitford Ecological Consultants, November 1975.
11.	B	B	"Studies of Rare and/or Endangered Species on the Union-Baca Geothermal Lease and Surrounding Area with Discussion of Other Species", by Whitford Ecological Consultants, 1975(?).
12.	B	B	Hydrology of the Region Surrounding the Valles Caldera by Water Resources Associates - 1977.
13.	B	B	Appendices II and III to Hydrology of the Region Surrounding the Valles Caldera, Water Resources Associates - 1977.
14.	B	B	Model of Streamflow Depletion of the Jemez River by Geothermal Development in the Valles Caldera, New Mexico by Water Resources Associates, Inc. - 1977 - Addendum to Hydrology, Jemez Mountains, New Mexico - 1977.

APPENDICES
II and III

TO
HYDROLOGY OF THE REGION
SURROUNDING THE VALLES CALDERA

PROJECT OF
UNION OIL GEOTHERMAL DIVISION
UNION OIL COMPANY

WATER RESOURCES ASSOCIATES, INC.
3009 North 67th Place
Scottsdale, Arizona

WATER RESOURCES ASSOCIATES, INC.

P. O. BOX 1001
SCOTTSDALE, ARIZONA 85252

R. O. ENGBRETSSEN

FEB 22 1977

JOHN R. ERICKSON, P.E.

TELEPHONE (602) 947-7474

February 16, 1977

Mr. Richard F. Dondanville
Union Oil Company of California
Union Geothermal Division
461 South Boylston
Los Angeles, California 90017

Dear Dick:

Enclosed herewith are copies of Appendices II and III which Dick Engebretsen requested I send directly to you.

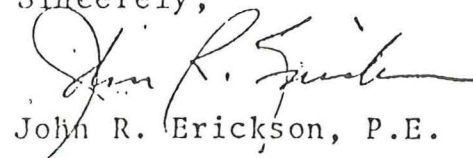
Appendix II is in three parts. Part 1 is all data, except detailed chemical analyses, relative to selected wells, springs and surface water gaging stations in the areas covered by the plates. Part 2 is water quality data for all the data points reporting chemical analyses in some detail. Part 3 in Appendix II is a table presenting trace elements which are commonly found in geothermal water.

Appendix III is made up of a group of work sheets of Stiff diagrams of all data points corresponding to Part 2 of Appendix II. The diagrams are not in order, but each one is numbered in accordance with the master tabulation. These diagrams were used in evaluation of the water chemistry and in the preparation of Plates IV and V.

Also enclosed is a copy of revised Plate VI, which now includes the high arsenic content of the Baca wells in the Redondo Creek area.

Sorry this has taken so long, but I think you appreciate the amount of time involved to bring all these data together.

Sincerely,


John R. Erickson, P.E.

Enclosure
cc: Dick Engebretsen

WATER RESOURCES ASSOCIATES, INC.

P. O. BOX 1991

SCOTTSDALE, ARIZONA 85252

JOHN R. ERICKSON, P.E.

TELEPHONE (602) 947-7474

February 17, 1977

R. O. ENGBRETSSEN
FEB 22 1977


Mr. Dick Engebretsen
Union Oil Company
Union Geothermal Division
Mountain Route Box 76
Jemez Spring, New Mexico 87025

Dear Dick:

Transmitted herewith are eleven copies of our Appendices II and III of the report on Hydrology of the Region Surrounding The Valles Caldera.

One copy was transmitted to Dick Dondanville on February 16. A copy of the letter of transmittal to him is enclosed.

Sincerely,



John R. Erickson, P.E.

Enclosure

APPENDIX II

Basic Data

APPENDIX II

Part 1

Selected Wells, Springs and Surface Water Gaging Stations

Data For Selected Wells, Springs and
 Related Data at Surface Water Gaging Stations
 Jemez Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source of Formation For Water	Temp. °F	Date Sampled	Total Dissolved Solids ppm	Electric Conductivity μmhos	pH	Rate of Flow (gpm)
1	Rio Grande At Albuquerque	Surface			35°05'21"	106°40'48"											
2		Well	12N2E	14.433	35°15'46"	106°42'05"	5602	637	4965		Santa Fe	67	12/12/74	265	367	--	1,000
3		Well	12N2E	25.421	35°14'22"	106°40'42"	5370	373	4997		Santa Fe	55	12/12/74	267	352	7.4	650
4		Well	21N3E	31.134			5200			350	Santa Fe		4/27/65	343	501	7.8	
5		Well	12N3E	30.121	35°14'46"	106°40'06"	5356	420	4936		Santa Fe	61	12/12/74	255	348	7.5	1,000
6		Well	12N3E	24.423			5030			96	Santa Fe		2/26/65	598	878	7.5	
7		Well	12N4E	6.200			5050			--	Santa Fe		1/21/65	457	666	7.5	
8		Well	12N4E	5.214			5040				Santa Fe	81	9/25/74	421	642	--	
9		Well	13N3E	18.31			5733			10,000		90	8/26/72	2,460	3,140	9.5	
10	Jemez River Below Jemez Canyon Dam	Surface	13N4E	5.1	35°23'24"	106°32'03"											
	"	Surface			35°23'10"	106°31'45"	5100										
		Well	13N4E	1.234			5580				Santa Fe	78	9/25/74	548	749	6.6	
		Well	13N4E	1.412			5100				Santa Fe	67	9/25/74	780	1,050	--	
13A		Well	13N4E	1.421			5100				Santa Fe	71	9/25/74	1,420	1,880	6.4	
14		Well	14N5E	19.221			5150			98	Santa Fe		2/4/65	(691)	1,020	7.5	
15	San Ysidro Group	Spring	15N1E	8.32			5540				Wingate-Chinle	86	9/15/24	10,960	(16,800)	--	
16	Indian Springs	Spring	15N1E	9.2			5580				Penn Rocks	95	8/30/62	3,470	5,680	8.0	
17		Well	15N1E	16.233			5530				Chinle	64	10/18/74	--	20,000	--	
18	San Ysidro Group	Spring	15N1E	10.14			5530				Chinle	68	9/15/24	7,320	11,200	--	
18A		Spring	15N1E	10.310			5530				Chinle	63	5/2/73	6,650	9,950	6.5	
19		Well	15N2E	22.400			5500			335	Santa Fe		2/27/65	330	519	7.6	
20		Well	15N2E	12.431			5750				Santa Fe	63	4/4/74	332	490	7.9	
21		Well	15N5E	13.330			5170			82	Santa Fe		1/21/65	(872)	1,190	7.3	
22		Spring	16N1W	29.230			5830				Chinle	70	6/5/73	7,260	10,100	8.5	2
23		Spring	16N1W	1.421			6020				Chinle	126	6/5/73	11,100	15,700	6.8	85
24		Spring	16N1E	6.321			6360				Chinle	79	10/2/73	599	960	7.9	
25	Hot Well	Well	16N1W	1.243			6021					129	3/16/64	11,000	15,300	7.3	
26	Kaseman Well	Well			35°37'04"	106°52'54"	5900			550		115	9/29/24	11,120	--	--	2,450
27	Penasco Spring	Spring	16N1E	20.32			6000					70	9/14/24	7,510	(11,500)	--	
28	Log Spring	Spring	16N1E	5.244			7175				Pre-cambrian		5/23/73	310	487	7.6	
29		Spring	16N1E	3.441			7000				Abo		5/23/73	418	651	7.6	
30		Spring	16N1E	25.244			5700				Chinle		8/5/73	1,840	2,440	6.4	2
31		Spring	16N2E	30.313			5600				Alluvial	66	9/5/73	2,350	3,190	7.0	
32		Spring	16N2E	20.332			5540				Chinle	59	5/24/73	4,150	6,420	6.4	
33		Spring	16N2E	18.214			5860				Abo	66	5/24/73	674	1,070	7.0	
34	Owl Spring	Spring	16N2E	7.441			5780				Penn Rocks		5/1/53		1,270		32
		Spring	16N2E	7.432			5850				Madera	61	5/24/73	482	788	7.3	
		Well	16N2E	16.411			5580			81	Alluvial		1/19/65	589	946	7.6	

Data For Selected Wells, Springs and
 Related Data at Surface Water Gaging Stations
 Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth to Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. °F	Date Sampled	Total Dissolved Solids ppm	Electric Conductivity µmhos	pH	Rate of Flow (gpm)
36		Spring	16N2E	29.142			5490				Alluvial	73	8/30/73	3,780	5,694	8.0	
37	Jemez Pueblo Well	Well	16N2E	16.444			5600			82			1967		980		
38		Spring	16N2E	16.411			5540				Alluvial	68	8/30/73	628	1,014	8.0	
39																	
40		Spring	16N2E	10.424			5720				Chinle	77	5/24/73	1,570	2,550	7.6	
41		Spring	16N2E	11.234			5750				Chinle	57	5/25/73	324	527	7.7	
42	Ojo Chamisa Spring	Spring	16N3E	29.344			6175				Santa Fe		6/8/73	245	367	7.5	
43	Rio Grande Below Cochiti Dam	Surface	16N6E	17.13	35°37'04"	106°19'26"											
44	Ojo del Esperito Santo	Spring			35°41'55"	106°55'46"	6300				Dakota S.S. Alluvial	60	9/22/74				
45		Spring	17N1W	15.34			6250				Dakota S.S.	60	9/22/74	396	--	--	
		Spring	17N1E	23.223			6960				Abo	57	8/31/73	335	549	8.0	
	Rio Guadalupe	Surface			35°43'52"	106°45'44"	6040						11/14/74	164	254	7.9	
48	U.S.G.S. Testhole	Well			35°43'45"	106°45'44"	6050			200	Pre-cambrian	55	11/2/73	284	390	8.0	
49		Spring	17N2E	29.311			6040				Madera	66	8/21/73	638	984	8.0	
50	Jemez School Spring	Spring			35°40'20"	106°45'29"	6000				Perm Rocks		8/21/73	638	100	7.6	
51		Spring	17N2E	6.221			6800				Pre-cambrian	55	11/2/73	292	472	8.2	
52	Jemez River	Surface			35°39'42"	106°44'34"	5640						11/14/74	350	584	7.4	
53		Spring			35°41'13"	106°44'10"	5760				Abo	61	10/20/73	1,960	3,200	8.4	
54		Spring	17N2E	21.144			5760				Alluvial	82	10/5/73	647	1,090	7.5	
55	Abandoned Well	Well			35°42'50"	106°43'10"	5850			128	Permian	61	10/26/73	1,964	2,320	8.4	
55A	Redwood Grove	Well			35°42'50"	106°43'10"	5850	6.5	5843		Alluvial	59	6/8/73	692	1,000	7.6	
56		Spring	17N2E	36.433			5920				Chinle	64	6/6/73	364	571	7.4	
57		Spring	17N3E	16.244			6800					59	10/2/73	205	241	7.2	
58	Vallecitos Creek	Surface	17N3E	16.333			6620						6/8/73	350	370		
59	Paliza Spring	Spring	17N3E	16.220			7000				Alluvial	65	6/8/73	104	190	7.8	
60		Spring	17N3E	24.113			7750					54	9/18/73	159	182	6.8	
61		Spring	17N4E	29.133			7400					55	8/28/73	155	161	7.6	
62		Spring	17N4E	6.443			8273					59	9/28/73	153	179	6.7	
63		Spring	17N4E	8.444			8500					51	8/28/73	161	194	7.5	
64		Spring	18N1E	1.321			7280				Madera	51	10/30/73	365	636	7.2	
65	U.S.G.S. Testhole	Well			35°49'23"	106°47'31"	7250			56	Precambrian	52	10/30/73	398	500	7.2	
66		Spring	18N1E	13.234			7080				Bandelier	55	11/30/73	230	383	7.7	
67		Spring	18N1E	24.443			6960				Bandelier	59	11/30/73	172	212	8.2	
68		Spring	19N3E	32.331			6755				Abo	63	9/24/73	2,080	3,290	8.5	
68A		Spring			35°49'46"	106°38'42"	6755				Madera	65	1/17/73	1,520	2,540	6.7	
68B		Spring			35°49'46"	106°38'42"	6755				Madera	65	5/17/73	814	1,360	6.9	
	Jemez River below East Fork	Surface			35°49'39"	106°38'51"	6720							135	164	7.2	
70	Sino Springs	Spring			35°49'16"	106°40'11"	7560				Limest. & sandst.	70	5/8/73	188	135	7.4	

Date For Selected Wells, Springs and
 Related Data At Surface Water Gaging Stations
 Jemez Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth to Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. (°F)	Date Sampled	Total Dissolved Solids (ppm)	Electric Conductivity (µmhos)	pH	Rate of Flow (gpm)
														(a)	(b)		
71	Jemez River	Surface			35°49'45"	106°39'03"	6750						Many				
72		Spring	18N3E	6.1			6640				Penn Rocks		4/20/50	1,480	2,276		
73		Spring			35°48'23"	106°40'51"	6640				Tuff	48	3/19/73		1,140		16
73A	Russel Springs	Spring	18N3E	6.2	35°48'	106°40'	6640				Penn Rocks	48	3/19/73	984	1,280	7.4	16
74	Agua Durme Spring	Spring			35°48'29"	106°41'54"	7600				Limest. & Sandst.	59	5/8/73	178	130	7.8	
75	Soda Dam Spring	Spring	18N2E	14/13			6380				Magdalena	115	9/23/75	2,400	5,500	6.1	36
75A	Soda Dam Spring	Spring	18N2E	14/13			6380				Magdalena	110	10/20/76	4,200	6,500	7.5	27
76	Jemez River	Surface			35°46'27"	106°42'00"	6240						Many	424	60		
77	Jemez Hot Springs	Spring			35°46'19"	106°40'50"	6200				Penn Rocks Fault	(c)	Many	2,611	3,200	7.5	200
78	Bell Well	Well			35°46'10"	106°41'38"	6180						10/14/54		1,140		
79		Spring	18N2E	34.232			6040				Alluvial	64	9/27/73	626	1,030	7.5	
80	Morgan Well	Well			35°44±	106°43'±	6020			16		64	9/27/73	634	6,000	8.1	
81	U.S.G.S. Testhole	Well			35°45'±	106°42'29"	6150			155	Permian Rocks	63	10/24/73	2,190	2,500	8.2	
82		Spring	18N2E	26.334			6200				Abo	62	10/26/73	2,170	3,210	7.6	
83	Jemez River	Surface			35°46'05"	106°41'36.1"	6160						1/29/74	480	807	7.8	
84	San Diego Canyon	Spring			35°46'18"	106°41'26"					Alluvial		1/25/74				
84A		Spring			35°46'13"	106°41'32"	6160				Madera	120	5/18/73	2,140	3,550	6.7	
85	Via Coeli Well	Well			35°46'41"	106°41'16"	6280				Alluvial	62	10/14/54	625	925	7.3	
85A		Well			35°46'14"	106°41'29"	6280				Madera	136	5/30/74	1,960	3,460	7.1	
86		Well	18N2E	24.211	35°46'04"	106°41'36"	6160				Madera	63	5/28/74	580	1,340	8.0	
87	Church Canyon Sprg.	Spring	18N3E	18.144			7660				San Andres Glorietta		1/20/65	178	184	7.5	
88		Spring			35°48'08"	106°40'50"	6446				Madera	61	6/21/73	856	1,380	8.2	
89	Russel Well	Well			35°48'40"	106°40'17"	6560				Alluvial		6/1/73	402	580	7.6	
90		Well	18N3E	6.321			6750				Madera	60	7/13/73	952	1,430	6.6	
91		Well	18N3E	6.143	35°49'15"	106°39'43"	6640				Madera		7/18/74	393	560	7.3	
92	U.S.G.S. Testhole	Well	18N3E	5.1			6850			52	Penn Rocks	59	10/24/73	2,258	2,500	7.4	
92A	Camp Shaver Well	Well	19N3E	32.34			6800	20	6780	40	Alluvial		5/8/73	134	140	7.1	
93		Well	18N3E	4.321			7240				Valles Rhyolite		1/16/73	149	165	8.0	
93A		Well	18N3E	4.321			7240				Valles Rhyolite	88	12/13/74	179	255		
94	McCauley Spring	Spring	18N3E	4.144			7550				Lava flow & Tuff	89	10/10/76	(a)	162	(d)	(e)
95	East Fork	Surface	18N3E	2.122			7950						9/23/72	58	95		
96		Spring	18N3E	22.412			8190					50	9/18/73	161	187	7.1	
97	East Fork	Surface	18N4E	4.334			8510						9/23/72	96	90		
98	Santa Fe County	Well			35°49'26"	106°17'54"	7130			5971							
99	Santa Fe County	Well			35°49'20"	106°17'00"	7000			5934							
00	Santa Fe County	Well			35°48'48"	106°17'00"	6800			5934							
01		Spring			35°48'49"	106°10'53"	5460										
02		Spring			35°48'24"	106°11'00"	5500										

(a) 120 to 180
 (b) 140 to 180

(c) 93 to 169
 (d) 7.8 to 8.3

(e) 542 to 396

Data For Selected Wells, Springs and
Related Data At Surface Water Gaging Stations
Jemez Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. °F	Date Sampled	Total Dissolved Solids (ppm)	Electric Conductivity umhos	pH	Rate of Flow (gpm)
103		Spring	18N7E	9.422									5/11/73				
104		Spring			35°48'36"	106°10'35"	5520										
105		Spring			35°46'47"	106°12'17"	5400										
106		Spring	18N7E	20.312			5480				Totavi Puye*						50
106A		Spring	18N7E	20.312			5480				Puye*		9/28/65	(135)	132	7.3	
107		Spring			35°46'21"	106°13'13"	5380										
108		Spring			35°46'02"	106°14'15"	5660										
109	Rio del Las Vacas	Surface	19N1E	2.122			7800										
110	Spring Canyon	Spring			35°52'38"	106°44'54"	7710				Bandelier Tuff	55	9/13/73	130	105	7.3	16
111	Testhole Fenton Lake	Well	19N2E	10.322			7800			88	Abiquiu Tuff		10/9/73	164	160	7.0	
112	Fenton Lake	Surface	19N2E	9.444			7674										
113	Lakefork Canyon	Spring			35°51'52"	106°43'10"	7790				Bandelier Tuff		8/24/73	143	140	7.8	
114	Battleship Rock	Spring	19N3E	32.3			6750				Upper Madera	66	11/17/73	1,528	2,000	6.9	16
14A	Shaver Spring	Spring	19N3E	32.344			6750					58	10/15/71	2,362	2,940	7.0	
115		Well	19N3E	32.331			6960				Madera		3/21/74	728	1,210	6.9	
115A		Well			35°49'46"	106°38'46"	6960				Madera	61	8/15/73	1,130	1,800	6.8	
115B		Well			35°49'49"	106°38'56"	6960			155	Madera	59	10/24/73	2,260	3,250	6.8	
115C		Well	19N3E	32.324			6960				Madera	57	5/25/73	2,500	3,660	8.2	
116	Forest Service	Well	19N2E	24.213			8263	161.7	8101	210			10/21/76				
117	LASL Well D	Well	19N2E	10.422			7900	60.9	7839	500	Bandelier Abo	48	1/22/73				
118	Barley Springs	Spring	19N2E	10.411			7760				Alluvial	48	1/23/73	188	120	6.7	
119	GT-1 Well	Well	19N2E	1.444			8475			3575		212					
120	GT-2 Well	Well	19N2E	12			8690	1750	6940	6346	Sandia Madera	133	3/18/74	2,500	(a)		
121		Well			35°52'54"	106°40'12"	8685				Madera		4/23/73	16,800	22,900	8.8	
121A		Well			35°52'54"	106°40'12"	8685			3557	Precambrian	169	5/3/74	9,380	18,100	7.7	
121B		Well			35°52'54"	106°40'12"	8685				Precambrian		7/17/74	1,730	2,720	7.2	
122	Hazlett Well	Well	19N3E	20.14			7640	30	7610	80	Alluvial	48	6/8/73	204	220	7.5	
123		Well	19N3E	20.331			8000				Bandelier	47	5/31/73	151	166	7.9	
124		Spring	19N3E	29.342			7600				Abo	63	6/29/73	933	1,470	8.5	
124A		Spring	19N3E	29.413			7500				Abo	70	7/3/73	1,160	1,780	8.4	
125	USGS Battleship Rock	Well	19N3E	32.3334			6840	43.4	6797				10/20/76				
125A	" Upper Fm	Well	19N3E	32.3334			6840	69.4	6771				10/20/76				
125B	" Lower Fm	Well	19N3E	32.3334			6840	31.6	6808				10/20/76				
126	Jemez River below Jemez Spring	Surface			35°49'39"	106°38'51.1"	6800						11/14/74	144	176	7.7	
126A	East Fork	Surface	18N3E	5.1222			6800						9/23/72	104	110		
127	San Antonio Creek	Surface	19N3E	32.0			6800						9/23/72	206	170		
28	Spence Spring	Spring	19N3E	28.312			7325				Rhyolite Lava	105	10/20/76	(b)	280	(c)	(d)
29		Spring	19N3E	20.1			7750				Cenozoic Volc.	61	4/30/73	210	130	7.4	
130	Horseshoe Springs	Spring	19N3E	18.233			7960						10/13/71	264	230	8.0	
130A		Spring	19N3E	18.233			7960						11/23/72	299	230	7.6	

(a) 12,800
21,900
2,920

(b) 200 to 300
(c) 7.8 to 8.3
(d) 6.8 to 6.9

*Totavi Puye and Puye are members of the Santa Fe Group.

Data For Selected Wells, Springs and
 Related Data At Surface Water Gaging Stations
 Mesquite Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude Of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. °F	Date Sampled	Total Dissolved Solids (ppm)	Electric Conductivity µmhos	pH	Rate of Flow (gpm)
131	Hofein Fire Prot.	Well	19N3E	17.330a			7800	45.46	7754	209			6/21/76				
131A	Hofein Sub Artesian	Well	19N3E	17.330			7800	3.82	7796	68			10/21/76				
132	Hofein Artesian	Well	19N3E	17.342			7680			95	Alluvial	66	10/21/76	(a)		(b)	40±
133	LASL Well A	Well	19N3E	18.321			8450	485.5	7934	590	Abo	88	5/24/73				
134	LaCueva Spring	Spring	19N3E	17.34			7750				Alluvial		6/8/73	230	180	7.4	
134A	Laudermilk Spring	Spring	19N3E	17.344			7680					48	10/15/71	209	180	7.6	
134B		Spring	19N3E	17.431			7680				Battleship Rock	68	8/14/73	599	912	7.5	
135	Eckert Well	Well	19N3E	17.1134			7800	103.25	7697	180			10/21/76				
135A	Brown's Cabin	Well	19N3E	17.11			7800				Alluvial		6/5/73	322	380	7.2	
136	Glass Well	Well	19N3E	4/5			8600	174.6	8425	190			10/20/76				
137		Spring	19N3E	4.000			8600				Mesa Verde	178	7/21/67	4,240	17,300	1.4	
138	San Antonio Campground	Well	19N3E	8.33			7750	100									
139	San Antonio Creek	Surface	19N3E	17.0			7670						9/23/72	164	130		
140	Sulphur Creek	Surface	19N3E	17.44			7680						9/23/72	700	662		
141	Sulphur Creek	Surface	19N3E	20.2213	35°52'10"	106°38'14"	7640						10/15/71	850	1,165	3.5	
142	Redondo Creek	Well	19N3E	20.444	35°51'35"	106°36'14"	8050	3	8047	75	Volcanic Debris		6/5/73	294	320	7.5	
143	Redondo Creek	Surface			35°51'54"	106°35'55"	8190					55	10/15/71	157	176	7.5	
144	USFS Redondo Well	Well	19N3E	16.4342			7850	2.9	7847								
145	Sulphur Springs	Spring			35°54'04"	106°36'	8420					97					
146	Baca #1 Well	Well			35.9168°	106.5350°	8697.3										
147	Baca #16 Well	Well			35.9037°	106.5688°	9622		8347								
148	Baca #11 Well	Well			35.8950°	106.5760°	9064.9		8243								
149	Baca #15 Well	Well			35.8946°	106.5803°	9117.1										
150	Baca #6 Well	Well			35.8880°	106.5823°	8725.7		8294								
151	Baca #9 Well	Well			35.8825°	106.5868°	8604.8		8275								
151A	Baca #14 Well	Well			35.8825°	106.5865°	8605		8275								
152	Baca #12 Well	Well			35.8737°	106.5898°	8429.8		8200								
153	Baca #5 Well	Well			35.8777°	106.5783°	9289.5		8316								
154	Baca #10 Well	Well			35.8863°	106.5853°	8734.5		8243								
155	Baca #4 Well	Well			35.8892°	106.5705°	9318		8263								
156	Baca #13 Well	Well			35.8966°	106.5655°	9291.7		8344								
157	Jaramillo Head Spg.	Spring			35°53'55"	106°33'00"	9320					42	10/15/71	131	107	6.3	
158	Redondo Head East	Spring			35°53'36"	106°33'58"	9480							50	67	7.0	
159	Jaramillo Creek	Surface			35°54'47"	106°30'22"	8772					41	10/15/71	94	67	7.5	
160	Cerro Pinon Spring	Spring			35°53'40"	106°29'40"	8630					44	10/15/71	89	88	7.0	
161	San Antonio Head	Spring	20N4E	14.424			8630				Alluvial						
162		Well	19N4E	26.222			8491	+23	8514	589	Caldera Fill		10/26/49	165	157		

(a) 460 to 500
 (b) 7.7 to 8.0

Data For Selected Wells, Springs and
 Selected Data At Surface Water Gaging Stations
 Pajarito Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. F	Date Sampled	Total Dissolved Solids (ppm)	Electric Conductivity μ mhos	pH	Rate of Flow (gpm)
163	Valle Grande H-10	Well			35°51'11"	106°28'45"	8490			1184	Caldera Fill	54	10/26/49	165	160		Flows
164	East Jemez Creek	Surface			35°50'55"	106°29'37"	8475							90	79	8.5	
165	Wet Weather Creek	Surface			35°50'12"	106°29'32"	8580							108	132	7.0	
166	American Springs	Spring	19N5E	35.144			8280				Tshirege						5
167	Valle Grande H-7	Well			35°51'52"	106°27'29"	8510			590	Caldera Fill	63	11/12/49	125	90		Flows
167A	Valle Grande H-2	Well			35°51'52"	106°27'29"	8510			to	Caldera Fill	61	10/26/49	142	110		Flows
167B	Valle Grande H-5	Well			35°51'52"	106°27'29"	8510			1184	Caldera Fill	57	10/26/49	142	125		Flows
168	Valle Grande #7	Well	19N5E	19.134			8740		8740			64	10/22/76	(a)		(b)	6.6
169		Spring	19N5E	18.430			8520				Valles Rhyolite		6/20/50	108	84		900
169A	South Medio Spring	Spring	19N5E	18.443			8523					46	10/15/73	127	104	7.4	
170		Spring	19N4E	12.341			8726				Valles Rhyolite						5
171	S.W. Medio Spring	Spring			35°53'19"	106°28'16"	8726					40	10/15/71	109	88	7.2	
172		Spring	19N4E	2.114			8750				Valles Rhyolite		6/20/50				5
172A	West Medio Spring	Spring			35°54'27"	106°39'06"	8680					42	10/15/71	111	77	7.7	
173		Well	19N5E	19.133			8506	+11	8517	595	Caldera Fill		10/26/49	142	126		
173A		Well	19N5E	19.134a			8506	+11	8517	595	Caldera Fill		10/26/49	142	109		
174		Well	19N5E	19.134			8506	+10	8516	1185	Caldera Fill		6/20/50	121	94		
175	Valle Grande #12	Well	19N5E	19.424			8760	16	8744	634			10/22/76				
176	Valle Grande Ent. Spring	Spring			35°51'14"	106°27'10"	8606					52	10/15/71	94	68	7.7	
177	East Fork	Surface			35°54'34"	106°25'15"	8900						6/20/50	108	85		
178		Spring	19N5E	12.143			8000				Talus & Alluv.						20
179		Spring	19N5E	14.431			8660				Talus & Alluv.						25
180		Spring	19N5E	25.111							Tshirege*						4
180A		Spring	19N5E	26.221			8240				Talus & Alluv.						4
181	Armstead Spring	Spring	19N5E	26.332			8216				Tschicoma*						2
182		Spring	19N5E	25.333			8000				Tshirege*						90
183	Santa Fe County	Well	19N6E	8.233	35°52'45"	106°19'24"	7450		1208								
184		Spring	19N6E	9.441			6960				Puye*		9/23/65	(229)	370	7.2	
185	Santa Fe County	Well	19N6E	9.443	35°53'16"	106°18'16"	7400		1077								
186	Santa Fe County	Well	19N6E	14.223	35°53'02"	106°16'10"	6640		1886								
187	Santa Fe County	Well	19N6E	13.433	35°52'24"	106°15'27"	6640		1870								
187A		Well	19N6E	13.344			6640			815	Totavi Puye*		9/23/65	(123)	194	7.4	
188		Well	19N6E	24.324	35°51'43"	106°15'48"	6640	750	1890	2552							
189		Well	19N6E	23.411	35°51'49"	106°16'28"	7000		1907								
190	PM-2	Well			35°50'11"	106°14'33"	6715	850	1865	2300							
191	PM-1	Well	19N7E	20.331	35°51'34"	106°13'31"	6520	740	1780	2499	-						
192	Santa Fe County	Well	19N7E	20.221	35°52'12"	106°12'59"	6380		1778								

