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Amax Anaytical Report
1979 H₂O Geothermal
Waters.

LAB AMAX - DENVER

F. Dellechiaie

10/15/79

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OCT 14 1979

PAGE 1 OF 2

ANALYTICAL REPORT

DATE 8/3/79

REQ. NO. 9058A JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHIAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	
01 W-13000	29	2.3	68	10	26	31 W-13000	<.1	0.6	85	13	0.2	
02	1	35	6.1	120	190	32	1	<.1	0.6	490	18	0.6
03	2	73	2.8	52	7	33	2	0.1	1.5	46	65	0.7
04	3	0.3	<.1	<.5	6	34	3	<.1	0.7	<10	8.0	<.1
05	4	170	8.3	52	<.5	35	4	<.1	2.0	110	230	0.5
06	5	150	3.4	90	27	36	5	<.1	1.0	180	110	1.6
07	6	54	1.4	80	14	37	6	<.1	0.9	42	49	0.4
08	7	3600	51	4	3	38	7	0.7	26	1500	4300	3.8
09	8	30	0.9	5	0.5	39	8	<.1	0.4	30	9.4	<.1
10 W-13009	110	1.1	4	<.5	36	40 W-13009	<.1	0.8	32	24	1.6	
11	10	880	14	170	30	41	10	0.4	22	1100	820	2.4
12	11	42	2.2	100	20	42	11	<.1	0.4	60	63	1.6
13	12	27	1.1	80	24	43	12	<.1	0.4	54	19	1.0
14	13	26	1.6	51	20	44	13	<.1	0.6	38	8.6	0.5
15	14	350	5.2	90	17	45	14	<.1	1.7	200	460	0.8
16	15	74	5.5	110	29	46	15	<.1	0.3	220	36	0.6
17	16	44	1.2	17	3	47	16	<.1	0.7	<10	13	0.5
18	17	<	<	NO SAMPLE	>	48	17	<	<	NO SAMPLE	>	>
19	18	86	2.5	21	1	49	18	0.1	0.7	190	13	7.0
20 W-13019	1900	15	12	6	44	50 W-13019	0.5	5.3	440	1300	17	
21	20	820	17	5	1	51	20	0.3	8.3	450	430	3.1
22	21	120	20	29	26	52	21	0.3	2.1	110	57	1.9
23	22	800	7.6	1	<.5	53	22	<.1	120	180	120	10
24	23	410	42	34	31	54	23	0.6	6.8	360	220	2.1
25	24	310	8.2	27	14	55	24	0.1	3.0	200	170	1.2
26	25	1000	33	29	32	56	25	0.5	10	1000	660	2.6
27	26	230	6.5	29	9	57	26	0.2	1.9	120	89	4.6
28	27	59	8.9	56	16	58	27	<.1	0.9	50	43	0.8
29	28	600	52	270	520	59	28	0.3	3.1	3600	280	1.3
30	29	34	1.6	53	18	60	29	<.1	0.7	38	48	0.2

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

NOTE: Mail Original to
 AMAX Exploration, Inc.,
 P. O. Box C
 Denver, Colorado 80226

Copies to: C.M. JENSEN-DENVER LAB
 1. F. DELLECHIAIE At GEOHERMAL
 2. GEOHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 8/3/79
 ANALYST CMJ
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9058A JOB NO. _____
 PROJECT 566
 REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13030	36	4.0	80	17	24	31 W-13030	<.1	0.7	62	50	0.4
02 .31	58	2.6	80	18	48	32 .31	<.1	0.7	58	53	0.7
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
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ANALYTICAL REPORT

DATE 9/7/79

REQ. NO. 9058B JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	
01 W-13032	32	3.0	100	28	56	31 W-13032	<.1	0.9	110	53	0.5	
02	33	1600	6.8	22	11	32	33	<.1	2.6	270	3100	7.4
03	34	180	4.9	21	5	24	33	0.1	1.0	120	97	1.6
04	35	51	4.2	62	11	44	34	<.1	0.2	42	51	0.9
05	36	120	4.0	70	33	34	35	<.1	0.5	240	85	1.2
06	37	870	11	310	110	20	36	0.4	4.7	2200	520	1.2
07	38	68	4.8	32	7	28	37	<.1	0.6	66	47	3.6
08	39	100	6.1	60	50	28	38	<.1	0.2	92	97	0.9
09	40	220	4.1	4	0.5	74	39	0.1	0.6	100	120	2.1
10 W-13041	90	7.6	140	54	48	48	40 W-	<.1	0.2	180	65	0.7
11	42	90	7.8	140	35	48	41	<.1	0.2	210	170	1.0
12	43	130	1.6	150	52	40	42	<.1	1.5	380	190	0.5
13	44	160	5.0	160	43	40	43	<.1	0.8	270	200	1.8
14	45	40	5.1	130	23	76	44	<.1	1.2	240	71	0.7
15	46	68	5.2	110	19	56	45	<.1	<.2	120	150	1.0
16	47	23	3.1	56	45	32	46	<.1	<.2	65	13	0.5
17	48	27	2.3	69	13	44	47	<.1	<.2	38	14	0.7
18	49	71	2.9	14	6	36	48	<.1	0.3	24	18	0.9
19	50	190	4.1	32	3	34	49	0.2	1.2	160	110	7.4
20 W-13051	270	1.4	43	0.5	46	46	50 W-13051	0.1	0.7	210	280	2.9
21	52	35	2.3	90	19	40	51	<.1	0.3	40	44	2.0
22	53	25	6.0	50	9	58	52	<.1	1.8	28	20	2.4
23	54	130	3.5	31	11	20	53	<.1	0.9	55	73	1.8
24	55	160	4.8	80	15	40	54	0.1	0.2	110	68	1.4
25	56	86	9.6	160	27	66	55	0.3	0.9	120	190	0.7
26	57	100	5.7	80	21	48	56	0.1	0.3	70	130	2.9
27	58	100	5.6	48	12	46	57	<.1	0.4	40	120	0.5
28	59	24	2.4	90	28	68	58	<.1	0.6	45	39	0.4
29	60	55	9.4	36	10	84	59	<.1	0.9	20	29	0.5
30	61	44	6.2	70	21	68	60	<.1	<.2	40	37	0.5

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA

B: CARMINIC ACID COLORIMETRIC

F: SPECIFIC ION ELECTRODE

REMARKS:

Cl: MERCURIMETRIC TITRATION

SO₄: TURBIDIMETRIC

RECEIVED
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 E & ME DIVISION

NOTE: Mail Original to
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Copies to: C.M. JENSEN-DENVER LAB

1. F. DELLECHAIE At GEOTHERMAL

2. GEOTHERMAL OFFICE At LAKESIDE

3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 9/7/79

REQ. NO. 9058B JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13062	120	9.8	68	17	64	31 W-13062	<.1	0.7	120	93	0.7
02 63	93	4.9	150	46	52	32 63	<.1	0.2	280	87	2.1
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
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ANALYTICAL REPORT

DATE 9/11/79

REQ. NO. 90580 JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	← NO SAMPLE →					31	← NO SAMPLE →						
02	65	39	5.7	45	19	68	32	65	<.1	0.4	22	35	0.6
03	66	390	19	400	240	56	33	66	0.1	1.0	700	1000	2.8
04	67	280	2.9	57	13	30	34	67	<.1	0.5	160	170	6.5
05	68	110	5.7	150	110	28	35	68	<.1	<.2	450	120	3.1
06	69	29	6.9	44	12	88	36	69	<.1	<.2	16	25	0.4
07	70	11	2.0	54	18	54	37	70	<.1	0.8	11	14	0.2
08	71	19	3.2	44	24	58	38	71	<.1	0.2	18	37	0.3
09	72	48	0.7	100	17	40	39	72	<.1	0.4	60	38	1.0
10	← NO SAMPLE →					40	← NO SAMPLE →						
11	74	140	4.8	12	<.5	20	41	74	0.1	0.8	70	62	6.6
12	75	91	0.9	70	8	38	42	75	<.1	0.3	90	54	0.7
13	76	180	3.1	13	<.5	18	43	76	<.1	0.7	180	86	2.9
14	77	41	1.7	46	7	30	44	77	<.1	0.4	24	39	3.0
15	78	57	3.1	70	12	26	45	78	<.1	0.3	44	57	3.7
16	79	780	2.3	340	2	22	46	79	1.0	2.1	280	2600	3.8
17	80	54	8.1	49	14	44	47	80	<.1	0.8	42	41	0.9
18	81	320	12	51	9	20	48	81	<.1	0.8	550	130	7.0
19	82	520	13	130	6	44	49	82	0.6	2.6	1100	310	5.8
20	← NO SAMPLE →					50	← NO SAMPLE →						
21	84	45	2.1	14	2	20	51	84	<.1	<.2	12	13	1.1
22	85	60	3.8	160	25	28	52	85	<.1	0.4	60	40	0.7
23	86	200	4.4	16	<.5	18	53	86	<.1	2.0	400	80	3.2
24	87	59	7.8	30	8	20	54	87	<.1	0.3	150	17	0.8
25	88	700	10	17	21	18	55	88	1.5	3.7	140	1000	2.8
26	89	1100	55	220	19	82	56	89	3.9	2.6	220	1600	5.0
27	90	1200	61	340	30	52	57	90	4.8	3.8	200	1900	3.8
28	91	230	2.7	20	2	12	58	91	<.1	<.2	350	138	6.0
29	92	3100	6.2	340	240	12	59	92	0.8	3.6	1900	4600	2.8
30	93	1900	11	210	34	12	60	93	0.3	2.9	1400	3500	6.6

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

DATE 9/11/79

REQ. NO. 90580 JOB NO. _____

ANALYST CMJ

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	
01 W-13094	800	14	31	<.5	40	31 W-113094	0.4	1.5	440	1000	5.9	
02	95	420	28	200	2	140	95	0.1	0.5	130	1100	7.8
03	96	70	3.1	4	0.5	24	96	<.1	<0.2	54	29	1.0
04						34						
05						35						
06						36						
07						37						
08						38						
09						39						
10 W-						40 W-						
11						41						
12						42						
13						43						
14						44						
15						45						
16						46						
17						47						
18						48						
19						49						
20 W-						50 W-						
21						51						
22						52						
23						53						
24						54						
25						55						
26						56						
27						57						
28						58						
29						59						
30						60						

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
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DATE 9/13/79

REQ. NO. 90580 JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13097	1200	2.4	50	6	28	31 W-13097	1.2	1.9	360	2300	3.2
02 98	180	2.2	17	<.5	16	32 98	0.2	1.0	150	120	1.4
03 99	680	3.1	120	6	28	33 99	0.2	1.2	410	900	1.0
04 100	20	2.7	90	7	32	34 100	<.1	2.2	21	23	0.2
05 1	990	8.3	340	34	46	35 1	0.5	0.5	750	1500	1.0
06 2	480	5.9	47	7	34	36 2	0.2	1.0	450	440	2.5
07 3	170	4.2	25	8	50	37 3	0.1	0.8	38	63	1.6
08 4	56	3.3	70	36	38	38 4	<.1	0.3	38	58	0.5
09 5	66	1.5	39	14	42	39 5	<.1	2.2	30	19	1.0
10 W-13106	76	1.6	70	12	40	40 W-13106	<.1	0.4	60	62	0.4
11 7	150	4.9	10	2	44	41 7	0.1	0.3	95	81	9.8
12 8	170	5.5	11	2	38	42 8	0.1	1.3	170	89	8.8
13 9	290	6.9	14	12	20	43 9	0.1	0.5	170	270	3.4
14 10	220	2.5	46	32	32	44 10	0.1	0.3	200	110	2.2
15 11	71	3.4	32	5	24	45 11	<.1	2.2	37	8.6	0.6
16 12	140	2.3	12	6	16	46 12	0.1	2.2	110	93	5.4
17 13	20	2.4	70	18	56	47 13	<.1	0.7	210	7.0	0.3
18 14	1100	7.7	80	5	94	48 14	2.6	3.2	150	1500	7.0
19 15	23	1.5	74	16	48	49 15	<.1	0.6	210	4.0	0.2
20 W-13116	500	4.3	70	16	72	50 W-13116	0.3	0.9	460	480	6.9
21 17	270	8.7	100	11	44	51 17	0.3	0.7	170	500	3.3
22 18	390	2.3	39	1	28	52 18	0.4	1.4	250	400	5.6
23 19	2000	3.5	230	180	38	53 19	5.5	7.7	260	3500	1.8
24 20	1100	8.0	190	100	32	54 20	0.4	1.5	1200	1000	2.3
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
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OCT 10 1970

ANALYTICAL REPORT

DATE 10/12/79

REQ. NO. 9086A JOB NO. _____

ANALYST CMJ,SH

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	PPM	
01	W-13121	290	4.2	36	0.6	18	31	W-13121	0.1	1.0	140	350	2.5
02	22	800	8.2	90	10	26	32	22	0.3	1.6	410	990	5.0
03	23	210	4.6	43	11	36	33	23	0.1	0.8	100	160	4.7
04	24	53	2.0	60	16	48	34	24	<.1	0.2	47	33	0.4
05	25	160	6.5	100	33	22	35	25	<.1	0.2	380	150	0.5
06	26	140	5.7	90	31	14	36	26	<.1	0.2	340	120	0.4
07	27	91	3.3	70	16	20	37	27	<.1	<.2	92	120	0.2
08	28	84	7.1	11	1	40	38	28	<.1	0.2	21	33	0.9
09	29	160	3.3	20	6	50	39	29	0.1	0.5	72	110	4.7
10	W-13130	110	4.1	30	10	64	40	W-13130	<.1	0.4	57	86	2.3
11	31	340	4.5	8	5	58	41	31	<.1	1.4	59	90	3.3
12	32	9.0	2.1	90	12	44	42	32	<.1	<.2	18	7.2	0.2
13	33	74	3.0	50	8	36	43	33	<.1	0.3	28	36	0.6
14	34	45	1.3	70	28	38	44	34	<.1	0.4	11	6.8	0.3
15	35	11	3.3	75	14	44	45	35	<.1	<.2	26	10	0.5
16	36	160	2.6	30	19	50	46	36	<.1	0.5	34	42	0.6
17	37	210	0.9	85	80	58	47	37	<.1	0.8	150	350	0.9
18	38	59	1.6	80	44	88	48	38	<.1	0.5	31	57	1.0
19	39	1600	8.2	140	94	42	49	39	0.2	1.5	860	2100	1.3
20	W-13140	190	2.2	70	39	32	50	W-13140	0.1	0.7	170	200	0.7
21	41	← NO SAMPLE →					51	41	← NO SAMPLE →				
22	42	92	0.7	4	0.6	18	52	42	<.1	0.7	36	20	1.6
23	43	95	1.3	2	<0.5	30	53	43	0.1	0.2	16	20	2.2
24	44	79	3.4	18	10	46	54	44	<.1	0.4	33	64	1.3
25	45	56	1.8	50	8	42	55	45	<.1	0.2	<10	5.6	0.3
26	46	33	4.5	55	27	74	56	46	<.1	0.5	12	20	0.5
27	47	88	4.5	15	12	38	57	47	<.1	0.2	41	50	0.6
28	48	100	3.4	18	4	30	58	48	0.1	1.2	35	50	1.2
29	49	57	7.2	65	39	48	59	49	<.1	0.3	22	70	0.9
30	50	110	2.3	20	10	26	60	50	<.1	0.4	40	67	0.8

