

8



GL05607

FILE_CAB_DRAWER_

1980

H₂O

Field

Analyses

LAB Amox-Denver

Box #4

ANALYTICAL REPORT

DATE 1/8/80

REQ. NO. O'Brien JOB NO. _____

ANALYST S. Hostson

PROJECT 1121

TYPE SAMPLES Geothermal Waters

REQUESTED BY Frank Dellechiaie

	SAMPLE	Na ppm	K ppm	Ca ppm	Mg ppm	SiO ₂ ppm		SAMPLE	Li ppm	B ppm			
01	W1080	270.	38.	320.	72.	20	31	W1080	0.4	0.2			
02	81	300.	9.3	480.	85.	20	32	81	0.2	0.2			
03	82	450.	18.	440.	340.	19	33	82	0.3	0.4			
04	83	68.	7.0	400.	160.	25	34	83	<.1	0.2			
05	84	50.	10.	62.	4.1	40	35	84	0.1	<.2			
06	85	440.	24.	160.	8.8	48	36	85	0.6	0.2			
07	86	180.	1.8	39.	16.	17	37	86	0.1	0.7			
08	87	350.	2.0	200.	100.	38	38	87	0.5	2.0			
09	88	340.	4.2	36.	30.	16	39	88	0.2	1.8			
10	W1089	28.	2.4	34.	10.	40	40	W1089	<.1	<.2			
11	90	25.	2.4	42.	15.	25	41	90	<.1	<.2			
12	91	38.	1.6	30.	1.2	38	42	91	<.1	<.2			
13	92	110.	4.6	34.	1.2	40	43	92	0.1	<.2			
14	93	56.	3.4	220.	76.	26	44	93	<.1	<.2			
15	94	18.	3.2	54.	35.	26	45	94	<.1	<.2			
16	95	140.	5.3	44.	1.5	40	46	95	0.1	<.2			
17	96	600.	8.5	48.	44.	19	47	96	0.3	NA*			
18	97	60.	3.8	90.	24.	15	48	97	<.1	0.2			
19	98	110.	11.	100.	30.	18	49	98	0.1	0.3			
20	W1099	34.	1.3	120.	42.	43	50	W1099	<.1	<.2			
21	W1064	67.	4.0	42.	12.	29	51	W1064	<.1	<.2			
22	65	120.	10.	100.	14.	38	52	65	0.1	0.2			
23	66	47.	2.5	26.	1.6	34	53	66	<.1	<.2			
24	67	94.	6.4	40.	4.7	32	54	67	0.1	<.2			
25	68	160.	10.	88.	14.	34	55	68	0.2	<.2			
26	W1069	230.	4.0	88.	65.	18	56	W1069	0.1	0.8			
27							57						
28							58						
29							59						
30							60						

METHODS: Digestion-

Sample Weight-

Determination-

REMARKS: *Unacidified bottle missing, parameter not applicable.

- Mo Cu to be reported at a later date -

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

Copies to: Frank Dellechiaie @ O'Brien Res.
1. Gary Maurath At O'Brien Resources
2. S.C. Hostson At W. Cedar M.
3. Elsie J. Rowe At W. Cedar
4. Geo Thermal Office
5. W. Loddar @ W. Cedar
DEN 121974

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DAU 065
 SEPTEMBER 29, 1980
 REQUISITION NO. 5117
 PROJECT NO. 114

AMAX Geothermal, Inc.
 Attn: Alan Shenker
 7100 West 44th Avenue
 Wheat Ridge, Colorado 80033

Analysis of 10 Rock Chip Samples

ITEM	SAMPLE NO.	F (%)	Hg (ppm)	CaCO3 (%)	SiO2 (%)
1	R14007	N/R	N/R	60.8	6.6
2	R14012	N/R	N/R	95.3	1.5
3	R14122	N/R	N/R	51.9	5.4
4	R14147	N/R	N/R	9.3	42.9
5	R15000	.1500	N/R	N/R	N/R
		ppm			
6	R15001	.0860	N/R	N/R	N/R
		ppm			
7	R15002	.0940	N/R	N/R	N/R
		ppm			
8	R15003	.0560	N/R	N/R	N/R
		ppm			
9	R15004	.0680	N/R	N/R	N/R
		ppm			
10	R15005	N/R	.02	N/R	N/R

DETERMINATIONS: F - Specific Ion Electrode
 Hg - Vapor Phase Atomic Absorption
 CaCO3 - Volumetric
 SiO2 - Atomic Absorption

NOTE: N/R = Analysis not requested.



Gordon H. VanSickle
 Manager

cc: L. D. Mullen
 AMAX - Denver

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

JOB NO. DAU 067
SEPTEMBER 26, 1980
REQUISITION NO. 8237
PROJECT NO. 620

AMAX Geothermal, Inc.
Attn: Jim Gross
7100 West 44th Avenue
Wheat Ridge, Colorado 80033

Analysis of 1 Soil Sample

ITEM	SAMPLE NO.	Hg (ppm)	As (ppm)	NH3 (ppm)	Sb (ppm)	F (%)
1	W14953	.09	20.	14.0	<1.	.03



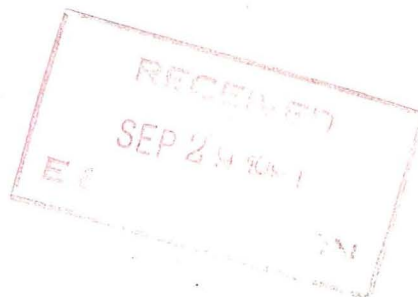
Gordon H. VanSickle
Manager

DETERMINATIONS:

Hg - Vapor phase atomic absorption
As - Colorimetric
Sb - Atomic absorption
F - Specific ion electrode

NH3 - Done by Industrial Labs

cc's: Jim Gross - GeoThermal Branch
Alan Shenker - GeoThermal Branch
Dan Mullen
AMAX, Denver



SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS




JOB NO. DAT 994
SEPTEMBER 30, 1980
REQUISITION NO. 8241
PROJECT NO. 1114

AMAX Exploration, Inc.
Attn: Alan Shenker
7100 West 44th Avenue
Wheatridge, Colorado 80033

Analysis of 1 Solution Sample

ITEM	SAMPLE NO.	Hg (mg/l)
1	W14025	<.001

for 
Gordon H. VanSickle
Manager

DETERMINATION: Hg - Vapor Phase Atomic Absorption

cc: S. C. Heatson
L. D. Mullen
AMAX - Denver

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= K_2O , Na_2O , 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
 B = Bauxite analyses % SiO_2 , LOI, Al_2O_3 , Fe_2O_3

Nº 8240

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) Denver (W. Cedar Dr.)