(a) 118 to 164
 (b) 7.7 to 8.1

*Tschicoma Formation is in the Tewa Group
 Tshirege is a member of the Bandelier Tuff
 Puye and Totavi Puye are members of the
 Santa Fe Group

Data For Selected Wells, Springs and
 Related Data At Surface Water Gaging Stations
 Mountains, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude of Water Level (ft)
193	G-4	Well	19N7E	5.231	35°54'32"	106°13'11"	6228	390	5838
194	G-6	Well	19N7E	6.214	35°54'36"	106°14'07"	6422	580	5842
195	G-5	Well	19N7E	5.112	35°54'51"	106°13'35"	6306	450	5856
196	G-3	Well	19N7E	4.133	35°54'36"	106°12'37"	6139	345	5794
197	G-1A	Well	19N7E	4.441	35°54'10"	106°12'02"	6014	305	5709
197A	G-2	Well	19N7E	4.411	35°54'16"	106°12'12"	6054	390	5714
198	G-1	Well	19N7E	4.444	35°54'01"	106°11'47"	5973	280	5693
199	LA-1	Well	19N7E	13.114	35°53'00"	106°09'19"	5624	50	5574
199A	LA-1B	Well	19N7E	13.112	35°53'01"	106°09'19"	5622	25	5597
199B	LA-2	Well	19N7E	14.222	35°55'02"	106°09'37"	5651	100	5561
199C	LA-3	Well	19N7E	14.221	35°33'08"	106°09'46"	5672	75	5597
199D		Well	19N7E	36.314			5550	Flows	
200	LA-5	Well	19N7E	15.434	35°52'27"	106°10'42"	5840	160	5680
201	LA-6	Well	19N7E	14.312	35°52'38"	106°10'18"	5770	115	5655
201	LA-4	Well	19N7E	22.114	35°52'08"	106°11'29"	5975	285	5690
202		Spring	19N7E	22.131			5980		
202A		Spring	19N7E	22.131			5980		
203	Santa Fe County	Well	19N7E	1.444	35°54'03"	106°08'34"	5620		5510
204	Rio Grande at Otowi Bridge	Surface	19N8E	18.33	35°52'29"	106°08'30"			
205		Well	20N1E	6.233			7800		
206	Rio del Las Vacas	Surface	20N1E	1.3			8050		
207	Calaveras Spring	Spring	20N2E	27.111			8160		
207A		Spring	20N2E	27.222			8160		
208	Calaveras Campground	Spring	20N2E	27.443			8000		
209	USFS Spring	Spring	20N3E	24.14			8175		
210	LASL Well B	Well	20N3E	31.123			8625	453.8	8156
211	LASL Well C	Well	20N3E	9.343			8700	315.6	8384
212	Seven Springs	Spring	20N3E	18.322			8400		
213	San Antonio Hot Springs	Spring	20N3E	29.124			8380		
213A		Spring	20N3E	29.123			8380		
214	West San Antonio Sp.	Spring			35°59'10"	106°35'39"	8440		
215	San Antonio Creek	Surface			35°57'36"	106°29'30"	8540		
216	San Antonio Creek	Surface			35°59'52"	106°36'56"	8340		
217	Baca #7	Well			35.9372°	106.5912°	8724.4		8275
218	Sulphur Creek Steam Hole	Well			35°55'09"	106°36'06"	8500		
219	Sulphur Creek	Surface			35°54'58"	106°36'20"	8400		
220	Baca #2	Well			35.9173°	106.6017°	8500.5		
221	Sulphur Springs	Spring			35°55'00"	106°35'01"	8640		

Depth Of Well (ft)	Source Formation For Water	Temp: (°F)	Date Sampled	Total Dissolved Solids	Electric Conductivity (µmhos)	pH	Rate of Flow (gpm)
1940	Santa Fe						
1530							
1840	Santa Fe						
1792	Santa Fe						
1519							
1970	Santa Fe						
2000	Santa Fe						
870	Santa Fe						
1750							
870	Santa Fe						
870	Santa Fe						
		63	9/19/51	173	251		
1750	Santa Fe						
1790	Santa Fe						
1965	Santa Fe						
	Basalt	52	9/23/65	(183)	292	7.1	
	Basalt	52	9/23/65	(183)	292	7.1	
			10/17/73				
	Abo	51	8/5/74	344	580	7.2	
	Bandelier Tuff	54	1/17/73	102	95	7.4	32
	Bandelier Tuff	55	5/22/73	99	105	7.4	
	Bandelier Tuff	57	1/17/73	102	80	7.2	32
	Bandelier Tuff	48	9/23/73	150	105	7.3	
650	Tschicoma Abo	87	5/24/73				
750	Abiquiu Abo	64	1/22/73	138	200	8.6	
	Bandelier Tuff	48	1/17/73	114	90	7.5	
	Lava Flow & Tuff	105	10/27/76	(a)	120	(b)	(c)
	Valles Rhyolite	105	5/16/73	150	122	7.7	
				168	94	8.0	
			10/16/49	105	80		
			10/15/71	152	220	8.5	
	Caldera Fill		6/13/63	2,970	2,225	8.0	
			10/22/49	1,800	2,270		

Data For Selected Wells, Springs and
 Related Data At Surface Water Gaging Stations
 : Mountains Area, New Mexico

Data Number	Name	Type	Township & Range	Section	Latitude	Longitude	Land Surface Altitude (ft)	Depth To Water (ft)	Altitude of Water Level (ft)	Depth of Well (ft)	Source Formation For Water	Temp. °F	Date Sampled	Total Dissolved Solids (ppm)	Electric Conductivity umhos	pH	Rate of Flow (gpm)
222	Baca #8 Well	Well			35° 9'17.3"	106° 58'98"	8631.3										
223	Pipeline Seep	Spring			35° 58'45"	106° 33'52"	8500				Alluvial	55	10/15/71	197	164	7.5	
224	San Antonio Warm Spring	Spring	20N4E	18.111	35° 58'18"	106° 33'44"	8440					99		(a)		(b)	
225																	
226	Puerto D'Abringo	Spring			35° 55'34"	106° 27'26"	8820					36	10/15/71	113	81	7.0	
227	San Antonio Creek	Surface	20N4E	14.433									6/20/50	108	86		
228		Spring	20N4E	14.300			8560				Valles Rhyolite		7/6/49	98	80		800
229		Well	20N4E	14.443			8603	8	8595	285	Caldera Fill		10/16/49	90	85		
230		Well	20N4E	24.213			8643	+39		405	Caldera Fill		10/16/49	123	107		
230A	Valle Toledo #1	Well	20N4E	24.214			8680		8680			58.5	10/22/76	(c)		(d)	
231	Valle Toledo H-6	Well			35° 56'45"	106° 37'24"	8720			650	Caldera Fill	63	10/16/49	124	100		
232		Well	20N5E	19.333			8720	+20		444	Caldera Fill	54	10/16/49	124	100		
233	Valle Toledo #6	Well	20N5E	19.333			8750		8750	444		52		(c)		(f)	10.3
233A	Valle Toledo H-4	Well			35° 57'29"	106° 29'	8609			285	Caldera Fill	64	10/16/49	90	85		Flows
233A		Well	20N4E	24.214			8650	+36		652	Caldera Fill	62	7/27/49	143	122		
233B	Big Well Toledo	Well			35° 57'27"	106° 28'45"	8609					53	10/15/71	94		8.2	
234	Valle Toledo H-3	Well			35° 57'25"	106° 28'	8650				Caldera Fill	63	10/16/49	125	110		
235	Valle Toledo H-2	Well			35° 57'25"	106° 28'	8650				Caldera Fill	55	10/16/49	111	85		
235A	Valle Toledo H-1	Well			35° 57'25"	106° 28'	8650				Caldera Fill	46	7/6/49	103	80		
236		Spring	20N5E	26.113			8850				Tshirege						25
237		Spring	20N5E	26.311			8840				Tshirege						40
238		Spring	20N5E	35.433			8660				Talas						15
239	Rio Arriba County	Well	20N7E	17.111	35° 58'17"	106° 13'37"	6840		5920								
240	Rio Arriba County	Well	20N7E	25.441	35° 55'53"	106° 08'36"	5800		5715								
241	Rio Arriba County	Well	20N8E	3.324	35° 59'32"	106° 04'48"	5590		5570								
242		Spring	21N1W	14.421			7400				Alluvial		1/7/65	358	539	8.0	
243		Well	21N2E	14.433			8800				Abo	51	6/19/74	332	570	7.1	
244	Rio Chama near Chamita	Surface			36° 04'26"	106° 06'40"											
245		Well	22N3E	22.111			7400				Chinle	52	3/7/74	263	430	7.4	
246		Spring	22N5E	6.324			6817				Tewa	61	6/19/74	112	120	6.8	
247	Agua Caliente	Spring			36° 12'	106° 20'	6884					50	10/15/71	188	147	8.0	
247A		Well	22N5E	1.322	36° 09'57"	106° 21'19"	6884				Tewa	64	3/7/74	124	141	7.8	
248	Rio Chama Below Abiquiu Dam	Surface	23N5E	8.44	36° 14'12"	106° 24'59"											
249		Well	23N5E	15.212			6140				Morrison		3/7/74	2,390	3,190	7.5	

(a) 182 to 253
 (b) 7.7 to 7.8

(c) 85 to 106
 (d) 7.7 to 8.0

(e) 88 to 158
 (f) 7.3 to 8.1

APPENDIX II

Part 2

Water Quality Data

WATER QUALITY DATA
Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻	Cl ⁻	TDS	Ec	pH	Temp °F
1												
2		18.0	3.5	53.0	5.0	127.0	43.0	6.8	265.0	367	--	67
3		28.0	5.0	36.0	7.6	156.0	35.0	7.3	264.0	352.0	7.4	55
4	4/27/65	57.0	10.0	29.0	--	134.0	58.0	51.0	343.0	501.0	7.8	--
5		31.0	5.9	30.0	6.4	142.0	37.0	7.4	255.0	348.0	7.5	61
6	2/26/65	112.0	17.0	60.0	--	357.0	143.0	22.0	598.0	878.0	7.5	--
7	1/21/65	60.0	11.0	69.0	--	248.0	85.0	37.0	457.0	666.0	7.5	--
8		41.0	6.8	79.0	7.9	200.0	40.0	72.0	421.0	642.0	--	81
9	8/26/72	1.2	0.3	740.0	22.0	334/226	49.0	97.0	2,460.0	3,140.0	9.5	90
10	10/ 9/73	80.0	14.0	330.0	16.0	348.0	290.0	280.0	1,220.0	1,950.0	8.1	54
11	3/10/66	54.0	7.4	175.0	--	274.0	90.0	161.0	662.0	1,110.0	7.6	--
11	6/22/66	79.0	9.5	278.0	15.0	330.0	266.0	228.0	1,070.0	1,720.0	7.5	--
12		65.0	15.0	77.0	11.0	394.0	29.0	35.0	548.0	749.0	6.6	78
13		150.0	22.0	50.0	3.0	193.0	350.0	24.0	780.0	1,050.0	--	67
13A		210.0	51.0	180.0	11.0	514.0	580.0	53.0	1,420.0	1,880.0	6.4	71
14	2/ 4/65	117.0	22.0	88.0	--	388.0	218.0	19.0	691.0	1,020.0	7.5	--
15	9/15/24	494.0	91.0	3,310.0	--	1,969.0	3,401.0	2,500.0	10,960	--	--	86
16		100.0	9.0	--	--	1,280.0	286.0	1,140.0	3,470.0	5,680.0	8.0	95
17		--	--	3,900.0	140.0	--	--	2,800.0	--	20,000.0	--	64
18	9/15/24	368.0	85.0	2,219.0	--	1,757.0	1,712.0	1,940.0	7,320.0	--	--	68
18A	5/ 2/73	300.0	68.0	2,000.0	81.0	1,970.0	1,300.0	1,900.0	6,650.0	9,930.0	6.5	63
19	2/27/65	48.0	9.0	46.0	--	158.0	66.0	36.0	330.0	519.0	7.6	--
20		49.0	1.5	56.0	5.5	228.0	57.0	4.2	332.0	490.0	7.9	63
21	1/21/65	147.0	25.0	92.0	--	205.0	450.0	22.0	872.0	1,190.0	7.3	--
22	6/ 5/73	120.0	9.0	2,400.0	6.6	241.0	4,500.0	580.0	7,760.0	10,100.0	8.5	70
23	6/ 5/73	380.0	61.0	3,500.0	88.0	1,410.0	3,300.0	3,100.0	11,100.0	15,700.0	6.8	126
24	10/ 2/73	77.0	26.0	100.0	5.5	335.0	120.0	82.0	599.0	960.0	7.9	79
25												
26	9/29/74	400.0	73.0	3,450.0	--	1,498.0	3,645.0	2,660.0	11,120.0	--	--	115
27	9/14/74	260.0	70.0	2,400.0	--	1,301.0	1,728.0	2,370.0	7,510.0	--	--	70
28	5/23/73	57.0	13.0	28.0	2.6	217.0	63.0	9.3	310.0	487.0	7.6	60
29	5/23/73	96.0	15.0	24.0	1.7	331.0	72.0	11.0	418.0	651.0	7.6	54
30	9/ 5/73	210.0	37.0	310.0	14.0	171.0	990.0	160.0	1,840.0	2,440.0	6.4	60

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻⁻	Cl ⁻	TDS	Ec	pH	Temp. °F
31	9/ 5/73	270.0	62.0	420.0	26.0	594.0	850.0	410.0	2,350.0	3,190.0	7.0	66
31		292.3	53.5	1,820.0	90.0	1,197.2	1,221.3	1,900.0	6,737.7	9,100.0	6.8	
32	5/24/73	110.0	18.0	1,400.0	63.0	1,320.0	470.0	1,400.0	4,150.0	6,420.0	6.4	59
33	5/24/73	100.0	15.0	120.0	7.3	416.0	91.0	96.0	674.0	1,070.0	7.0	66
34	5/ 1/53	102.0	19.0	144.0	1,220.0	436.0	90.0	133.0	--	1,220.0	--	--
34A	5/24/73	88.0	12.0	69.0	4.1	338.0	55.0	60.0	482.0	788.00	7.3	61
35	1/14/65	68.0	16.0	118.0	--	385.0	49.0	87.0	589.0	946.0	7.6	--
36	8/30/73	110.0	21.0	1,300.0	73.0	1,440.0	270.0	1,200.0	3,780.0	5,694.0	8.0	73
37	1967	59.0	18.0	122.0	--	374.00	44.0	116.0	597.0	980.0	--	--
38	8/30/73	73.0	15.0	120.0	15.0	419.0	40.0	100.0	628.0	1,014.0	8.0	68
40	5/24/73	60.0	11.0	520.0	41.0	788.0	220.0	290.0	1,570.0	2,550.0	7.6	77
41	5/21/73	21.0	4.0	87.0	12.0	281.0	38.0	7.2	324.0	527.0	7.7	57
42	6/ 8/73	31.0	4.0	46.0	3.3	211.0	20.0	3.0	245.0	367.0	7.5	--
44	9/22/74	90.0	12.0	29.0	--	259.0	99.0	4.0	396.0	--	--	60
46	8/31/73	85.0	15.0	11.0	2.0	326.0	26.0	4.4	335.0	549.0	8.0	57
47		40.0	3.4	10.0	2.0	152.0	7.1	2.5	164.0	234.0	7.9	37
48	11/ 2/73	50.0	12.0	37.0	--	216.0	--	10.0	284.0	390.0	8.0	55
49	8/21/73	32.0	5.7	190.0	8.2	366.0	120.0	49.0	638.0	984.0	8.0	66
50	8/21/73	30.0	8.0	185.0	--	296.0	--	48.0	660.0	780.0	7.8	--
51	11/ 2/73	50.0	9.9	38.0	4.9	263.0	25.0	5.9	292.0	472.0	8.2	55
52		48.0	5.1	60.0	9.8	203.0	15.0	71.0	350.0	584.0	7.4	39
53	10/26/73	7.2	2.7	790.0	7.4	1,470.0	97.0	300.0	1,960.0	3,200.0	8.4	61
54	10/ 5/73	78.0	14.0	120.0	16.0	362.0	52.0	130.0	647.0	1,090.0	7.5	82
55	10/26/73	6.0	7.0	600.0	--	1,156.0	--	290.0	1,964.0	2,320.0	8.4	61
55A	6/ 8/73	85.0	18.0	128.0	--	284.0	--	176.0	692.0	1,000.0	7.6	59
56	6/ 6/73	63.0	14.0	37.0	3.7	218.0	87.0	11.0	364.0	571.0	7.4	64
57	10/ 2/73	27.0	5.8	14.0	2.1	129.0	9.8	7.9	205.0	241.0	7.6	59
58	6/ 8/73	48.0	11.0	37.0	--	188.0	--	6.0	350.0	370.0	--	--
59	6/ 8/73	26.0	10.0	12.0	--	108.0	--	6.0	104.0	190.0	7.8	--
60	9/18/73	19.0	5.9	7.3	5.9	91.0	17.0	2.4	159.0	182.0	6.8	54
61	8/28/73	15.0	4.2	13.0	1.8	97.0	4.9	2.5	155.0	161.0	7.6	55
62	9/18/73	18.0	5.1	7.5	7.0	79.0	16.0	3.6	153.0	179.0	6.7	59
63	8/28/73	20.0	5.9	7.0	5.5	88.0	22.0	3.7	161.0	194.0	7.5	51
64	10/30/73	100.0	11.0	14.0	5.8	367.0	21.0	13.0	365.0	636.0	7.2	51
65	10/30/73	101.0	14.0	14.0	--	300.0	--	16.0	398.0	500.0	7.7	52
66	11/30/70	66.0	4.6	9.1	1.6	238.0	6.5	2.4	230.0	383.0	7.7	55

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻	Cl ⁻	TDS	Ec	pH	Temp. °F
67	11/30/73	28.0	3.2	11.0	1.6	116.0	7.3	3.7	172.0	212.0	8.2	59
68	9/24/73	19.0	44.0	720.0	66.0	1,550.0	150.0	120.0	2,080.0	3,290.0	8.5	63
68A		140.0	13.0	390.0	51.0	761.0	32.0	470.0	1,520.0	2,540.0	6.7	66
68B	5/17/73	96.0	8.7	180.0	26.0	490.0	38.0	180.0	814.0	1,360.0	6.9	65
69	5/ 5/65	12.0	2.4	8.3	2.8	48.0	16.0	2.8	104.0	124.0	7.1	--
69	3/ 5/66	16.0	2.4	18.0	--	74.0	21.0	4.4	146.0	185.0	7.0	--
69	6/16/66	17.0	2.3	18.0	2.9	91.0	10.0	7.1	153.0	183.0	7.2	--
70		16.0	6.0	12.0	--	88.0	3.0	6.0	188.0	135.0	7.4	70
71	4/ 1/71	16.0	9.0	14.0	--	64.0	--	<1.0	120.0	145.0	--	--
71	11/11/71	16.0	4.0	17.0	--	72.0	--	4.0	158.0	140.0	--	--
71	5/10/71	14.0	6.0	18.0	--	72.0	--	4.0	132.0	155.0	--	--
71	9/23/72	18.0	4.0	17.0	--	76.0	--	6.0	126.0	155.0	--	--
71	10/ 4/72	14.0	6.0	19.0	--	72.0	--	4.0	144.0	150.0	--	--
71	8/ 8/73	19.0	3.0	4.0	--	72.0	--	8.0	126.0	180.0	--	--
71	Avg.	15.0	2.4	16.0	--	73.0	15.0	4.4	137.0	164.0	--	--
71	Max.	20.0	3.0	21.0	--	90.0	36.0	7.8	158.0	207.0	--	--
71	Min.	12.0	1.7	8.3	--	21.0	7.6	0.6	98.0	88.0	--	--
72	4/20/50	313.0	30.0	--	--	872.0	196.0	6.0	1,480	--	--	--
73	3/19/73	174.0	22.0	59.0	--	640.0	--	12.0	922.0	1,140.0	7.5	48
73A	3/19/73	157.0	31.0	105.0	--	752.0	--	140.0	984.0	1,280.0	7.4	39
74		18.0	5.0	13.0	--	88.0	3.0	6.0	178.0	130.0	7.8	59
75	10/20/76	193.0	16.5	990.3	182.2	951.0	42.0	--	2,436.0	--	7.0	103
75	6/28/49	327.0	27.0	--	--	1,400.0	51.0	1,080.0	3,060.0	5,160.0	6.8	97
75	6/28/49	344.0	29.0	--	--	1,580.0	42.0	1,500.0	3,880.0	6,520.0	6.9	--
75	1/16/73	299.0	24.0	940.0	--	1,236.0	36.0	1,450.0	3,962.0	5,000.0	6.7	115
75	8/21/24	328.0	23.0	1,000.0	--	1,440.0	70.0	1,320.0	3,458.0	--	--	104
75		320.0	16.0	850.0	--	1,200.0	38.0	1,480.0	4,000.0	5,900.0	--	115
75		328.3	14.6	930.0	180.0	1,158.8	41.2	1,480.0	4,256.2	5,770.0	7.0	110
75	4/ 6/76	159.0	21.1	1,140.0	144.3	966.0	39.9	--	3,580.0	--	7.6	101
75	11/ 6/75	312.6	30.6	991.0	186.2	1,150.0	38.4	--	3,870.0	--	7.5	--
76	9/23/72	43.0	5.0	69.0	--	164.0	--	106.0	424.0	600.0	--	--
77		1,121.0	15.1	650.0	110.0	599.8	51.4	940.0	2,611.8	3,200.0	7.5	157
77	4/15/47	18.0	6.0	12.0	--	94.0	15.0	4.0	1,530.0	1,840.0	--	--
77		47.0	14.0	14.0	--	228.0	15.0	4.0	2,700.0	3,510.0	--	--
77		138.0	7.0	572.0	--	735.0	49.0	795.0	2,150.0	3,560.0	7.2	159
77	4/ 3/56	136.0	10.0	618.0	--	716.0	44.0	870.0	2,190.0	3,860.0	6.7	192

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻	Cl ⁻	TDS	Ec	pH	Temp. °F
77	1/16/73	126.0	7.0	650.0	--	600.0	42.0	900.0	2,364.0	300.0	7.2	156
77	8/21/74	166.0	9.0	645.0	--	791.0	42.0	820.0	2,184.0	--	--	125
78	10/14/54	117.0	17.0	--	--	465.0	81.0	106.0	--	1,140.0	--	--
79	9/27/73	75.0	13.0	120.0	19.0	387.0	21.0	120.0	626.0	1,030.0	7.5	64
80	9/27/73	70.0	14.0	92.0	--	308.0	--	116.0	634.0	1,000.0	8.1	64
81	10/24/73	14.0	13.0	600.0	--	1,292.0	--	200.0	2,190.0	2,500.0	8.2	63
82	10/26/73	12.0	10.0	860.0	8.5	1,640.0	250.0	200.0	2,170.0	3,210.0	7.6	62
83		51.0	4.7	98.0	17.0	230.0	17.0	120.0	480.0	807.0	7.9	48
(84)	8/31/74	303.0	33.0	157.0	--	0	6,156.0	54.0	7,887.0	--	--	110
(84)	8/31/74	316.0	51.0	127.0	--	0	3,159.0	1.0	4,344.0	--	--	76
(84)	8/31/74	41.0	16.0	52.0	--	0	2,337.0	20.0	2,562.0	--	--	99
84A	5/18/73	170.0	9.2	550.0	68.0	800.0	49.0	800.0	2,140.0	3,550.0	6.7	120
85	10/14/54	93.0	12.0	--	--	370.0	28.0	129.0	--	995.0	--	63
85A		160.0	6.6	510.0	63.0	773.0	43.0	700.0	1,960.0	3,460.0	7.0	58
86		68.0	9.8	170.0	24.0	--	22.0	220.0	580.0	1,340.0	8.0	63
87	1/20/65	17.0	3.3	18.0	--	91.0	11.0	4.2	178.0	184.0	7.5	--
88	6/21/73	180.0	34.0	75.0	8.9	844.0	71.0	14.0	856.0	1,330.0	7.2	61
89	6/ 1/73	99.0	9.0	23.0	--	292.0	--	14.0	402.0	580.0	7.6	--
90	7/13/73	250.0	23.0	67.0	6.1	937.0	76.0	12.0	952.0	1,430.0	6.6	60
91		38.0	4.4	70.0	5.5	254.0	18.0	40.0	393.0	560.0	7.3	--
92	10/24/73	172.0	53.0	400.0	--	1,156.0	--	300.0	2,258.0	2,500.0	7.4	59
92A	5/ 8/73	22.0	5.0	9.0	--	84.0	11.0	6.0	134.0	140.0	7.1	--
93	1/16/73	8.7	4.7	19.0	0.9	94.0	6.6	3.8	149.0	165.0	8.0	--
93A		12.0	4.8	25.0	1.4	88.0	6.8	28.0	179.0	255.0	--	88
94		8.8	8.3	25.0	0	117.8	0	10.0	179.9	162.0	8.2	83
94	1/16/73	44.0	5.0	22.0	0	92.0	6.0	8.0	180.0	140.0	7.8	86
94	10/25/76	9.6	3.0	20.8	0.8	68.9	6.0	--	121.0	--	8.3	89
94	4/19/76	7.0	1.9	20.0	0.8	66.0	6.2	--	149.0	--	8.2	88
94	11/ 6/75	4.6	4.5	20.0	1.2	68.6	7.2	--	130.0	--	8.3	--
95	9/23/72	13.0	3.0	10.0	--	52.0	--	2.0	58.0	95.0	--	--
96	9/18/73	18.0	4.8	9.6	7.8	98.0	12.0	2.6	161.0	187.0	7.1	50
97	9/23/72	11.0	4.0	11.0	--	48.0	--	4.0	96.0	90.0	--	--
106A	9/28/65	13.0	2.8	10.0	--	72.0	2.6	2.8	135.0	132.0	7.3	--
110	9/13/73	11.0	1.0	9.0	--	60.0	--	6.0	130.0	105.0	7.3	55
111	10/9/73	22.0	4.0	11.0	--	84.0	--	8.0	164.0	160.0	7.0	--
112	10/ 9/73	11.0	3.0	8.0	--	52.0	--	4.0	118.0	95.0	--	--