METHODS:

- Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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 2. GEOHERMAL OFFICE At _____
 3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 11/5/79

REQ. NO. 90868 JOB NO. _____

ANALYST CMJ, SCH

PROJECT _____

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F			
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM			
01	W-13151	51	1.5	150	60	78	31	W-13151	<.1	20.2	49	120	0.4	
02		52	250	1.4	300	160	70	32	52	0.1	0.3	270	970	0.4
03		53	65	1.5	12	2	20	33	53	<.1	0.2	8.2	16	0.6
04		54	70	3.1	200	78	62	34	54	<.1	20.2	35	260	0.5
05		55	280	4.3	70	5	24	35	55	0.2	0.8	140	400	0.7
06		56	82	3.0	35	7	36	36	56	<.1	0.4	24	32	5.8
07		57	100	1.7	7	1	28	37	57	0.1	0.3	17	28	0.8
08		58	39	1.7	100	22	70	38	58	<.1	20.2	33	68	0.8
09		59	410	5.6	75	4	36	39	59	0.4	1.2	190	620	5.0
10	W-13160	1000	11	240	26	36	40	W-13160	0.5	2.1	680	1400	3.5	
11		61	270	2.4	34	2	20	41	61	0.3	1.8	180	280	7.6
12		62	210	2.7	30	2	40	42	62	0.3	1.8	150	210	7.0
13		63	250	1.6	5	20.5	28	43	63	0.2	1.2	160	200	5.6
14		64	320	5.4	65	4	48	44	64	0.3	1.1	160	440	5.4
15		65	2100	11	560	39	38	45	65	0.6	8.3	3200	1500	3.8
16		66	400	8.6	60	3	28	46	66	0.3	1.1	140	560	5.2
17		67	330	6.7	55	3	22	47	67	0.2	0.8	98	470	3.7
18		68	300	7.2	120	18	24	48	68	0.2	0.6	110	770	1.5
19		69	800	7.3	330	94	26	49	69	0.3	1.2	570	1500	0.7
20	W-13170	430	6.5	210	64	26	50	W-13170	0.2	0.8	380	880	1.0	
21		71	310	4.6	27	0.5	20	51	71	0.4	0.6	110	390	5.8
22		72	180	4.1	49	10	18	52	72	0.1	0.5	94	220	1.1
23								53						
24								54						
25								55						
26								56						
27								57						
28								58						
29								59						
30								60						

METHODS:

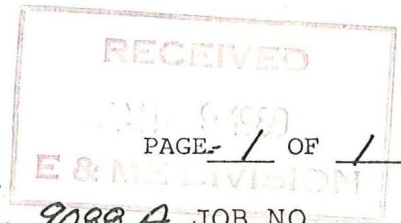
- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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 2. GEOTHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB

LAB AMAX - DENVER



ANALYTICAL REPORT

DATE 11/14/80
 ANALYST C.M.J., SCH
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9088A JOB NO. _____
 PROJECT 566
 REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	W-13173	460	7.8	370	140	22	31	W-13173	0.2	0.7	420	1200	0.3
02	74	←	MISSING	→			32	74	←	MISSING	→		
03	75	320	3.1	17	5	34	33	75	0.1	1.0	230	230	5.0
04	76	170	0.7	31	15	44	34	76	<.1	0.3	110	83	0.8
05	77	180	3.4	16	3	48	35	77	0.2	0.7	84	150	5.2
06	78	110	1.6	10	4	38	36	78	<.1	0.4	41	45	0.8
07	79	300	2.5	24	<0.5	24	37	79	0.2	0.3	96	400	3.6
08	80	210	2.2	8	<0.5	42	38	80	0.2	0.9	120	180	5.0
09	81	240	1.8	12	2	42	39	81	0.2	1.2	160	170	9.8
10	W-13182	67	2.6	19	5	42	40	W-13182	0.1	0.3	22	25	2.5
11	83	55	1.4	16	3	18	41	83	<.1	0.3	18	13	1.2
12	84	1400	15	430	50	34	42	84	0.6	7.6	2100	1300	2.5
13	85	800	6.5	260	120	20	43	85	0.1	4.6	1100	1000	2.0
14	86	410	6.4	130	47	32	44	86	0.2	1.3	280	630	1.4
15	87	78	1.1	7	2	26	45	87	<.1	0.3	11	18	0.6
16	88	36	3.0	33	16	42	46	88	<.1	0.3	12	45	0.9
17	89	40	2.6	100	15	56	47	89	<.1	<0.2	49	79	0.8
18	90	38	1.9	85	21	46	48	90	0.1	<0.2	41	63	0.6
19	91	82	2.6	120	30	48	49	91	0.1	0.3	120	100	0.6
20	W-13192	77	5.2	270	89	44	50	W-13192	0.2	<0.2	920	21	3.4
21	93	200	4.4	36	2	58	51	93	0.4	0.8	200	140	9.6
22	94	91	2.1	15	5	20	52	94	<.1	0.5	42	22	3.4
23	95	300	4.8	160	60	32	53	95	0.1	0.3	270	430	3.2
24	96	200	2.9	58	16	32	54	96	<.1	0.3	100	68	2.8
25	97	200	3.6	22	11	32	55	97	<.1	0.7	100	79	2.8
26	98	65	1.7	11	3	24	56	98	<.1	0.2	19	18	4.5
27	99	72	2.0	11	7	18	57	99	<.1	0.3	30	29	2.7
28	W13200	100	0.6	3	<0.5	10	58	W13200	<.1	0.3	39	55	2.1
29	1	87	1.1	6	3	22	59	1	<.1	0.3	29	41	4.0
30	2	51	2.3	17	8	22	60	2	<.1	0.2	18	17	2.6

METHODS:

- Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

PAGE 1 OF 1

DATE 1/8/80

REQ. NO. 9088-B JOB NO. _____

ANALYST CMJ, SCH

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13203	31	0.8	120	23	20	31 W-13203	<.1	4.2	13	31.	0.6
02 4	37	2.6	43	7	34	32 4	<.1	4.2	<10	17.	0.2
03 5	52	1.3	56	14	32	33 5	<.1	4.2	20	51.	0.4
04 6	31	2.4	28	18	32	34 6	<.1	0.2	10	21.	40.1
05 7	76	1.9	110	26	28	35 7	<.1	4.2	120	71.	0.8
06 8	48	2.8	80	19	32	36 8	<.1	0.2	110	72.	1.2
07 9	15	2.0	50	14	28	37 9	<.1	4.2	<10	9.0	0.2
08 10	40	0.6	70	12	48	38 10	0.1	4.2	36	31.	2.8
09 11	18	2.1	72	11	28	39 11	<.1	4.2	16	9.6	0.4
10 W-13212	20	1.5	59	21	62	40 W-13212	<.1	4.2	17	23.	0.7
11 13	49	2.6	30	18	36	41 13	<.1	4.2	14	35.	1.1
12 14	69	1.5	39	6	50	42 14	<.1	4.2	20	26.	0.8
13 15	19	1.8	74	21	42	43 15	<.1	4.2	34	16.	0.2
14 16	77	1.2	90	16	64	44 16	0.1	4.2	75	47.	4.4
15 17	26	6.1	58	29	80	45 17	0.1	4.2	13	25.	1.0
16 18	140	1.6	3	0.6	30	46 18	<.1	0.3	15	26.	0.6
17 19	15	1.2	59	20	68	47 19	<.1	4.2	<10	7.8	0.3
18 20	120	0.6	69	17	64	48 20	<.1	0.6	80	96.	1.4
19 21	110	3.5	100	37	44	49 21	0.1	4.2	210	41.	1.0
20 W-13222	110	6.8	300	100	32	50 W-13222	0.1	4.2	900	130	0.6
21 23	390	2.4	220	73	38	51 23	<.1	4.2	510	370	1.6
22 24	50	2.0	85	11	22	52 24	<.1	4.2	83	34.	1.6
23 25	48	3.3	51	22	24	53 25	<.1	0.2	28	66.	1.0
24 26	31	3.8	33	22	20	54 26	<.1	0.2	16	51.	0.9
25 27	110	5.1	90	52	42	55 27	<.1	0.3	88	180.	1.6
26 28	91	2.4	52	58	68	56 28	0.1	0.2	76	74.	1.7
27 29	72	0.4	90	43	64	57 29	<.1	4.2	63	33.	3.7
28 30	80	3.2	100	25	64	58 30	0.1	4.2	68	83.	1.7
29 31	120	3.0	68	25	26	59 31	<.1	0.2	89	70.	1.6
30 32	69	2.8	110	18	28	60 32	<.1	4.2	94	64.	1.7

METHODS:

- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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 H.J. 0150n

LAB AMAX - DENVER



ANALYTICAL REPORT

DATE 1/17/80

REQ. NO. 9088C JOB NO. _____

ANALYST CMJ, SCH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F			
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM			
01	W-13233	57	2.0	90	15	46	31	W-13233	<.1	4.2	16	53.	0.7	
02		34	46	6.0	50	18	32		34	<.1	0.2	78	22.	1.0
03		35	230	7.5	61	14	33		35	0.4	1.2	180	150	4.0
04		36	40	3.0	120	17	34		36	<.1	0.2	310	35.	12.
05		37	160	5.3	42	4	35		37	0.1	0.6	62	69.	1.9
06		38	20	3.3	80	52	36		38	<.1	4.2	27	26.	0.3
07		39	38	6.2	33	21	37		39	<.1	0.4	17	13.	0.4
08		40	570	13	33	4	38		40	0.8	3.1	320	520	9.8
09		41	90	6.3	130	35	39		41	<.1	4.2	92	140	1.7
10	W-13242	130	5.8	150	62	29	40	W-13242	<.1	4.2	530	150	1.0	
11		43	120	3.9	80	73	41		43	<.1	0.2	100	290	2.2
12		44	85	2.4	75	35	42		44	<.1	0.2	72	64.	2.6
13		45	65	2.3	85	22	43		45	<.1	4.2	79	53.	2.6
14		46	39	4.4	24	17	44		46	<.1	4.2	25	26.	0.8
15		47	34	4.7	23	27	45		47	<.1	4.2	12	27.	1.7
16		48	28	5.4	25	37	46		48	<.1	4.2	31	41.	0.4
17		49	14	3.2	61	21	47		49	<.1	4.2	12	26.	0.3
18		50	14	2.8	59	23	48		50	<.1	4.2	19	24.	0.3
19		51	11	2.9	37	16	49		51	<.1	4.2	410	14.	0.4
20	W-13252	7.4	5.6	33	9	54	50	W-13252	<.1	4.2	<10	12.	<0.1	
21		53	16	1.9	25	17	51		53	<.1	4.2	410	23.	0.2
22		54	63	16	85	31	52		54	<.1	0.2	100	54.	0.8
23		55	34	1.2	53	8	53		55	<.1	4.2	15	28.	0.3
24		56	100	3.6	57	44	54		56	<.1	4.2	31	92.	2.6
25		57	56	7.5	28	12	55		57	<.1	4.2	49	42.	0.6
26		58	48	3.7	80	10	56		58	0.1	0.2	67	49.	1.5
27		59	8.1	2.4	18	6	57		59	<.1	4.2	10	4.0	0.2
28		60	5.1	1.0	16	7	58		60	<.1	4.2	<10	2.8	0.1
29		61	7.4	5.1	11	5	59		61	<.1	4.2	<10	8.4	0.3
30		62	5.9	1.9	20	7	60		62	<.1	4.2	<10	4.4	0.1

METHODS:

- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

DATE 1/21/80

REQ. NO. 90880 JOB NO. _____

ANALYST C.M.J., S.C.H.