A TOTAL OF 1 box HAS BEEN SHIPPED VIA TRAILWAYS (?) ON 7/5/80
(No of Boxes or Sacks) (Carrier) (Date)

LAB JOB No. _____ REPORT DATED _____ AMAX PROJECT No. 1117

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)						OTHER				
	No.	Type	tMo	MoS ₂	Cu	nsCu	*	Mo	Cu	W	Ni	pH			Alk	T.E.		
<u>W14030 - W14034</u>	<u>5</u>	<u>W</u>					<u>X</u>											
<u>W14013 - W14018</u>	<u>6</u>	<u>W</u>					<u>X</u>											
<u>W14057 - W14061</u>	<u>5</u>	<u>W</u>					<u>X</u>											
<u>W14076 - W14079</u>	<u>4</u>	<u>W</u>					<u>X</u>											
TOTAL SAMPLES	<u>20</u>																	

REJECTS: Save Discard (RETURN ALL PULPS TO _____ OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * Standard geochemical analysis

SEND COPIES OF RESULTS TO: _____ (For Geologists Use) Data Received _____ Anal. Cost _____

- Shanker @ geothermal
-
-
- 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 _____
 DATE _____

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
 B=Bauxite analyses % SiO₂, LOI, Al₂O₃, Fe₂O₃

Nº 9331

REQUISITION FOR ANALYTICAL WORK
 (REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) W. Collier Dr., Denver, CO

A TOTAL OF 1 box HAS BEEN SHIPPED VIA Trailways ON 7-25-80
(No of Boxes or Sacks) (Carrier) (Date)

LAB JOB No. _____ REPORT DATED _____ AMAX PROJECT No. 1114

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)					OTHER			
	No.	Type	tMo	MoS ₂	Cu	nsCu		Mo	Cu	W	Ni	pH		Alk	T.E.	
<u>W14047 - W14050</u>	<u>2</u>	<u>W</u>														
<u>W14070 - W14075</u>	<u>6</u>	<u>W</u>														
<u>W14092 - W14096</u>	<u>5</u>	<u>W</u>														
<u>W14108 - W14109</u>	<u>2</u>	<u>W</u>														
<u>W14121 - W14125</u>	<u>5</u>	<u>W</u>														
TOTAL SAMPLES	<u>20</u>															

REJECTS: Save Discard (RETURN ALL PULPS TO _____ OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * Special Analysis (Grain)

SEND COPIES OF RESULTS TO: (For Geologists Use) Data Received _____ Anal. Cost _____

1. Alk
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 _____
 DATE _____

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
 S=Cu, Mo, Pb, Zn, Ag
 10=5 + Co, Ni, Fe, Mn, Cd
 B=Bauxite analyses % SiO₂, LOI, Al₂O₃, Fe₂O₃

Nº 8243

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) Denver (West Cedar Dr.)

A TOTAL OF 1 only HAS BEEN SHIPPED VIA Trailways ON July 31, 1980
(No of Boxes or Sacks) (Carrier) (Date)

LAB JOB No. _____ REPORT DATED _____ AMAX PROJECT No. 1114

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)						OTHER			
	No.	Type	tMo	MoS ₂	Cu	nsCu		Mo	Cu	W	Ni	pH	*	Alk	T.E.		
<u>W14043-48</u>	<u>6</u>	<u>W</u>											*				
<u>W14068-69</u>	<u>2</u>	<u>W</u>											*				
<u>W14091+97-99</u>	<u>4</u>	<u>W</u>											*				
<u>W14150-57</u>	<u>8</u>	<u>W</u>											*				

TOTAL SAMPLES 20 REJECTS: Save Discard (RETURN ALL PULPS TO _____ OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * Standard geothermal analysis

SEND COPIES OF RESULTS TO: (For Geologists Use) Data Received _____ Anal. Cost _____

- Alan Shooker AMAX Geothermal
- _____
- _____
- 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 _____
 DATE _____

TYPE OF SAMPLE

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

ABBREVIATIONS

Alk= K_2O , Na_2O , CaO
 T.E=Trace Elements (Standard elements unless defined otherwise.)
 t=Total; iMo, iS ox=Oxide
 s=Sulfide; as sNi
 ns=Non-Sulfide; as nsCu
 S=Cu, Mo, Pb, Zn, Ag
 IO=5 + Co, Ni, Fe, Mn, Cd
 B=Bauxite analyses % SiO_2 , LOI, Al_2O_3 , Fe_2O_3

Nº 8244

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) Denver W. Cedar Drive

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

LAB JOB No. _____ REPORT DATED _____ AMAX PROJECT No. 1114

SAMPLE NUMBERS			ASSAYS (%)					GEOCHEMICAL (ppm)					OTHER				
	No.	Type	iMo	MoS ₂	Cu	nsCu			Mo	Cu	W	Ni	pH	*	Alk	T.E.	
W14138-W14149	12	W												✓			
W14160	1	W												✓			
W14173-W14174	2	W												✓			
W14202-W14203	2	W												✓			

TOTAL SAMPLES 20 REJECTS: Save Discard (RETURN ALL PULPS TO _____ OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * Standard Geochemical Analysis

SEND COPIES OF RESULTS TO: (For Geologists Use) Data Received _____ Anal. Cost _____

- Alan Shanker, Geothermal Branch
- _____
- _____
- 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 Karen Williams
 DATE 2-13-80

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
 B=Bauxite analyses % SiO₂, LOI, Al₂O₃, Fe₂O₃

Nº 9326

REQUISITION FOR ANALYTICAL WORK
 (REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) W. Cedar Dr. Denver

A TOTAL OF 1 box HAS BEEN SHIPPED VIA _____ ON _____
(No of Boxes or Sacks) (Carrier) (Date)

LAB JOB No. _____ REPORT DATED _____ AMAX PROJECT No. 1114

SAMPLE NUMBERS	ASSAYS (%)							GEOCHEMICAL (ppm)						OTHER			
	No.	Type	tMo	MoS ₂	Cu	nsCu		Mo	Cu	W	Ni	pH	*	Alk	T.E.		
<u>W14115 - W14120</u>	<u>6</u>	<u>W</u>											✓				
<u>W14134 - W14137</u>	<u>4</u>	<u>W</u>											✓				
<u>W14170 - W14172</u>	<u>3</u>	<u>W</u>											✓				
<u>W14158 - W14159</u>	<u>2</u>	<u>W</u>											✓				
<u>W14197 - W1420</u>	<u>5</u>	<u>W</u>											✓				

TOTAL SAMPLES 20 REJECTS: Save Discard (RETURN ALL PULPS TO _____ OFFICE)

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * Standard Geochemical Analysis

SEND COPIES OF RESULTS TO: (For Geologists Use) Data Received _____ Anal. Cost _____

- Also Shaker - Geophysical
- _____
- _____
- 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

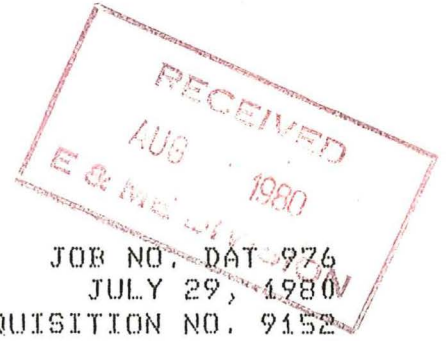
REQUESTED BY Yvonne Phillippe
 DATE 8-12-80

SKYLINE LABS, INC.

SPECIALISTS IN EXPLORATION GEOCHEMISTRY

2090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS



AMAX Exploration, Inc.
Attn: H. J. Olson
Geothermal Branch
7100 West 44th Avenue
Wheatridge, Colorado 80033

Analysis of 1 Pulp Sample

ITEM	SAMPLE NO.	FIRE ASSAY	
		Pb (%)	Ag (oz/T)
1	A88759	38.0	16.5

Gordon H. VanSickle
Gordon H. VanSickle
Manager

DETERMINATIONS:

Pb - Atomic absorption
Ag - Fire assay

CC's: ✓ A. E. Shenker
L. D. Mullen
AMAX, Denver

Memo to Wim with location.