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻	Cl ⁻	TDS	Ec	pH	Temp °F
113	8/14/73	19.0	5.0	7.0	--	68.0	2.0	4.0	148.0	140.0	6.8	52
114		115.0	10.0	210.0	--	464.0	30.0	290.0	1,100.0	1,300.0	--	61
114	1/17/73	130.0	19.0	390.0	--	597.0	27.0	442.0	1,528.0	2,000.0	6.9	--
114A		169.0	14.1	520.0	50.0	661.5	102.9	670.0	2,362.0	2,940.0	7.0	58
115		130.0	25.0	100.0	11.0	662.0	32.0	61.0	728.0	1,210.0	6.9	62
115A	8/15/73	130.0	12.0	250.0	35.0	606.0	32.0	320.0	1,130.0	1,880.0	6.8	61
115B	10/24/73	210.0	59.0	570.0	34.0	1,530.0	290.0	300.0	2,260.0	3,250.0	6.8	59
115C	5/25/73	35.0	46.0	840.0	45.0	1,810.0	280.0	330.0	2,500.0	3,660.0	8.2	57
117	1/22/73	6.0	17.0	70.0	--	140.0	<1.0	60.0	272.0	400.0	8.6	48
118	1/22/73	14.0	4.0	12.0	--	64.0	5.0	6.0	188.0	120.0	6.7	48
120		78.0	42.0	550.0	--	1,230.0	200.0	400.0	2,500.0	2,920.0	--	133
121		1.7	2.1	6,300.00	350.0	6,820.0	2,100.0	3,500.0	16,800.0	22,900.0	8.8	--
121A		7.3	13.0	4,800.0	180.0	--	1,600.0	2,600.0	9,380.0	18,100.0	7.7	169
121B		30.0	3.6	580.0	35.0	993.0	160.0	320.0	1,730.0	2,720.0	7.2	--
122	6/ 8/73	35.0	5.0	14.0	--	124.0	--	2.0	204.0	220.0	7.5	48
123	5/31/73	16.0	3.7	8.4	6.0	39.0	33.0	3.4	151.0	166.0	7.9	47
124	6/29/73	12.0	4.7	360.0	4.6	905.0	59.0	5.7	933.0	1,470.0	8.5	63
124A	7/ 1/73	9.8	6.2	470.0	4.9	1,150.0	35.0	6.6	1,160.0	1,780.0	8.4	70
126	9/23/72	14.0	6.0	23.0	--	64.0	--	4.0	104.0	110.0	--	--
126		15.0	3.0	17.0	2.8	71.0	13.0	6.4	133.0	176.0	7.7	40
126A		5.6	3.4	8.0	T	55.5	0	0	90.5	79.0	8.5	54
127	9/23/72	19.0	6.0	18.0	--	84.0	--	8.0	206.0	170.0	--	--
128	8/1/47	8.0	2.0	--	--	139.0	17.0	11.0	234.0	293.0	7.3	136
128	1/17/73	8.0	6.0	53.0	--	120.0	17.0	8.0	250.0	240.0	8.1	100
128		6.4	3.4	56.0	2.0	173.3	0	9.0	300.1	263.0	8.4	100
128	10/20/76	6.8	1.1	64.5	0.4	111.0	44.0	--	228.0	--	8.1	105
128	4/19/76	4.8	0.5	57.7	1.2	107.0	15.8	--	215.0	--	8.3	105
128	11/ 6/75	6.6	1.7	52.4	1.6	107.0	18.3	--	200.0	--	8.1	--
129	4/30/73	11.0	3.0	16.0	--	64.0	7.0	4.0	210.0	130.0	7.4	61
130	11/23/72	18.0	1.0	31.0	--	100.0	4.0	6.0	299.0	200.0	7.6	--
130		14.4	4.9	39.0	0	172.1	0	0	264.4	230.0	8.0	44
131	8/14/73	34.0	9.0	162.0	--	480.0	5.0	4.0	652.0	880.0	7.5	68
132	10/26/76	29.9	6.4	121.0	5.0	394.0	7.0	--	461.0	--	7.6	66.5
132	4/ 6/76	29.5	5.7	43.4	3.9	352.0	4.8	--	460.0	--	7.9	64
132	11/ 5/75	29.3	7.5	136.0	12.5	368.0	9.1	--	458	--	7.8	--
133	8/25/72	6.0	1.0	170.0	--	124.0	34.0	176.0	566.0	760.0	7.4	--

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻⁻	Cl ⁻	TDS	Ec	pH	Temp. °F
133	5/24/73	3.0	2.0	167.0	--	356.0	<1.0	22.0	498.0	700.0	9.1	88
134	6/ 8/73	19.0	5.0	20.0	--	68.0	--	<1.0	230.0	180.0	7.4	--
134A		18.4	5.3	10.0	7.5	79.9	32.9	--	209.0	180.0	7.6	48
134B	8/14/73	32.0	9.1	170.0	6.9	604.0	11.0	5.5	599.0	912.0	7.5	68
135A		62.0	7.0	15.0	--	200.0	6.0	13.0	322.0	380.0	7.2	--
137		72.0	18.0	25.0	34.0	0	4,520.0	20.0	4,240.0	17,300.0	1.4	178
138		22.0	5.0	12.0	--	68.0	--	8.0	220.0	170.0	7.3	54
139	7/23/72	16.0	4.0	15.0	--	64.0	--	2.0	164.0	130.0	--	--
140	9/23/72	78.0	15.0	48.0	--	16.0	--	164.0	700.0	662.0	--	--
141		100.1	19.9	45.0	23.0	0	551.4	50.0	850.1	1,165.0	3.5	--
142	6/ 5/73	48.0	11.0	10.0	--	156.0	18.0	14.0	294.0	320.0	7.5	--
143		19.2	0.5	11.0	2.5	94.0	--	--	157.2	176.0	7.2	48
145	8/31/49	168.0	23.0	14.0	--	0	514.0	8.0	967.0	1,270.0	3.1	--
145	8/31/49	185.0	52.0	7.0	--	0	1,570.0	4.0	1,950.0	4,570.9	1.9	160
145	8/31/49	110.0	11.0	24.0	--	0	2,740.0	20.0	2,960.0	8,510	1.6	--
145	8/31/49	101.0	23.0	10.0	--	0	3,280.0	3.0	3,160.0	12,700	1.4	--
145	11/ 4/63	7.0	10.0	24.0	--	0	35,100.0	24.0	--	13,800.0	1.8	189
148		30.0	0.1	1,959.0	--	456.0	99.0	68.0	3,453.0	6,895.0	--	--
151A		22.0	0.1	2,123.0	528.0	112.0	107.0	3,828.0	7,533.0	--	--	--
152		16.0	0.2	2,152.0	443.0	144.0	93.0	3,627.0	7,203.0	--	--	--
155		6.3	0.3	1,473.0	300.0	182.0	42.0	2,495.0	5,100.0	--	--	--
156		6.8	0.5	1,733.0	329.0	214.0	164.0	2,783.0	6,477.0	--	--	--
157		14.4	2.4	6.0	5.0	79.9	0	0	130.7	107.0	6.3	42
158		3.2	0	8.0	0	31.1	0	0	50.3	67.0	7.0	46
159		7.2	2.9	6.0	1.5	54.9	--	--	93.5	67.0	7.5	41
160		5.6	1.5	8.0	0	45.8	0	0	88.9	88.0	7.0	44
160		8.5	0.1	1,721.0	322.0	84.0	30.0	3,082.0	6,018	--	--	--
162	10/29/49	13.0	2.4	19.0	--	87.0	9.3	2.0	165.0	157.0	--	--
163		13.0	2.4	--	--	87.0	9.3	2.0	165.0	160.0	--	54
165		14.4	2.9	7.0	2.0	25.0	16.5	20.0	107.8	132.0	7.0	46
167	10/26/49	6.0	2.2	19.0	--	73.0	2.5	1.0	142.0	126.0	--	--
167		6.0	0.9	--	--	55.0	2.0	1.5	125.0	90.0	--	63
167A		10.0	2.7	--	--	75.0	4.1	2.0	142.0	110.0	--	61
167B		6.0	2.2	--	--	73.0	2.5	1.0	142.0	125.0	--	57
168	10/26/49	10.0	2.7	16.0	--	57.0	4.1	2.0	142.0	109.0	--	--
168	10/22/76	5.2	0.2	12.2	0.4	39.7	3.0	--	129.0	--	8.0	64

No.	Date	Ca	Mg	Na	K	HCO ₃ ⁻	SO ₄ ⁻	Cl				
168	4/28/76	4.0	0.1	197.0	0.4	36.2	1.0	--	118.0	--	7.7	65
168	11/ 6/75	5.2	0.5	13.3	0.4	38.0	4.3	--	122.0	--	8.0	--
169A		6.4	2.4	18.0	1.3	81.1	--	--	127.2	104.0	7.4	46
169A	6/20/50	6.0	2.0	11.0	--	48.0	2.1	1.5	108.0	84.0	--	--
171		6.4	2.9	10.0	3.5	66.5	0	0	109.3	88.0	7.2	40
172A		4.0	2.4	7.0	4.0	48.8	0	T	111.2	77.0	7.7	42
176		4.0	1.0	17.0	T	62.2	0	0	94.2	67.5	7.7	52
177	6/20/50	6.0	2.0	--	--	48.0	2.1	1.5	108.0	85.0	--	--
184	9/23/65	24.0	3.2	48.0	13.0	179.0	15.0	14.0	229.0	370.0	7.2	--
187	9/23/65	18.0	5.4	13.0	--	104.0	4.4	5.4	123.0	194.0	7.4	--
193	6/ 7/51	16.0	2.6	19.0	--	96.0	4.9	4.5	146.0	177.0	--	79
195	4/ 1/52	19.0	4.4	12.0	--	96.0	4.4	4.5	139.0	176.0	--	78
195	5/14/52	10.0	0.5	54.0	--	140.0	6.9	3.0	192.0	254.0	--	62
196	4/ 1/52	13.0	2.1	25.0	--	103.0	4.8	3.0	156.0	172.0	--	82
197	3/29/52	13.0	1.4	54.0	--	166.0	8.2	4.8	222.0	281.0	--	85
198	4/ 4/52	13.0	1.1	25.0	--	97.0	4.9	3.5	163.0	169.0	--	78
199	5/14/52	7.4	1.0	80.0	--	177.0	20.0	18.0	244.0	383.0	--	63
199B	5/14/52	5.8	1.0	84.0	--	185.0	18.0	2.0	251.0	379.0	--	65
199C	5/14/52	16.0	0.5	32.0	--	117.0	7.5	4.0	152.0	200.0	--	58
200A	5/14/52	2.9	0.4	63.0	--	138.0	6.9	4.0	188.0	273.0	--	78
201	5/14/52	9.2	0.3	27.0	--	91.0	3.5	2.5	125.0	151.0	--	73
202	9/23/65	31.0	7.7	13.0	--	104.0	23.0	15.0	183.0	292.0	7.1	126
204	10/17/73	34.0	6.2	19.0	2.8	126.0	43.0	6.8	198.0	305.0	8.2	53
205		50.0	12.0	65.0	5.2	374.0	9.7	4.8	344.0	580.0	7.2	51
207		11.0	3.0	10.0	--	60.0	3.0	6.0	94.0	95.0	7.4	54
207A	5/22/73	13.0	1.6	8.1	2.2	54.0	10.0	2.1	99.0	109.0	7.4	55
208	1/17/73	6.0	6.0	10.0	--	52.0	3.0	2.0	102.0	80.0	7.2	57
209	9/13/73	11.0	3.0	21.0	--	56.0	--	6.0	150.0	105.0	7.3	48
210	5/24/73	5.0	2.0	101.0	--	92.0	5.0	120.0	406.0	480.0	9.0	88
211	1/22/73	8.0	6.0	40.0	--	68.0	<1.0	32.0	138.0	200.0	8.6	64
212	1/17/73	16.0	2.0	9.0	--	64.0	4.0	2.0	114.0	90.0	7.5	48
213	10/20/76	3.0	0.1	25.0	0.8	42.3	7.0	--	147.0	--	7.9	105
213	4/19/76	10.4	0	22.8	1.2	42.3	7.2	--	145.0	--	7.9	105
213	11/ 5/75	2.8	0.1	23.2	2.0	43.4	8.2	--	160.0	--	8.1	--
213		4.0	1.9	26.0	2.0	90.3	0	2.0	186.2	119.0	8.2	100
213A	5/16/73	4.7	0.3	23.0	2.0	61.0	8.8	2.3	150.0	122.0	7.7	105

Water Quality Data, Jemez Basin and Vicinity

Data No.	Date	Ca ⁺⁺	Mg ⁺⁺	Na ⁺	K ⁺	HCO ₃ ⁻	SO ₄ ⁻	Cl ⁻	TDS	Ec	pH	Temp. °F
214		6.4	2.4	13.0	3.0	62.9	0	5.0	167.7	94.0	8.0	80
215	10/16/49	8.0	2.0	--	--	45.0	2.9	2.0	105.0	80.0	--	--
216		10.4	3.4	13.0	2.0	43.3	--	25.0	152.1	220.0	8.5	54
218		28.0	1.2	83.0	--	623.0	335.0	121.0	2,970.0	2,225.0	8.0	--
219	10/22/49	164.0	24.0	16.0	--	0	1,160.0	4.0	1,800.0	2,270.0	--	--
223		21.6	6.3	9.0	5.0	129.4	--	--	197.3	164.0	7.5	55
224	10/22/76	5.4	0.2	28.8	3.9	54.3	2.0	--	184.0	--	7.7	99
224	4/22/76	5.0	0.1	27.8	3.1	52.4	12.0	--	187.0	--	7.7	99
224	11/ 6/75	5.4	0.3	28.7	4.3	54.2	15.4	--	182	--	7.8	--
224	7/24/49	4.0	0.3	--	--	59.0	7.0	3.0	149.0	122.0	--	106
224	9/28/49	6.0	0.5	--	--	76.0	14.0	3.0	199.0	164.0	--	81
224	5/24/73	3.0	1.0	22.0	--	58.0	8.0	6.0	202.0	110.0	7.5	72
224	5/28/73	6.0	2.0	16.0	--	52.0	<1.0	6.0	206.0	110.0	7.4	70
226		6.1	2.4	8.0	4.0	58.0	--	7.0	113.5	81.0	7.0	36
227	6/20/50	7.2	0.6	12.0	--	45.0	2.1	1.8	108.0	86.0	--	--
227	10/16/49	10.0	1.6	7.2	--	42.0	3.5	3.0	90.0	85.0	--	--
228	7/ 6/49	6.0	0.9	11.0	--	38.0	2.1	2.0	98.0	80.0	--	--
230	10/16/49	15.0	1.1	16.0	--	49.0	3.3	1.0	123.0	107.0	--	--
230A	10/22/76	6.4	0.2	9.5	0.4	29.3	7.0	--	106.0	--	8.0	58
230A	4/22/76	5.0	0.1	10.1	0.4	28.8	1.0	--	85.0	--	7.8	59
230A	11/ 6/75	6.6	0.3	10.1	0.8	35.1	5.3	--	78.0	--	8.2	--
231		10.0	1.9	--	--	70.0	3.3	2.0	124.0	100.0	--	63
232	10/16/49	10.0	1.9	16.0	--	70.0	3.3	2.0	124.0	100.0	--	--
232A	10/22/76	6.8	0.2	8.9	0.4	33.7	13.0	--	103.0	--	7.7	52
232A	4/22/76	5.8	0.2	10.1	0.4	31.1	1.0	--	110.0	--	8.1	53
232A	11/ 6/75	6.4	0.5	10.1	0.4	31.7	3.4	--	88.0	--	7.3	--
233		10.0	1.6	--	--	42.0	3.5	3.0	90.0	85.0	--	64
233A	7/27/49	11.0	2.5	19.0	--	68.0	13.0	2.0	143.0	122.0	--	62
233B		4.0	0	17.0	0.3	59.3	0	0	93.5	870.0	8.2	53
234		15.0	1.1	--	--	77.0	3.3	1.0	125.0	110.0	--	63
235		8.0	0.9	--	--	48.0	3.7	2.0	111.0	85.0	--	55
235A	7/ 6/49	6.0	0.9	--	--	40.0	2.6	1.5	103.0	80.0	--	50
242	1/ 7/65	54.0	17.0	35.0	--	170.0	131.0	3.7	358.0	539.0	8.0	--
243	6/19/74	88.0	19.0	8.4	2.2	381.0	9.0	2.6	332.0	570.0	7.1	51
244	5/30/73	28.0	5.1	11.0	2.0	96.0	38.0	3.7	175.0	233.0	7.3	50
245	3/ 7/74	30.0	7.7	50.0	6.9	247.0	20.0	2.5	263.0	430.0	7.4	51
246	6/19/74	11.0	3.0	7.7	1.0	60.0	4.1	1.5	112.0	120.0	6.8	61
247A	3/ 7/74	12.0	4.8	9.9	1.1	80.0	2.1	1.9	124.0	141.0	7.8	64
249	3/ 7/74	340.0	70.0	330.0	13.0	362.0	1,100.0	330.0	2,390.0	3,190.0	7.5	--

APPENDIX II

Part 3
Trace Elements

TRACE ELEMENT ANALYSES
(Concentration In ppb)

Data No.	Date	Arsenic	Boron	Iron	Lithium	Manganese
2	12/12/74	20	150	110	100	0
3	12/12/74	7	80	80	100	0
9	8/26/72	110	2,200	800	---	---
13	9/25/74	4	210	3,000	200	70
17	10/18/74	190	8,200	---	7,100	---
18	5/ 2/73	210	20	800	---	740
20	4/ 4/74	4	110	1,700	60	0
22	6/ 5/73	0	1,800	30	1,200	20
23	6/ 5/73	360	7,500	1,400	---	90
24	10/ 2/73	2	290	0	210	13
28	5/23/73	3	50	60	---	20
29	5/23/73	0	20	30	---	0
30	9/ 5/73	2	---	15,000	640	260
31	9/ 5/73	5	1,200	80	1,100	630
32	5/24/73	86	5,800	1,500	>2,800	340
33	5/24/73	8	320	400	---	210
34	5/24/73	0	170	40	---	0
35	8/30/73	17	990	540	890	750
36	8/30/73	69	8,200	50	6,700	1,300
40	5/24/73	20	3,300	30	---	70
41	5/25/73	43	670	90	---	80
42	6/ 8/73	15	50	20	---	0
46	8/31/73	0	40	---	50	---
49	8/21/73	67	380	140	---	80
51	11/ 2/73	0	210	60	---	250
52	1/29/74	50	1,000	30	140	120
54	10/ 5/73	68	1,300	90	1,500	80
56	6/ 6/73	1	60	450	---	380
57	10/ 2/73	5	20	20	10	8
61	8/28/73	1	10	10	10	0
64	10/30/73	0	60	10	60	10
66	10/30/73	2	10	20	20	0
67	10/30/73	0	10	80	30	0
69	6/ 7/73	6	2,200	---	---	---
72	7/18/74	26	370	10	560	0
75	3/ 8/73	1,100	14,000	---	---	---
77	5/30/74	780	7,400	450	7,800	300
78	1/29/74	120	85	50	1,300	30
79	9/27/73	150	1,200	30	1,400	0
82	7/ 3/74	5	2,100	---	370	---
85	5/28/74	230	1,900	750	2,300	820
88	6/21/73	5	180	9	---	20
91	7/13/73	4	140	30	---	0
96	9/18/73	1	20	110	0	0
114	3/ 8/73	3	3,300	---	---	---

Trace Element Analyses (Cont.)

Data No.	Date	Arsenic	Boron	Iron	Lithium	Manganese
121	5/14/74	39	15,000	30	12,000	340
122	5/31/73	0	70	140	--	0
124	6/29/73	8	490	10	--	0
125	3/21/74	3	510	2,000	690	240
126	11/14/74	6	40	60	80	0
152	--	4,500	--	--	--	--
204	6/27/74	3	20	890	--	0
205	8/ 5/74	0	90	50	100	20
207	5/22/73	4	20	260	--	0
213	5/16/73	3	40	160	--	0
243	6/19/74	2	20	20	20	20
244	1/10/74	4	60	5	20	<3
244	3/19/73	4	50	40	5	<4
245	6/19/74	1	110	40	100	0
246	6/19/74	2	10	30	10	0
247	3/ 7/74	7	10	80	20	0
249	3/ 7/74	0	150	10	130	1,200

APPENDIX III

Chemical Diagrams

#18

110

Trainer data
 3/14/64
 TDS: 5.510
 EC: 8.560
 PH: 7.6

T: 75°C

San Ysidro Sp. West of San Ysidro

UOC 558 63V

#18

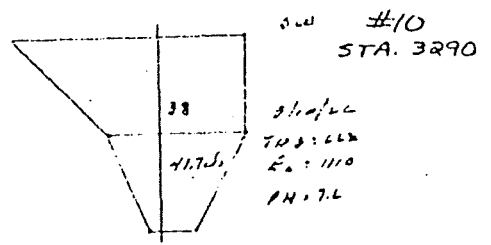
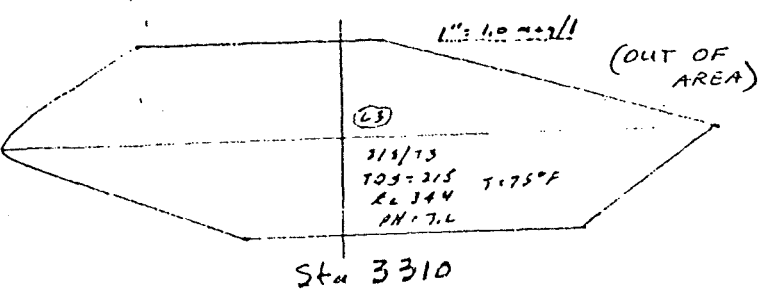
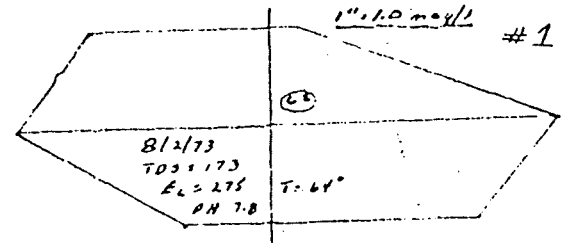
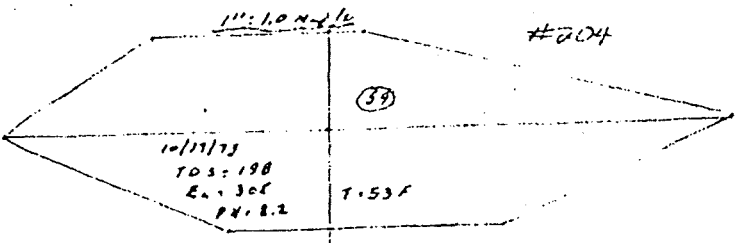
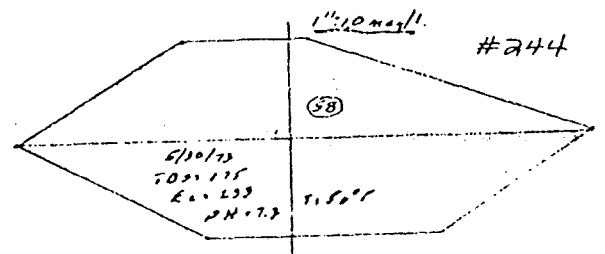
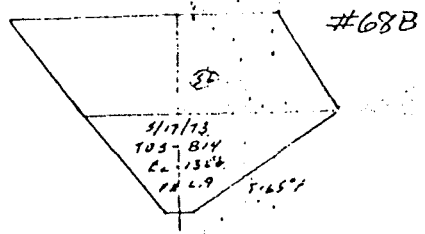
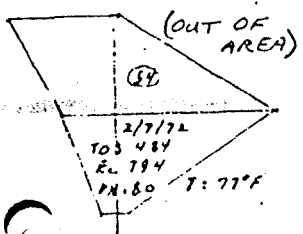
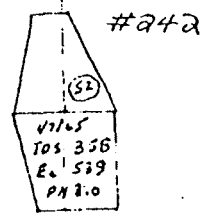
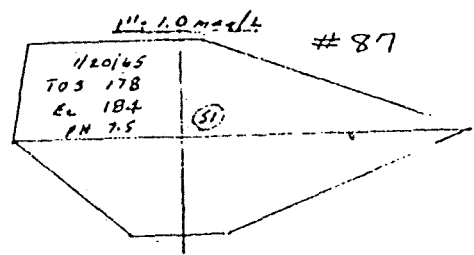
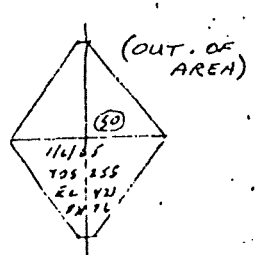
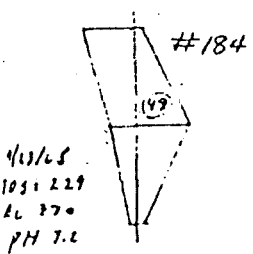
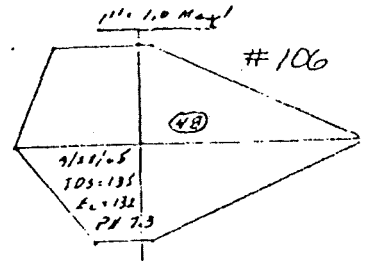
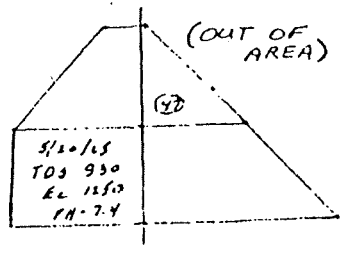
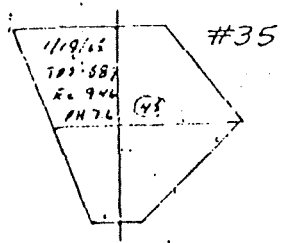
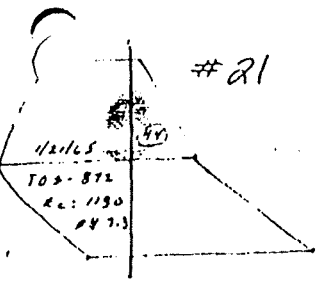
10/15/71
 TDS: 6.737
 EC: 9.100
 PH: 6.8

Shaver Sp.