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	W-13263	23	1.4	60	32	10	31	W-13263	<.1	4.2	130	29.	0.3
02	64	3.7	1.0	46	18	14	32	64	<.1	4.2	410.	4.4	40.1
03	65	140	3.2	80	50	10	33	65	<.1	4.2	230	230	0.3
04	66	41	0.9	90	28	26	34	66	<.1	4.2	74.	47.	0.7
05	67	17	1.2	40	28	28	35	67	<.1	4.2	410.	22.	0.3
06	68	16	2.5	36	26	32	36	68	<.1	4.2	410.	18.	0.3
07	69	54	5.9	140	21	48	37	69	<.1	4.2	20.	22.	0.6
08	70	14	1.4	55	46	38	38	70	<.1	4.2	240	28.	0.4
09	71	16	1.1	80	8	24	39	71	<.1	4.2	23.	18.	0.2
10	W-13272	39	1.3	53	23	56	40	W-13272	<.1	4.2	410.	27.	0.7
11	73	11	1.5	53	16	22	41	73	<.1	4.2	12.	6.4	0.7
12	74	15	1.4	34	9	28	42	74	<.1	4.2	410.	11.	0.3
13	75	9.3	0.8	59	17	22	43	75	<.1	4.2	410.	12.	0.2
14	76	28	1.8	73	34	70	44	76	<.1	4.2	10.	13.	0.4
15	77	12	2.8	42	24	38	45	77	<.1	4.2	410.	21.	0.2
16	78	51	0.7	110	19	30	46	78	<.1	4.2	57.	91.	0.8
17	79	44	0.8	62	21	36	47	79	<.1	0.3	41.	32.	0.4
18	80	44	0.6	100	23	48	48	80	<.1	4.2	37.	29.	0.7
19	81	300	1.3	37	95	42	49	81	0.5	1.3	240	110	6.6
20	W-13282	16	5.4	100	23	30	50	W-13282	<.1	4.2	190	12.	0.1
21	83	16	2.1	70	17	26	51	83	<.1	4.2	77.	14.	0.3
22	84	14	1.5	68	25	28	52	84	<.1	4.2	410.	7.4	40.1
23	85	1.2	0.4	9	1	10	53	85	<.1	4.2	410.	1.0	40.1
24	86	56	2.0	68	26	36	54	86	<.1	4.2	25.	46.	0.6
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 1/23/80

REQ. NO. 9074 JOB NO. _____

ANALYST CMJ, SCH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13287	17	3.0	100	22	48	31 W-13287	0.1	0.2	30	33.	1.5
02 88	21	1.0	100	27	26	32 88	<.1	4.2	78	28.	0.4
03 89	1100	34	130	41	60	33 89	1.3	8.4	510	540	1.4
04 90	48	3.6	80	63	92	34 90	<.1	0.2	25	19.	0.3
05 91	18	3.1	90	44	58	35 91	<.1	4.2	16	15.	0.2
06 92	20	5.8	100	31	24	36 92	<.1	4.2	200	14.	0.2
07 93	66	1.6	43	28	92	37 93	<.1	4.2	52	22.	0.4
08 94	12	0.9	34	0	38	38 94	<.1	4.2	27	8.8	1.2
09 95	27	1.4	90	35	64	39 95	<.1	4.2	150	12.	1.0
10 W-13296	8000	25	140	30	46	40 W-13296	1.8	1.2	410	960	3.5
11 97	100	3.4	75	22	56	41 97	<.1	0.3	160	70.	1.2
12 98	38	2.8	70	16	48	42 98	<.1	0.2	130	22.	3.2
13 99	140	4.1	44	8	40	43 99	0.1	0.3	70	180	2.0
14 W-13300	120	4.7	70	11	32	44 W-13300	0.1	0.3	52	190	0.5
15 1	160	2.5	100	44	56	45 1	0.1	0.2	240	120	0.9
16 2	59	0.6	14	1	40	46 2	<.1	0.3	410	21.	1.9
17 3 ←	MISSING					47 3 ←	MISSING				
18 4 ←	MISSING					48 4 ←	MISSING				
19 5 ←	MISSING					49 5 ←	MISSING				
20 W-13306	200	5.9	130	24	36	50 W-13306	0.2	0.4	200	350	0.8
21 7	57	2.4	120	24	54	51 7	<.1	4.2	94	44.	0.3
22 8	9.0	3.4	28	4	36	52 8	<.1	0.2	23	9.0	0.1
23 9	190	6.0	190	35	30	53 9	0.2	0.2	160	470	0.7
24 10	39	6.5	90	20	44	54 10	<.1	4.2	33	44.	0.6
25 11	8000	11	430	100	52	55 11	0.3	1.2	610	1600	0.4
26 12	72	3.2	70	12	28	56 12	<.1	0.2	21	120	0.4
27 13	230	1.3	31	0.8	26	57 13	0.2	0.6	180	220	7.0
28 14	64	2.5	37	3	26	58 14	<.1	0.2	50	27.	1.6
29 15	50	4.0	35	13	48	59 15	<.1	0.3	16	28.	0.8
30 16	76	2.1	29	3	30	60 16	0.1	0.3	46	52.	3.4

METHODS:

- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

NOTE: Mail Original to
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 P. O. Box C
 Denver, Colorado 80226

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 1. F. DELLECHAIE At GEOTHERMAL
 2. GEOTHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 1/23/80

REQ. NO. 9074 JOB NO. _____

ANALYST CMT, SCH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13317	120	3.1	37	7	22	31 W-13317	0.1	0.3	26	160	0.5
02 18	110	1.9	8	0.7	32	32 18	0.2	0.4	110	40	3.8
03 19	170	4.9	55	20	48	33 19	0.2	0.2	13	270	0.3
04 20	75	1.8	19	2	28	34 20	0.1	0.3	58	22	0.9
05 21	37	1.8	440	42	48	35 21	0.1	0.3	90	22	0.4
06 22	22	2.0	130	28	32	36 22	4.1	4.2	230	8.4	0.4
07 23	41	3.6	180	14	44	37 23	0.1	4.2	290	31	0.5
08 24	← MISSING →					38 24	← MISSING →				
09 25	85	2.1	26	4	52	39 25	0.1	0.2	69	43	1.3
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 12/11/79

REQ. NO. 9084 JOB NO. _____

ANALYST CMT, SCH

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	SiO ₂	Mg	Ca	SAMPLE	Li	B	SO ₄	Cl	F			
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM			
01	W-13326	170	2.2	38	4	12	31	W-13326	0.1	0.3	95	79	0.8	
02		27	77	2.0	32	7	27	32	27	0.1	0.3	55	33	1.0
03		28	41	1.8	30	4	37	33	28	<.1	0.2	19	14	0.6
04		29	52	2.0	34	6	61	34	29	<.1	0.2	75	23	0.5
05		30	140	3.8	62	2	36	35	30	0.4	0.2	160	28	5.0
06		31	19	2.7	28	3	34	36	31	<.1	0.2	64	14	0.2
07		32	59	2.1	36	7	73	37	32	<.1	0.2	84	38	0.7
08		33	52	2.2	34	4	45	38	33	<.1	0.2	44	31	0.6
09		34	120	2.8	16	14	48	39	34	0.1	0.2	70	150	0.7
10	W-13335	40	3.1	60	20	70	40	W-13335	<.1	0.3	18	26	0.6	
11		36	46	2.8	48	23	130	41	36	<.1	0.2	120	62	0.4
12		37	55	2.1	32	8	65	42	37	<.1	0.2	89	33	0.7
13		38	140	2.6	24	5	39	43	38	0.1	0.3	190	75	1.0
14		39	140	3.2	24	9	38	44	39	<.1	0.3	120	90	0.6
15		40	45	4.3	44	6	46	45	40	<.1	0.2	20	39	0.4
16		41	58	1.6	34	0.9	13	46	41	0.1	0.2	9.0	20	0.5
17		42	11	0.6	70	20	75	47	42	<.1	0.2	7.8	7.2	0.4
18		43	31	1.6	44	9	90	48	43	<.1	0.2	9.0	31	0.5
19		44	21,000	16	24	850	530	49	44	<.1	0.2	770	43000	0.3
20	W-13345	40	2.6	32	0	70	50	W-13345	<.1	0.2	96	15	0.6	
21		46	110	2.4	40	5	10	51	46	0.2	0.2	110	28	5.0
22		47	32	2.2	34	4	38	52	47	<.1	0.2	6.8	10	0.4
23		48	40	2.6	34	4	23	53	48	<.1	0.2	15	16	0.5
24		49	32	0.6	36	15	85	54	49	<.1	0.2	91	32	0.8
25		50	15	1.0	20	15	80	55	50	<.1	0.2	98	8.6	0.3
26		51	50	2.0	32	5	32	56	51	<.1	0.2	110	16	2.0
27		52	10	2.5	40	7	70	57	52	<.1	0.2	3.4	10	2.0
28		53	9.0	1.6	42	10	47	58	53	<.1	0.2	19	13	2.0
29		54	17	0.8	28	8	67	59	54	<.1	0.2	6.8	6.4	0.2
30		55	70	1.0	24	20	47	60	55	<.1	0.2	5.2	74	0.3

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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 2. GEOHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 12/11/79

REQ. NO. 9084 JOB NO. _____

ANALYST CMT, SCH

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	SiO ₂	Mg	Ca	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13356	28	2.4	36	18	140	31 W-13356	<.1	40.2	100	67	0.6
02 57	42	2.0	38	4	35	32 57	<.1	0.2	4.0	11	0.5
03 58	47	3.1	36	15	95	33 58	<.1	0.2	120	23	0.5
04 59	16	4.2	34	4	42	34 59	<.1	0.2	10.	7.6	0.4
05 60	54	1.2	46	8	58	35 60	0.1	40.2	12.	14	0.6
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
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Alan Shenker
Geothermal Office

LAB AMAX - DENVER

ANALYTICAL REPORT

PAGE 1 OF 3

DATE 12/20/79

REQ. NO. 9083 JOB NO. _____

ANALYST SC.H

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

Start

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	
01 W-13361	2.6	1.2	53.	22.	11.	31 W-13361	<0.1	<0.2	<10	8.2	1.6	
02	62	2.6	41.	6.9	30.	32	62	0.1	0.3	31	32.	1.1
03	63	2.0	30.	4.3	29.	33	63	<0.1	<0.2	<10	5.6	1.7
04	64	1.7	14.	0.4	27.	34	64	0.1	0.3	<10	3.8	5.8
05	65	3.4	34.	12.	27.	35	65	0.1	<0.2	34	5.0	3.1
06	66	4.3	11.	6.2	23.	36	66	<0.1	0.3	31	11.	3.9
07	67	1.8	73.	19.	20.	37	67	<0.1	0.2	14	28.	0.5
08	68	1.2	120.	13.	30.	38	68	<0.1	<0.2	180	6.8	0.5
09	69	2.4	53.	6.4	33.	39	69	<0.1	0.3	20	52.	0.5
10 W-13370	2.4	6.9	44.	29.	41.	40 W-13370	<0.1	<0.2	66	15.	0.2	
11	71	6.2	26.	20.	52.	41	71	<0.1	<0.2	<10	6.2	0.3
12	72	3.6	120.	14.	55.	42	72	<0.1	<0.2	200	56.	0.2
13	73	3.4	90.	18.	24.	43	73	<0.1	<0.2	32	12.	1.2
14	74	0.5	100.	25.	28.	44	74	<0.1	<0.2	140	12.	0.2
15	75	1.2	34.	7.2	58.	45	75	0.1	<0.2	<10	17.	4.2
16	76	1.5	36.	11.	34.	46	76	<0.1	<0.2	<10	6.6	4.1
17	77	0.6	2.0	<0.1	49.	47	77	0.1	<0.2	<10	5.0	4.0
18	78	1.9	160.	28.	60.	48	78	<0.1	<0.2	240	30.	1.8
19	79	2.2	44.	7.8	40.	49	79	<0.1	<0.2	24	7.4	1.1
20 W-13380	19.	2.0	67.	11.	36.	50 W-13380	<0.1	<0.2	34	62.	0.6	
21	81	1.3	28.	12.	56.	51	81	<0.1	0.2	<10	11.	0.7
22	82	1.4	10.	0.3	91.	52	82	0.1	<0.2	100	17.	11.
23	83	2.0	20.	3.1	16.	53	83	<0.1	<0.2	11	7.4	1.0
24	84	2.8	100.	24.	26.	54	84	0.1	0.2	67	340.	0.8
25	85	2.8	63.	11.	40.	55	85	<0.1	<0.2	51	26.	1.6
26	86	2.0	20.	1.4	20.	56	86	<0.1	<0.2	72	38.	0.5
27	87	0.8	1.5	<0.1	26.	57	87	0.1	0.2	49	28.	1.1
28	88	1.8	66.	22.	36.	58	88	<0.1	<0.2	89	18.	6.6
29	89	2.8	34.	1.0	34.	59	89	<0.1	<0.2	38	8.6	5.0
30 W-13390	240.	2.8	40.	7.9	48.	60 W-13390	0.1	0.2	210	130.	1.5	

METHODS:

- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:
pgs 2+3
to be reported
out at a later date

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Denver, Colorado 80226

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2. GEOHERMAL OFFICE At
3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 12/28/79

REQ. NO. 9083 JOB NO. _____

ANALYST SC#

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	PPM
01 W-13391	180.	3.7	46.	3.0	48.	31 W-13391	1.5	0.3	160	150.	4.0	
02	92	74.	20.	3.0	30.	32	92	10.1	10.2	11.	4.1	
03	93	1100.	85.	8.4	45.	33	93	0.2	0.8	400	1500.	5.0
04	94	1000.	56.	2.8	19.	34	94	2.5	1.0	600	1300.	8.3
05	95	310.	1.1	3.0	0.3	35	95	0.1	0.2	110	430.	0.8
06	96	54.	1.2	13.	1.0	36	96	10.1	0.2	34	14.	3.0
07	97	2800.	8.8	120.	7.4	37	97	2.3	1.4	670	3800.	6.0
08	98	360.	3.6	3.0	0.2	38	98	0.4	0.5	240	210.	10.
09	99	75.	2.5	240.	48.	39	99	10.1	10.2	310	150.	0.2
10 W-13400	800.	7.2	130.	49.	29.	40 W-13400	0.4	0.9	490	1200.	3.6	
11	01	39.	2.3	48.	18.	41	01	10.1	10.2	70	9.6	0.3
12	02	960.	12.	80.	8.0	42	02	1.4	0.8	380	1400	0.3
13	03	340.	0.5	1.0	0.2	43	03	0.1	1.2	120	100	7.0
14	04	220.	1.9	10.	0.6	44	04	0.3	0.6	110	200	3.9
15	05	11.	1.6	95.	10.	45	05	10.1	0.3	66	10.	0.8
16	06	340.	0.6	1.0	0.2	46	06	0.1	1.2	120	98.	7.0
17	07	220.	8.6	26.	4.7	47	07	0.5	10.2	53	150	9.4
18	08	16.	8.1	38.	13.	48	08	10.1	10.2	82	10.	0.2
19	09	340.	3.1	7.	0.4	49	09	0.5	0.3	280	210	8.8
20 W-13410	150.	5.1	530.	11.	41.	50 W-13410	0.2	10.2	1700	28.	1.3	
21	11	140.	8.9	41.	26.	51	11	0.1	0.6	210	87.	1.3
22	12	240.	8.0	21.	7.3	52	12	0.2	0.8	220	190.	4.3
23	13	62.	2.3	25.	20.	53	13	0.1	0.2	17	20.	4.3
24	14	93.	1.2	6.	0.8	54	14	10.1	10.2	46	35.	2.5
25	15	330.	2.8	12.	3.1	55	15	0.4	0.5	98	310	2.8
26	16	3300.	13.	180.	11.	56	16	3.6	1.7	1000	6900	5.9
27	17	400.	3.4	5.	0.6	57	17	0.4	0.5	250	270	11.
28	18	1300.	5.0	72.	74.	58	18	0.2	0.9	2200	410	3.1
29	19	94.	0.6	4.	1.0	59	19	10.1	0.3	12	9.8	1.6
30 W-13420	72.	8.5	43.	9.2	46.	60 W-13420	10.1	10.2	45	35.	1.7	