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 5117

REQUISITION FOR ANALYTICAL WORK

(REFER TO REQUISITION NO. IN ALL CORRESPONDENCE)

TO: (LAB AND ADDRESS) Skyline

A TOTAL OF 1 (No of Boxes or Sacks) HAS BEEN SHIPPED VIA Hand (Carrier) ON Aug. 29, 1980 (Date)

WAYBILL No. _____ AMAX PROJECT No. 1114

SAMPLE NUMBERS			ASSAYS (%)					GEOCHEMICAL (ppm)						OTHER						
	No.	Type	tMo	MoS ₂	Cu	nsCu	F	Hg	Mo	Cu	W	Ni	pH	*	Alk	T.E.	5	10	Org	
to <u>R14122</u>	<u>1</u>	<u>R</u>																		
to <u>R14147</u>	<u>1</u>	<u>R</u>																		
to <u>R14007</u>	<u>1</u>	<u>R</u>																		
to <u>R14012</u>	<u>1</u>	<u>R</u>																		
<u>R15000</u> to <u>R15004</u>	<u>5</u>	<u>R</u>																		
to <u>R15005</u>	<u>1</u>	<u>R</u>																		
TOTAL SAMPLES <u>over</u>			REJECTS: Save <input type="checkbox"/> Discard <input type="checkbox"/> (RETURN ALL PULPS TO OFFICE)																	

SAMPLES MISSING _____

SPECIAL INSTRUCTIONS OR REMARKS * CaCO₃ - SiO₂
F - interested in total Fluoride content

- SEND COPIES OF RESULTS TO:
- Alan Shenker, Geothermal
 - _____
 - _____
 - 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 Alan E. Shenker
 DATE Aug 29, 1980

$$\begin{array}{r} 20 \\ 9.6 \\ \hline 120 \\ 120 \\ \hline 1920 \end{array}$$

$$\begin{array}{r} 56.7 \\ 120 \\ \hline 1134 \\ \hline 11340 \end{array}$$

$$\begin{array}{r} 51.6 \\ 20 \\ \hline 1032 \\ \hline 10320 \end{array}$$

$$\begin{array}{r} 13 \\ 24.1 \\ - 11.2 \\ \hline 12.9 \end{array}$$

$$\begin{array}{r} 52.5 \\ 20 \\ \hline 1050 \\ \hline 10500 \end{array}$$

$$\begin{array}{r} 129 \\ 129 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 9.35 \\ 20 \\ \hline 1870 \\ \hline 18700 \end{array}$$

$$\begin{array}{r} 11.2 \\ 120 \\ \hline 1344 \\ \hline 13440 \end{array}$$

SILICA (COLORIMETRIC)

DATE: 6 / 28 / 80CHEMIST XJSAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14013			27
W14014			52
W14015			59
W14016			23
W14017			29
W14018			33
W14019			56
W14020			21.5
W14021			27
W14022			11.5
W14030			35.0
W14031			34
W14032			47
W14033			43.5
W14034			41.5
W14035			44
W14036			29
W14058			29

ALKALINITY (ELECTROMETRIC)

DATE: 6 / 28 / 80

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST XJ

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
W14013 ✓	6.95	0	29.4	0	588	0	588
W14014 ✓	7.46	0	11.6	0	232	0	232
W14015 ✓	7.68	0	10.9	0	218	0	218
W14016 ✓	7.28	0	11.6	0	232	0	232
W14017 ✓	8.2	0	5.5	0	110	0	110
W14018 ✓	8.02	0	7.2	0	144	0	144
W14019 ✓	7.07	0	2.0	0	40	0	40
W14020 ✓	7.9	0	6.9	0	138	0	138
W14021 ✓	7.43	0	9.7	0	194	0	194
W14022 ✓	8.95	.50	3.4	10	68	20	48
W14030 ✓	7.42	0	.95	0	19	0	19
W14031 ✓	8.07	0	8.9	0	178	0	178
W14032 ✓	7.72	0	5.0	0	100	0	100
W14033 ✓	7.91	0	10.8	0	216	0	216
W14034 ✓	7.95	0	6.1	0	122	0	122
W14035 ✓	7.41	0	3.4	0	68	0	68
W14036 ✓	7.10	0	8.75	0	175	0	175
W14058 ✓	7.70	0	7.2	0	144	0	144

SILICA (COLORIMETRIC)

DATE: 4 / 7 / 80

CHEMIST Xg

SAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14023			80
W14024			31.5
W14025			43.5
W14037			43
W14038			41
W14039			50.5
W14062			26
W14063			16
W14064			25
W14080			35.5
W14081			51
W14082			43.5
W14083			44.5
W14084			32.5
W14085			52
W14100			32.5
W14101			75
W14102			24

SILICA (COLORIMETRIC)

DATE: 7 / 18 / 80

CHEMIST Karol Gillespie

SAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14040			114
W14041			86
W14042			47.5
W14065			26
W14066			30.5
W14067			14.5
W14086			44
W14087			39
W14088			52
W14089			41.5
W14090			100
W14103			45
W14104			260
W14105			57.5
W14106			31
W14107			70
	F ⁻ = 14.8		

SILICA (COLORIMETRIC)

DATE: 7 / 25 / 80CHEMIST KJSAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14049			22
W14050			67
W14070			60
W14071			46
W14072			47
W14073			20.5
W14074			33
W14075			85
W14092			33
W14093			45
W14094			39
W14095			83
W14096			90
W14097			48
W14098			30
W14108			27.5
W14109			58
W14121			46
W14122			15.5

ALKALINITY (ELECTROMETRIC)

DATE: 7 / 25 / 80

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST XG

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
W14049 ✓	7.91	0	5.5	0	110	0	110.0
W14050 ✓	7.78	0	5.4	0	108	0	108.0
W14070 ✓	7.55	0	8.1	0	162	0	162.0
W14071 ✓	7.79	0	10.85	0	217	0	217.0
W14072 ✓	7.40	0	9.2	0	184	0	184.0
W14073 ✓	7.99	0	12.95	0	259	0	259.0
W14074 ✓	7.66	0	8.5	0	170	0	170.0
W14075 ✓	7.82	0	9.1	0	182	0	182.0
W14092 ✓	7.93	0	6.65	0	133	0	133.0
W14093 ✓	7.85	0	7.35	0	147	0	147.0
W14094 ✓	7.89	0	6.95	0	139	0	139.0
W14095 ✓	7.98	0	10.2	0	204	0	204.0
W14096 ✓	7.71	0	8.6	0	172	0	172.0
W14097 ✓	7.72	0	8.65	0	173	0	173.0
W14098 ✓	7.7	0	7.8	0	156	0	156.0
W14108 ✓	7.54	0	12.9	0	258	0	258.0
W14109 ✓	7.67	0	16.5	0	330	0	330.0
W14121 ✓	7.8	0	3.95	0	79	0	79.0
W14122 ✓	7.93	0	.65	0	13	0	13.0
W14123 ✓	7.62	0	4.2	0	84	0	84.0
W14124 ✓	7.91	0	5.1	0	102	0	102.0
W14125 ✓	7.89	0	7.9	0	158	0	158.0

SILICA (COLORIMETRIC)

DATE: 7 / 31 / 80CHEMIST Karel GillespieSAMPLE VOLUME: 25 ml

> 50 ppm

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM	*
W14126			59	*
W14127			25	
W14151			69	*
W14152			60	*
W14153			22	
W14154			33	
W14155			28	
W14156			22	
W14157			29	
W14158			25	
W14099			40	
W14110			48	
W14111			46	
W14112			33	
W14113			45	
W14114			74	*
W14115			75	*
W14116			95	*
W14117			38.5	
W14118			46	

ALKALINITY (ELECTROMETRIC)