410C 558230

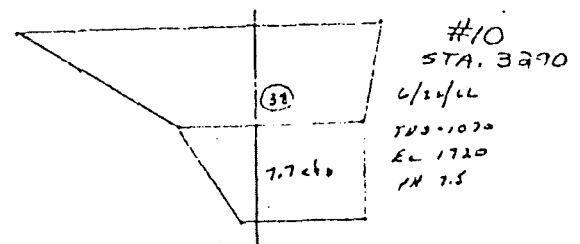
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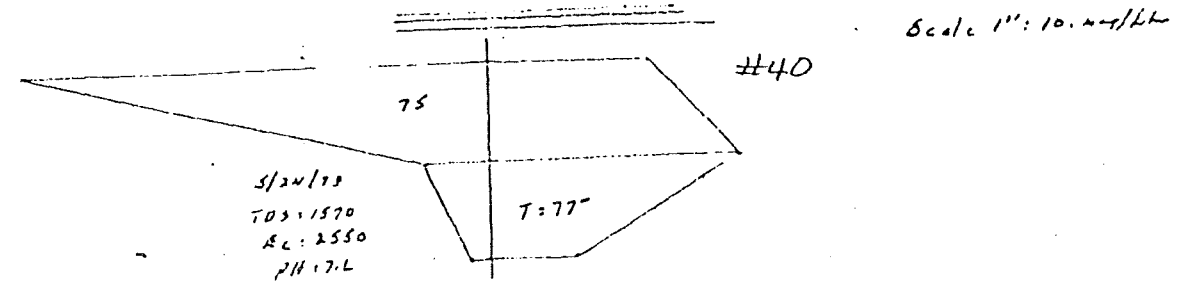
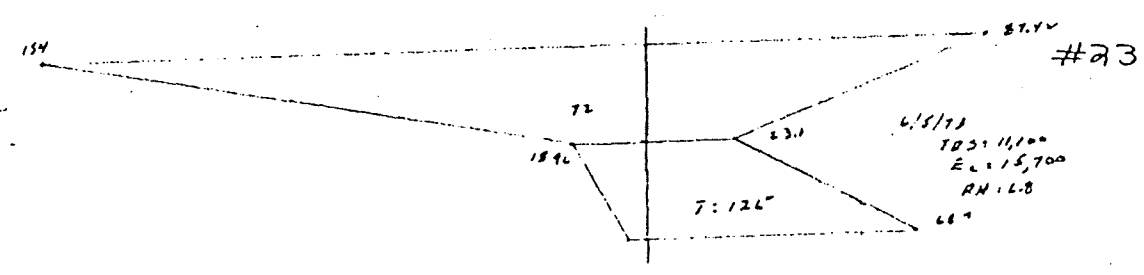
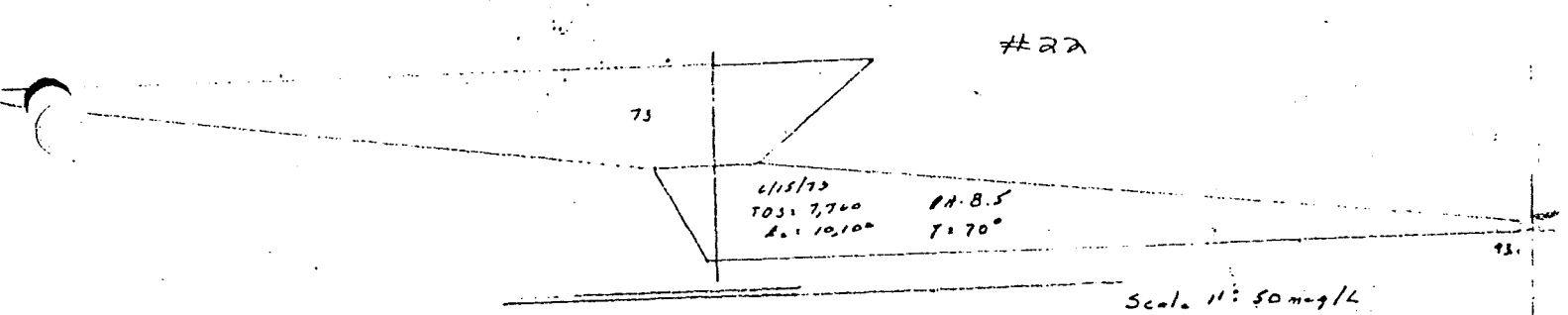
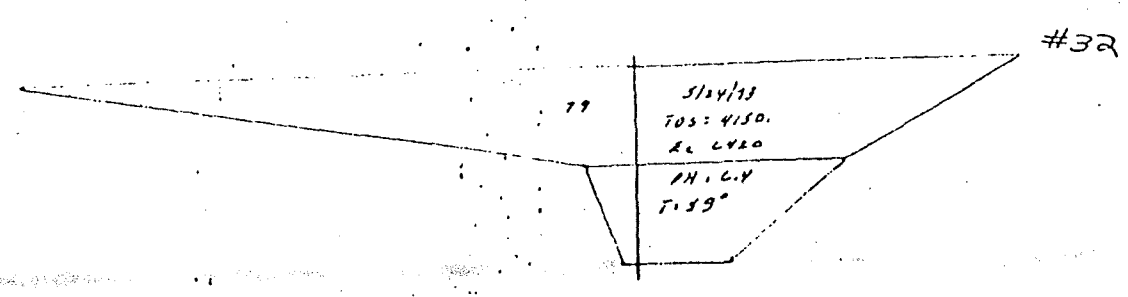
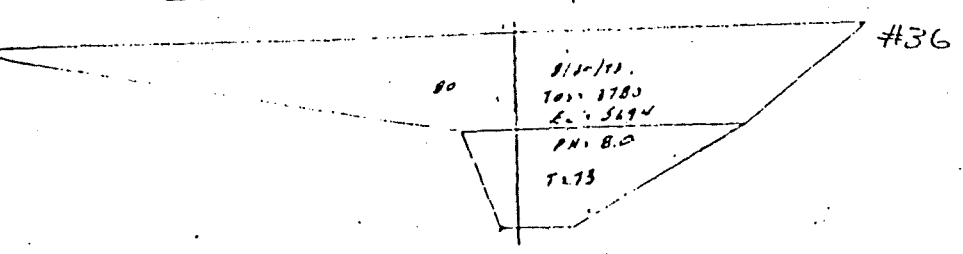
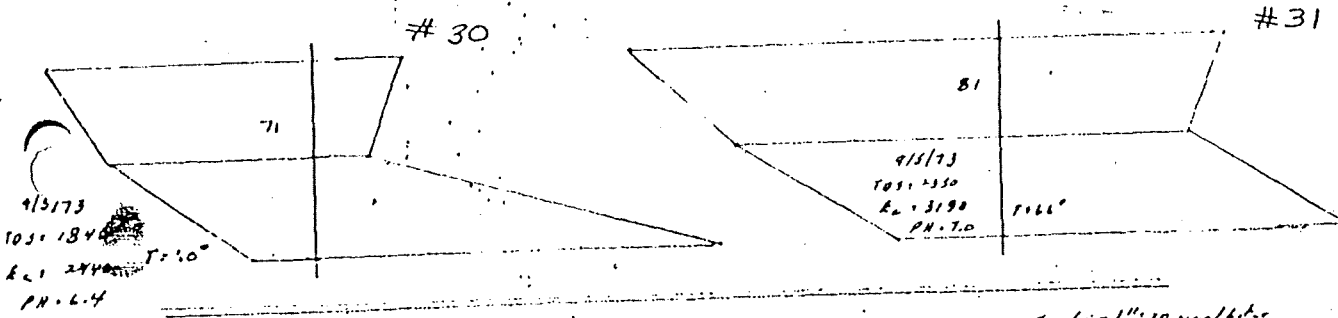
10/15/71
 TDS: 8.36V
 EC: 10.90
 PH: 7.0

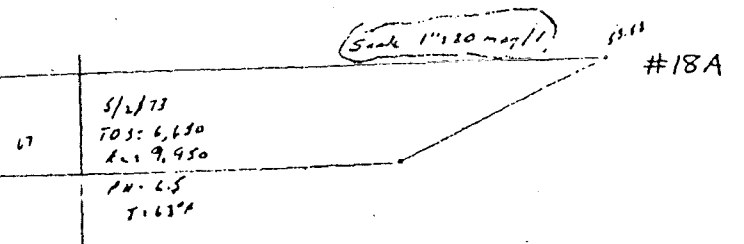
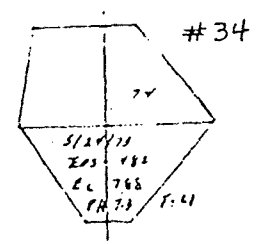
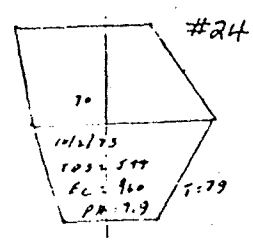
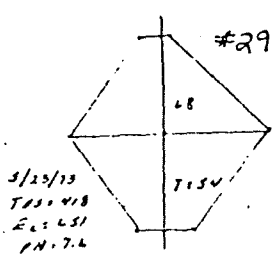
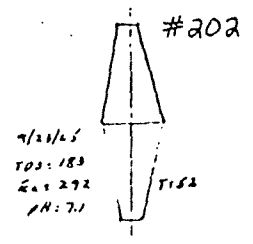
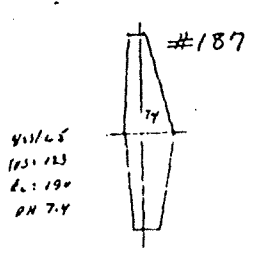
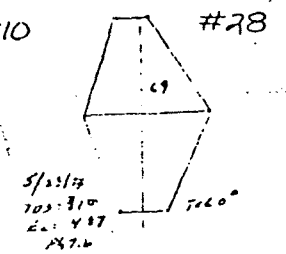
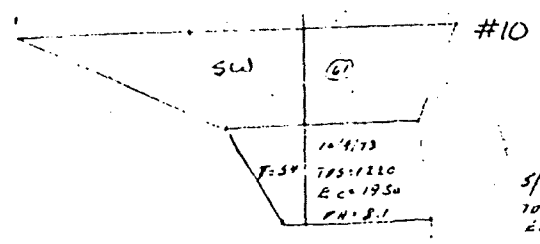
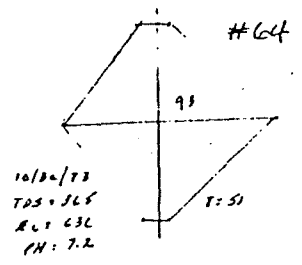
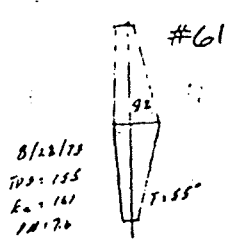
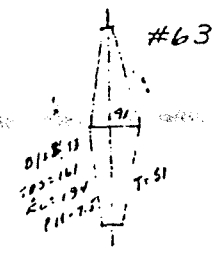
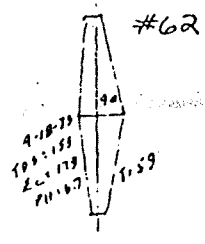
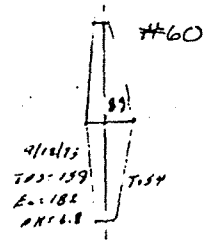
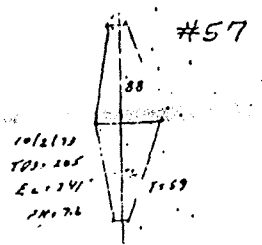
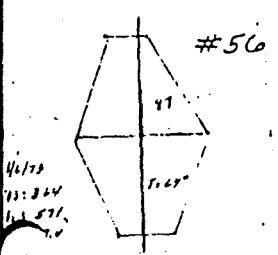
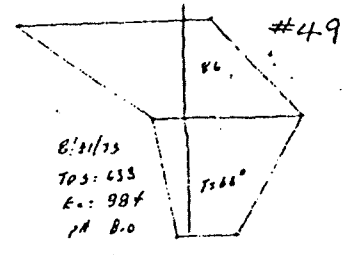
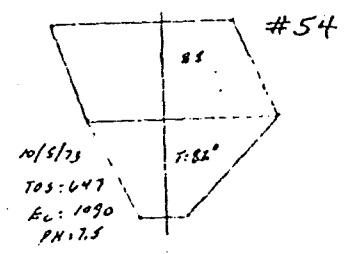
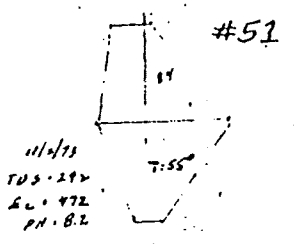
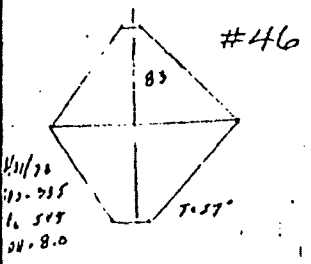
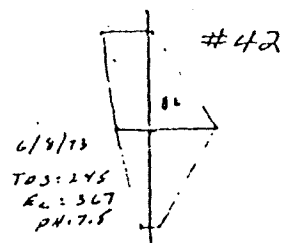
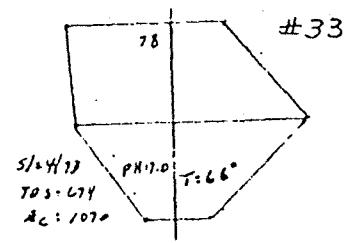
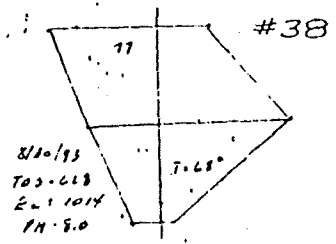
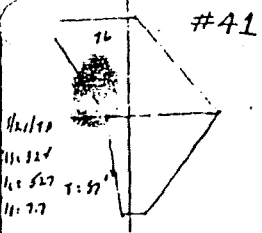


Same location

↑ ↓

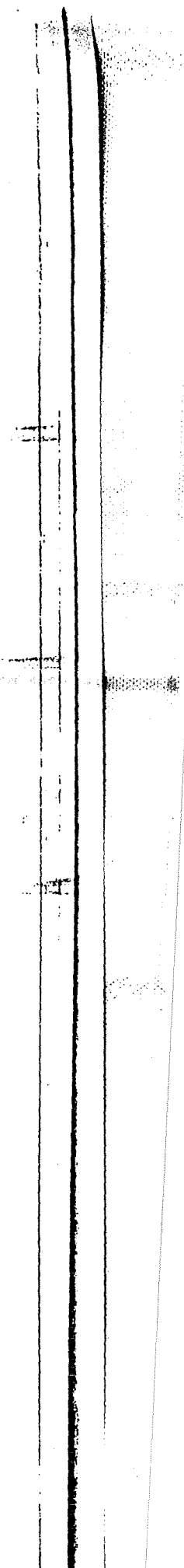
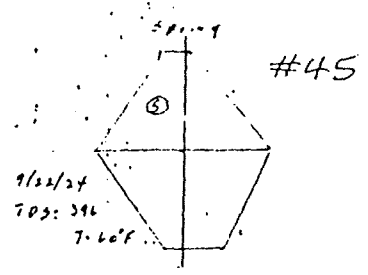
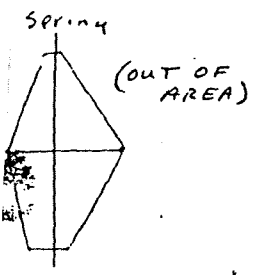






OUTLINE MAP & SPRINGS

Scale 1" = 10 mag/Lit.

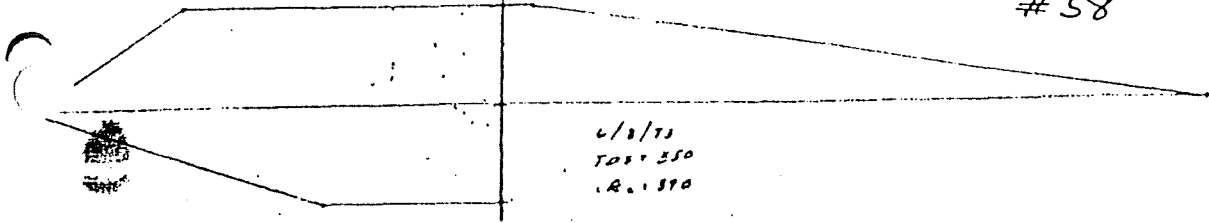


1411061100 UTRAIL

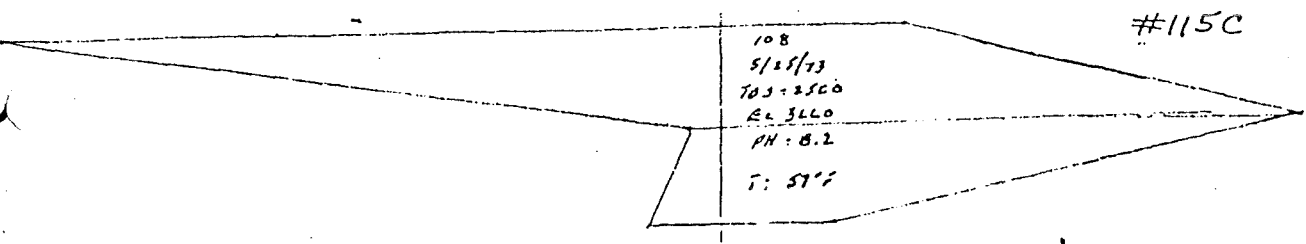
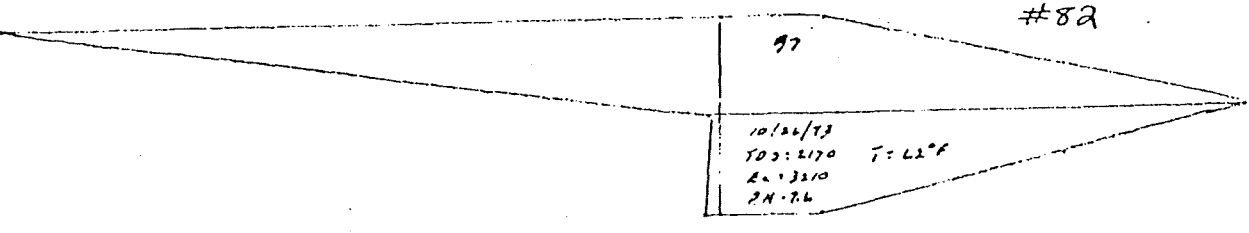
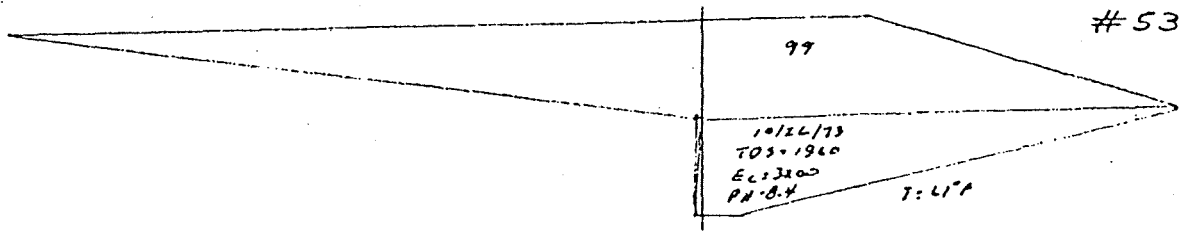
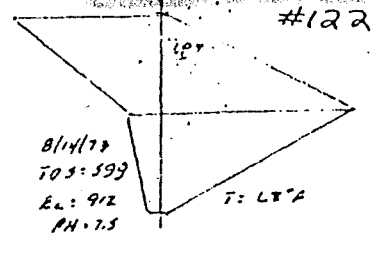
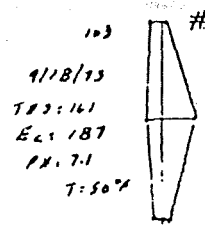
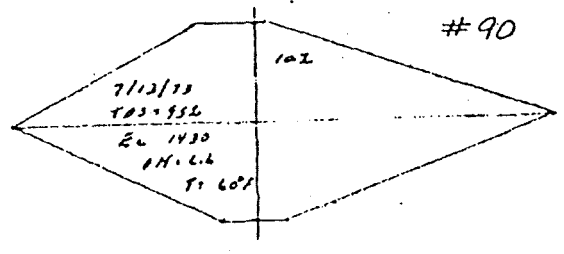
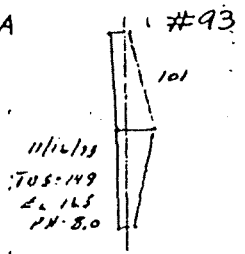
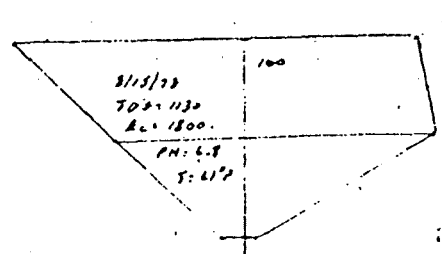
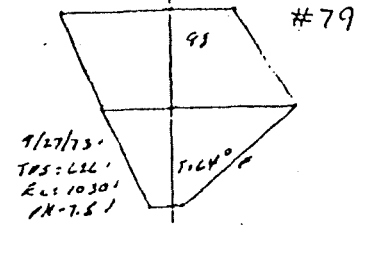
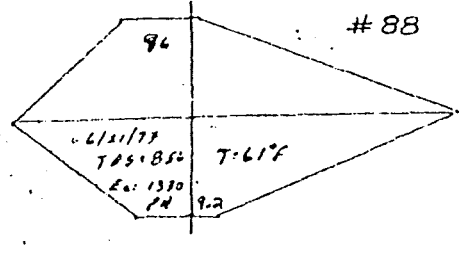
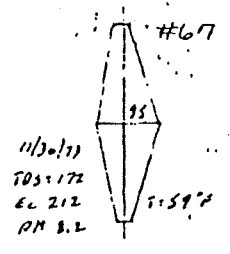
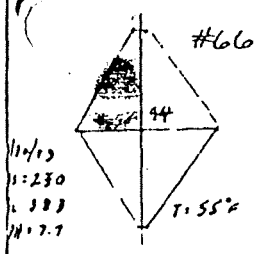
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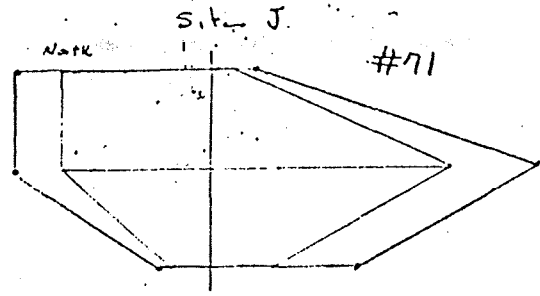
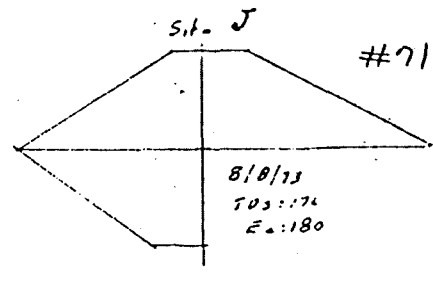
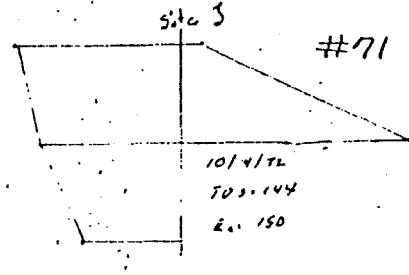
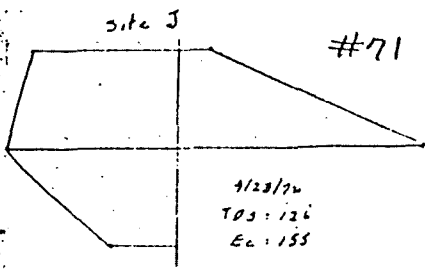
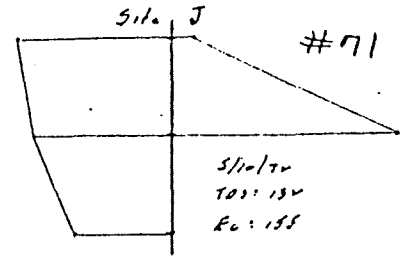
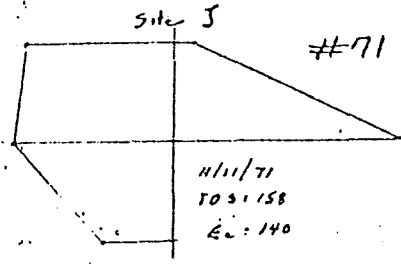
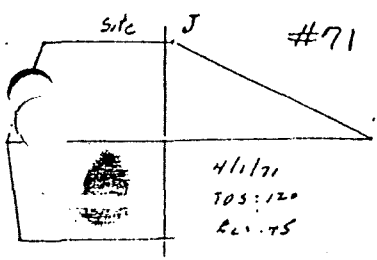
Site L