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

DATE 12/28/79
 ANALYST SCH
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9083 JOB NO. _____
 PROJECT 566
 REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	W-13421	28.	3.1	74.	13.	35.	31	W-13421	40.1	40.2	57	13.	0.5
02	22	92.	3.5	130.	29.	46.	32	22	40.1	40.2	310	40.	2.7
03	23	28.	6.8	22.	5.4	36.	33	23	40.1	40.2	410	8.4	0.6
04	24	70.	2.3	11.	1.8	49.	34	24	40.1	40.2	29	12.	1.6
05	25	560.	2.8	38.	13.	46.	35	25	0.1	0.8	740	360	2.8
06	26	280.	2.4	23.	6.0	29.	36	26	0.3	0.6	240	100	2.1
07	27	80.	7.7	38.	7.4	40.	37	27	0.2	40.2	47	8.6	5.6
08	28	41.	2.4	41.	2.5	36.	38	28	0.1	40.2	71	9.8	1.3
09	29	86.	1.8	37.	3.8	46.	39	29	40.1	40.2	34	11.	1.6
10	W-13430	320.	25.	310.	53.	12.	40	W-13430	0.4	0.6	660	360	2.4
11	31	16.	6.7	40.	5.8	56.	41	31	40.1	40.2	410	15.	9.7
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
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PAGE 1 OF 3



DATE 1/17/80

ANALYTICAL REPORT

REQ. NO. 9058

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

Sample	Lab No.	Cu ppb	Mo ppb	Sample	Lab No.	Cu ppb	Mo ppb
01	W13000	<2	8	31	W13030	<2	<2
02	01	<2	<2	32	31	<2	<2
03	02	<2	20	33	32	<2	40
04	03	20	<2	34	33	<2	60
05	04	<2	4	35	34	<2	20
06	05	<2	15	36	35	<2	6
07	06	<2	2	37	36	<2	8
08	07	<2	<20 *	38	37	<2	10
09	08	NR	NR	39	38	3	8
10	W13009	<2	2	40	W13039	6	4
11	10	<2	60	41	40	<2	10
12	11	<2	<2	42	41	<2	10
13	12	<2	10	43	42	<2	30
14	13	<2	<2	44	43	<2	40
15	14	<2	8	45	44	10	4
16	15	<2	4	46	45	2	20
17	16	<2	<2	47	46	8	4
18	17	missing		48	47	<2	<2
19	18	<2	15	49	48	<2	<2
20	W13019	4	200	50	W13049	<2	<2
21	20	<2	10	51	50	<2	15
22	21	<2	4	52	51	2	12
23	22	<2	65	53	52	<2	<2
24	23	<2	20	54	53	<2	2
25	24	<2	10	55	54	<2	15
26	25	<2	10	56	55	<2	<10 *
27	26	<2	20	57	56	<2	6
28	27	<2	<2	58	57	<2	2
29	28	<2	150	59	58	<2	6
30	W13029	4	<2	60	W13059	<2	<2

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
* - Interference

C. JENSEN

DENVER LAB

NOTE: M.H.L. ORIGINAL TO
AMAX EXPLORATION, INC.,
12620 W. CEDAR DRIVE,
P.O. BOX C, DENVER, COLO., 80226

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3. H. OLSON AT LAKESIDE

ANALYTICAL REPORT

DATE 1/17/80

REQ. NO. 9058

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu ppb	Mo ppb		Sample	Lab No.	Cu ppb	Mo ppb
01	W13060		<2	<2	31	W13090		<2	8
02	61		<2	2	32	91		<2	25
03	62		6	<2	33	92		<2	20
04	63		<2	15	34	93		<2	60
05	64		missing		35	94		2	30
06	65		<2	<2	36	95		600	<20 *
07	66		<2	<2	37	96		<2	6
08	67		<2	15	38	97		<2	15
09	68		<2	<2	39	98		40	20
10	W13069		<2	<2	40	W13099		<2	2
11	70		<2	<2	41	100		8	<2
12	71		8	<2	42	01		<2	6
13	72		3	<2	43	02		<2	18
14	73		<2	<2	44	03		3	10
15	74		<2	6	45	04		<2	<2
16	75		2	<2	46	05		2	4
17	76		<2	8	47	06		<2	7
18	77		20	6	48	07		<2	10
19	78		2	10	49	08		<2	12
20	W13079		<2	30	50	W13109		<2	<20 *
21	80		<2	8	51	10		20	12
22	81		<2	20	52	11		<2	10
23	82		<2	12	53	12		<2	10
24	83		<2	15	54	13		2	<2
25	84		<2	9	55	14		40	<2
26	85		<2	4	56	15		30	<2
27	86		10	15	57	16		<2	20
28	87		<2	20	58	17		<2	4
29	88		<2	18	59	18		<2	25
30	W13089		<2	10	60	W13119		<2	10

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
* - Interference

C. JENSEN

DENVER LAB

NOTE: M.H. ORIGINAL TO
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ANALYTICAL REPORT

DATE 1/17/80

REQ. NO. 9058

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo
			ppb	ppb				ppb	ppb
01	W13120		< 2	18		31			
02						32			
03						33			
04						34			
05						35			
06						36			
07						37			
08						38			
09						39			
10						40			
11						41			
12						42			
13						43			
14						44			
15						45			
16						46			
17						47			
18						48			
19						49			
20						50			
21						51			
22						52			
23						53			
24						54			
25						55			
26						56			
27						57			
28						58			
29						59			
30						60			

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
* - Interference

NOTE: M.H. ORIGINAL TO
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ANALYTICAL REPORT

DATE 11/5/79

REQ. NO. 9086

ANALYST MS, SH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo	
			ppb	ppb				ppb	ppb	
01	<u>W13121</u>		<u>42</u>	<u>10</u>		31	<u>W13151</u>	<u>42</u>	<u>42</u>	
02	<u>22</u>		<u>42</u>	<u>40</u>		32	<u>52</u>	<u>42</u>	<u>2</u>	
03	<u>23</u>		<u>42</u>	<u>9</u>		33	<u>53</u>	<u>42</u>	<u>2</u>	
04	<u>24</u>		<u>2</u>	<u>2</u>		34	<u>54</u>	<u>2</u>	<u>42</u>	
05	<u>25</u>		<u>3</u>	<u>5</u>		35	<u>55</u>	<u>42</u>	<u>3</u>	
06	<u>26</u>		<u>42</u>	<u>6</u>		36	<u>56</u>	<u>42</u>	<u>42</u>	
07	<u>27</u>		<u>2</u>	<u>42</u>		37	<u>57</u>	<u>2</u>	<u>2</u>	
08	<u>28</u>		<u>42</u>	<u>NR*</u>		38	<u>58</u>	<u>100</u>	<u>42</u>	
09	<u>29</u>		<u>42</u>	<u>10</u>		39	<u>59</u>	<u>42</u>	<u>15</u>	
10	<u>W13130</u>		<u>10</u>	<u>8</u>		40	<u>W13160</u>	<u>42</u>	<u>5</u>	
11	<u>31</u>		<u>42</u>	<u>440*</u>		41	<u>61</u>	<u>42</u>	<u>20</u>	
12	<u>32</u>		<u>10</u>	<u>42</u>		42	<u>62</u>	<u>42</u>	<u>20</u>	
13	<u>33</u>		<u>45</u>	<u>42</u>		43	<u>63</u>	<u>42</u>	<u>20</u>	
14	<u>34</u>		<u>42</u>	<u>42</u>		44	<u>64</u>	<u>42</u>	<u>10</u>	
15	<u>35</u>		<u>4</u>	<u>2</u>		45	<u>65</u>	<u>42</u>	<u>40</u>	
16	<u>36</u>		<u>42</u>	<u>10*</u>		46	<u>66</u>	<u>6</u>	<u>20</u>	
17	<u>37</u>		<u>10</u>	<u>4</u>		47	<u>67</u>	<u>42</u>	<u>4</u>	
18	<u>38</u>		<u>42</u>	<u>2</u>		48	<u>68</u>	<u>42</u>	<u>2</u>	
19	<u>39</u>		<u>2</u>	<u>4</u>		49	<u>69</u>	<u>42</u>	<u>2</u>	
20	<u>W13140</u>		<u>20</u>	<u>6</u>		50	<u>W13170</u>	<u>42</u>	<u>3</u>	
21	<u>41</u>	<u>← NO SAMPLE →</u>					51	<u>71</u>	<u>42</u>	<u>2</u>
22	<u>42</u>		<u>42</u>	<u>20</u>		52	<u>72</u>	<u>42</u>	<u>6</u>	
23	<u>43</u>		<u>6</u>	<u>8</u>		53				
24	<u>44</u>		<u>10</u>	<u>2</u>		54				
25	<u>45</u>		<u>2</u>	<u>2</u>		55				
26	<u>46</u>		<u>42</u>	<u>42</u>		56				
27	<u>47</u>		<u>42</u>	<u>2</u>		57				
28	<u>48</u>		<u>4</u>	<u>3</u>		58				
29	<u>49</u>		<u>4</u>	<u>2</u>		59				
30	<u>50</u>		<u>42</u>	<u>3</u>		60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

*- interference
 NR* - No Result due to interference

NOTE: M.H.L. ORIGINAL TO
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 12620 W. CEDAR DRIVE,
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LAB AMAX DENVER

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PAGE 1 OF 2

ANALYTICAL REPORT

DATE 1/21/80

REQ. NO. 9088

ANALYST K. L.

PROJECT 560

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo
			ppb	ppb				ppb	ppb
01	W13173		<2	<2		31	W13203	4	<2
02	74	←	MISSING		→	32	4	20	<2
03	75		<2	15		33	5	<2	2
04	76		20	4		34	6	*6	<2
05	77		<2	20		35	7	<2	6
06	78		<2	4		36	8	10	4
07	79		<2	10		37	9	15	2
08	80		2	15		38	10	2	3
09	81		<2	35		39	11	<2	<2
10	W13182		<2	6		40	W13212	<2	4
11	83		<2	<2		41	13	<2	2
12	84		<2	35		42	14	<2	2
13	85		<2	10		43	15	6	<2
14	86		<2	8		44	16	8	6
15	87		2	<2		45	17	<2	<2
16	88		<2	<2		46	18	2	2
17	89		2	<2		47	19	<2	<2
18	90		<2	<2		48	20	<2	15
19	91		<2	<2		49	21	4	30
20	W13192		<2	<2		50	W13222	<2	15
21	93		<2	*10		51	23	2	2
22	94		<2	6		52	24	8	10
23	95		<2	6		53	25	4	<2
24	96		2	8		54	26	2	<2
25	97		<2	8		55	27	<2	<2
26	98		<2	4		56	28	2	<2
27	99		<2	4		57	29	<2	4
28	W13200		<2	2		58	30	<2	4
29	1		2	2		59	31	4	6
30	2		<2	<2		60	32	<2	2

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

* - Interference

NOTE: MAIL ORIGINAL TO
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ANALYTICAL REPORT

DATE 11/21/80

REQ. NO. 9088

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo	
			ppb	ppb				ppb	ppb	
01	W13233		<2	<2		31	W13263	<2	<10*	
02	34		<2	2		32	64	10	<2	
03	35		2	9		33	65	<2	6	
04	36		30	35		34	66	2	7	
05	37		<2	8		35	67	2	2	
06	38		<2	<2		36	68	<2	4	
07	39		<2	<2		37	69	2	20	
08	40		<2	<15*		38	70	8	<2	
09	41		20	<2		39	71	4	<2	
10	W13242		<2	4		40	W13272	<2	<2	
11	43		2	<2		41	73	4	<2	
12	44		8	2		42	74	<2	2	
13	45		10	8		43	75	<2	<2	
14	46		<2	6		44	76	<2	<2	
15	47		<2	2		45	77	6	<2	
16	48		<2	<2		46	78	2	2	
17	49		6	<2		47	79	*<2	<2	
18	50		<2	<2		48	80	*<2	<2	
19	51		<2	<2		49	81	*4	6	
20	W13252		4	<2		50	W13282	*4	<2	
21	53		<2	2		51	83	*2	4	
22	54		<2	8		52	84	*<2	<2	
23	55		<2	<2		53	85	<2	<2	
24	56		8	8		54	86	8	<2	
25	57		<2	8		55				
26	58		<2	6		56				
27	59		<2	<2		57				
28	60		<2	<2		58				
29	61		<2	4		59				
30	62		<2	<2		60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: * - Interference

NOTE: MAIL ORIGINAL TO
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ANALYTICAL REPORT

DATE 3/5/80

REQ. NO. 9079

ANALYST M.T.R.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu ppb	Mo ppb		Sample	Lab No.	Cu ppb	Mo ppb
01	<u>W13287</u>		<u>8</u>	<u>42</u>	31	<u>W13317</u>		<u>8</u>	<u>2</u>
02	<u>88</u>		<u>40</u>	<u>2</u>	32	<u>18</u>		<u>6</u>	<u>10</u>
03	<u>89</u>		<u>42</u>	<u>2</u>	33	<u>19</u>		<u>42</u>	<u>5</u>
04	<u>90</u>		<u>42</u>	<u>2</u>	34	<u>20</u>		<u>42</u>	<u>4</u>
05	<u>91</u>		<u>42</u>	<u>42</u>	35	<u>21</u>		<u>2</u>	<u>6</u>
06	<u>92</u>		<u>1</u>	<u>40</u>	36	<u>22</u>		<u>2</u>	<u>3</u>
07	<u>93</u>		<u>42</u>	<u>2</u>	37	<u>23</u>		<u>6</u>	<u>4</u>
08	<u>94</u>		<u>42</u>	<u>3</u>	38	<u>24</u>	←	<u>MISSING</u>	→
09	<u>95</u>		<u>42</u>	<u>2</u>	39	<u>25</u>		<u>6</u>	<u>6</u>
10	<u>W13296</u>		<u>42</u>	<u>6</u>	40				
11	<u>97</u>		<u>6</u>	<u>4</u>	41				
12	<u>98</u>		<u>4</u>	<u>2</u>	42				
13	<u>99</u>		<u>40</u>	<u>8</u>	43				
14	<u>W13300</u>		<u>42</u>	<u>2</u>	44				
15	<u>1</u>		<u>2</u>	<u>3</u>	45				
16	<u>2</u>		<u>42</u>	<u>2</u>	46				
17	<u>3</u>	←	<u>MISSING</u>	→	47				
18	<u>4</u>	←	<u>MISSING</u>	→	48				
19	<u>5</u>	←	<u>MISSING</u>	→	49				
20	<u>W13306</u>		<u>75</u>	<u>3</u>	50				
21	<u>7</u>		<u>42</u>	<u>2</u>	51				
22	<u>8</u>		<u>10</u>	<u>2</u>	52				
23	<u>9</u>		<u>42</u>	<u>4</u>	53				
24	<u>10</u>		<u>4</u>	<u>4</u>	54				
25	<u>11</u>		<u>2</u>	<u>42</u>	55				
26	<u>12</u>		<u>42</u>	<u>10</u>	56				
27	<u>13</u>		<u>42</u>	<u>20</u>	57				
28	<u>14</u>		<u>2</u>	<u>4</u>	58				
29	<u>15</u>		<u>4</u>	<u>6</u>	59				
30	<u>16</u>		<u>8</u>	<u>8</u>	60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