DATE: 7 / 31 / 86

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST XJ

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
W14126 ✓	7.9	0	10.3	0	206	0	206.0
W14127 ✓	8.02	0	1.7	0	34	0	34.0
W14151 ✓	7.5	0	11.1	0	222	0	222.0
W14152 ✓	7.39	0	14.3	0	286	0	286.0
W14153 ✓	7.84	0	6.7	0	134	0	134.0
W14154 ✓	7.62	0	12.35	0	247	0	247.0
W14155 ✓	8.1	0	14.4	0	288	0	288.0
W14156 ✓	7.75	0	10	0	200	0	200.0
W14157 ✓	7.39	0	17.6	0	352	0	352.0
W14158 ✓	7.8	0	9.6	0	192	0	192.0
W14099 ✓	7.85	0	7.1	0	142	0	142.0
W14110 ✓	7.93	0	14.5	0	290	0	290.0
W14111 ✓	8.5	0.6	18	12	360	24.0	336.0
W14112 ✓	7.35	0	13.1	0	262	0	262.0
W14113 ✓	7.72	0	13.35	0	267	0	267.0
W14114 ✓	7.8	0	9.4	0	188	0	188.0
W14115 ✓	7.7	0	6.85	0	137	0	137.0
W14116 ✓	7.94	0	6.4	0	128	0	128.0
W14117 ✓	7.48	0	12.9	0	258	0	258.0
W14150 ✓	7.7	0	9.8	0	196	0	196.0

SILICA (COLORIMETRIC)

DATE: 8 / 17 / 80CHEMIST Karol GillespieSAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14118			39
W14119			66
W14120			45
W14128			30
W14129			24
W14130			36
W14131			26
W14132			48
W14133			74
W14134			78
W14135			83
W14158			23
W14159			14
W14170			31
W14171			26
W14190			35
W14191			42
W14192			37
W14193			42

ALKALINITY (ELECTROMETRIC)

DATE: 8 / 17 / 80

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST Karol Gillespie

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
W14118 ✓	7.62	0	11.9	0	238	0	238
W14119 ✓	7.73	0	10.1	0	202	0	202
W14120 ✓	7.9	0	16.4	0	328	0	328
W14128 ✓	8.2	0	9.4	0	188	0	188
W14129 ✓	8.05	0	9.7	0	194	0	194
W14130 ✓	8.01	0	8.9	0	178	0	178
W14131 ✓	7.95	0	8.1	0	162	0	162
W14132 ✓	7.25	0	12.3	0	246	0	246
W14133 ✓	7.7	0	11.5	0	230	0	230
W14134 ✓	7.91	0	5.2	0	104	0	104
W14135 ✓	8.0	0	4.9	0	98	0	98
W14158 ✓	8.03	0	10.8	0	216	0	216
W14159 ✓	7.32	0	15.3	0	306	0	306
W14170 ✓	7.72	0	12.8	0	156	0	156
W14171 ✓	6.86	0	.9	0	18	0	18
W14190 ✓	7.1	0	1.5	0	30	0	30
W14191 ✓	7.5	0	3.2	0	64	0	64
W14192 ✓	8.07	0	3.5	0	70	0	70
W14193 ✓	6.98	0	3.5	0	70	0	70
W14194 ✓	7.5	0	9.0	0	180	0	180
W14195 ✓	6.5	0	1.2	0	24	0	24
W14196 ✓	9.01	-6	5.3	12	106	24	82

SILICA (COLORIMETRIC)

DATE: 8 / 12 / 80CHEMIST Karol GillespieSAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14136			51
W14137			23
W14138			21
W14139			52
W14140			28
W14141			16
W14142			47
W14143			52
W14172			27
W14197			26
W14198			35
W14199			22
W14200			43
W14201			29
W14202			63
W14203			30
W14204			25
W14205			55

ALKALINITY (ELECTROMETRIC)

DATE: 8 / 17 / 80

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST Karol Gillespie

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
W14136 ✓	8.03	0	5.7	0	114	0	114
W14137 ✓	8.15	0	5.1	0	102	0	102
W14138 ✓	6.92	0	2.3	0	46	0	46
W14139 ✓	7.75	0	10	0	200	0	200
W14140 ✓	7.61	0	13.2	0	264	0	264
W14141 ✓	8.70	7	16.7	14	334	28	306
W14142 ✓	7.90	0	6.2	0	124	0	124
W14143 ✓	7.90	0	8.5	0	170	0	170
W14144 ✓	7.79	0	12.1	0	242	0	242
W14145 ✓	8.34	.1	8.45	2	169	4	165
W14146 ✓	7.64	0	16.8	0	336	0	336
W14147 ✓	7.59	0	15.4	0	308	0	308
W14148 ✓	7.57	0	9.95	0	199	0	199
W14149 ✓	8.10	0	9.30	0	186	0	186
W14160 ✓	7.77	0	22.0	0	440	0	440
W14161 ✓	8.05	0	9.30	0	186	0	186
W14162 ✓	8.19	0	13.35	0	267	0	267
W14163 ✓	8.00	0	16.90	0	338	0	338
W14172 ✓	7.90	0	14.3	0	286	0	286
W14173 ✓	7.79	0	15.3	0	306	0	306
W14174 ✓	7.98	0	8.0	0	160	0	160

SILICA (COLORIMETRIC)

DATE: 8 / 19 / 80

CHEMIST Karol Gillespie

SAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
W14300			25
W14301			8
W14302			22
W14303			20
W14304			43
W14320			29
W14321			14
W14322			25
W14323			18
W14324			21
W14325			20
W14326			18
W14327			18
W14328			15
W14329			25
W14330			23
W14331			31

SILICA (COLORIMETRIC)

DATE: 8 / 25 / 80CHEMIST K. G.SAMPLE VOLUME: 25 ml

Sample No.	ABS.	ABS. minus Blank	SiO ₂ , PPM
14305			22
14306			7
14307			9
14308			18
14309			17
14310			35
14311			20
14312			7.5
14313			27
14314			17.5
14332			52
14333			31
14334			36.5
14335			19.5
14336			22.5
14337			16.25
14338			65
14339			36.8
14340			39

ALKALINITY (ELECTROMETRIC)

DATE: 8 / 25 / 80

CARBONATE AND BICARBONATE

SAMPLE VOLUME: 50 ml

CHEMIST K.G. + J.L.

Sample No.	N pH and TITRANT	pH 8.3	pH 4.5	p	T	CO ₃	HCO ₃
		A ml	B ml	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃	PPM, as CaCO ₃
14305	8.13	0	4.0	0	80	0	80
14306	8.72	.5	7.4	10	148	20	128
14307	8.10	0	3.9	0	78	0	78
14308	8.14	0	15.1	0	302	0	302
14309	7.42	0	1.2	0	24	0	24
14310	8.09	0	1.0	0	20	0	20
14311	8.25	0	5.6	0	112	0	112
14312	8.98	1.8	19.4	36	388	72	316
14313	7.98	0	3.2	0	64	0	64
14314	7.89	0	8.5	0	170	0	170
14332	8.25	0	28.1	0	562	0	562
14333	8.03	0	5.6	0	112	0	112
14334	7.89	0	2.5	0	50	0	50
14335	7.91	0	2.45	0	49	0	49
14336	8.05	0	4.50	0	90	0	90
14337	8.15	0	2.8	0	56	0	56
14338	9.00	0.6	2.1	12	42	24	18
14339	7.94	0	6.0	0	120	0	120
14340	8.12	0	15.3	0	306	0	306