58

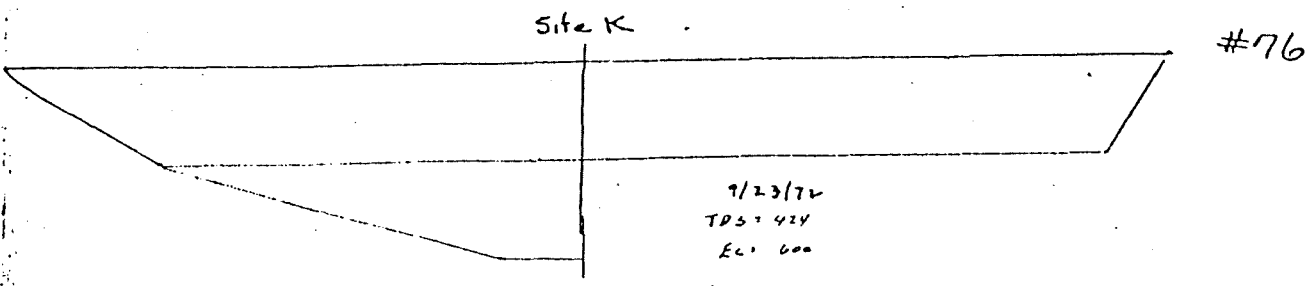


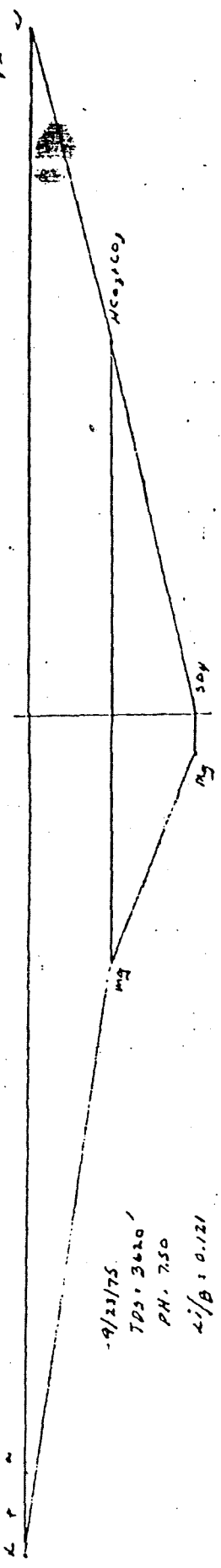
4/3/73
TOT = 350
R. = 390



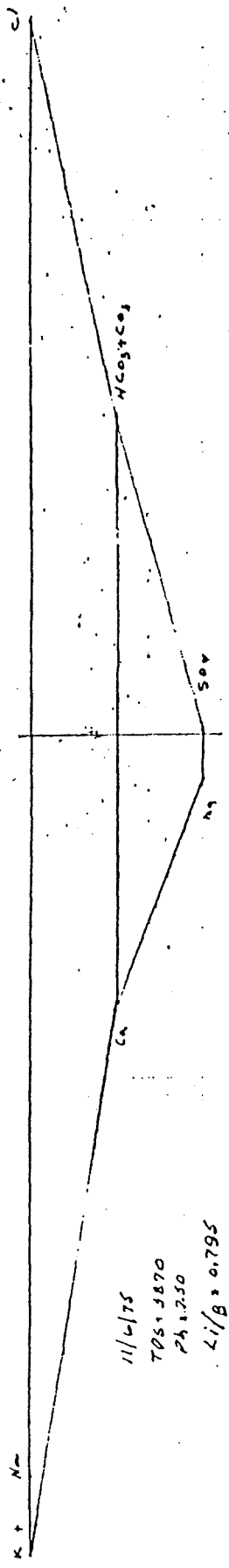


Average 17 cfs.
Max Conc + Min Flow = 7 cfs
Min Conc + Max Flow = 58 cfs

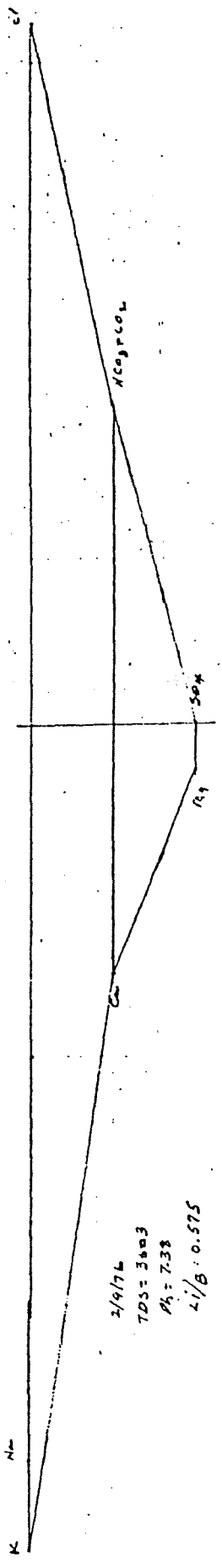




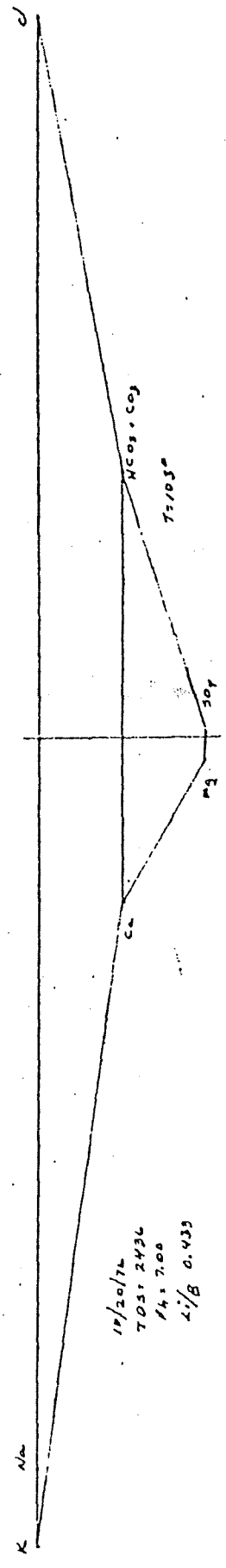
9/23/75
 TDS: 3620'
 PH: 7.50
 L/B: 0.121



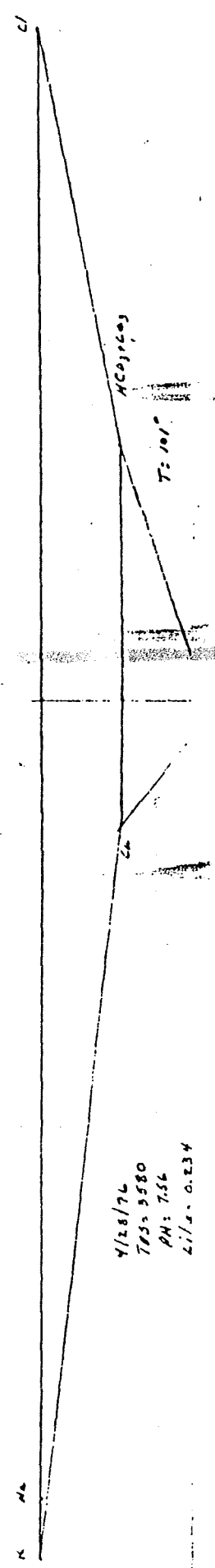
11/6/75
 TDS: 3870
 PH: 7.50
 L/B: 0.1795



2/9/76
 TDS: 3803
 PH: 7.38
 L/B: 0.575

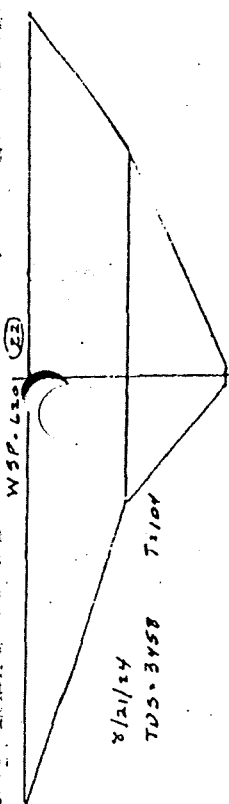


12/20/74
 TDS: 2436
 PH: 7.00
 L/B: 0.433

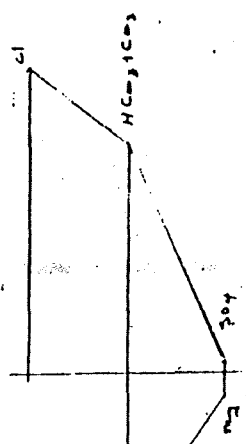


4/28/76
 TDS: 3580
 PH: 7.56
 L/B: 0.834

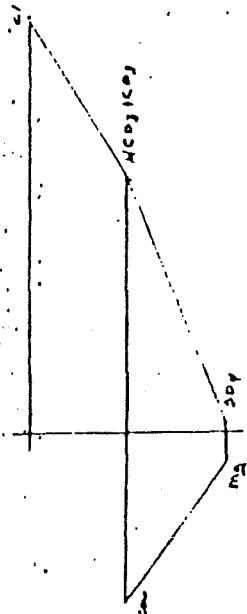
75 (ALL)



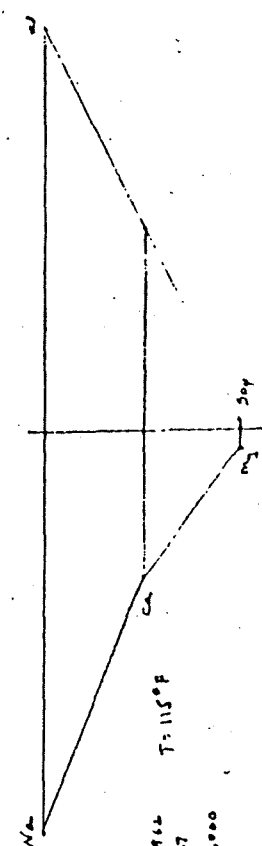
8/21/24
 TDS: 3458
 T: 104°



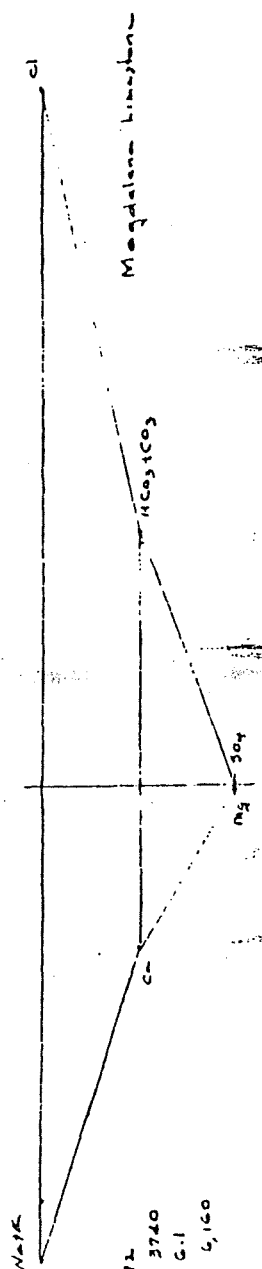
6/28/49
 TDS: 3060
 PH: 6.8
 EC: 5160
 T: 97°



6/28/49
 TDS: 3280
 PH: 6.5
 EC: 4580

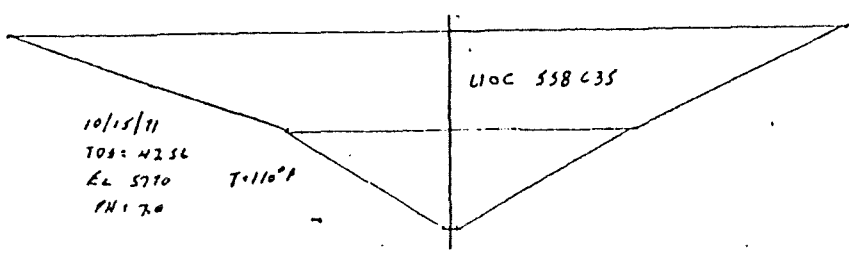


1/14/73
 TDS: 3462
 PH: 6.7
 EC: 5000
 T: 115°



12/1/72
 TDS: 3740
 PH: 6.1
 EC: 5100

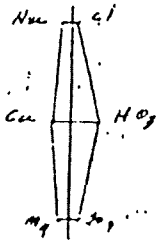
Trainer report



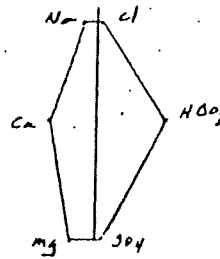
10/15/71
 TDS: 4256
 EC: 5770
 PH: 7.0
 T: 110°

#77 (ALL)

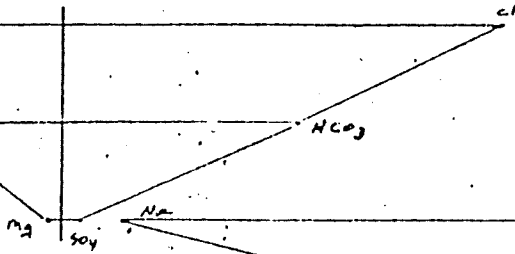
4/15/47
 TDS = 1520
 E = 1840



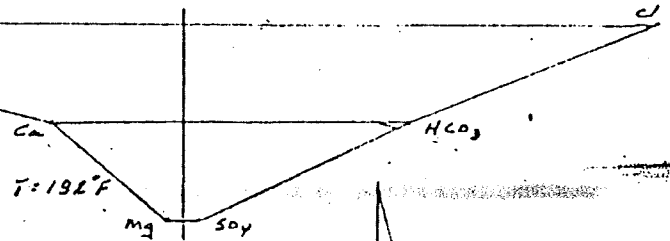
4/15/47
 TDS = 2700
 E = 3510



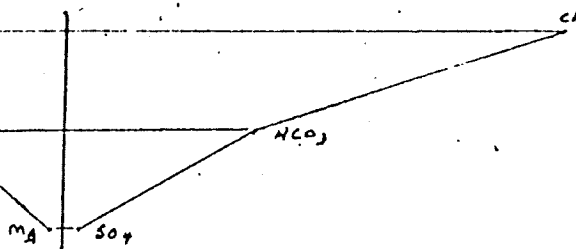
4/15/47
 TDS = 2150
 E = 3560
 PH = 7.2
 T = 160°F



4/13/56
 TDS = 2190
 E = 3860
 PH = 6.7
 T = 192°F

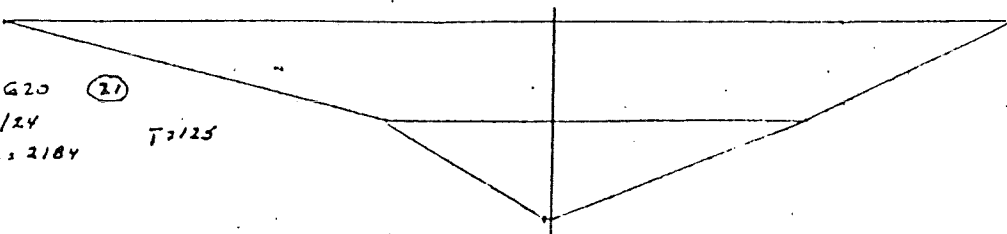


1/16/73
 TDS = 2364
 E = 300
 PH = 7.2
 T = 156



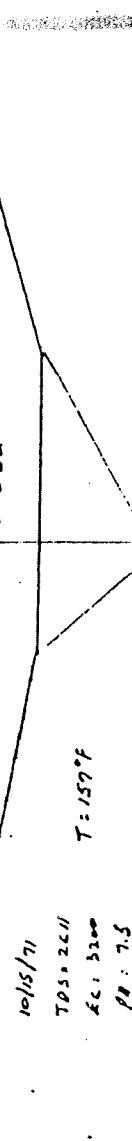
Trains # 7

12/2/74
 TDS = 3500
 E = 3930
 PH = 6.30
 T = 186°F



WSP G20 (21)
 8/21/24
 TDS = 2184
 T = 125

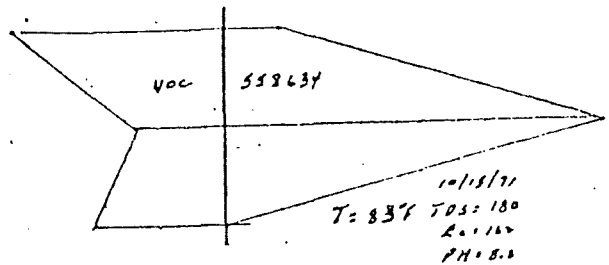
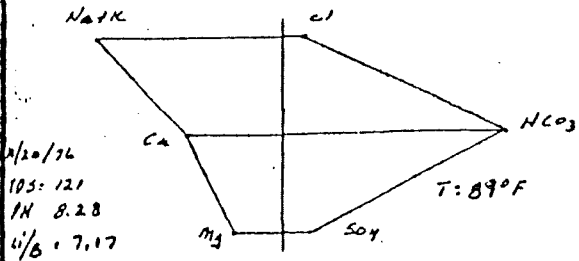
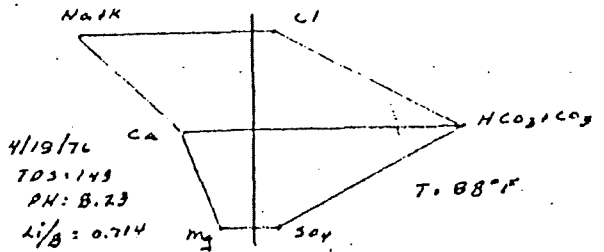
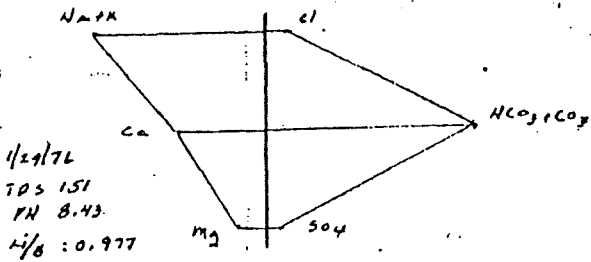
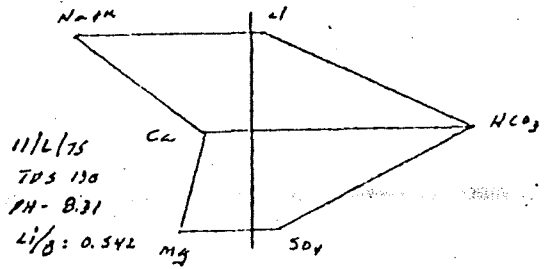
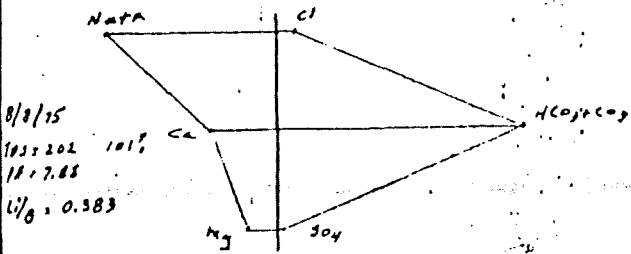
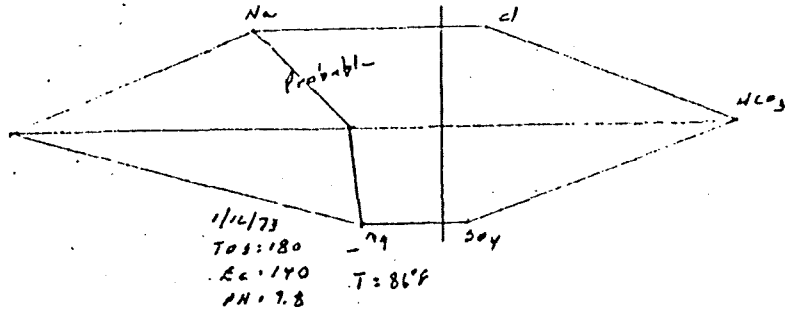
17855
 200



T18N R3E, Sec 4.144

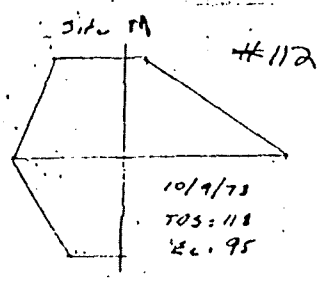
1" = 1 mag/11

#94 (ALL)

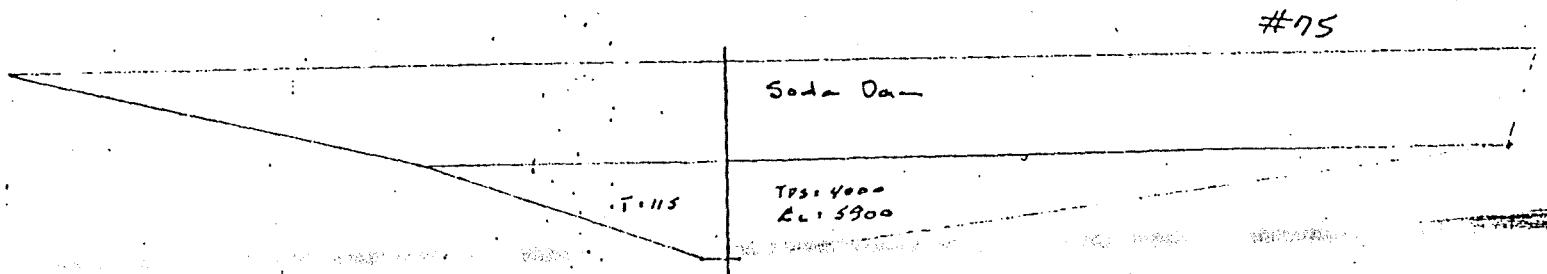
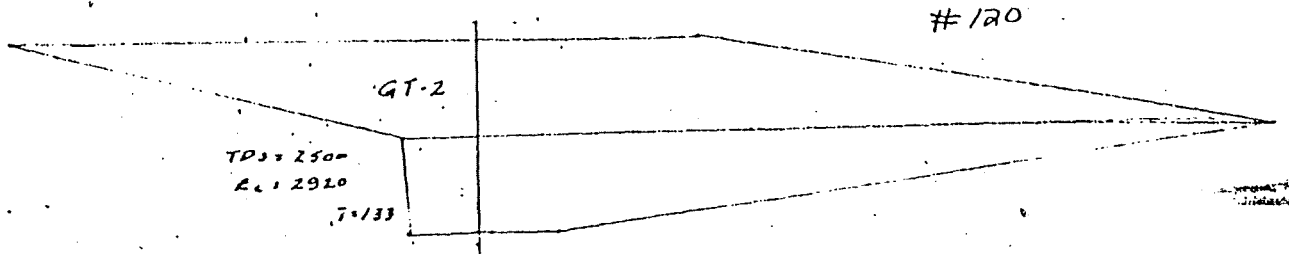
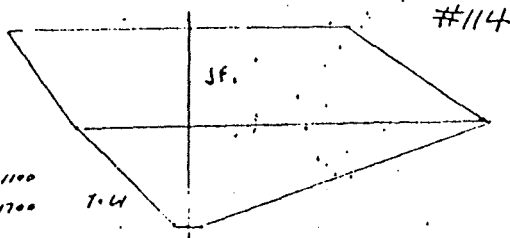


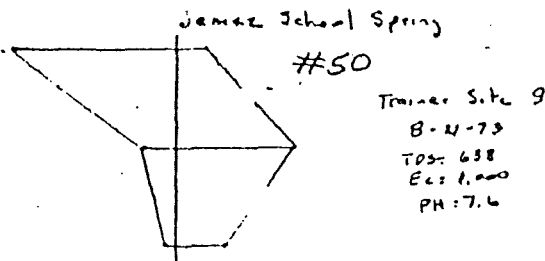
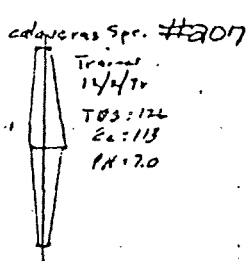
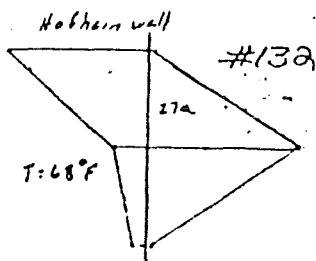
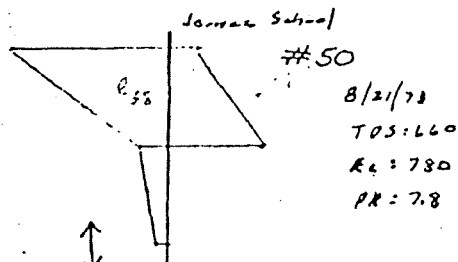
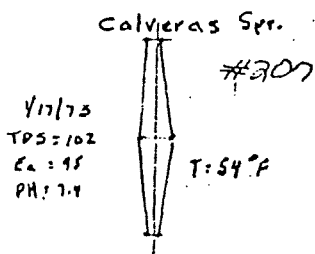
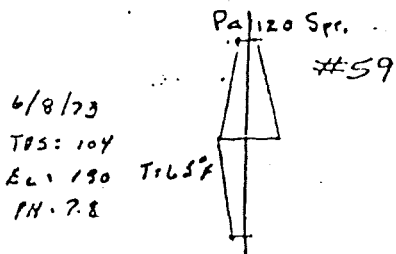
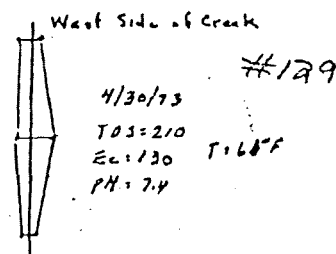
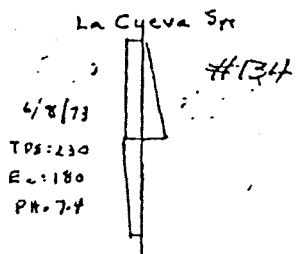
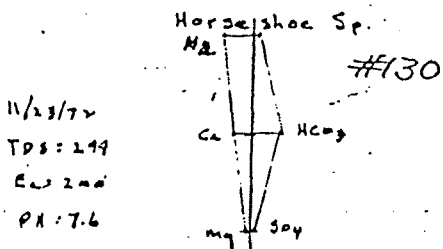
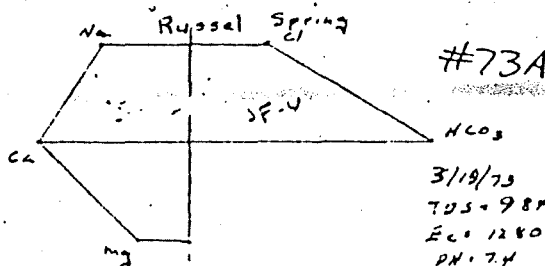
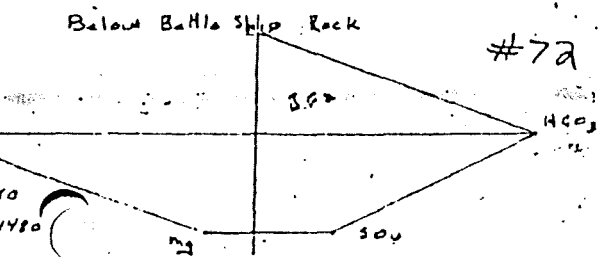
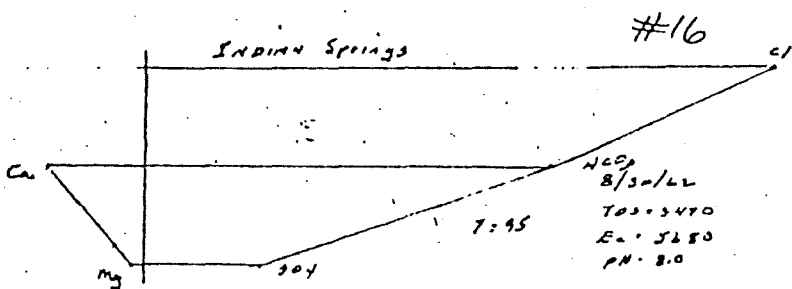
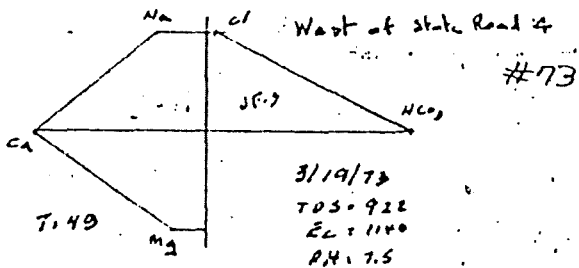
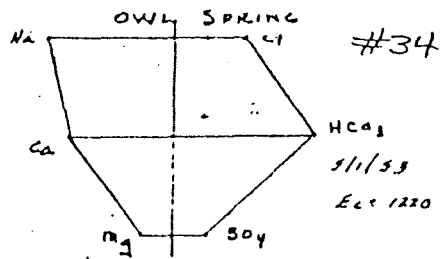
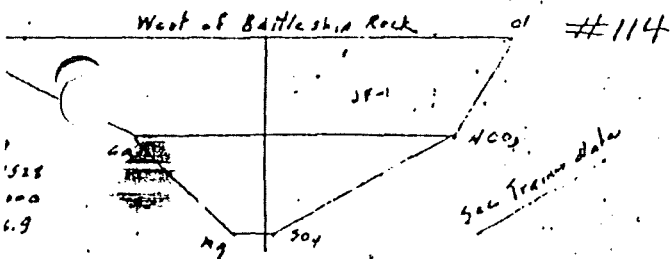
Fenton Lake

Scale 1" = 100' max./min.

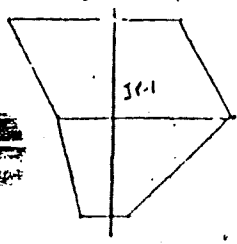


Scale 1" = 10 mag/h.