NOTE: MAIL ORIGINAL TO
AMAX EXPLORATION, INC.,
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P.O. BOX C, DENVER, COLO., 80226

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3. H. OLSON AT LAKESIDE

ANALYTICAL REPORT

DATE 11/27/79

REQ. NO. 9084

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu ppb	Mo ppb		Sample	Lab No.	Cu ppb	Mo ppb
01	<u>W13326</u>		<u><2</u>	<u>4</u>		31	<u>W13356</u>	<u>2</u>	<u>2</u>
02	<u>27</u>		<u><2</u>	<u>3</u>		32	<u>57</u>	<u><2</u>	<u>4</u>
03	<u>28</u>		<u><2</u>	<u>6</u>		33	<u>58</u>	<u>2</u>	<u>2</u>
04	<u>29</u>		<u><2</u>	<u><2</u>		34	<u>59</u>	<u>2</u>	<u><2</u>
05	<u>30</u>		<u><2</u>	<u>6</u>		35	<u>60</u>	<u><2</u>	<u><2</u>
06	<u>31</u>		<u><2</u>	<u><2</u>		36			
07	<u>32</u>		<u><2</u>	<u><2</u>		37			
08	<u>33</u>		<u>20</u>	<u><2</u>		38			
09	<u>34</u>		<u><2</u>	<u>4</u>		39			
10	<u>W13335</u>		<u>20</u>	<u><2</u>		40			
11	<u>36</u>	<u>(35)→</u>	<u>>20</u>	<u><2</u>		41			
12	<u>37</u>		<u><2</u>	<u>2</u>		42			
13	<u>38</u>		<u><2</u>	<u>8</u>		43			
14	<u>39</u>		<u>8</u>	<u>8</u>		44			
15	<u>40</u>		<u><2</u>	<u>9</u>		45			
16	<u>41</u>		<u><2</u>	<u>4</u>		46			
17	<u>42</u>		<u>10</u>	<u><2</u>		47			
18	<u>43</u>		<u>4</u>	<u><2</u>		48			
19	<u>44</u>		<u>20</u>	<u>2</u>		49			
20	<u>W13345</u>		<u><2</u>	<u>3</u>		50			
21	<u>46</u>		<u><2</u>	<u>4</u>		51			
22	<u>47</u>		<u><2</u>	<u><2</u>		52			
23	<u>48</u>		<u><2</u>	<u><2</u>		53			
24	<u>49</u>		<u>2</u>	<u>15</u>		54			
25	<u>50</u>		<u><2</u>	<u>4</u>		55			
26	<u>51</u>		<u><2</u>	<u><2</u>		56			
27	<u>52</u>		<u><2</u>	<u><2</u>		57			
28	<u>53</u>		<u><2</u>	<u><2</u>		58			
29	<u>54</u>		<u>2</u>	<u><2</u>		59			
30	<u>55</u>		<u>2</u>	<u><2</u>		60			

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

NOTE: M.I.H. ORIGINAL TO
AMAX EXPLORATION, INC.,
12620 W. CEDAR DRIVE,
P.O. BOX C, DENVER, COLO., 80226

C. JENSEN DENVER LAB
COPIES TO: 1. F. DELLECHAIE AT LAKESIDE
2. E. J. ROWE AT DENVER LAB
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ANALYTICAL REPORT

DATE 12/31/79
 ANALYST K.L., S.H.
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9083 JOB NO. _____
 PROJECT 566
 REQUESTED BY F. Dellechaie

	SAMPLE	Cu ppb		Mo ppb		SAMPLE		Cu ppb		Mo ppb
01	W13361	75		<2		31	W13391	<2		4
02	62	20		<2		32	92	<2		<2
03	63	<2		<2		33	93	<2		20
04	64	10		<2		34	94	<2		40
05	65	<2		2		35	95	<2		2
06	66	4		4		36	96	<2		2
07	67	2		<2		37	97	2		70
08	68	20		2		38	98	<2		10
09	69	2		<2		39	99	4		<2
10	W13370	20		<2		40	W13400	<2		8
11	71	10		<2		41	01	2		<2
12	72	2		<2		42	02	<2		20
13	73	20		<2		43	03	2		20
14	74	20		<2		44	04	<2		10
15	75	6		<2		45	05	<2		<2
16	76	<2		<2		46	06	2		10
17	77	<2		<2		47	07	<2		8
18	78	2		2		48	08	2		<2
19	79	20		<2		49	09	<2		<2
20	W13380	<2		<2		50	W13410	<2		8
21	81	2		2		51	11	4		20
22	82	6		15		52	12	<2		20
23	83	<2		6		53	13	2		<2
24	84	<2		<2		54	14	<2		<2
25	85	10		<2		55	15	<2		20
26	86	<2		<2		56	16	<2		90
27	87	<2		6		57	17	6		20
28	88	<2		2		58	18	30		80
29	89	<2		<2		59	19	2		2
30	W13390	10		<2		60	W13420	<2		2

METHODS: Digestion- Sample Weight-
 Determination- Cu, Mo - Colorimetric

REMARKS:

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 2. Geothermal Office At _____
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ANALYTICAL REPORT

DATE 12/31/79

REQ. NO. 9083 JOB NO. _____

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. Dellechaie

	SAMPLE	Cu ppb		Mo ppb		SAMPLE		Cu ppb		Mo ppb
01	W13421	42		42		31				
02	22	42		42		32				
03	23	42		42		33				
04	24	42		2		34				
05	25	6		40		35				
06	26	6		42		36				
07	27	42		8		37				
08	28	42		42		38				
09	29	8		42		39				
10	W13430	42		2		40				
11	31	6		42		41				
12						42				
13						43				
14						44				
15						45				
16						46				
17						47				
18						48				
19						49				
20						50				
21						51				
22						52				
23						53				
24						54				
25						55				
26						56				
27						57				
28						58				
29						59				
30						60				

METHODS: Digestion- Sample Weight-
 Determination- Cu, Mo - Colorimetric

REMARKS:

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 E & A PAGE 1 OF 2

ANALYTICAL REPORT

DATE 1/4/80

REQ. NO. 9067 JOB NO. _____

ANALYST CMJ, SCH

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

Montano Oil Test
 Warm Spig - Deeth

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13432	1800	130	440	61	60	31 W-13432	2.3	2.9	NR	2500	5.0
02 33	91	12	6	0.8	82	32 33	<0.1	0.5	NR	18	3.4
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

NR - Not Requested

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ANALYTICAL REPORT

DATE 1/4/80 REQ. NO. 9067 JOB NO. _____
 ANALYST CMJ, SCH PROJECT 566
 TYPE SAMPLES GEOHERMAL WATER REQUESTED BY DELLECHAIE

SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM		SAMPLE				
01	7.4	0	230		31				
02	8.8	36	150		32				
03					33				
04					34				
05					35				
06					36				
07					37				
08					38				
09					39				
10					40				
11					41				
12					42				
13					43				
14					44				
15					45				
16					46				
17					47				
18					48				
19					49				
20					50				
21					51				
22					52				
23					53				
24					54				
25					55				
26					56				
27					57				
28					58				
29					59				
30					60				

METHODS: Digestion-

Sample Weight-

Determination-

pH: ELECTROMETRIC

REMARKS: HCO₃, CO₃ :
ppm as CaCO₃

CO₃, HCO₃ : ELECTROMETRIC TITRATION

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Meager Creek

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PAGE 1 OF 2

ANALYTICAL REPORT

DATE 10/29/79

REQ. NO. 9252 JOB NO. _____

ANALYST SC H

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY F. DELLECHAIE

	SAMPLE	Na	K	Ca	Mg	SiO ₂		SAMPLE	Li	B	SO ₄	Cl	F
		PPM	PPM	PPM	PPM	PPM			PPM	PPM	PPM	PPM	PPM
01	W-13434	440	43	130	37	180	31	W-13434	1.2	4.2	190	610	0.3
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10	W-						40	W-					
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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LAB AMAX-DENVER

ANALYTICAL REPORT

DATE 10/29/79

REQ. NO. 9252 JOB NO. _____

ANALYST SCH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Cu PPb	Mo PPb	SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM		
01	W13434	42	42	31	W13434	6.6	0	440
02				32				
03				33				
04				34				
05				35				
06				36				
07				37				
08				38				
09				39				
10				40				
11				41				
12				42				
13				43				
14				44				
15				45				
16				46				
17				47				
18				48				
19				49				
20				50				
21				51				
22				52				
23				53				
24				54				
25				55				
26				56				
27				57				
28				58				
29				59				
30				60				

METHODS: Digestion-

Sample Weight-

Determination-Cu, Mo - COLORIMETRIC

pH - ELECTROMETRIC

CO₃, HCO₃⁻ - ELECTROMETRIC TITRATION

REMARKS:

CO₃, HCO₃⁻ - ppm as CaCO₃

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2. GEOTHERMAL OFFICE At
3. E.J. ROWE At DENVER LAB
4. Harry Olsen At Geothermal

TYPE OF SAMPLE

- W=Water, S=Soil
- SS=Stream Sediment
- V=Vegetation
- R=Rock
- DR=Dump Rock
- DF=Dump Fines
- CR=Core
- CM=Composite
- P=Pulp

ABBREVIATIONS

- Alk=K₂O, Na₂O, CaO
- T.E.=Trace Elements (Standard elements unless defined otherwise.)
- t=Total; tMo, tS ox=Oxide
- s=Sulfide; as sNi
- ns=Non-Sulfide; as nsCu
- 5=Cu, Mo, Pb, Zn, Ag
- 10=5 + Co, Ni, Fe, Mn, Cd
- Org=Organic Extraction Cu Zn

Meager Creek

H₂O

Nº 5060

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) 110044 / Denver

A TOTAL OF 1 HAS BEEN SHIPPED VIA Hand ON 11-9-71
(No of Boxes or Sacks) (Carrier) (Date)

WAYBILL No. _____ AMAX PROJECT No. _____

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)					OTHER					
	No.	Type	tMo	MoS ₂	Cu	nsCu		Mo	Cu	W	Ni	pH	Alk	T.E.	5	10	Org	
<i>12435 to 14450</i>	<i>11</i>	<i>W</i>																
_____ to _____																		
_____ to _____																		
_____ to _____																		
_____ to _____																		
_____ to _____																		

TOTAL SAMPLES 1

REJECTS: Save Discard (RETURN ALL PULPS TO OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS _____

** B.C. - hydro Samples*

SEND COPIES OF RESULTS TO:

1. 110044 Denver
2. _____
3. _____
4. AMAX EXPLORATION INC., P.O. BOX C, BELMAR STATION, DENVER, COLORADO 80226 (2 Copies)

Original — Lab. via Mail
 Pink cc — Lab. with sample
 Yellow cc — Denver office
 White cc — Retain by sender

REQUESTED BY Chickman

DATE 11-9-71

TYPE OF SAMPLE

- W=Water, S=Soil
- SS=Stream Sediment
- V=Vegetation
- R=Rock
- DR=Dump Rock
- DF=Dump Fines
- CR=Core
- CM=Composite
- P=Pulp

ABBREVIATIONS

- Alk=K₂O, Na₂O, CaO
- T.E=Trace Elements (Standard elements unless defined otherwise.)
- t=Total; tMo, tS ox=Oxide
- s=Sulfide; as sNi
- ns=Non-Sulfide; as nsCu
- 5=Cu, Mo, Pb, Zn, Ag
- 10=5 + Co, Ni, Fe, Mn, Cd
- Org=Organic Extraction Cu Zn

Meager Creek

Sinter

Nº 5061

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) _____

A TOTAL OF _____ HAS BEEN SHIPPED VIA _____ ON _____
(No of Boxes or Sacks) (Carrier) (Date)

WAYBILL No. _____

AMAX PROJECT No. _____

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)					OTHER						
	No.	Type	tMo	MoS ₂	Cu	nsCu		Mo	Cu	W	Ni	pH		Alk	T.E.	5	10	Org	
<i>12411 to 12453</i>	<i>3</i>	<i>L</i>																	
_____ to _____																			
_____ to _____																			
_____ to _____																			
_____ to _____																			
_____ to _____																			

TOTAL SAMPLES

REJECTS: Save Discard (RETURN ALL PULPS TO OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS ** CaO, SiO₂*

Sinter samples from B.C. Hydro

SEND COPIES OF RESULTS TO:

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4. AMAX EXPLORATION INC., P.O. BOX C, BELMAR STATION, DENVER, COLORADO 80226 (2 Copies)

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REQUESTED BY _____

DATE *11-1-79*

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REPORT DIVISION

ANALYTICAL REPORT

DATE 1/24/80

REQ. NO. 9180 JOB NO. _____

ANALYST SC H

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY Alan Shenker

Hole-in-the-Wall #2
 Death

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13451	80	7.8	54.	8.2	51	31 W-13451	4.1	0.4	88	80	0.5
02 52	130	6.8	5.3	1.2	96	32 52	4.1	1.4	19	27	3.1
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

DATE 1/25/80

REQ. NO. 9180 JOB NO. _____

ANALYST SCM

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY Alan Shenker

SAMPLE	Cu PPb	Mo PPb	SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM	
							01
02	52		32	52	9.2	96	177
03			33				
04			34				
05			35				
06			36				
07			37				
08			38				
09			39				
10			40				
11			41				
12			42				
13			43				
14			44				
15			45				
16			46				
17			47				
18			48				
19			49				
20			50				
21			51				
22			52				
23			53				
24			54				
25			55				
26			56				
27			57				
28			58				
29			59				
30			60				

METHODS: Digestion-

Sample Weight-

Determination-Cu, Mo - COLORIMETRIC

pH - ELECTROMETRIC

CO₃, HCO₃ - ELECTROMETRIC TITRATION

REMARKS:

Cu, Mo to be reported at a later date

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DATE 3/12/80

REQ. NO. 9181 JOB NO. _____

ANALYST S. Hoatson

PROJECT 864

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Alan Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13453	160	21.	6.6	2.6	120	31 W-	0.7	1.3	100	38	5.6
02						32					
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

- Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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ANALYTICAL REPORT

DATE 3/12/80

REQ. NO. 9181 JOB NO. _____

ANALYST S. Hoatson

PROJECT 864

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Alan Shenker

	SAMPLE	Cu	Mo				SAMPLE	pH	CO ₃	HCO ₃			
		PPb	PPb						PPM	PPM			
01	W13453	67	710				31	W13453	9.4	72	144		
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10							40						
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20							50						
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22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS: Digestion- Sample Weight-
 Determination-Cu, Mo - COLORIMETRIC
 pH - ELECTROMETRIC
 REMARKS: CO₃, HCO₃- ELECTROMETRIC TITRATION

Mo, Cu To be reported at a later date.