ANALYTICAL REPORT

DATE 7/1/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9332 JOB NO. _____
 PROJECT 1114
 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	PPM	
01	W-14002	2300	7.9	58.	7.3	16.	31	W-14002	1.3	1.6	4200	520.	2.6
02	03	410	4.3	46.	23.	17.	32	03	0.2	0.5	650	38.	0.7
03	04	19.	0.6	75.	12.	14.	33	04	4.1	4.2	19.	9.4	0.3
04	05	9.4	0.9	74.	19.	11.	34	05	4.1	4.2	46.	6.6	0.4
05	06	10.	1.6	43.	15.	29.	35	06	4.1	0.3	12.	4.8	0.9
06	08	290	1.2	2.6	0.1	19.	36	08	0.2	4.2	400	11.	1.0
07	09	20.	1.3	47.	5.3	23.	37	09	4.1	4.2	49.	4.2	0.5
08	10	600	10.	240	110.	36.	38	10	0.5	1.0	1500	380.	0.9
09	11	10000	240.	18	110.	33.	39	11	7.2	13.	6300	10000.	2.2
10	W-14012	6500	94.	430	440.	16.	40	W-14012	2.8	2.8	3700	9000.	0.3
11	W14026	43.	3.4	55	13.	34.	41	026	4.1	4.2	53.	24.	0.9
12	27	2.6	0.7	100	4.7	11.	42	27	4.1	4.2	410	20.	0.4
13	28	100	10.	480	110	26.	43	28	0.1	0.3	1600	21.	0.9
14	29	33.	1.8	66	7.8	16.	44	29	4.1	4.2	32.	8.4	1.0
15	W14051	5.0	0.5	75	13.	20.	45	W14051	4.1	4.2	410	5.6	0.2
16	52	7.8	1.3	16	3.5	25.	46	52	4.1	4.2	18.	6.4	0.1
17	53	8.4	2.3	41	6.6	21.	47	53	4.1	4.2	14.	4.8	0.5
18	54	320	1.2	3.8	1.7	16.	48	54	0.1	0.5	310	20.	1.1
19	55	36.	1.6	110	19.	22.	49	55	4.1	0.2	100	60.	0.4
20	W-14056	7.0	1.0	160	12.	25.	50	W-14056	4.1	4.2	20	29.	0.2
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
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:
 Sample #W14007 was reported on a previous report sheet.

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

Copies to:
 1. A. E. Shenker At Geothermal
 2. Geothermal Office At _____
 3. E. J. Rowe At Denver Lab
 4. S. C. Hoatson Denver Lab

LAB Amax-Denver

ANALYTICAL REPORT

DATE 10/8/80

REQ. NO. 9332 JOB NO. _____

ANALYST PK, JJ

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Alan Shenker ✓

			JJ	PK									
	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb		
01	W14002		<4*	<2*			31						
02	03		5	<2			32						
03	04		2	2			33						
04	05		1	2			34						
05	06		1	10			35						
06	07		2	4			36						
07	08		4	<2			37						
08	09		2	<2			38						
09	10		3	<2			39						
10	W14011		3	<2			40						
11	012		2	<2			41						
12	W14026		<4*	<2*			42						
13	27		2	<2			43						
14	28		<6*	2			44						
15	29		<4*	<2*			45						
16	W14051		1	<2			46						
17	52		3	4			47						
18	53		3	2			48						
19	54		<4*	<2*			49						
20	W14055		1	<2			50						
21	56		3	<2			51						
22							52						
23							53						
24							54						
25							55						
26							56						
27							57						
28							58						
29							59						
30							60						

METHODS: Digestion-

Sample Weight-

Determination-

Mo, Cu - colorimetric

pH - electrometric

REMARKS:

pH already reported
* interference

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

Copies to: S.C. Hoatson @ Denver Lab
1. Alan E. Shenker At Geothermal
2. Geothermal Office At _____
3. E. J. Rowe At Denver Lab

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 7/1/80

REQ. NO. 9332 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY A. E. Shenker

	SAMPLE	Cu	Mo		SAMPLE	pH	CO ₃	HCO ₃			
		PPB	PPB				PPM	PPM			
01	w14002				31	w14002	8.0				
02	03				32	03	8.0				
03	04				33	04	7.5				
04	05				34	05	7.4				
05	06				35	06	7.8	Not Requested	Not Requested		
06	08				36	08	8.9				
07	09				37	09	7.4				
08	10				38	10	7.3				
09	11				39	11	8.3				
10	w14012				40	w14012	7.2				
11	w14026				41	w14026	7.8				
12	27				42	27	7.5				
13	28				43	28	7.4				
14	29				44	29	7.3				
15	w14051				45	w14051	7.6				
16	52				46	52	6.6				
17	53				47	53	7.3				
18	54				48	54	8.2				
19	55				49	55	7.5				
20	w14056				50	w14056	7.3				
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:

Mo, Cu to be reported at a later date

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

Copies to:
1. A. E. Shenker At Geothermal
2. Geothermal Office At _____
3. E. J. Rowe At Denver Lab
4. S. C. Hoatson Denver Lab

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 6/23/80

REQ. NO. 9332 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY A. E. Shenker

	SAMPLE	Cu	Mo				SAMPLE	pH	CO ₃	HCO ₃			
		PPB	PPB						PPM	PPM			
01	<u>W14007</u>						31	<u>W14007</u>	<u>6.6</u>	<u>0</u>	<u>1160</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: Mo, Cu, to be reported CO₃, HCO₃ - Electrometric Titration
out a later date

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

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2. Geothermal Office At _____
3. E. J. Rowe At Denver Lab
4. S. C. Hoatson Denver Lab



ANALYTICAL REPORT

DATE 7/11/80
 ANALYST S. C. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8240 JOB NO. _____
 PROJECT 1114
 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-14013	320.	13.	700.	160.	26.	31	W-14013	0.5	0.8	1900	330.	1.3
02	14	34.	1.6	54.	25.	49.	32	14	<1	0.3	32.	26.	0.7
03	15	25.	1.0	48.	26.	54.	33	15	<1	0.2	20.	15.	0.4
04	16	15.	1.1	110.	14.	22.	34	16	<1	<1	59.	7.8	0.2
05	17	50.	2.7	32.	4.0	26.	35	17	<1	0.2	28.	13.	0.6
06	18	24.	1.2	68.	21.	32.	36	18	<1	0.2	120.	29.	1.6
07	W14030	7.8	1.6	7.0	1.6	34.	37	W14030	<1	<1	17.	3.8	0.1
08	31	80.	1.7	4.4	0.7	32.	38	31	<1	0.5	18.	10.	1.4
09	32	34.	0.4	12.	1.3	44.	39	32	<1	0.2	<10.	4.0	2.3
10	W-14033	52.	1.0	73.	20.	42.	40	W-14033	<1	0.2	68.	50.	0.6
11	34	22.	1.2	30.	5.6	41.	41	34	<1	0.2	<10.	8.6	0.4
12	W14057	3.0	0.5	130.	4.8	13.	42	W-14057	<1	<1	14.	3.2	0.2
13	58	140.	5.2	640.	100.	29.	43	58	<1	0.3	1800	17	0.9
14	59	7.4	1.2	6.7	1.6	35.	44	59	<1	<1	15.	3.8	0.5
15	60	42.	5.2	12.	0.9	48.	45	60	<1	0.2	13.	15	1.2
16	61	11.	1.3	7.5	1.6	42.	46	61	<1	<1	16.	3.8	1.3
17	W14076	3.0	0.5	110.	7.0	11.	47	W14076	<1	<1	20.	3.6	0.2
18	77	12.	2.8	40.	9.0	25.	48	77	<1	<1	24.	7.6	0.4
19	78	3.6	0.7	60.	2.6	15.	49	78	<1	0.2	20.	3.6	0.1
20	W-14079	100.	1.6	180	52.	25.	50	W-14079	<1	0.2	480	130	0.3
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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 7/11/80

REQ. NO. 8240 JOB NO. _____

ANALYST S.C. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	w14013	6.7						31					
02	14	7.5						32					
03	15	7.7						33					
04	16	7.3						34					
05	17	8.3						35					
06	18	8.0						36					
07	w14030	7.3						37					
08	31	8.6						38					
09	32	7.9						39					
10	33	7.8						40					
11	34	7.5						41					
12	w14057	7.4						42					
13	58	7.4						43					
14	59	6.6						44					
15	60	7.6						45					
16	61	6.7						46					
17	w14076	7.4						47					
18	77	8.4						48					
19	78	7.2						49					
20	79	7.6						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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS: Mo, Cu to be reported at a later date.