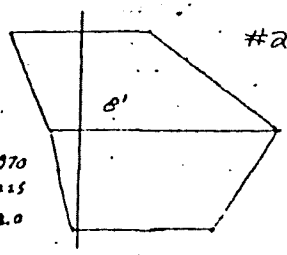


1967
TOS: 597
EL: 980

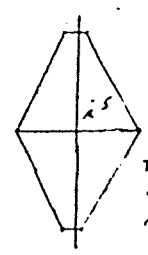


#114

TOS: 2970
EL: 2115
PH: 2.0



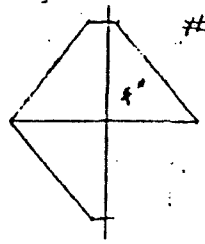
#218



#135A

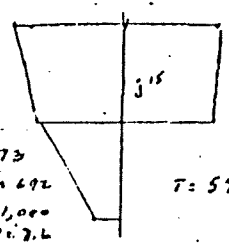
TOS: 522
EL: 850
PH: 7.2

6/1/73
TOS: 402
EL: 580
PH: 7.6



#89

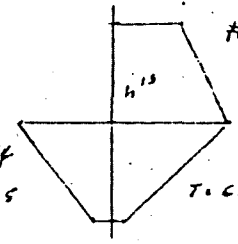
6/8/73
TOS: 492
EL: 1,000
PH: 2.6



#55A

T: 59°

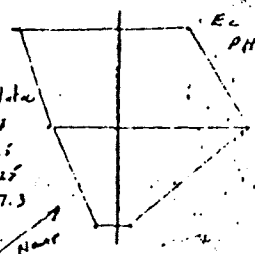
10/14/54
EL: 995



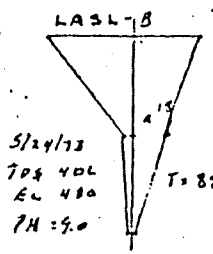
#85

T: 62°F

3/12/72
Trainer data
4/27/73
TOS: 465
EL: 925
PH: 7.3



#178

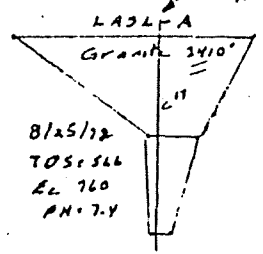


#210

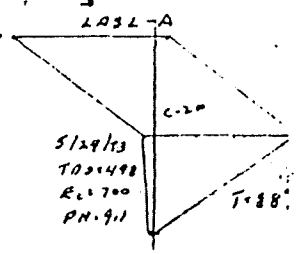
5/24/73
TOS: 402
EL: 480
PH: 4.0

T: 88

#133



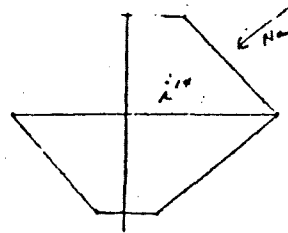
8/25/72
TOS: 566
EL: 760
PH: 7.4



5/24/73
TOS: 498
EL: 700
PH: 9.1

T: 88°

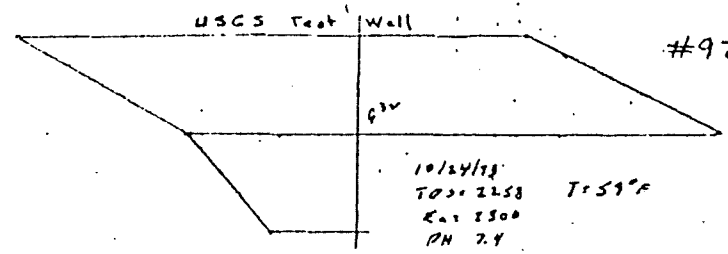
1/14/73
TOS: 402
EL: 580
PH: 7.6



#117

1/22/73
TOS: 272
EL: 400
PH: 8.4

T: 48°F



#92

10/24/73
TOS: 2258
EL: 2500
PH: 2.4

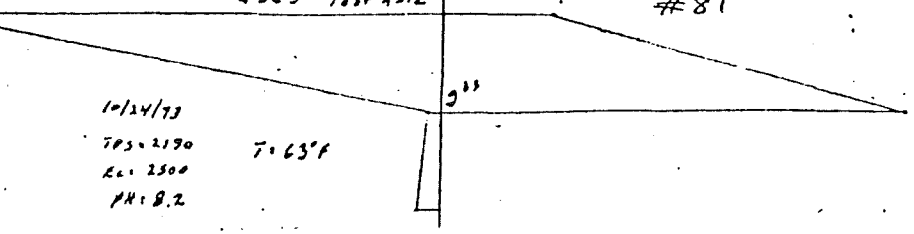
T: 59°F

USCS Test Well

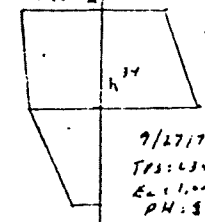
#81

10/24/73
TOS: 2170
EL: 2500
PH: 8.2

T: 63°F



Marginal Well



#80

7/27/73
TOS: 434
EL: 1,000
PH: 5.1

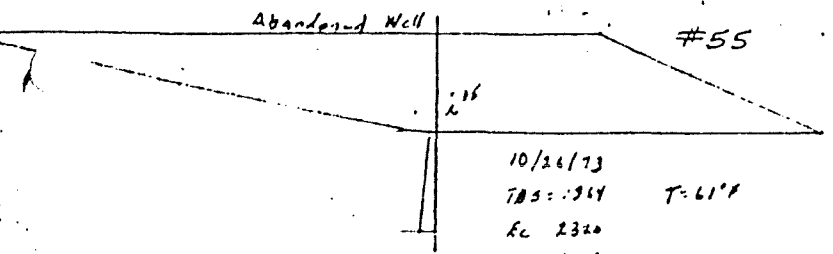
T: 64°F

Abandoned Well

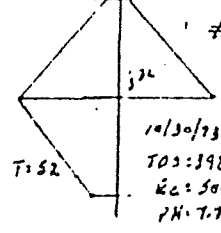
#55

10/26/73
TOS: 234
EL: 2320
PH: 8.4

T: 61°F



USCS Test Well

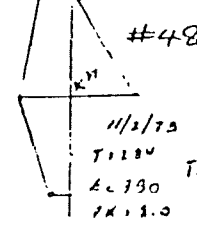


#65

10/30/73
TOS: 398
EL: 500
PH: 7.7

T: 52

USCS Test Well



#48

11/2/73
TOS: 284
EL: 390
PH: 3.0

T: 55

030 Caliente Area Sp

12/1/74
Rc 3900
PH: 6.6 T: 104°

(OUT OF AREA)

Scale 1" = 100 mag/1

#121B

TDS: 14,800
Rc: 22900
PH: 6.8

Scale 1" = 100 mag

#17

Scale 1" = 100 mag/1

#121B

Same Site

TDS: 9380
Rc: 18,100
PH: 7.7 T: 163°

#137

#121B

TDS: 9240
Rc: 17,300
PH: 7.4 T: 178°

TDS: 7730
Rc: 2720
PH: 7.2

73.5 1" = 100 mag/4

(OUT OF AREA)

5/26/67
TDS: 9530
Rc: 9940
PH: 7.8

189

(OUT OF AREA)

5/20/68
TDS: 2690
Rc: 3680
PH: 8.2

#9

8/24/72
TDS: 2460
Rc: 3140
PH: 9.5 T: 90°

#68B

same as 56 Site

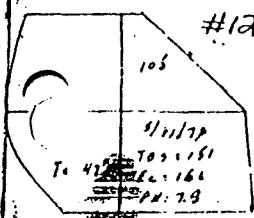
1/17/73
TDS: 1540
Rc: 2540
PH: 6.7 T: 65°

#84A

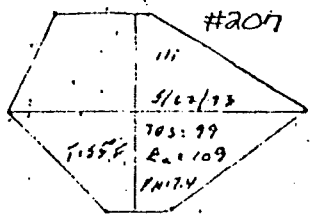
5/18/73
TDS: 2140
Rc: 3550
PH: 6.7 T: 120°

#43

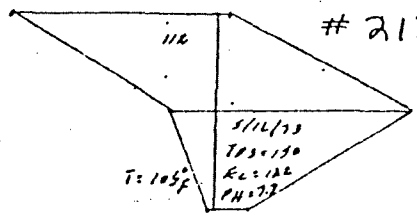
19/73
Rc: 1220
Rc: 1950
PH: 8.1 T: 54°



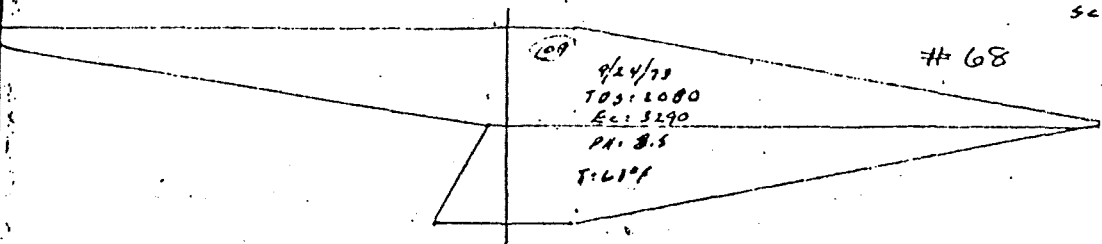
#123



#207

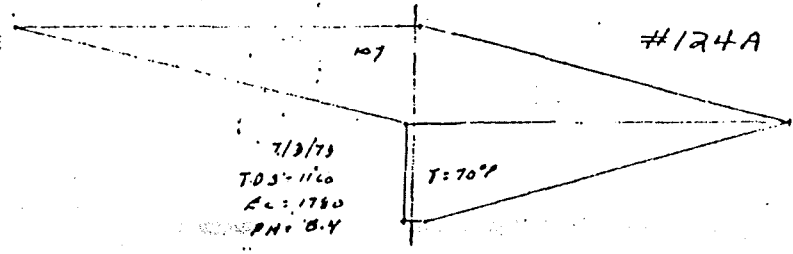


#213

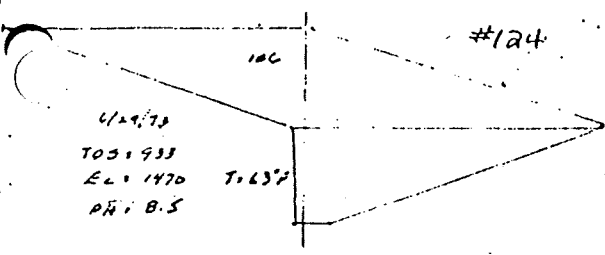


#68

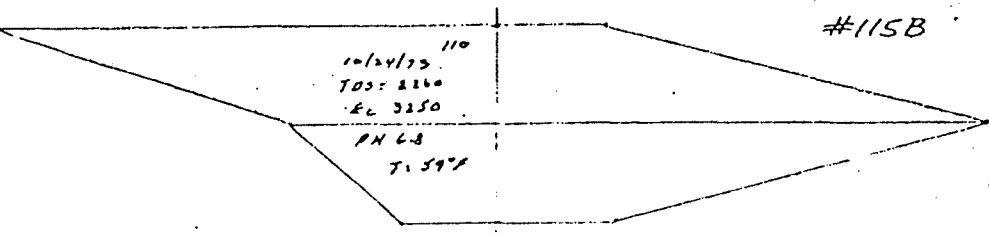
Scale 1" = 10' max/E.L.



#124A



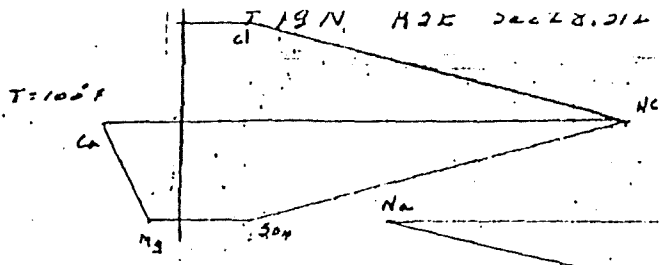
#124



#115B

#128 (ALL)

8/1/47
TOS = 234
EL = 283
PH = 7.3



12/1/74
TOS = 224
EL = 292
PH = 8.0

T=106

Trainer data

8/17/75
TOS = 250
EL = 244
PH = 8.1

T = 100°F

8/8/75
TOS = 236
PH = 7.99
L/B = 0.948

11/6/75
TOS = 200
PH = 8.11
L/B = 1.96

1/29/76
TOS = 233
PH = 8.27
L/B = 3.56

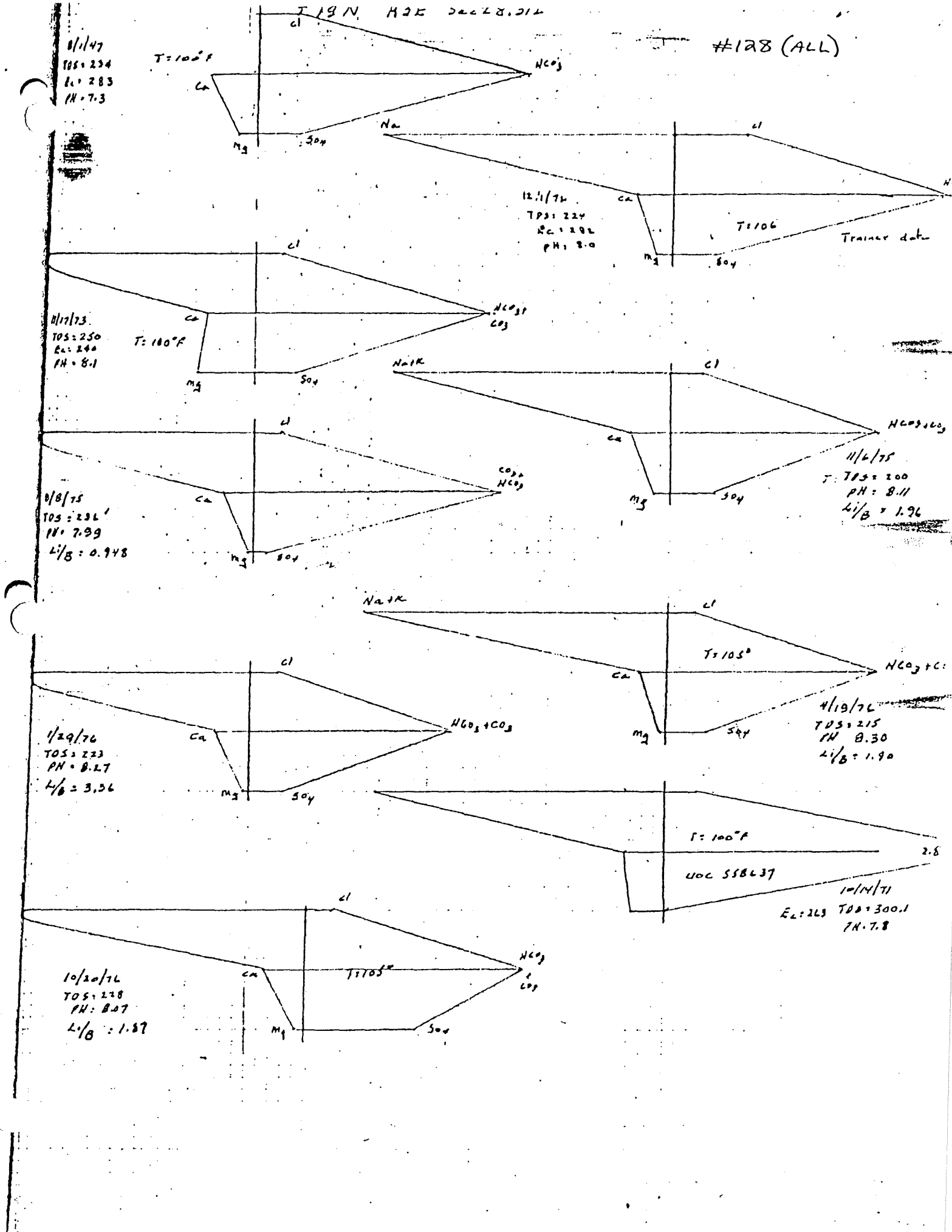
4/19/76
TOS = 215
PH = 8.30
L/B = 1.90

T = 100°F

UOC 558637

10/14/71
EL = 263 TOS = 300.1
PH = 7.8

10/20/76
TOS = 228
PH = 8.07
L/B = 1.87



Na+K

PROBABILE

Cl

HCO₃
CO₂

8/2/75
TDS 494'
PH: 7.98
Li/B: 0.0497

Na+K

Cl

HCO₃
CO₂

11/5/75
TDS 458
PH: 7.77
Li/B: 0.102

Na+K

Cl

HCO₃
CO₂

1/30/76
TDS 458
PH 7.63
Li/B = 0.139

Probable }
0

Na+K

Cl

HCO₃
CO₂

4/6/76
TDS 460
PH: 7.82
Li/B: 0.082

T: 64°F

Na+K

Cl

HCO₃+CO₂

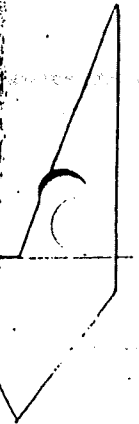
10/21/76
TDS 461
PH: 7.60
Li/B: 0.113
T: 66°F

TIGN R 3 E Sec 17.34E
#132 (ALL)

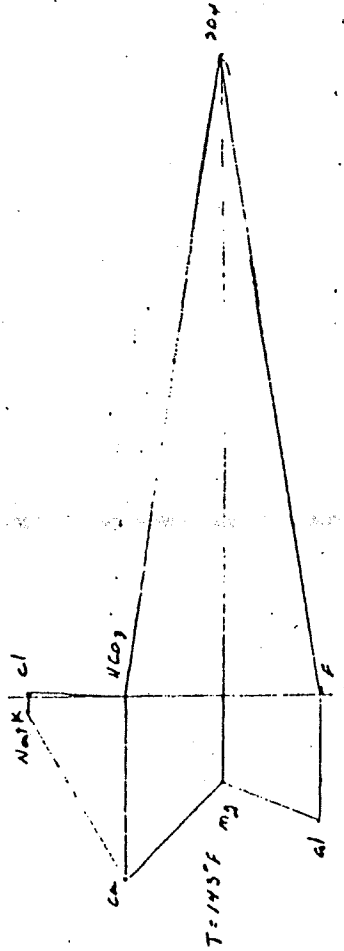
1" 2 mg/L

#145 (ALL)

(1)



703-967
 Ec: 1170
 PH: 131

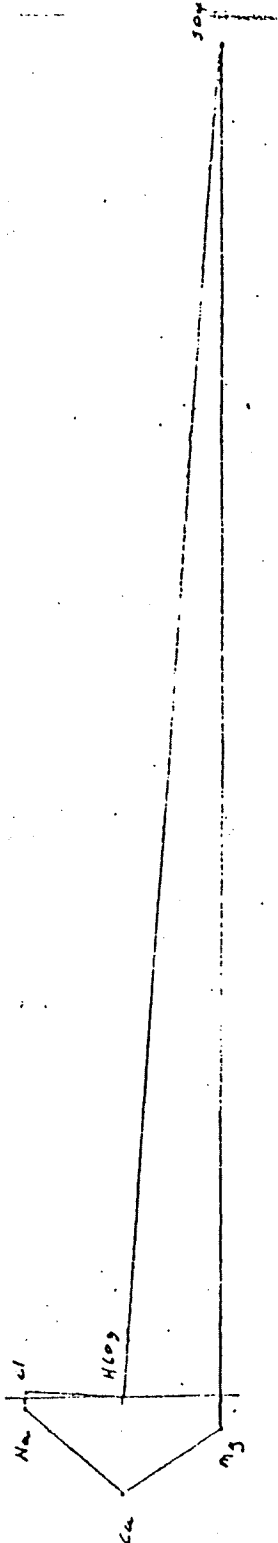


8/21/49
 703-1160
 Ec: 1570
 PH: 119

Trainer antw.



8/21/49
 703-2960
 Ec: 8810
 PH: 116

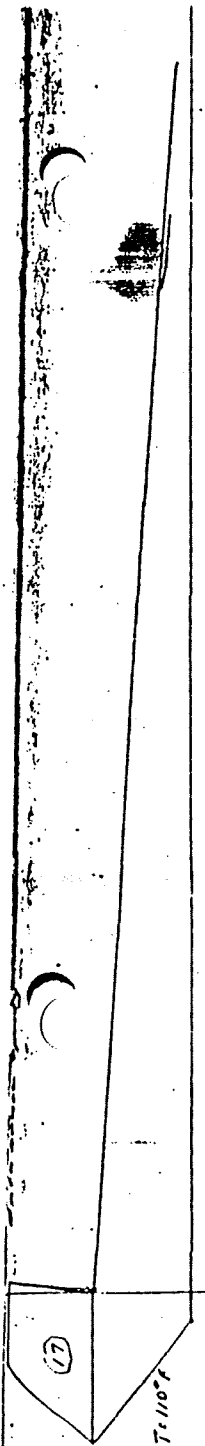


8/21/49
 703-3160
 Ec: 12700
 PH: 114



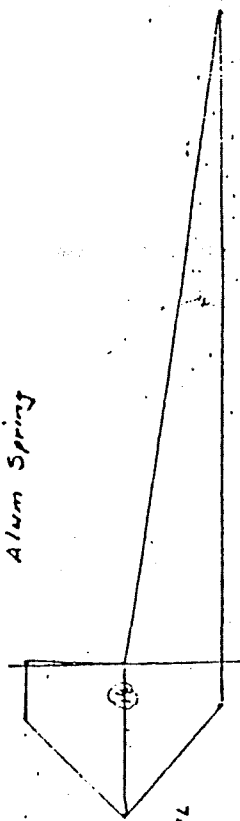
#145 (ALL)

(9)



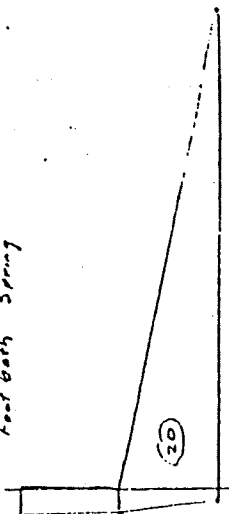
8/21/24
TOS: 7837

Alum Spring



8/21/24
TOS: 4344

Foot bath Spring



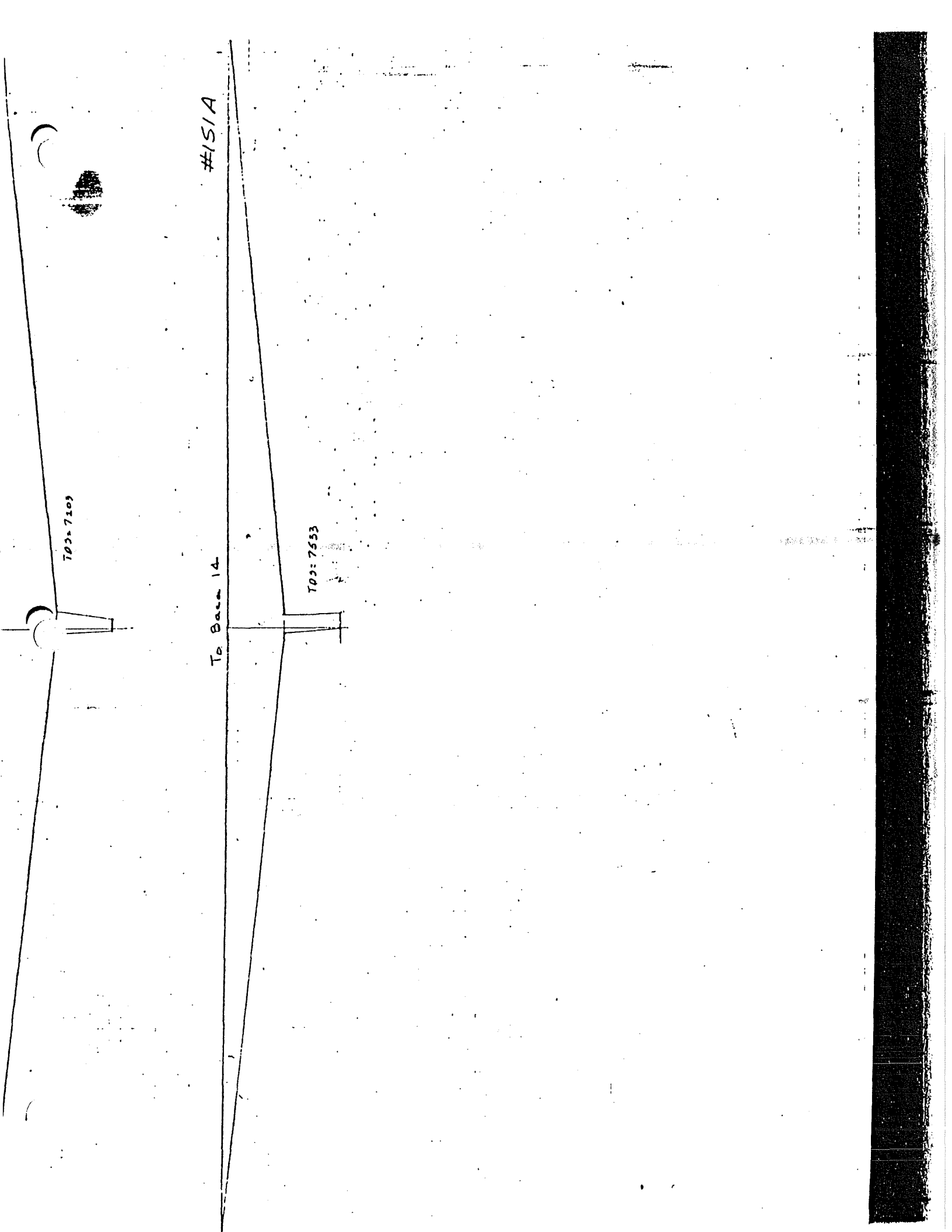
8/21/24
TOS: 2184

#151A

TOP: 7509

To Base 14

TOP: 7653



FLUID PRODUCTION

Baca No 4

#155

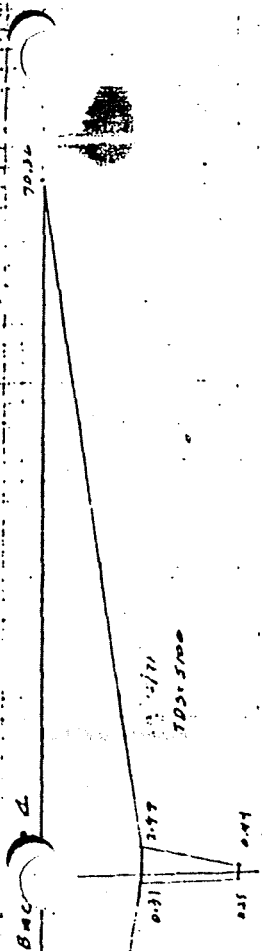
10/19/71
TOS-5100

Baca No 6

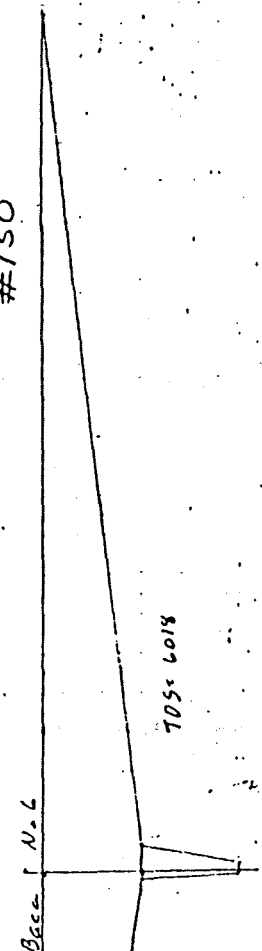
#150

82.91

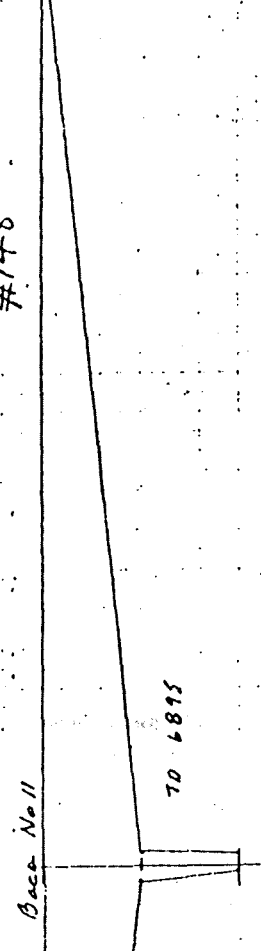
MISS 70334



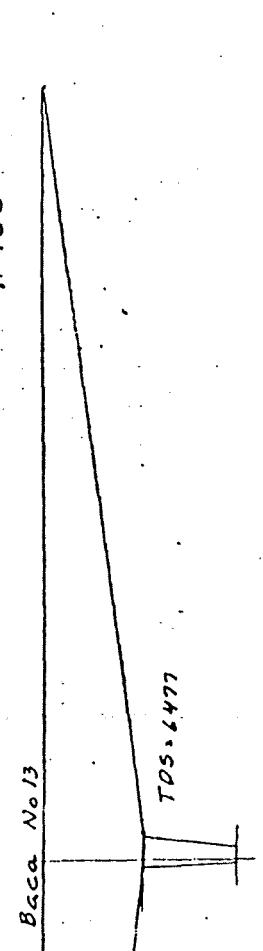
#150



#148



#156



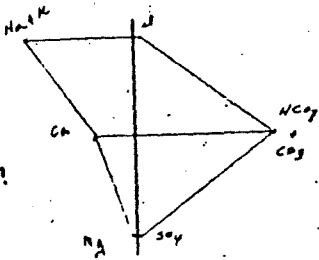
Dunnigan - owner
 T 19. N R 56 Sec 19. 134