* interference

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ANALYTICAL REPORT

DATE 3/12/80

REQ. NO. 9153 JOB NO. _____

ANALYST S. Hoatson

PROJECT 864

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY Alan Shenker

	SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F	
		PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	PPM
01	W-13454	98	14	9.6	16	75	31	W-13454	0.4	1.0	100	31.	3.0
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10	W-						40	W-					
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

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S. C. Hoatson -
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 2. GEOHERMAL OFFICE At
 3. E.J. ROWE At DENVER LAB

ANALYTICAL REPORT

DATE 3/12/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9153 JOB NO. _____
 PROJECT 864
 REQUESTED BY Alan Shenker

SAMPLE	Cu PPb	Mo PPb	SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM
02			32			
03			33			
04			34			
05			35			
06			36			
07			37			
08			38			
09			39			
10			40			
11			41			
12			42			
13			43			
14			44			
15			45			
16			46			
17			47			
18			48			
19			49			
20			50			
21			51			
22			52			
23			53			
24			54			
25			55			
26			56			
27			57			
28			58			
29			59			
30			60			

METHODS: Digestion-

Sample Weight-

Determination-Cu, Mo - COLORIMETRIC
 pH - ELECTROMETRIC

REMARKS:

CO₃, HCO₃ - ELECTROMETRIC TITRATION

*Mo, Cu
 To be reported at
 a later date*

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McCoy 66-8

LAB AMAX - DENVER

ANALYTICAL REPORT

RECEIVED
MAR 5 1980
E & M DIVISION

DATE 3/21/80

REQ. NO. 9154 JOB NO. _____

ANALYST MK, SH

PROJECT 864

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY A. E. Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13455	110	14.	8.	14.	65.	31 W-13455	0.4	1.0	87	32	4.4
02						32					
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS: Digestion- Sample Weight-
 Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 REMARKS: Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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E & ME DIVISION

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ANALYTICAL REPORT

DATE 3/21/80

REQ. NO. 9154 JOB NO. _____

ANALYST S.H.

PROJECT 864

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY A. E. Shenker

SAMPLE	Cu	Mo	SAMPLE	pH	CO ₃	HCO ₃
	PPB	PPB			PPM	PPM
01 <u>W13455</u>	<u>42</u>	<u>210</u>	31 <u>W13455</u>	<u>9.0</u>	<u>44</u>	<u>154</u>
02			32			
03			33			
04			34			
05			35			
06			36			
07			37			
08			38			
09			39			
10			40			
11			41			
12			42			
13			43			
14			44			
15			45			
16			46			
17			47			
18			48			
19			49			
20			50			
21			51			
22			52			
23			53			
24			54			
25			55			
26			56			
27			57			
28			58			
29			59			
30			60			

METHODS: Digestion- Sample Weight-

Determination- Cu, Mo - Colorimetric
pH - Electrometric

REMARKS: CO₃, HCO₃ - Electrometric Titration

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APR - 9 1980
E & ME DIVISION

ANALYTICAL REPORT

DATE 4/8/80
ANALYST S. Hoatson
TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9155 JOB NO. _____
PROJECT 864
REQUESTED BY A. E. Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13456	110	14.	6.	18.	62.	31 W-13456	0.5	0.9	80.	31	4.1
02						32					
03						33					
04						34					
05						35					
06						36					
07						37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS: Digestion- Sample Weight-
Na, K, Ca, Mg, SiO₂, Li: AA
Determination- B: CARMINIC ACID COLORIMETRIC
F: SPECIFIC ION ELECTRODE
REMARKS: Cl: MERCURIMETRIC TITRATION
SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 4/8/80

REQ. NO. 9156

ANALYST S. Hoatson

PROJECT 864

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY A. E. Shenker

	SAMPLE	Cu	Mo				SAMPLE	pH	CO ₃	HCO ₃			
		PPB	PPB						PPM	PPM			
01	W13456	42	20				31	W13456	9.0	20	204		
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10							40						
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
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27							57						
28							58						
29							59						
30							60						

METHODS: Digestion- Sample Weight-
 Determination- Cu, Mo - Colorimetric
 pH - Electrometric
 REMARKS: CO₃, HCO₃ - Electrometric Titration

Mo, Cu to be reported at a later date

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Animas

ANALYTICAL REPORT

DATE 4/24/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8212 JOB NO. _____
 PROJECT 821 672
 REQUESTED BY H.D. Pilkington

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13457	290	21	22.	0.6	130	31 W-13457	0.7	0.4	490	90	13.
02 58	310	23	22.	0.5	150	32 58	0.7	0.5	510	89	12.
03						33					
04						34					
05						35					
06 57	Original Hot Well				}	36	Animas				
07 58	Burgell Well					37					
08						38					
09						39					
10 W-						40 W-					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20 W-						50 W-					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS: Digestion- Sample Weight-
 Na, K, Ca, Mg, SiO₂, Li: AA
 Determination- B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 REMARKS: Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 4/24/80 REQ. NO. 8212 JOB NO. _____
 ANALYST S. Hoatson PROJECT 672
 TYPE SAMPLES GEOTHERMAL WATER REQUESTED BY H. O. Pilkington

SAMPLE	Cu	Mo	SAMPLE	pH	CO ₃	HCO ₃	K
	PPB	PPB			PPM	PPM	
01 W13457	6	420*	31 W13457	8.3	0	52	1562
02 58	2	420*	32 58	9.0	28	46	1614
03			33				
04			34				
05			35				
06			36				
07			37				
08			38				
09			39				
10			40				
11			41				
12			42				
13			43				
14			44				
15			45				
16			46				
17			47				
18			48				
19			49				
20			50				
21			51				
22			52				
23			53				
24			54				
25			55				
26			56				
27			57				
28			58				
29			59				
30			60				

METHODS: Digestion- Sample Weight-

Determination- Cu, Mo - Colorimetric
 pH - Electrometric
 CO₃, HCO₃ - Electrometric Titration

REMARKS: K = Specific Conductance umhos/cm corrected to 25°C
 Specific Conductance - Electrometric
 (*) interference

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ANALYTICAL REPORT

DATE 4/29/80

REQ. NO. 5085 JOB NO. _____

ANALYST S. Hoatson

PROJECT 860

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Harry J. Olson

W13459

TUSCARORA

	SAMPLE	Na	K	Ca	Mg	SiO ₂		SAMPLE	Li	B	SO ₄	Cl	F
		PPM	PPM	PPM	PPM	PPM			PPM	PPM	PPM	PPM	PPM
01	W-188757	240	23.	25.	2.0	140	31	W-188757	0.6	1.3	150	30.	5.5
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10	W-						40	W-					
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS: Digestion-

Sample Weight-

Na, K, Ca, Mg, SiO₂, Li: AA

Determination- B: CARMINIC ACID COLORIMETRIC

F: SPECIFIC ION ELECTRODE

REMARKS:

Cl: MERCURIMETRIC TITRATION

SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 4/29/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 5085 JOB NO. _____
 PROJECT 860
 REQUESTED BY Harry J. Olson

	SAMPLE	Cu	Mo		SAMPLE	pH	CO ₃	HCO ₃	K	
		PPB	PPB				PPM	PPM	@25°C	
01	A88757				31	A88757	9.2	72	264	1132
02					32					
03					33					
04					34					
05					35					
06					36					
07					37					
08					38					
09					39					
10					40					
11					41					
12					42					
13					43					
14					44					
15					45					
16					46					
17					47					
18					48					
19					49					
20					50					
21					51					
22					52					
23					53					
24					54					
25					55					
26					56					
27					57					
28					58					
29					59					
30					60					

METHODS: Digestion- Sample Weight-

Determination- Cu, Mo - Colorimetric
 pH - Electrometric

REMARKS: CO₃, HCO₃ - Electrometric Titration

K = umhos/cm @ 25°C Specific Conductance - electrometric

Mo, Cu, - to be reported at a later date.

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McCoy 14-7

ANALYTICAL REPORT

DATE 5/6/80

REQ. NO. 9156 JOB NO. _____

ANALYST S. Hoatson

PROJECT 860 (864)

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY A. E. Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	W-13460	150	18.	100	12.	86.	31	W-13460	0.4	1.1	86.	26.	3.5
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10	W-						40	W-					
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS: Digestion-

Sample Weight-

Na, K, Ca, Mg, SiO₂, Li: AA
 Determination- B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE

REMARKS:

Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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MCCOY 14-7

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 100.000

CONC. OF ' K ' = 18.000

CONC. OF ' NA ' = 150.000

CONC. OF ' SI02 ' = 86.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 750.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.446\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.330\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

DTZ TEMP. (CONDUCTIVE) = 128.9

DTZ TEMP. (ADIABATIC) = 125.7

AM. SILICA TEMP. = 9.6

CHALCEDONT TEMP. = 101.4

CRISTOBALITE TEMP. = 78.3

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 206.0

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 173.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 87.2

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 5/6/80

REQ. NO. 9156 JOB NO. _____

ANALYST S. Hoatson

PROJECT 860 864

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY A. E. Shenker

	SAMPLE	Cu	Mo		SAMPLE	pH	CO ₃	HCO ₃	K	
		PPB	PPB				PPM	PPM	@25°C	
01	w13460				31	w13460	8.9	36	210	739
02					32					
03					33					
04					34					
05					35					
06					36					
07					37					
08					38					
09					39					
10					40					
11					41					
12					42					
13					43					
14					44					
15					45					
16					46					
17					47					
18					48					
19					49					
20					50					
21					51					
22					52					
23					53					
24					54					
25					55					
26					56					
27					57					
28					58					
29					59					
30					60					

METHODS: Digestion-

Sample Weight-

Determination- Cu, Mo - Colorimetric
pH - Electrometric

CO₃, HCO₃ - Electrometric Titration

REMARKS: k = Specific Conductance in umhos/cm @25°C.
K - Electrometric

Mo, Cu to be reported at a later date.

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ANALYTICAL REPORT

DATE 5/6/80

REQ. NO. 9160 JOB NO. _____

ANALYST S. Hoatson

PROJECT 860

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Harry J. Olson

W13461

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F		
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM		
01	A88758	20	3.4	18.	3.0	96.	31	A88758	4.1	4.2	410.	7.2	0.2
02							32						
03	W13461						33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10	W-						40	W-					
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
17							47						
18							48						
19							49						
20	W-						50	W-					
21							51						
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29							59						
30							60						

METHODS: Digestion- Sample Weight-
 Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 5/6/80

REQ. NO. 9160 JOB NO. _____

ANALYST S. Hoatson

PROJECT 860

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Harry J. Olson

	SAMPLE	Cu	Mo				SAMPLE	pH	CO ₃	HCO ₃	K		
		PPB	PPB						PPM	PPM	@ 25°C		
01	188758						31	188758	8.5	12	20	185	
02							32						
03							33						
04							34						
05							35						
06							36						
07							37						
08							38						
09							39						
10							40						
11							41						
12							42						
13							43						
14							44						
15							45						
16							46						
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27							57						
28							58						
29							59						
30							60						

METHODS: Digestion-

Sample Weight-

Determination- Cu, Mo - Colorimetric
 pH - Electrometric

REMARKS: k = Specific Conductance in umhos/cm @ 25°C
 CO₃, HCO₃ - Electrometric Titration
 K - Electrometric

Mo, Cu - To be reported at later date

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TUSCARORA A88758

W13461

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 18.000

CONC. OF 'K' = 3.400

CONC. OF 'NA' = 20.000

CONC. OF 'SI02' = 96.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 190.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.462\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.849\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 134.9

QTZ TEMP. (ADIABATIC) = 130.8

AM. SILICA TEMP. = 14.9

CHALCEDONT TEMP. = 108.0

CRISTOBALITE TEMP. = 84.3

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 255.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 171.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 50.5

ANALYTICAL REPORT

DATE 6/4/79

REQ. NO. 9049 JOB NO. _____

ANALYST CMT

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01	19	4.2	35	10	41	31	2.1	4.2	60	7.7	0.3
02	290	44	18	3.7	71	32	1.4	0.7	210	8.2	0.2
03	19	11	51	29	65	33	2.1	4.2	34	3.8	0.4
04	350	5.5	210	4.5	43	34	0.6	4.7	220	720	0.8
05						35					
06						36					
07						37					
08						38					
09						39					
10						40					
11						41					
12						42					
13						43					
14						44					
15						45					
16						46					
17						47					
18						48					
19						49					
20						50					
21						51					
22						52					
23						53					
24						54					
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

Don't know which is which!