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 6/23/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOHERMAL WATER

REQ. NO. 9332 JOB NO. _____
 PROJECT 1114
 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-14007	3600	68	320	50	140	31 W-14007	5.5	6.4	3200	3100	2.7
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: *MoCo to be reported at later date* Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

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ANALYTICAL REPORT

DATE 7/11/80

REQ. NO. 8290 JOB NO. _____

ANALYST S. C. Hoatson

PROJECT 1114

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-14013	320.	13.	700.	160.	26.	31	W-14013	0.5	0.8	1900	330.	1.3
02	14	34.	1.6	54.	25.	49.	32	14	4.1	0.3	32.	26.	0.7
03	15	25.	1.0	48.	26.	54.	33	15	4.1	0.2	20.	15.	0.4
04	16	15.	1.1	110.	14.	22.	34	16	4.1	4.2	59.	7.8	0.2
05	17	50.	2.7	32.	4.0	26.	35	17	4.1	0.2	28.	13.	0.6
06	18	24.	1.2	68.	21.	32.	36	18	4.1	0.2	120.	29.	1.6
07	W14030	7.8	1.6	7.0	1.6	34.	37	W14030	4.1	4.2	17.	3.8	0.1
08	31	80.	1.7	4.4	0.7	32.	38	31	4.1	0.5	18.	10.	1.4
09	32	34.	0.4	12.	1.3	44.	39	32	4.1	0.2	40.	4.0	2.3
10	W-14033	52.	1.0	73.	20.	42.	40	W-14033	4.1	0.2	68.	50.	0.6
11	34	22.	1.2	30.	5.6	41.	41	34	4.1	0.2	<10.	8.6	0.4
12	W14057	3.0	0.5	130.	4.8	13.	42	W-14057	4.1	4.2	14.	3.2	0.2
13	58	140.	5.2	640.	100.	29.	43	58	4.1	0.3	1800	17	0.9
14	59	7.4	1.2	6.7	1.6	35.	44	59	4.1	4.2	15.	3.8	0.5
15	60	42.	5.2	12.	0.9	48.	45	60	4.1	0.2	13.	15	1.2
16	61	11.	1.3	7.5	1.6	42.	46	61	4.1	4.2	16.	3.8	1.3
17	W14076	3.0	0.5	110.	7.0	11.	47	W14076	4.1	4.2	20.	3.6	0.2
18	77	12.	2.8	40.	9.0	25.	48	77	4.1	4.2	24.	7.6	0.4
19	78	3.6	0.7	60.	2.6	15.	49	78	4.1	0.2	20.	3.6	0.1
20	W-14079	100.	1.6	180	52.	25.	50	W-14079	4.1	0.2	480	130	0.3
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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 7/11/80

REQ. NO. 8240 JOB NO. _____

ANALYST S.C. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	w14013	6.7						31					
02	14	7.5						32					
03	15	7.7						33					
04	16	7.3						34					
05	17	8.3						35					
06	18	8.0						36					
07	w14030	7.3						37					
08	31	8.6						38					
09	32	7.9						39					
10	33	7.8						40					
11	34	7.5						41					
12	w14057	7.4						42					
13	58	7.4						43					
14	59	6.6						44					
15	60	7.6						45					
16	61	6.7						46					
17	w14076	7.4						47					
18	77	8.4						48					
19	78	7.2						49					
20	79	7.6						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- Mo, Cu - colorimetric
 pH - electrometric

REMARKS: *Mo, Cu to be reported at a later date.*

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 7/28/80

REQ. NO. 8241 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES GEOHERMAL 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-14019	26.	1.5	25.	2.6	46.	31 W-14019	<.1	<.2	81.	10.	1.3
02 020	18.	1.2	190.	55.	21.	32 020	<.1	0.2	500.	26.	0.8
03 021	14.	0.8	72.	18.	23.	33 021	<.1	<.2	68.	14.	0.2
04 022	460.	15.	610.	700.	25.	34 022	0.2	1.6	5200.	97.	0.7
05 023	40.	1.7	7.6	0.6	64.	35 023	<.1	0.3	<10	5.4	7.3
06 024	22.	1.4	125.	24.	25.	36 024	<.1	<.2	95.	16.	0.4
07 025	360.	22.	120.	7.9	40.	37 025	0.4	0.4	87.	630.	2.5
08 W14035	14.	0.5	19.	1.0	38.	38 W14035	<.1	<.2	<10.	6.6	0.3
09 036	7.6	1.0	28.	4.0	26.	39 036	<.1	<.2	12.	4.4	0.6
10 W-14037	9.0	1.2	7.2	1.4	42.	40 W-14037	<.1	<.2	18.	5.6	0.2
11 038	8.1	1.4	8.6	2.1	34.	41 038	<.1	<.2	32.	4.8	0.1
12 039	140.	5.0	34.	1.4	39.	42 039	0.1	0.3	94.	150	2.8
13 W14080	35.	1.1	150.	38.	30.	43 W14080	<.1	<.2	33.	11.	0.9
14 081	36.	2.3	32.	12.	43.	44 081	<.1	<.2	21.	8.0	0.5
15 082	120.	4.2	26.	1.2	39.	45 082	0.1	0.3	123.	99.	2.9
16 083	27.	1.7	140.	37.	38.	46 083	<.1	<.2	258.	15.	0.4
17 084	66.	4.0	33.	12	26.	47 084	<.1	<.2	22.	71.	1.7
18 W14100	6.4	2.5	10.	2.6	27.	48 W14100	<.1	<.2	80.	5.2	0.2
19 101	22.	1.1	60.	13.	61.	49 101	<.1	0.3	250.	7.4	0.2
20 W-14102	18.	2.9	140.	31.	78.	50 W-14102	<.1	<.2	26.	7.2	1.9
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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ANALYTICAL REPORT

DATE 7/28/80

REQ. NO. 8241 JOB NO. _____

ANALYST M.S

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY A. E SHENKER

	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH	Mo ppb	Cu ppb	
01	W14019	7.1					31				
02	020	7.9					32				
03	021	7.5					33				
04	022	8.0					34				
05	023	8.5					35				
06	024	7.4					36				
07	025	7.5					37				
08	W14035	8.0					38				
09	036	7.2					39				
10	037	6.9					40				
11	W14038	6.4					41				
12	039	7.6					42				
13	W14080	7.5					43				
14	081	7.8					44				
15	082	8.0					45				
16	083	7.8					46				
17	084	7.7					47				
18	W14100	7.0					48				
19	101	7.1					49				
20	102	7.8					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-

Mo, Cu - colorimetric
pH - electrometric

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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 7/28/80