Scale 10x
 1" = 1.0 mg/l

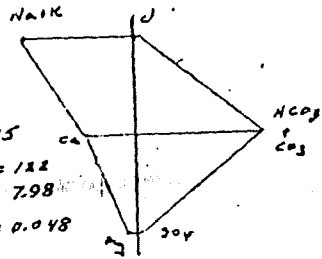
A₃

#168 (ALL)

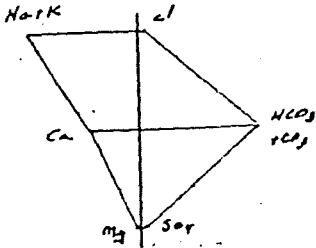
9/25/75
 TDS: 104
 PH: 7.70
 Li/B: 0.364



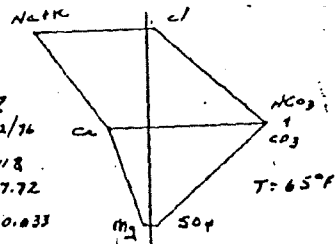
11/6/75
 TDS: 122
 PH: 7.98
 Li/B: 0.048



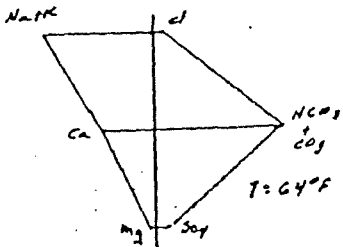
1/30/76
 TDS: 132
 PH: 8.11
 Li/B: 0.036



4/22/76
 TDS: 118
 PH: 7.72
 Li/B: 0.033



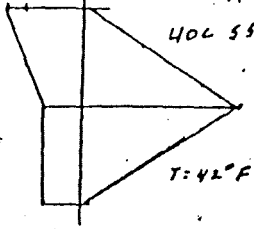
1/22/76
 TDS: 129
 PH: 7.96
 Li/B: 0.032



West Medio Spr. #172

UOC 558641

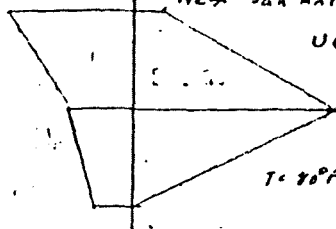
10/15/71
TDS: 71.5
E.C.: 77
PH: 7.7



West San Antonio #214

UOC 558639

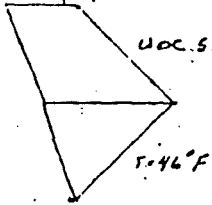
10/15/71
TDS: 127.7
E.C.: 94
PH: 8.0



Redondo Head Sp East #158

UOC 558644

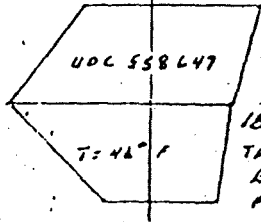
10/15/71
TDS: 50.9
E.C.: 47
PH: 7.0



West Weather Cr #165

UOC 558647

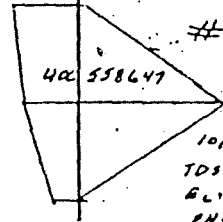
10/15/71
TDS: 108
E.C.: 132
PH: 7.0



Cerro Pina Spr #160

UOC 558647

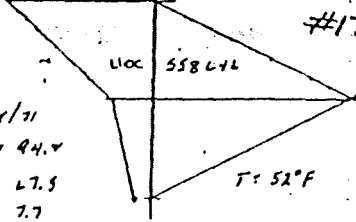
10/15/71
TDS: 87
E.C.: 88
PH: 7.0



Villa Grande Entrance Spr #176

UOC 558642

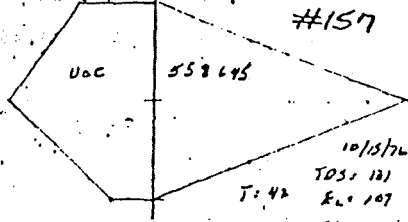
10/15/71
TDS: 94.4
E.C.: 7.5
PH: 7.7



Jaramillo Head Sp #157

UOC 558645

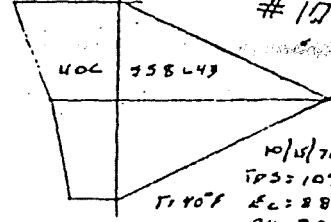
10/15/71
TDS: 121
E.C.: 107
PH: 6.3



West Medio Spr #171

UOC 558643

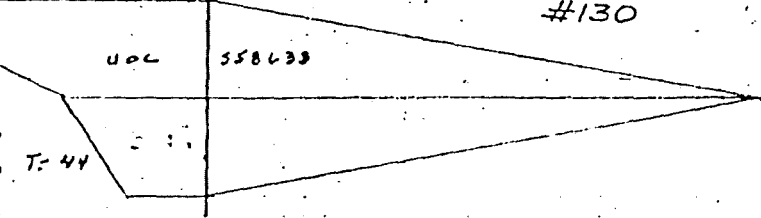
10/15/71
TDS: 109
E.C.: 88
PH: 7.2



Horseshoe Spr #130

UOC 558638

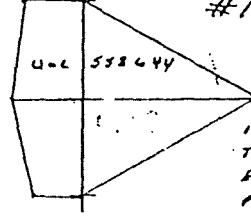
T=44



Jaramillo Cr. #159

UOC 558644

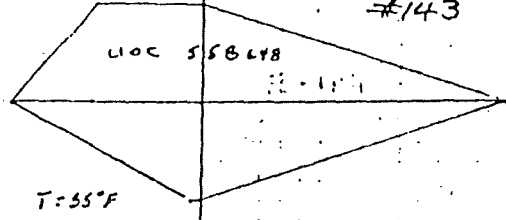
10/15/71
TDS: 94
E.C.: 47
PH: 7.5



Redondo Crack #143

UOC 558648

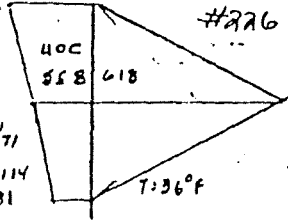
T=55°F



Puerto De Abrigo #226

UOC 558618

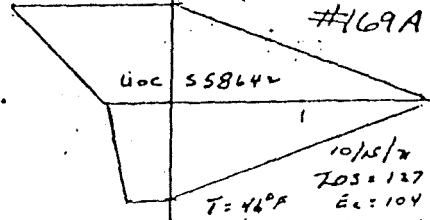
10/15/71
TDS: 114
E.C.: 81
PH: 7.0



South Medio Spr #169A

UOC 558642

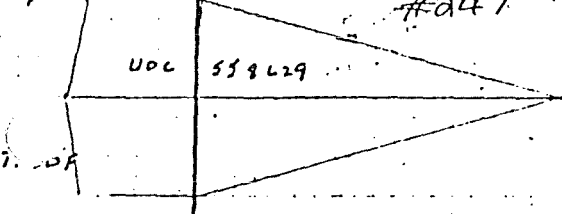
10/15/71
TDS: 127
E.C.: 104
PH: 7.2



Aqua Caliente Spr #247

UOC 558629

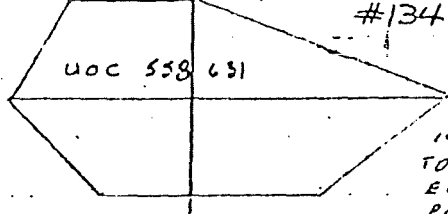
T=40°F



Laudermilk Spg #134A

UOC 558631

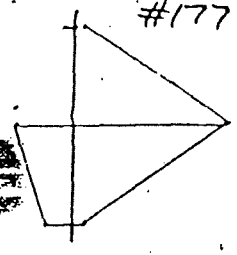
10/15/71
TDS: 209
E.C.: 180
PH: 7.4



2000 1 11 71

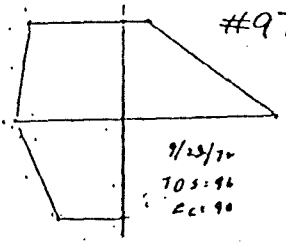
Site A

#177



Site B

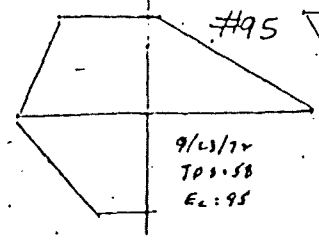
#97



9/23/71
 TOS: 96
 Ec: 96

Site C

#95

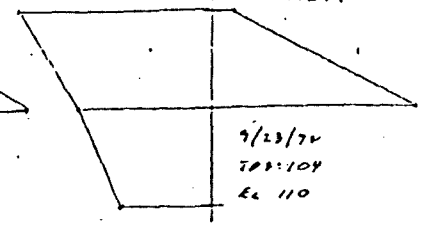


9/23/71
 TOS: 58
 Ec: 95

Site D

(A)

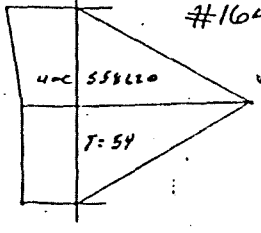
#126A



9/23/71
 TOS: 109
 Ec: 110

East from James Cr.

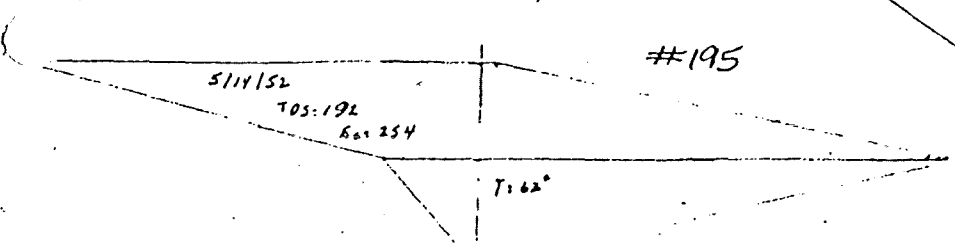
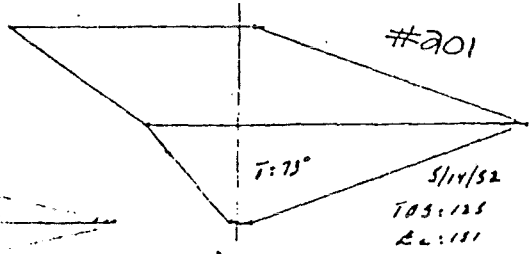
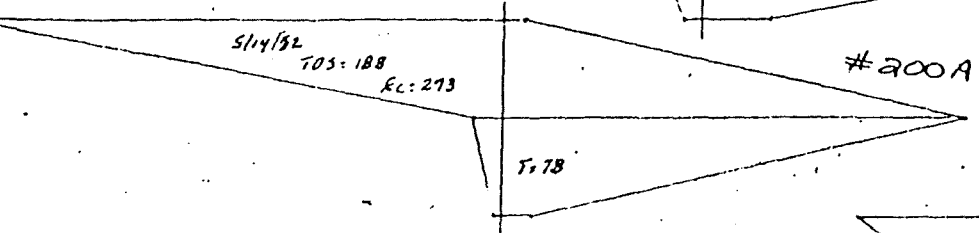
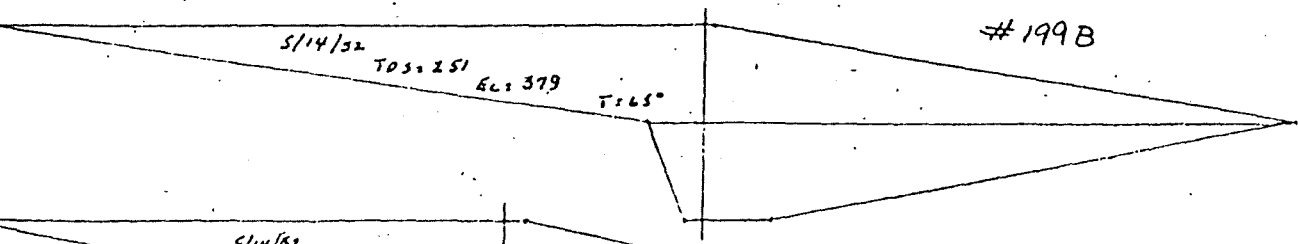
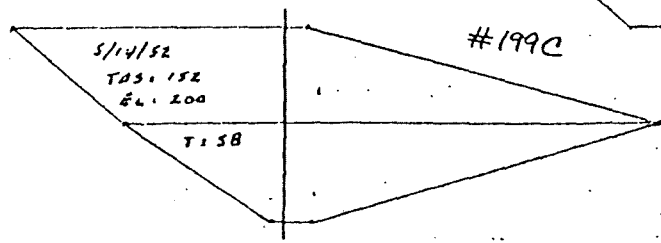
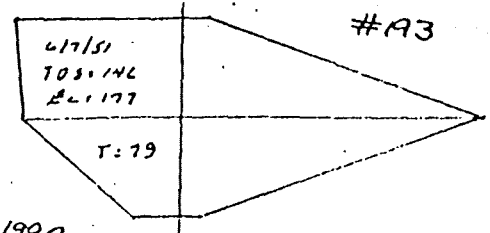
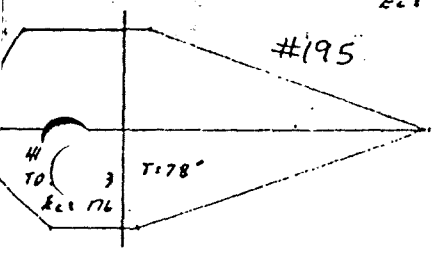
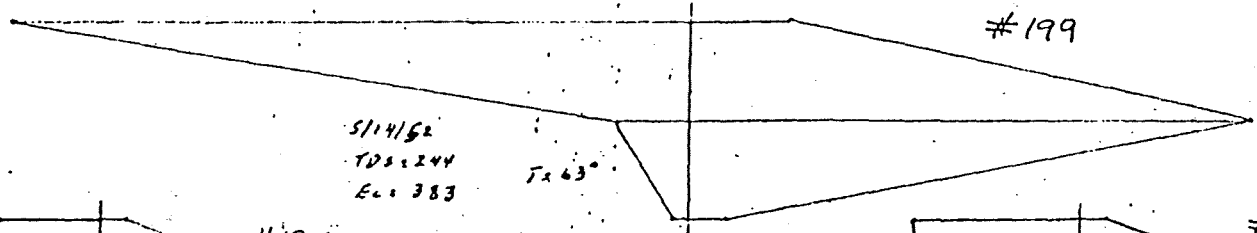
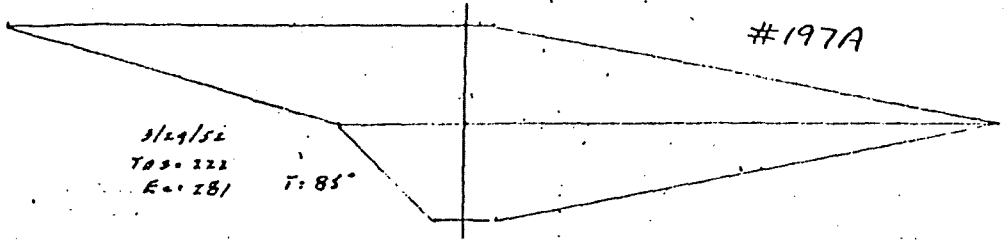
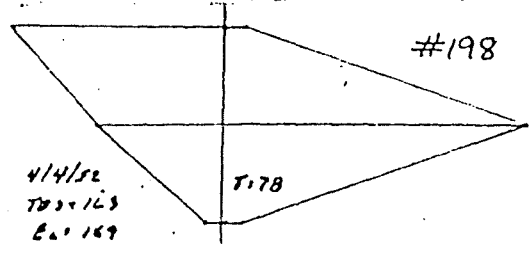
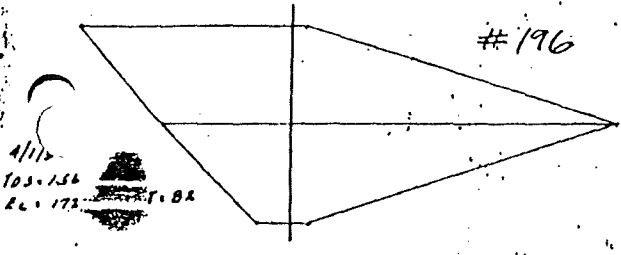
#164



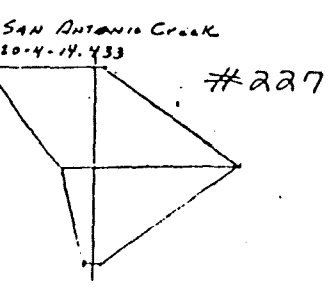
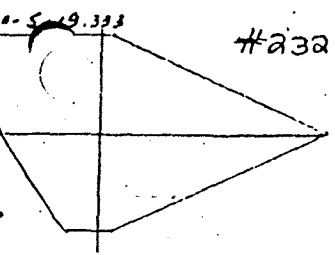
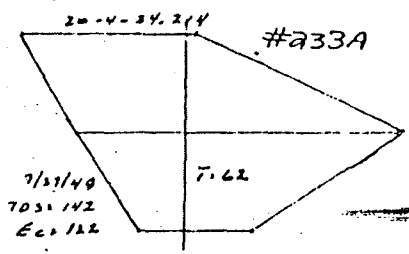
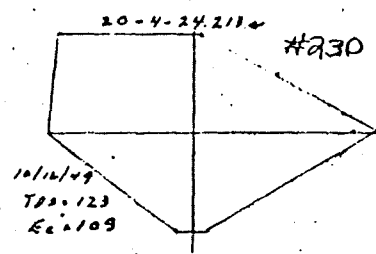
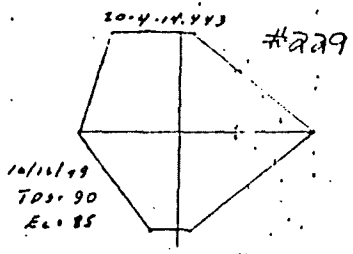
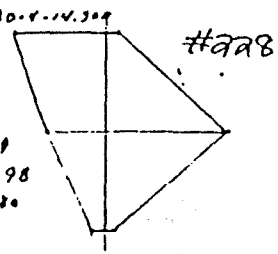
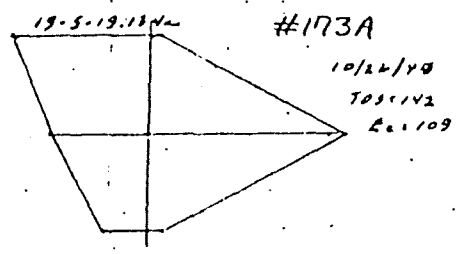
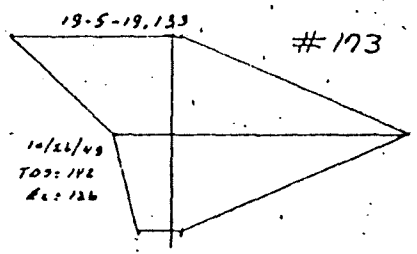
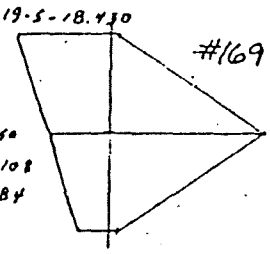
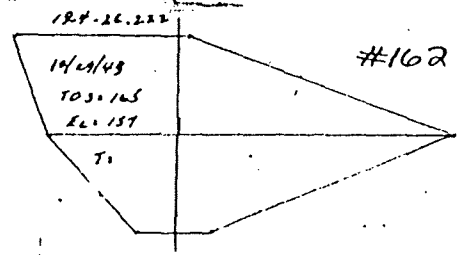
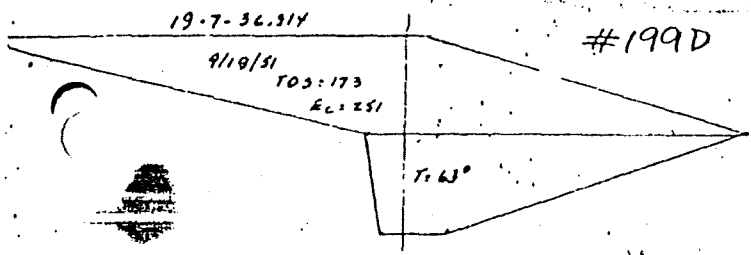
4-c 558220

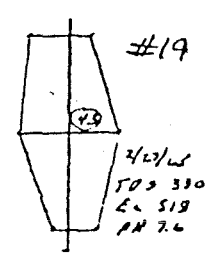
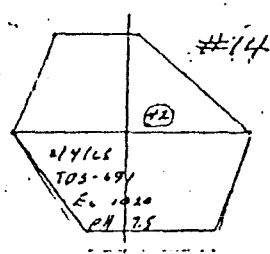
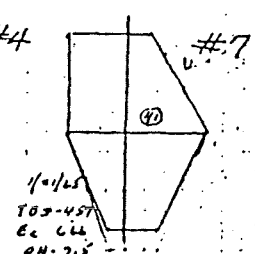
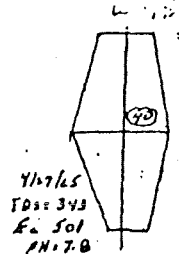
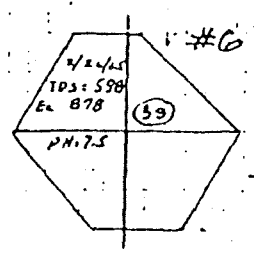
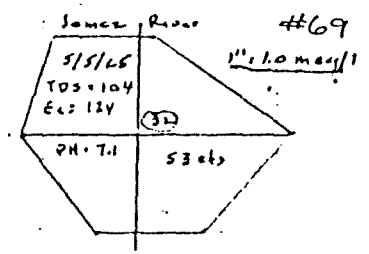
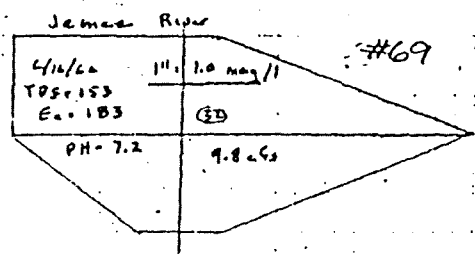
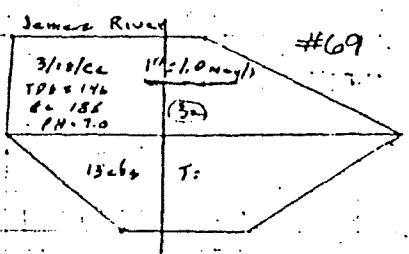
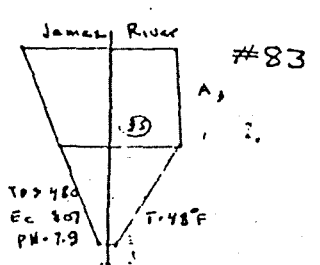
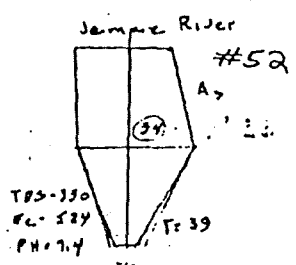
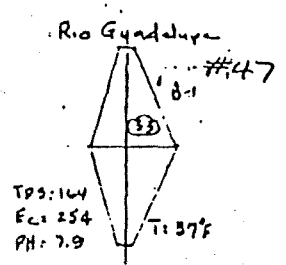
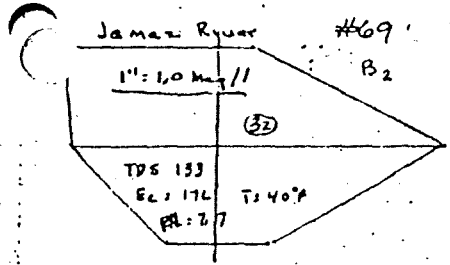
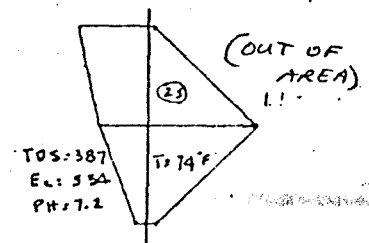
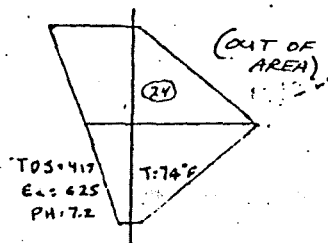
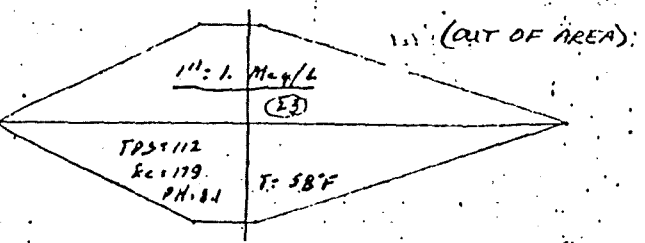
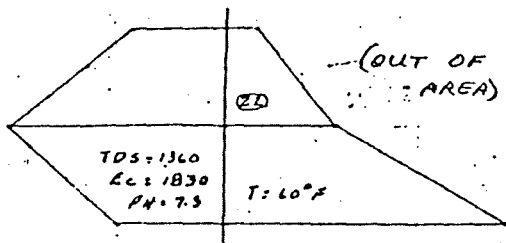
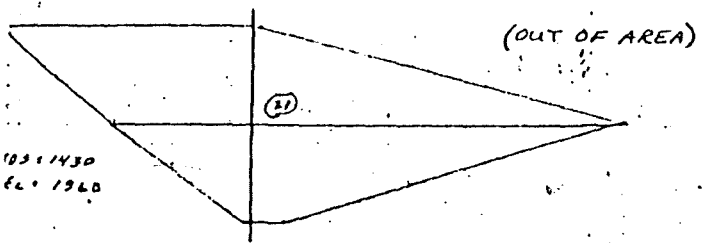
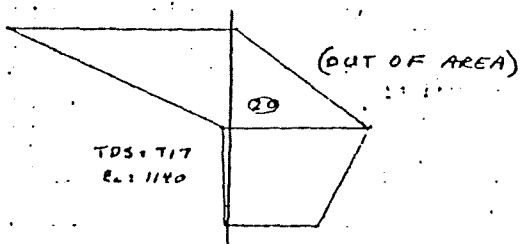
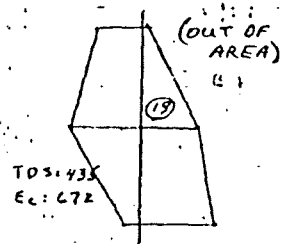
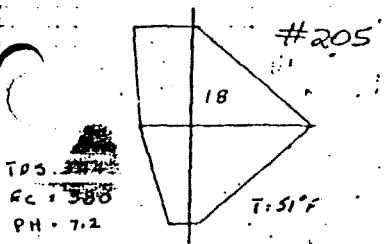
T: 54