METHODS: Digestion-

Sample Weight-

Determination- Na, K, Ca, Mg, SiO₂, Li - AA

B - Carminic acid

REMARKS:

F - Specific ion electrode

Cl - Mercurimetric titration

SO₄ - Turbidimetric

NOTE: Mail Original to
AMAX Exploration, Inc.,
P. O. Box C
Denver, Colorado 80226

Copies to: C.M. JENSEN
1. F. DELLECHAIE ✓ At LAKESIDE
2. H. OLSON At LAKESIDE
3. E.J. ROWE At LAB

ANALYTICAL REPORT

DATE 6/4/79
 ANALYST CMJ
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9049
 PROJECT 566
 REQUESTED BY DELLECHAIE

Sample	Lab No.	Cu ppb	Mo ppb	Sample	Lab No.	pH	CO ₂ PPM	HCO ₃ PPM
01	W12050	12	12	31	W12050	7.0	0	83
02	51	12	12	32	51	7.2	0	544
03	52	12	12	33	52	7.4	0	235
04	53	12	10	34	53	8.4	2	15
05				35				
06				36				
07				37				
08				38				
09				39				
10				40				
11				41				
12				42				
13				43				
14				44				
15				45				
16				46				
17				47				
18				48				
19				49				
20				50				
21				51				
22				52				
23				53				
24				54				
25				55				
26				56				
27				57				
28				58				
29				59				
30				60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION-

Cu, Mo - COLORIMETRIC
 pH - ELECTROMETRIC

REMARKS:

CO₂, HCO₃ - ELECTROMETRIC TITRATION

CO₂, HCO₃ - PPM AS
 CaCO₃

C. JENSEN

DENVER LAB

NOTE: M.I.H. ORIGINAL TO
 AMAX EXPLORATION, INC.,
 12620 W. CEDAR DRIVE,
 P.O. BOX C, DENVER, COLO., 80226

COPIES TO: 1. F. DELLECHAIE AT LAKESIDE
 2. E. J. ROWE AT DENVER LAB
 3. H. OLSON AT LAKESIDE

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. _____ Date 5.25.79 Time 11:28

Name BOLEN CS Location: Co. Payette State Id.

Sec. 12 Twp. 9N R. 3W ; _____ km/mi _____ of _____

Lat. _____ Long. _____ Elevation 2523 Quad. Holland Gulch 75'

Sampler M. GLOSS

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 15⁰ DISCHARGE 2 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR None BORE _____

FLUID COLOR clear PUMP TYPE _____

FLUID TASTE None STATIC HEAD _____

BUBBLING No SCALING _____

BOILING No TYPE OF PIPING _____

VEGETATION gr. Algae ARTESIAN HEAD _____

FLUID ISSUES FROM buried Spring ROCK DATA:

TYPE (SURFACE) Siltstone

COLOR rust-brown

SALT: GRAIN SIZE _____

TYPE None MEGASCOPIC MINERALS _____

QUANTITY _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) _____

TYPE None WATER USED FOR LIVESTOCK

QUANTITY _____ IMMEDIATE AREA USED FOR RANCH

COLOR _____

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. _____ Date 5-25-79 Time 1100

Name NIKALAI CREEK CAIN Location: Co. PIUTE State UTAH

Sec. 21 Twp. 9N R. 2W ; _____ km/mi _____ of _____

Lat. _____ Long. _____ Elevation 2730' Quad. HOG CREEK BUTTE

Sampler MARK GROSS

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 18° DISCHARGE 20 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH _____

ODOR NONE BORE _____

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE NONE STATIC HEAD _____

BUBBLING NO SCALING _____

BOILING NO TYPE OF PIPING _____

VEGETATION RED ALGAE ARTESIAN HEAD _____

FLUID ISSUES FROM ARTESIAN WELL IN ROCK DATA:

BASALT TYPE (SURFACE) Gal over Basalt

COLOR _____

SALT: GRAIN SIZE _____

TYPE NONE MEGASCOPIC _____

QUANTITY _____ MINERALS _____

COLOR _____

FORM _____ ALTERATION _____

SINTER: RX TYPE (AT DEPTH) BASALT

TYPE NONE WATER USED FOR CATTLE

QUANTITY _____ IMMEDIATE AREA _____

COLOR _____ USED FOR RANGE - cattle

FORM _____ QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

AMAX GEOTHERMAL GEOCHEMICAL SAMPLE FORM

Spring No. _____ Sample No. _____ Date 5-25-79 Time 1010

Name FRENCH CORNER CAW Location: Co. PAYETTE State IDAHO

Sec. 4 Twp. 8N R. 2W ; km/mi _____ of _____

Lat. _____ Long. _____ Elevation 2500' Quad. HOG COVE BUTTE 7.5'

Sampler MARIC GROSS

Sample Type: Spring (with pipe), well (with pipe), creek, river, soil, salt, sinter, travertine, gas, rock, snow

DESCRIPTION:

WATER TEMP. °C 14° DISCHARGE <1 gpm/Lpm

GROUND TEMP. °C _____ WELL DATA:

AIR TEMP. _____ DEPTH 130m

ODOR NONE BORE 12"

FLUID COLOR CLEAR PUMP TYPE _____

FLUID TASTE CARBONATE STATIC HEAD _____

BUBBLING No SCALING _____

BOILING No TYPE OF PIPING _____

VEGETATION GREEN ALGAE ARTESIAN HEAD _____

FLUID ISSUES FROM IRR WELL - slightly artesian - 25°C @ 130m - ROCK DATA: TYPE (SURFACE) Gal

COLOR _____

SALT:

TYPE NaCl GRAIN SIZE MEGASCOPIC MINERALS _____

QUANTITY minor _____

COLOR white _____

FORM vline ALTERATION _____

SINTER:

RX TYPE (AT DEPTH) _____

TYPE CaCO₃ WATER USED FOR IMMEDIATE AREA USED FOR NOTHING

QUANTITY moderate agriculture/ranching

COLOR Buff _____

FORM crusts _____

QUALITY OF SAMPLE: EXC., GOOD, POOR

PROBABLE CAUSE OF MANIFESTATION _____

PROPERTY OWNED BY _____

PREVIOUS AND/OR CURRENT LEASES _____

TYPE OF SAMPLE

W=Water, S=Soil
 SS=Stream Sediment
 V=Vegetation
 R=Rock
 DR=Dump Rock
 DF=Dump Fines
 CR=Core
 CM=Composite
 P=Pulp

ABBREVIATIONS

Alk=K₂O, Na₂O, CaO
 T.E=Trace Elements (Standard elements unless defined otherwise.)
 t=Total; tMo, tS ox=Oxide
 s=Sulfide; as sNi
 ns=Non-Sulfide; as nsCu
 5=Cu, Mo, Pb, Zn, Ag
 10=5 + Co, Ni, Fe, Mn, Cd
 Org=Organic Extraction Cu Zn

Nº 5085

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) Amex data

A TOTAL OF 2 boxes HAS BEEN SHIPPED VIA Amex ON 29 April 1980
(No of Boxes or Sacks) (Carrier) (Date)

WAYBILL No. _____ AMAX PROJECT No. 860

Handwritten: W13459 TUSE

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)					OTHER				
	No.	Type	tMo	MoS ₂	Cu	nsCu	1 2	Mo	Cu	W	Ni	pH	Alk	T.E.	5	10	Org
<u>A88957</u> to _____	<u>1</u>	<u>W</u>					<u>X X</u>										
_____ to _____																	
_____ to _____																	
_____ to _____																	
_____ to _____																	
_____ to _____																	
TOTAL SAMPLES <u>1</u>																	

REJECTS: Save Discard (RETURN ALL PULPS TO OFFICE)

SAMPLES MISSING None

SPECIAL INSTRUCTIONS OR REMARKS

Handwritten:
 1) Filter both samples
 2) Standard method after sample changes -
 pH, F, Cl, Al₂O₃, SO₄, SiO₂, Al₂CO₃, K, Al₂SiO₅, Ca,
 Cu, Mo, and specific conductance.

Handwritten: Samples may be reconstituted with deionized water including detergent and oxidant.

SEND COPIES OF RESULTS TO:

- A. J. Olson) Geothermal
- Don Shearer)
- _____
- AMAX EXPLORATION INC., P.O. BOX C, BELMAR STATION, DENVER, COLORADO 80226 (2 Copies)

Original — Lab. via Mail
 Pink cc — Lab. with sample
 Yellow cc — Denver office
 White cc — Retain by sender

REQUESTED BY Kerry
 DATE 29 April 1980

Date 24 April 1980

Sampler: H. J. Olson **A** 88757

Charge to: 860

Property Tuscarora, Elko, Nevada

Location Flow Test with air lift
on well 66-5 (22 Apr 1980)

Flow probably coming from
LC zone around 5200'

Assay for (circle):

Au

Mo

Pb

Standard

Ag

ox Mo

Zn

Geochemical

Cu

Mo S₂

Al₂O₃

Analyses

TYPE OF SAMPLE
V1-Veterin
S2-Stream Sediment
V-Vegetation
R-Rock
D4-Dump Rock
D1-Dumping Area
C1-Corral
C2-Campground
F-Fence

TO (L) AND (R)
TOTAL OF
WAYBILL NO.

Grid area with faint text: REFLECT, RETURN ALL PIPES TO OFFICE, TOTAL SAMPLES, SPECIAL INSTRUCTIONS OR REPAIRS, SEND COPIES OF REPORT TO, MAX LABORATORY INC., ORIGINAL - Lab use only, This card with analysis follows - remove if not, White - replace in system

LAB AMAX - DENVER

RECEIVED
JAN 22 1980
E & ME DIVISION

ANALYTICAL REPORT

PAGE 1 OF 1

DATE 1/17/80

REQ. NO. 9088C JOB NO. _____

ANALYST CMJ, SCH

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F				
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM	PPM			
01	W-13233	57	2.0	90	15	46	31	W-13233	<.1	4.2	16	53.	0.7		
02		34	4.6	6.0	50	18	32		34	<.1	0.2	78	22.	1.0	
03		35	230	7.5	61	14	42	33		35	0.4	1.2	180	150	4.0
04		36	40	3.0	120	17	48	34		36	<.1	0.2	310	35.	12.
05		37	160	5.3	42	4	28	35		37	0.1	0.6	62	69.	1.9
06		38	20	3.3	80	52	30	36		38	<.1	4.2	27	26.	0.3
07		39	38	6.2	33	21	14	37		39	<.1	0.4	17	13.	0.4
08		40	570	13	33	4	28	38		40	0.8	3.1	320	520	9.8
09		41	90	6.3	130	35	58	39		41	<.1	4.2	92	140	1.7
10	W-13242	130	5.8	150	62	24		40	W-13242	<.1	4.2	530	150	1.0	
11		43	120	3.9	80	73	32	41		43	<.1	0.2	100	290	2.2
12		44	85	2.4	75	35	28	42		44	<.1	0.2	72	64.	2.6
13		45	65	2.3	85	22	32	43		45	<.1	4.2	79	53.	2.6
14		46	39	4.4	24	17	30	44		46	<.1	4.2	25	26.	0.8
15		47	34	4.7	23	27	44	45		47	<.1	4.2	12	27.	1.7
16		48	28	5.4	25	37	56	46		48	<.1	4.2	31	41.	0.4
17		49	14	3.2	61	21	36	47		49	<.1	4.2	12	26.	0.3
18		50	14	2.8	59	23	46	48		50	<.1	4.2	19	24.	0.3
19		51	11	2.9	37	16	42	49		51	<.1	4.2	410	14.	0.4
20	W-13252	7.4	5.6	33	9	54		50	W-13252	<.1	4.2	410	12.	40.1	
21		53	16	1.9	25	17	24	51		53	<.1	4.2	410	23.	0.2
22		54	63	16	85	31	70	52		54	<.1	0.2	100	54.	0.8
23		55	34	1.2	53	8	42	53		55	<.1	4.2	15	28.	0.3
24		56	100	3.6	57	44	46	54		56	<.1	4.2	31	92.	2.6
25		57	56	7.5	28	12	50	55		57	<.1	4.2	49	42.	0.6
26		58	48	3.7	80	10	34	56		58	0.1	0.2	67	49.	1.5
27		59	8.1	2.4	18	6	40	57		59	<.1	4.2	10	4.0	0.2
28		60	5.1	1.0	16	7	28	58		60	<.1	4.2	410	2.8	0.1
29		61	7.4	5.1	11	5	40	59		61	<.1	4.2	410	8.4	0.3
30		62	5.9	1.9	20	7	38	60		62	<.1	4.2	410	4.4	0.1

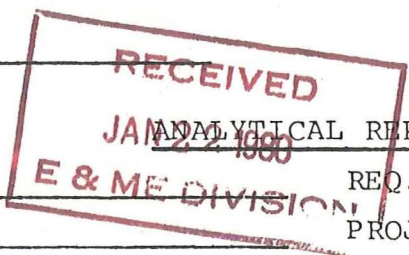
METHODS:

Determination- Na,K,Ca,Mg,SiO₂,Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

NOTE: Mail Original to
 AMAX Exploration, Inc.,
 P. O. Box C
 Denver, Colorado 80226

Copies to: C.M. JENSEN-DENVER LAB
 1. F. DELLECHAIE At GEOTHERMAL
 2. GEOTHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB



ANALYTICAL REPORT
 DATE 1/21/80 REQ. NO. 9088D JOB NO. _____
 ANALYST CMJ, SCH PROJECT 566
 TYPE SAMPLES GEOHERMAL WATER REQUESTED BY F. DELLECHAIE