REQ. NO. 8241 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES GEOHERMAL 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-14019	26.	1.5	25.	2.6	46.	31 W-14019	<.1	<.2	81.	10.	1.3
02 020	18.	1.2	190.	55.	21.	32 020	<.1	0.2	500.	26.	0.8
03 021	14.	0.8	72.	18.	23.	33 021	<.1	<.2	68.	14.	0.2
04 022	460.	15.	610.	700.	25.	34 022	0.2	1.6	5200.	97.	0.7
05 023	40.	1.7	7.6	0.6	64.	35 023	<.1	0.3	<10	5.4	7.3
06 024	22.	1.4	125.	24.	25.	36 024	<.1	<.2	95.	16.	0.4
07 025	360.	22.	120.	7.9	40.	37 025	0.4	0.4	87.	630.	2.5
08 W14035	14.	0.5	19.	1.0	38.	38 W14035	<.1	<.2	<10.	6.6	0.3
09 036	7.6	1.0	28.	4.0	26.	39 036	<.1	<.2	12.	4.4	0.6
10 W-14037	9.0	1.2	7.2	1.4	42.	40 W-14037	<.1	<.2	18.	5.6	0.2
11 038	8.1	1.4	8.6	2.1	34.	41 038	<.1	<.2	32.	4.8	0.1
12 039	140.	5.0	34.	1.4	39.	42 039	0.1	0.3	94.	150	2.8
13 W14080	35.	1.1	150.	38.	30.	43 W14080	<.1	<.2	33.	11.	0.9
14 081	36.	2.3	32.	12.	43.	44 081	<.1	<.2	21.	8.0	0.5
15 082	120.	4.2	26.	1.2	39.	45 082	0.1	0.3	123.	99.	2.9
16 083	27.	1.7	140.	37.	38.	46 083	<.1	<.2	258.	15.	0.4
17 084	66.	4.0	33.	12	26.	47 084	<.1	<.2	22.	71.	1.7
18 W14100	6.4	2.5	10.	2.6	27.	48 W14100	<.1	<.2	80.	5.2	0.2
19 101	22.	1.1	60.	13.	61.	49 101	<.1	0.3	250.	7.4	0.2
20 W-14102	18.	2.9	140.	31.	78.	50 W-14102	<.1	<.2	26.	7.2	1.9
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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ANALYTICAL REPORT

DATE 7/28/80

REQ. NO. 8241 JOB NO. _____

ANALYST M.S

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY A. E SHENKER

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	W14019	7.1						31					
02	020	7.9						32					
03	021	7.5						33					
04	022	8.0						34					
05	023	8.5						35					
06	024	7.4						36					
07	025	7.5						37					
08	W14035	8.0						38					
09	036	7.2						39					
10	037	6.9						40					
11	W14038	6.4						41					
12	039	7.6						42					
13	W14080	7.5						43					
14	081	7.8						44					
15	082	8.0						45					
16	083	7.8						46					
17	084	7.7						47					
18	W14100	7.0						48					
19	101	7.1						49					
20	102	7.8						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-

Mo, Cu - colorimetric
pH - electrometric

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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 8/4/80

REQ. NO. 8242 JOB NO. _____

ANALYST SH. J.B

PROJECT 1114

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-14040	19	3.0	30.	13.	7.4	31 W-14040	4.1	4.2	12	12	0.4
02 41	28	2.2	55.	17.	57	32 41	4.1	0.3	21	14	0.3
03 42	78	6.2	48.	7.6	32	33 42	0.1	0.2	51	130	0.9
04 W14062	32	4.8	560.	120.	23	34 W14062	4.1	4.2	1800.	22	1.7
05 63	500	5.8	190.	64.	15	35 63	0.2	1.3	1300	160	1.5
06 64	260	3.4	67.	57.	22	36 64	0.1	1.4	1500	93	2.2
07 65	100	13.	100.	25.	19	37 65	4.1	0.5	240	79	1.4
08 66	69	3.9	130.	28.	22	38 66	4.1	0.3	240	14	0.6
09 67	320	0.6	5.8	0.3	11	39 67	0.1	0.2	930	64	3.9
10 W-14085	11	1.7	45.	5.6	46	40 W-14085	4.1	4.2	18	5	0.5
11 86	50	4.9	22.	3.1	32	41 86	4.1	0.2	16	40	0.5
12 87	24	4.0	38.	17.	29	42 87	4.1	0.3	70	13	1.1
13 88	310	18.	47.	15.	41	43 88	0.4	0.3	310	160	6.0
14 89	18	1.2	72.	13.	28	44 89	4.1	4.2	60	7	0.5
15 90	76	4.1	36.	11.	61	45 90	0.1	4.2	70	11	7.0
16 W14103	10	1.2	56.	11.	31	46 W14103	4.1	4.2	330	5	0.3
17 04	160	11.	6.0	0.4	150	47 04	0.3	4.2	50	18	15.
18 05	22	1.2	90.	22.	40	48 05	4.1	4.2	120	5	2.3
19 06	11	0.6	130.	14.	20	49 06	4.1	4.2	90	5	0.2
20 W-14107	32	1.2	64.	15.	46	50 W-14107	4.1	4.2	130	6	2.8
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 8/4/80
 ANALYST SH. J.B
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8242 JOB NO. _____
 PROJECT 1114
 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-14040	19	3.0	30.	13.	7.4	31 W-14040	<.1	<.2	12	12	0.4
02 41	28	2.2	55.	17.	57	32 41	<.1	0.3	21	14	0.3
03 42	78	6.2	48.	7.6	32	33 42	0.1	0.2	51	130	0.9
04 W14062	32	4.8	560.	120.	23	34 W14062	<.1	<.2	1800.	22	1.7
05 63	500	5.8	190.	64.	15	35 63	0.2	1.3	1300	160	1.5
06 64	260	3.4	67.	57.	22	36 64	0.1	1.4	1500	93	2.2
07 65	100	13.	100.	25.	19	37 65	<.1	0.5	240	79	1.4
08 66	69	3.9	130.	28.	22	38 66	<.1	0.3	240	14	0.6
09 67	320	0.6	5.8	0.3	11	39 67	0.1	0.2	930	64	3.9
10 W-14085	11	1.7	45.	5.6	46	40 W-14085	<.1	<.2	18	5	0.5
11 86	50	4.9	22.	3.1	32	41 86	<.1	0.2	16	40	0.5
12 87	24	4.0	38.	17.	29	42 87	<.1	0.3	70	13	1.1
13 88	310	18.	47.	15.	41	43 88	0.4	0.3	310	160	6.0
14 89	18	1.2	72.	13.	28	44 89	<.1	<.2	60	7	0.5
15 90	76	4.1	36.	11.	61	45 90	0.1	<.2	70	11	7.0
16 W14103	10	1.2	56.	11.	31	46 W14103	<.1	<.2	330	5	0.3
17 04	160	11.	6.0	0.4	150	47 04	0.3	<.2	50	18	15.
18 05	22	1.2	90.	22.	40	48 05	<.1	<.2	120	5	2.3
19 06	11	0.6	130.	14.	20	49 06	<.1	<.2	90	5	0.2
20 W-14107	32	1.2	64.	15.	46	50 W-14107	<.1	<.2	130	6	2.8
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 8/26/80
 ANALYST JB & M.S., SA
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8243 JOB NO. _____
 PROJECT 1114
 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-14043	27	1.7	49	12.	40.	31 W-14043	<0.1	<.2	37	21.	0.87
02 44	63	1.2	93	16.	33.	32 44	<0.1	<.2	120	22.	0.78
03 45	84	6.5	54	8.2	55.	33 45	<0.1	<.2	78	27.	5.4
04 46	400	16	8	1.6	100.	34 46	0.6	<.2	310	60.	18.
05 47	30	1.5	42	5.0	34.	35 47	<0.1	<.2	21	13.	0.32
06 48	120	0.6	100	32.	22.	36 48	<0.1	<.2	340	48.	1.
07 W14068	180	1.9	26	16.	19.	37 68	0.1	12.	220	99.	2.2
08 69	570	2.4	6	3.3	14.	38 69	0.15	2.	1200	120.	2.8
09 91	20	4.	26	5.9	56.	39 91	<0.1	<.2	47	8.8	0.45
10 W-14097	58	1.2	23	6.6	96.	40 W-14097	<0.1	.3	32	19.	0.81
11 98	48	4.1	32	8.7	54.	41 98	<0.1	<.2	31	21.	1.2
12 99	120	1.1	16	13.	30.	42 99	<0.1	.3	110	58.	1.2
13 150	53	0.9	39	19.	38.	43 150	<0.1	<.2	58	23.	0.62
14 51	19	2.	52	18.	62.	44 51	<0.1	<.2	17	15.	0.60
15 52	27	1.8	63	27.	15.	45 52	<0.1	<.2	30	13.	0.65
16 53	39	3.	31	7.5	26.	46 53	<0.1	<.2	47	20.	0.39
17 54	220	7.3	23	13.	38.	47 54	0.2	.4	260	75	3.5
18 55	270	1.9	11	9.2	34.	48 55	0.2	.4	260	100.	4.2
19 56	120	4.1	22	9.3	24.	49 56	0.2	.5	140	29.	2.4
20 W- 57	160	3.5	42	23.	34.	50 W- 57	0.1	.4	130	46.	2.2
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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LAB Amax-Denver

ANALYTICAL REPORT

DATE 8/26/80

REQ. NO. 8243 JOB NO. _____

ANALYST J.B.