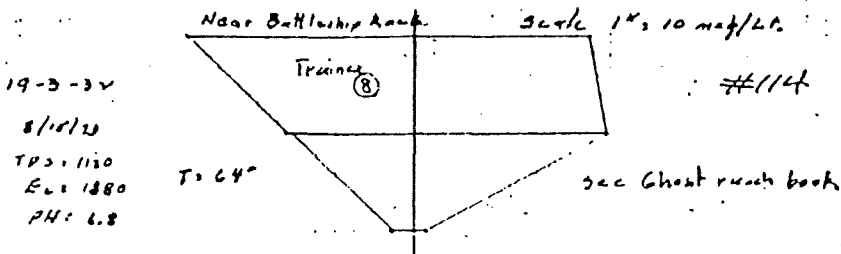
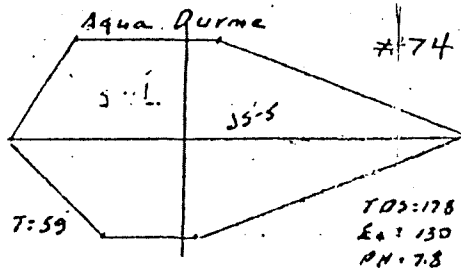
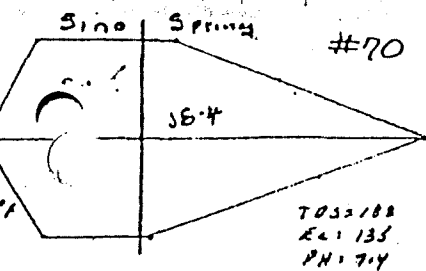
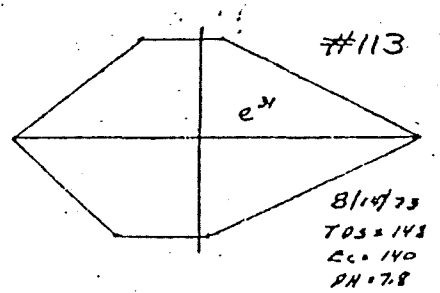
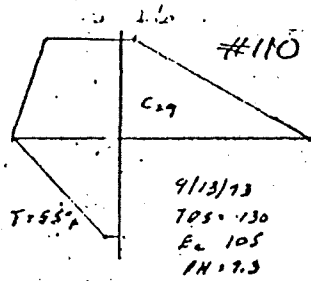
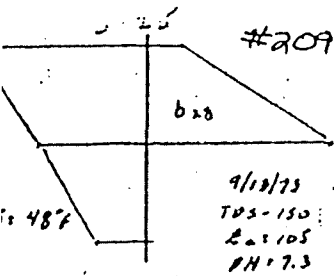
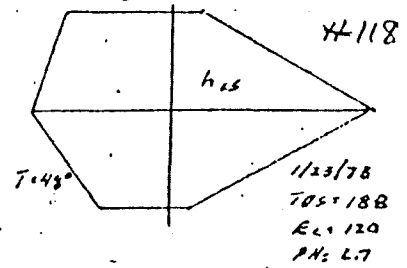
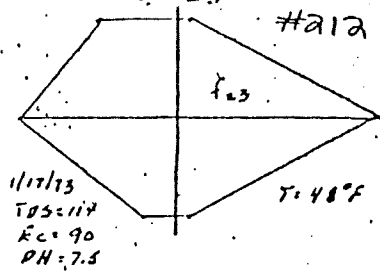
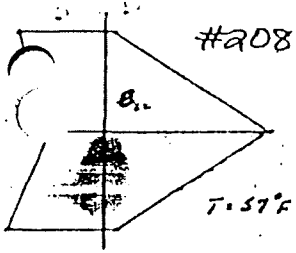
11/71
 11:40
 11:79
 11:85



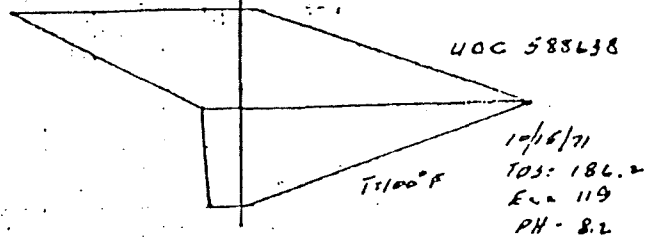
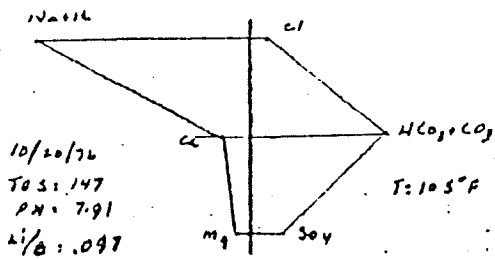
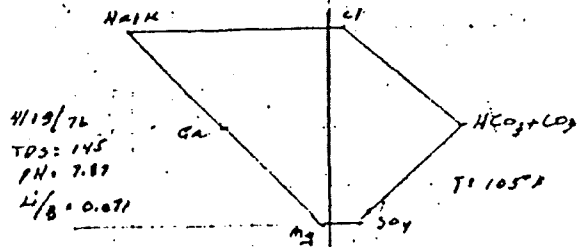
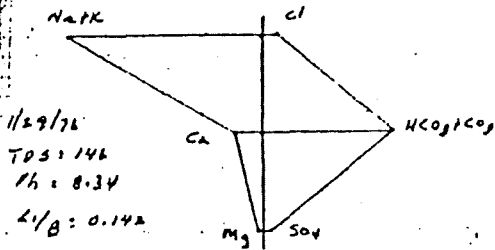
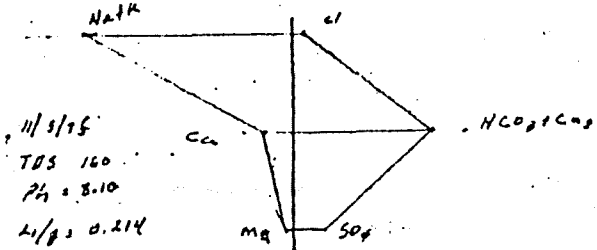
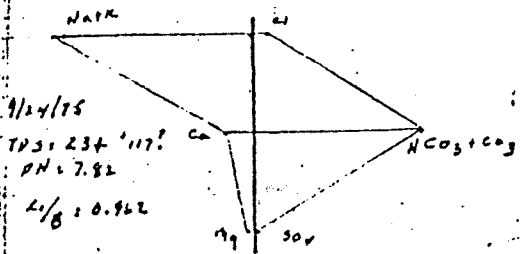
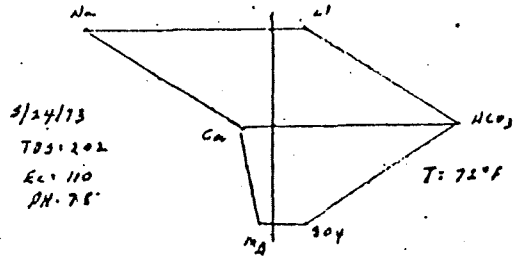
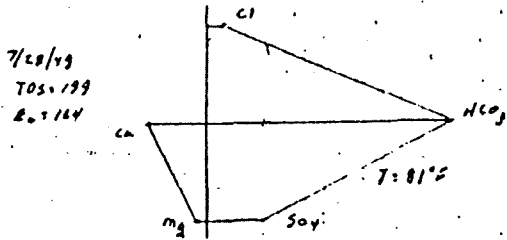
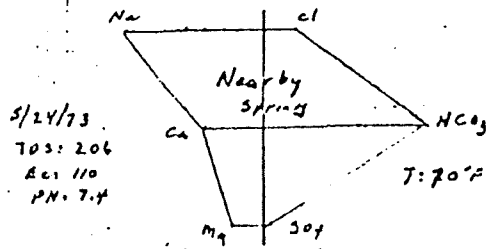
141 1.0 may 11



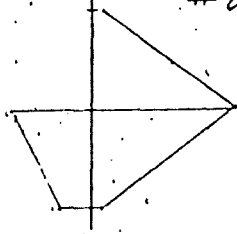




#213 (ALL)

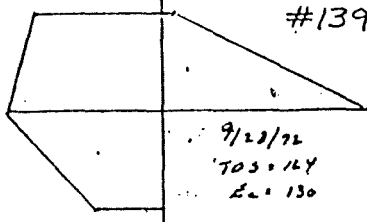


Site G #215



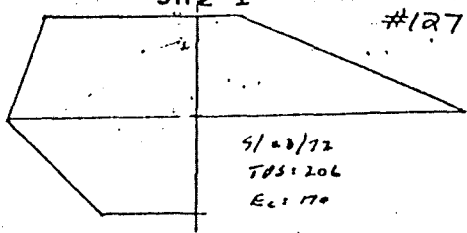
10/16/49
TOS: 105
E: 90

Site H #139



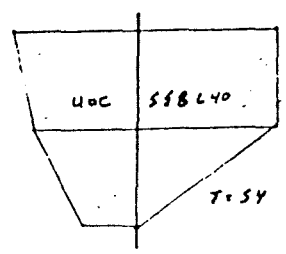
9/23/72
TOS: 144
E: 130

Site I #127



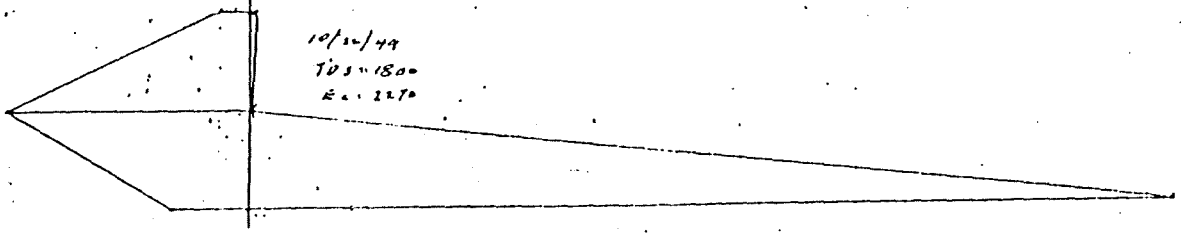
9/23/72
TOS: 206
E: 170

#216



10/15/71
TOS: 152.1
E: 130
PH: 8.5

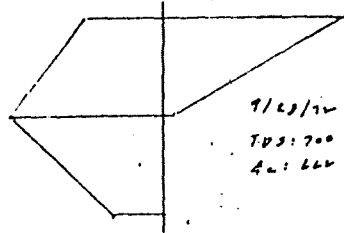
Site E #219



10/10/49
 TOS = 1800
 EL = 2270

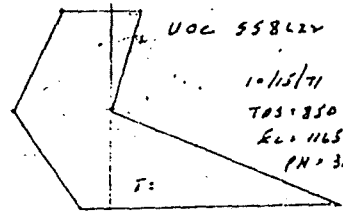
Site F

#140



9/29/49
 TOS = 700
 EL = 660

Scale 1" = 10 m/ft



UOC 55822V

10/15/71
 TOS = 850
 EL = 1165
 PH = 3.5

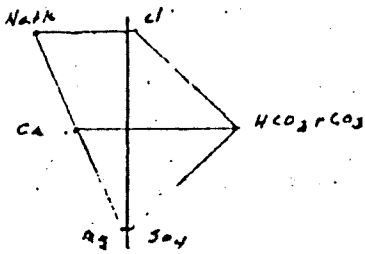
#141

T 20N R 4E Sec 24, 214

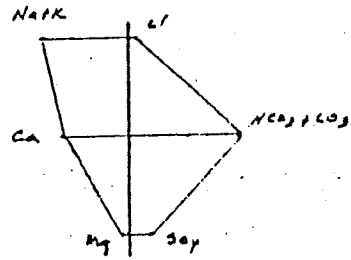
11/10 May/11

#230A (ALL)

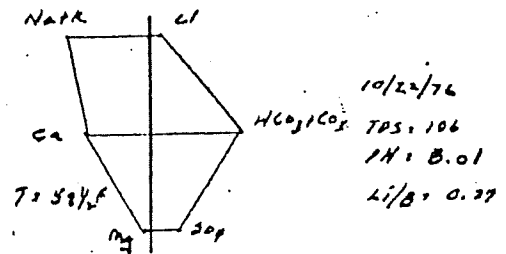
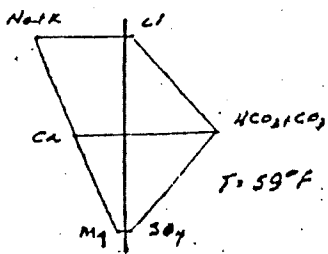
4/14/75
TDS = 160
PH = 7.67
Li/B = 0.113



11/4/75
TDS = 78
PH = 8.18
Li/B = 0.91



4/22/76
TDS = 85
PH = 7.76
Li/B = 0.071



10/22/76
TDS = 106
PH = 8.01
Li/B = 0.27

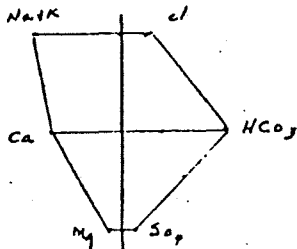
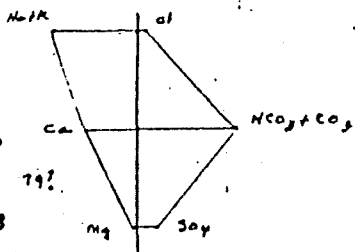
T = 58.4 F

T 20N R 5E Sec 19, 333

11/10/71

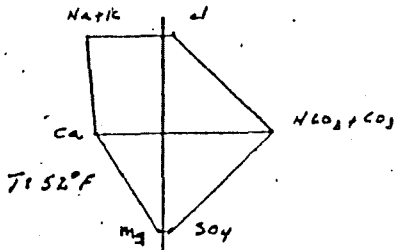
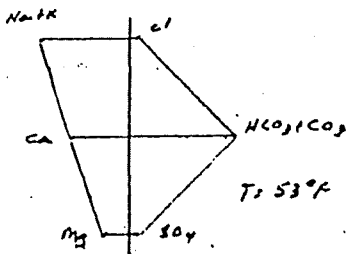
#232A (ALL)

75
H: 7.50
S: 158
L/B: .38



11/6/75
pH 7.32
TDS = 88
L/B = 0.143

76
110
8.10
0.13

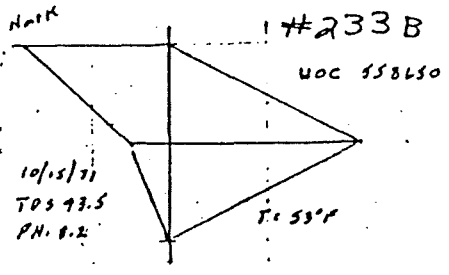
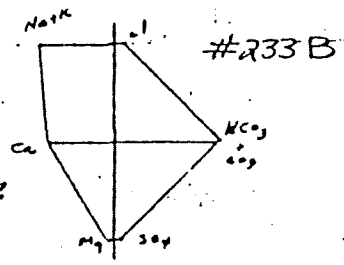


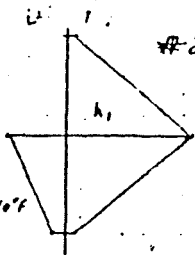
10/22/76
TDS = 103
pH = 7.67
L/B = 0.36

35-57-27 106-28-46

1" = 1.0 mag/liter

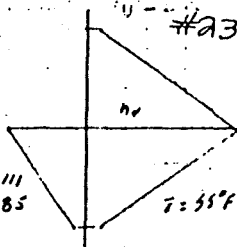
1/75
178 89?
7.41
0.0743





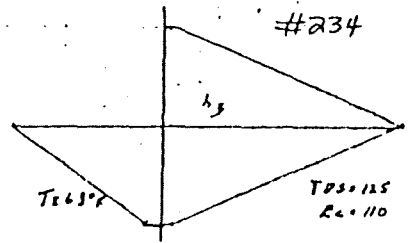
#235A

7/6/75
TOS=111
Ec=80 T=40°F



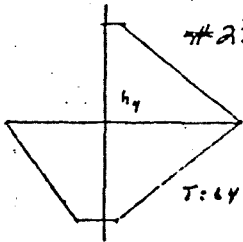
#235

TOS=111
Ec=85 T=55°F



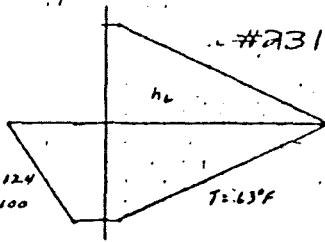
#234

T=63°F
TOS=115
Ec=110



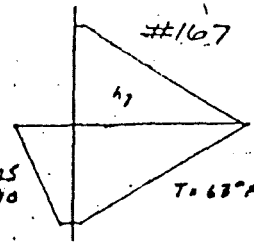
#233

TOS=90
Ec=85 T=64



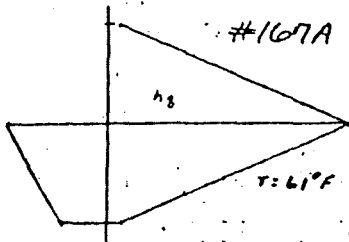
#231

TOS=124
Ec=100 T=63°F



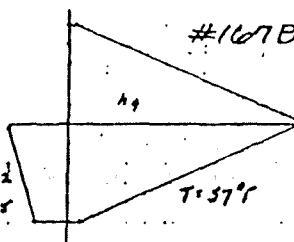
#167

TOS=125
Ec=90 T=68°F



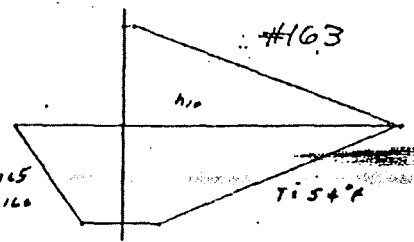
#167A

TOS=142
Ec=110 T=61°F



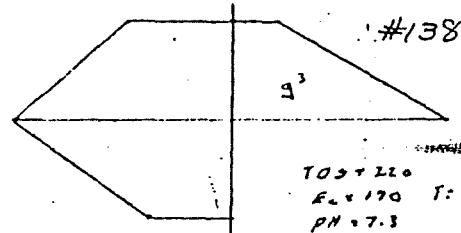
#167B

TOS=142
Ec=125 T=57°F



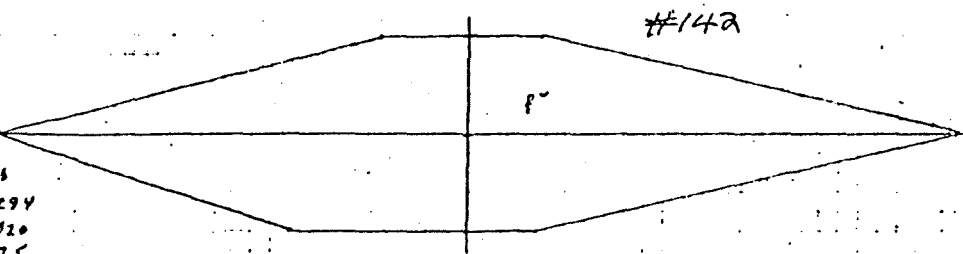
#163

T=65
Ec=160 T=54°F



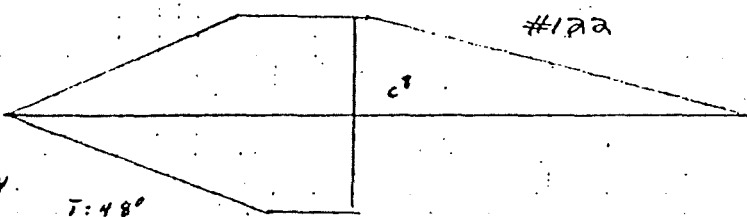
#138

TOS=220
Ec=170 T=54°F
PH=7.3



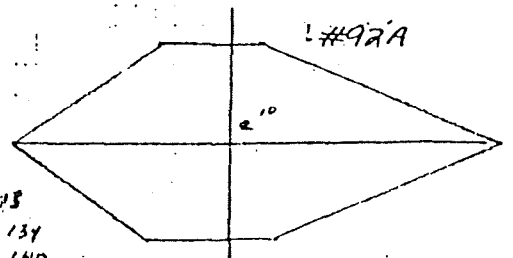
#142

75
294
320
7.5



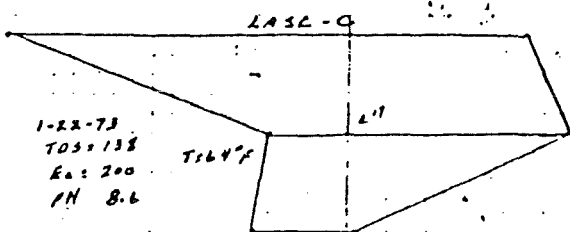
#122

6/8/73
TOS=204
Ec=220 T=48°
PH=7.5



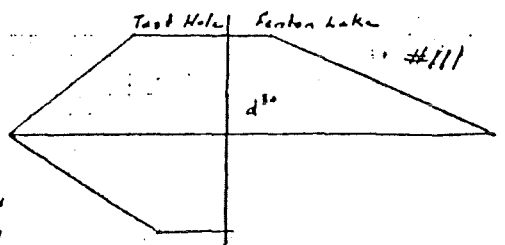
#92A

5/8/73
TOS=139
Ec=140
PH=7.1



#211

1-22-73
TOS=138
Ec=200
PH=8.6
T=64°F



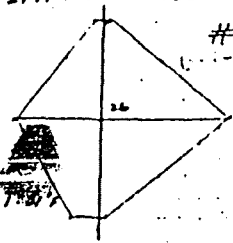
#111

10/9/73
TOS=164
Ec=169
PH=7.0

31N 2E 14.933

#243

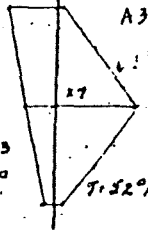
4/11/74
TOS=532
EL=570
PH=7.1



22N 5E 22.111

A3
#245

3/7/74
TOS=263
EL=430
PH=7.4



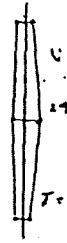
22N 5E 1.322

#247A

3/7/74
TOS=124
EL=147
PH=7.8



6/19/74
TOS=112
EL=120
PH=6.8



#246

T=61°F

23N 5E 15.212

#249

30

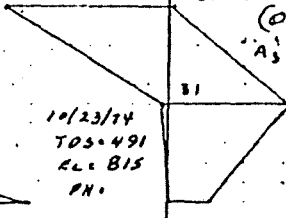
C-2

3/7/74
TOS=2390
EL=3190
PH=7.5

24N 2W 28.100

(OUT OF AREA)
A3

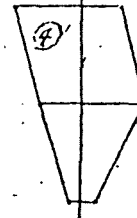
10/23/74
TOS=491
EL=815
PH=



#8

A3

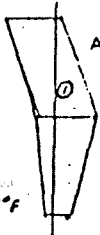
TOS=741
EL=642
T=81°F



#2

A3

TOS=265
EL=367
T=67°F



#3

A3

TOS=264
EL=352
PH=7.4

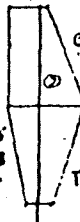


T=55°F

#5

B2

TOS=255
EL=348
PH=7.5

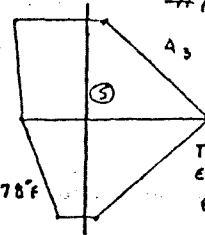


T=61°F

#12

A3

T=78°F



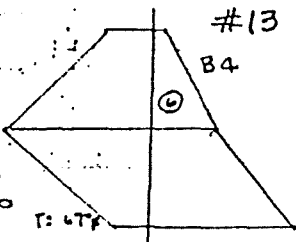
T=54°F
EL=749
PH=6.6

#13

B4

s=780
l=50

T=67°F

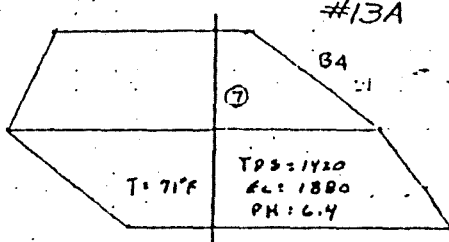


#13A

B4

T=71°F

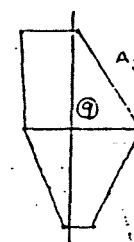
TOS=1420
EL=1880
PH=6.4



#20

A3

TOS=382
EL=490
PH=7.9



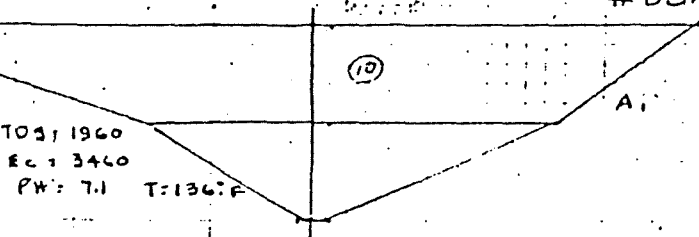
T=63°F

#85A

A1

TOS=1960
EL=3460
PH=7.1

T=136°F

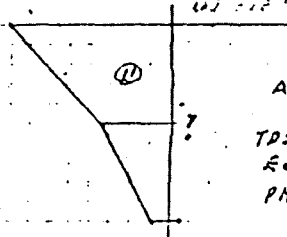


#86

A1?

TOS=580
EL=1340
PH=8.0

T=63°F

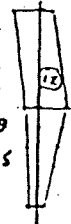


#93A

A3

TOS=179
EL=255

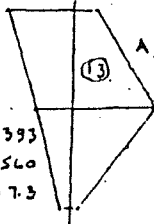
T=88°F



#91

A3

TOS=393
EL=560
PH=7.3



#115

B2

TOS=728
EL=1210
PH=6.4

T=62°F