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-13263	25	1.4	60	32	10	31 W-13263	<.1	4.2	130	29.	0.3
02 64	3.7	1.0	46	18	14	32 64	<.1	4.2	410.	4.4	40.1
03 65	140	3.2	80	50	10	33 65	<.1	4.2	230	230	0.3
04 66	41	0.9	90	28	26	34 66	<.1	4.2	74.	47.	0.7
05 67	17	1.2	90	28	28	35 67	<.1	4.2	410.	22.	0.3
06 68	16	2.5	36	26	32	36 68	<.1	4.2	410.	18.	0.3
07 69	54	5.9	140	21	48	37 69	<.1	4.2	20.	22.	0.6
08 70	14	1.4	55	46	38	38 70	<.1	4.2	240	28.	0.4
09 71	16	1.1	80	8	24	39 71	<.1	4.2	23.	18.	0.2
10 W-13272	39	1.3	53	23	56	40 W-13272	<.1	4.2	410.	27.	0.7
11 73	11	1.5	53	16	22	41 73	<.1	4.2	12.	6.4	0.7
12 74	15	1.4	34	9	28	42 74	<.1	4.2	410.	11.	0.3
13 75	9.3	0.8	59	17	22	43 75	<.1	4.2	410.	12.	0.2
14 76	28	1.8	73	34	70	44 76	<.1	4.2	10.	13.	0.4
15 77	12	2.8	42	24	38	45 77	<.1	4.2	410.	21.	0.2
16 78	51	0.7	110	19	30	46 78	<.1	4.2	57.	91.	0.8
17 79	44	0.8	62	21	36	47 79	<.1	0.3	41.	32.	0.4
18 80	44	0.6	100	23	48	48 80	<.1	4.2	37.	29.	0.7
19 81	300	1.3	37	95	42	49 81	0.5	1.3	240	110	6.6
20 W-13282	16	5.4	100	23	30	50 W-13282	<.1	4.2	190	12.	0.1
21 83	16	2.1	70	17	26	51 83	<.1	4.2	77.	14.	0.3
22 84	14	1.5	68	25	28	52 84	<.1	4.2	410.	7.4	40.1
23 85	1.2	0.4	9	1	10	53 85	<.1	4.2	410.	1.0	40.1
24 86	56	2.0	68	26	36	54 86	<.1	4.2	25.	46.	0.6
25						55					
26						56					
27						57					
28						58					
29						59					
30						60					

METHODS:

Determination- Na, K, Ca, Mg, SiO₂, Li: AA
 B: CARMINIC ACID COLORIMETRIC
 F: SPECIFIC ION ELECTRODE
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

NOTE: Mail Original to
 AMAX Exploration, Inc.,
 P. O. Box C
 Denver, Colorado 80226

Copies to: C.M. JENSEN-DENVER LAB
 1. F. DELLECHAIE At GEOHERMAL
 2. GEOHERMAL OFFICE At LAKESIDE
 3. E.J. ROWE At DENVER LAB

LAB AMAX DENVER

RECEIVED
JAN 23 1980
E & ME DIVISION

PAGE 1 OF 1

ANALYTICAL REPORT

DATE 1/22/80

REQ. NO. 9067

ANALYST KL

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo	
			ppb	ppb				ppb	ppb	
01	<u>W13432</u>		<u>42</u>	<u>42</u>		31				
02	<u>33</u>		<u>42</u>	<u>8</u>		32				
03						33				
04						34				
05						35				
06						36				
07						37				
08						38				
09						39				
10						40				
11						41				
12						42				
13						43				
14						44				
15						45				
16						46				
17						47				
18						48				
19						49				
20						50				
21						51				
22						52				
23						53				
24						54				
25						55				
26						56				
27						57				
28						58				
29						59				
30						60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

NOTE: MAIL ORIGINAL TO
AMAX EXPLORATION, INC.,
12620 W. CEDAR DRIVE,
P.O. BOX C, DENVER, COLO., 80226

C. JENSEN DENVER LAB
COPIES TO: 1. F. DELLECHAIE AT LAKESIDE
2. E. J. ROWE AT DENVER LAB
3. H. OLSON AT LAKESIDE

28

ANALYTICAL REPORT

DATE 1/21/80

REQ. NO. 9088

ANALYST K. L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo
			ppb	ppb				ppb	ppb
01	W13173		<2	<2		31	W13203	4	<2
02	74	←	MISSING		→	32	4	20	<2
03	75		<2	15		33	5	<2	2
04	76		20	4		34	6	*6	<2
05	77		<2	20		35	7	<2	6
06	78		<2	4		36	8	10	4
07	79		<2	10		37	9	15	2
08	80		2	15		38	10	2	3
09	81		<2	35		39	11	<2	<2
10	W13182		<2	6		40	W13212	<2	4
11	83		<2	<2		41	13	<2	2
12	84		<2	35		42	14	<2	2
13	85		<2	10		43	15	6	<2
14	86		<2	8		44	16	8	6
15	87		2	<2		45	17	<2	<2
16	88		<2	<2		46	18	2	2
17	89		2	<2		47	19	<2	<2
18	90		<2	<2		48	20	<2	15
19	91		<2	<2		49	21	4	30
20	W13192		<2	<2		50	W13222	<2	15
21	93		<2	*10		51	23	2	2
22	94		<2	6		52	24	8	10
23	95		<2	6		53	25	4	<2
24	96		2	8		54	26	2	<2
25	97		<2	8		55	27	<2	<2
26	98		<2	4		56	28	2	<2
27	99		<2	4		57	29	<2	4
28	W13200		<2	2		58	30	<2	4
29	1		2	2		59	31	4	6
30	2		<2	<2		60	32	<2	2

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

* - Interference

NOTE: MAIL ORIGINAL TO
AMAX EXPLORATION, INC.,
12620 W. CEDAR DRIVE,
P.O. BOX C, DENVER, COLO., 80226

C. JENSEN DENVER LAB
COPIES TO: 1. F. DELLECHAIE AT LAKESIDE
2. E. J. ROWE AT DENVER LAB
3. H. OLSON AT LAKESIDE

ANALYTICAL REPORT

DATE 11/21/80

REQ. NO. 9088

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo	
			ppb	ppb				ppb	ppb	
01	<u>W13233</u>		<u><2</u>	<u><2</u>		31	<u>W13263</u>	<u><2</u>	<u><10*</u>	
02	<u>34</u>		<u><2</u>	<u>2</u>		32	<u>64</u>	<u>10</u>	<u><2</u>	
03	<u>35</u>		<u>2</u>	<u>9</u>		33	<u>65</u>	<u><2</u>	<u>6</u>	
04	<u>36</u>		<u>30</u>	<u>35</u>		34	<u>66</u>	<u>2</u>	<u>7</u>	
05	<u>37</u>		<u><2</u>	<u>8</u>		35	<u>67</u>	<u>2</u>	<u>2</u>	
06	<u>38</u>		<u><2</u>	<u><2</u>		36	<u>68</u>	<u><2</u>	<u>4</u>	
07	<u>39</u>		<u><2</u>	<u><2</u>		37	<u>69</u>	<u>2</u>	<u>20</u>	
08	<u>40</u>		<u><2</u>	<u><15*</u>		38	<u>70</u>	<u>8</u>	<u><2</u>	
09	<u>41</u>		<u>20</u>	<u><2</u>		39	<u>71</u>	<u>4</u>	<u><2</u>	
10	<u>W13242</u>		<u><2</u>	<u>4</u>		40	<u>W13272</u>	<u><2</u>	<u><2</u>	
11	<u>43</u>		<u>2</u>	<u><2</u>		41	<u>73</u>	<u>4</u>	<u><2</u>	
12	<u>44</u>		<u>8</u>	<u>2</u>		42	<u>74</u>	<u><2</u>	<u>2</u>	
13	<u>45</u>		<u>10</u>	<u>8</u>		43	<u>75</u>	<u><2</u>	<u><2</u>	
14	<u>46</u>		<u><2</u>	<u>6</u>		44	<u>76</u>	<u><2</u>	<u><2</u>	
15	<u>47</u>		<u><2</u>	<u>2</u>		45	<u>77</u>	<u>6</u>	<u><2</u>	
16	<u>48</u>		<u><2</u>	<u><2</u>		46	<u>78</u>	<u>2</u>	<u>2</u>	
17	<u>49</u>		<u>6</u>	<u><2</u>		47	<u>79</u>	<u>* <2</u>	<u><2</u>	
18	<u>50</u>		<u><2</u>	<u><2</u>		48	<u>80</u>	<u>* <2</u>	<u><2</u>	
19	<u>51</u>		<u><2</u>	<u><2</u>		49	<u>81</u>	<u>* 4</u>	<u>6</u>	
20	<u>W13252</u>		<u>4</u>	<u><2</u>		50	<u>W13282</u>	<u>* 4</u>	<u><2</u>	
21	<u>53</u>		<u><2</u>	<u>2</u>		51	<u>83</u>	<u>* 2</u>	<u>4</u>	
22	<u>54</u>		<u><2</u>	<u>8</u>		52	<u>84</u>	<u>* <2</u>	<u><2</u>	
23	<u>55</u>		<u><2</u>	<u><2</u>		53	<u>85</u>	<u><2</u>	<u><2</u>	
24	<u>56</u>		<u>8</u>	<u>8</u>		54	<u>86</u>	<u>8</u>	<u><2</u>	
25	<u>57</u>		<u><2</u>	<u>8</u>		55				
26	<u>58</u>		<u><2</u>	<u>6</u>		56				
27	<u>59</u>		<u><2</u>	<u><2</u>		57				
28	<u>60</u>		<u><2</u>	<u><2</u>		58				
29	<u>61</u>		<u><2</u>	<u>4</u>		59				
30	<u>62</u>		<u><2</u>	<u><2</u>		60				

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: * - Interference

NOTE: MAIL ORIGINAL TO
AMAX EXPLORATION, INC.,
12620 W. CEDAR DRIVE,
P.O. BOX C, DENVER, COLO., 80226

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2. E. J. ROWE AT DENVER LAB
3. H. OLSON AT LAKESIDE

ANALYTICAL REPORT

DATE 1/22/80

REQ. NO. 9067

ANALYST KL

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo
			ppb	ppb				ppb	ppb
01	W13432		42	42		31			
02	33		42	8		32			
03						33			
04						34			
05						35			
06						36			
07						37			
08						38			
09						39			
10						40			
11						41			
12						42			
13						43			
14						44			
15						45			
16						46			
17						47			
18						48			
19						49			
20						50			
21						51			
22						52			
23						53			
24						54			
25						55			
26						56			
27						57			
28						58			
29						59			
30						60			

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS:

NOTE: MAIL ORIGINAL TO
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RECEIVED
JAN 22 1980
E & ME DIVISION REPORT

DATE 1/17/80

REQ. NO. 9058

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY DELLECHAIE

Sample	Lab No.	Cu ppb	Mo ppb	Sample	Lab No.	Cu ppb	Mo ppb
01	W13000	<2	8	31	W13030	<2	<2
02	01	<2	<2	32	31	<2	<2
03	02	<2	20	33	32	<2	40
04	03	20	<2	34	33	<2	60
05	04	<2	4	35	34	<2	20
06	05	<2	15	36	35	<2	6
07	06	<2	2	37	36	<2	8
08	07	<2	<20 *	38	37	<2	10
09	08	NR	NR	39	38	3	8
10	W13009	<2	2	40	W13039	6	4
11	10	<2	60	41	40	<2	10
12	11	<2	<2	42	41	<2	10
13	12	<2	10	43	42	<2	30
14	13	<2	<2	44	43	<2	40
15	14	<2	8	45	44	10	4
16	15	<2	4	46	45	2	20
17	16	<2	<2	47	46	8	4
18	17	missing		48	47	<2	<2
19	18	<2	15	49	48	<2	<2
20	W13019	4	200	50	W13049	<2	<2
21	20	<2	10	51	50	<2	15
22	21	<2	4	52	51	2	12
23	22	<2	65	53	52	<2	<2
24	23	<2	20	54	53	<2	2
25	24	<2	10	55	54	<2	15
26	25	<2	10	56	55	<2	<10 *
27	26	<2	20	57	56	<2	6
28	27	<2	<2	58	57	<2	2
29	28	<2	150	59	58	<2	6
30	W13029	4	<2	60	W13059	<2	<2

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
 * - Interference

NOTE: M.H. ORIGINAL TO
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ANALYTICAL REPORT

DATE 1/17/80
 ANALYST K. L.
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9058
 PROJECT 566
 REQUESTED BY DELLECHAIE

	Sample	Lab No.	Cu	Mo		Sample	Lab No.	Cu	Mo	
			ppb	ppb				ppb	ppb	
01	W13060		<2	<2		31	W13090	<2	8	
02	61		<2	2		32	91	<2	25	
03	62		6	<2		33	92	<2	20	
04	63		<2	15		34	93	<2	60	
05	64		missing			35	94	2	30	
06	65		<2	<2		36	95	600	<20	*
07	66		<2	<2		37	96	<2	6	
08	67		<2	15		38	97	<2	15	
09	68		<2	<2		39	98	40	20	
10	W13069		<2	<2		40	W13099	<2	2	
11	70		<2	<2		41	100	8	<2	
12	71		8	<2		42	01	<2	6	
13	72		3	<2		43	02	<2	18	
14	73		<2	<2		44	03	3	10	
15	74		<2	6		45	04	<2	<2	
16	75		2	<2		46	05	2	4	
17	76		<2	8		47	06	<2	7	
18	77		20	6		48	07	<2	10	
19	78		2	10		49	08	<2	12	
20	W13079		<2	30		50	W13109	<2	<20	*
21	80		<2	8		51	10	20	12	
22	81		<2	20		52	11	<2	10	
23	82		<2	12		53	12	<2	10	
24	83		<2	15		54	13	2	<2	
25	84		<2	9		55	14	40	<2	
26	85		<2	4		56	15	30	<2	
27	86		10	15		57	16	<2	20	
28	87		<2	20		58	17	<2	4	
29	88		<2	18		59	18	<2	25	
30	W13089		<2	10		60	W13119	<2	10	

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
 * - Interference

NOTE: M.H. ORIGINAL TO
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ANALYTICAL REPORT

DATE 1/17/80

REQ. NO. 9058

ANALYST K.L.

PROJECT 566

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY DELLECHAIE

Sample	Lab No.	Cu	Mo	Sample	Lab No.	Cu	Mo
		ppb	ppb			ppb	ppb
01	W13120	< 2	18	31			
02				32			
03				33			
04				34			
05				35			
06				36			
07				37			
08				38			
09				39			
10				40			
11				41			
12				42			
13				43			
14				44			
15				45			
16				46			
17				47			
18				48			
19				49			
20				50			
21				51			
22				52			
23				53			
24				54			
25				55			
26				56			
27				57			
28				58			
29				59			
30				60			

METHODS: DIGESTION-

SAMPLE WEIGHT-

DETERMINATION- Cu, Mo - COLORIMETRIC

REMARKS: NR - No Result
* - Interference

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#'s W 13173 - 13360

need B, SO₄, Cl⁻, F⁻

W13361 - 13390

no results

W13391 - 13431 complete

W13173 - W13325

AMAX EXPLORATION, INC.
A SUBSIDIARY OF AMAX INC.

GEOHERMAL BRANCH

13022 (v) T_s, T_{SiO_2}, T_{NaK}
 B, NH_3 F^-, Cl^-