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Alan E. Shenker

	SAMPLE	pH		Mo ppb	Cu ppb		SAMPLE	pH		Mo ppb	Cu ppb	
01	W14043	7.9					31					
02	44	7.4					32					
03	45	7.6					33					
04	46	8.0					34					
05	47	7.7					35					
06	48	7.4					36					
07	W14068	8.0					37					
08	69	8.7					38					
09	W14091	7.2					39					
10	W14097	7.8					40					
11	98	7.9					41					
12	99	8.0					42					
13	W14150	7.9					43					
14	51	7.6					44					
15	52	7.6					45					
16	53	8.3					46					
17	54	7.8					47					
18	55	8.3					48					
19	56	8.0					49					
20	W14157	7.5					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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS: *Mo, Cu To be reported at a later date.*

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ANALYTICAL REPORT

DATE 9/10/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9326 JOB NO. _____
 PROJECT 1114
 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	PPM	
01	W-14115	56.	2.4	34.	10.	69.	31	W-14115	<.1	0.2	61.	45.	1.1
02	16	50.	2.4	12.	4.0	82.	32	16	<.1	<.2	20.	56.	1.4
03	17	30.	1.0	67.	16.	33.	33	17	<.1	<.2	31.	11.	0.4
04	18	100.	6.4	72.	18.	52.	34	18	0.1	<.2	220.	43.	2.1
05	19	34.	2.8	34.	18.	76.	35	19	<.1	<.2	20.	19.	0.9
06	20	25.	1.9	74.	29.	58.	36	20	<.1	<.2	26.	12.	0.6
07	W14134	260.	14.	39.	5.5	86.	37	W14134	0.5	0.3	41.	420.	1.6
08	35	320.	16.	46.	7.0	100.	38	35	0.6	0.3	50.	530.	2.0
09	36	10.	2.5	20.	8.6	59.	39	36	<.1	<.2	<10	4.4	0.4
10	W-14137	18.	1.8	15.	6.6	30.	40	W-14137	<.1	<.2	14.	3.4	0.5
11	W14158	73.	1.0	24.	10.	28.	41	W14158	<.1	0.2	33.	20.	1.0
12	59	13.	0.8	140.	16.	17.	42	59	<.1	<.2	71.	7.8	0.3
13	W14170	32.	2.3	110.	18.	32.	43	W14170	<.1	<.2	99.	23.	0.4
14	71	2.8	1.9	4.	14	35.	44	71	<.1	<.2	<10	0.8	0.1
15	72	41.	2.6	110.	21.	40.	45	72	<.1	<.2	88.	22.	1.6
16	W14197	16.	1.0	46.	5.2	31.	46	W14197	<.1	<.2	<10	2.2	0.3
17	98	22.	0.2	50.	15.	45.	47	98	<.1	<.2	14.	5.4	0.3
18	99	24.	1.0	18.	5.1	28.	48	99	<.1	<.2	<10	3.6	0.4
19	200	60.	0.2	1.	<.1	51.	49	200	<.1	<.2	<10	2.6	0.8
20	W-14201	45.	1.8	50.	14.	72.	50	W-14201	<.1	<.2	52.	7.8	0.5
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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LAB Amax - Denver

ANALYTICAL REPORT

DATE 9/10/80

REQ. NO. 9326 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	w14115	8.0						31					
02	16	8.1						32					
03	17	7.9						33					
04	18	7.6						34					
05	19	7.7						35					
06	20	7.7						36					
07	w14134	7.8						37					
08	35	7.8						38					
09	36	8.0						39					
10	w14137	8.1						40					
11	w14158	8.0						41					
12	59	7.4						42					
13	w14170	7.3						43					
14	71	7.6						44					
15	72	7.7						45					
16	w14197	7.9						46					
17	98	7.3						47					
18	99	8.2						48					
19	200	10.1						49					
20	w14201	7.8						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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS:

*Mo, Cu To be
reported after
later date*

NOTE: Mail Original to
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LAB AMAX - DENVER

ANALYTICAL REPORT

DATE _____

REQ. NO. 9331 JOB NO. _____

ANALYST JB + MS

PROJECT 1114

TYPE SAMPLES GEOHERMAL 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-14049	390	1.4	41	5.2	24.	31	W- 14049	0.1	2	1800.	170.	2.1
02	50	110	6.3	66	28.	71.	32	50	0.1	.5	1100.	17.	1.2
03	14070	27	4.2	38	18.	70.	33	70	<.1	<.2	28.	17.	0.86
04	71	67	4.2	26	23.	61.	34	71	<.1	<.2	39.	23.	1.1
05	72	63	4.7	28	8.9	54.	35	72	<.1	<.2	24.	16.	0.84
06	73	160	1.5	9	3.0	22.	36	73	<.1	<.2	81.	69.	1.5
07	74	150	6.1	40	13.	40.	37	74	<.1	.4	200.	26.	2.2
08	75	91	9.3	20	3.3	93.	38	75	<.1	<.2	58.	12.	0.84
09	14092	48	3.4	34	6.1	37.	39	92	<.1	<.2	72.	12.	0.70
10	W- 14093	69	2.8	16	3.5	47.	40	W- 14093	<.1	<.2	31.	16.	3.6
11	94	68	1.5	11	4.8	31.	41	94	<.1	<.2	29.	12.	0.82
12	95	110	3.5	8	1.8	71.	42	95	<.1	<.2	32.	13.	1.2
13	96	62	9.8	29	5.	87.	43	96	<.1	<.2	34.	20.	1.1
14	108	24	12.	180	38.	98.	44	108	<.1	<.2	210.	15.	1.0
15	109	290	24.	75	18.	35.	45	109	0.4	.6	200.	53.	1.4
16	121	240	26.	200	35.	65.	46	121	0.2	.9	2400.	160	1.0
17	22	140	7.2	540	11.	14.	47	22	0.1	.3	1600.	16.	0.48
18	23	91	4.9	330	100.	24.	48	23	0.1	<.2	2200.	220	0.40
19	24	110	6.3	66	47.	49.	49	24	0.1	.5	1400.	19.	0.88
20	W- 25	59	4.0	66	30.	34.	50	W- 14025	<.1	<.2	100.	32.	0.66
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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE _____
 ANALYST JB + MS
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9331 JOB NO. _____
 PROJECT 1114
 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-14049	390	1.4	41	5.2	24.	31	W- 14049	0.1	2	1800.	170.	2.1
02	50	110	6.3	66	28.	71.	32	50	0.1	.5	1100.	17.	1.2
03	14070	27	4.2	38	18.	70.	33	70	<.1	<.2	28.	17.	0.86
04	71	67	4.2	26	23.	61.	34	71	<.1	<.2	39.	23.	1.1
05	72	63	4.7	28	8.9	54.	35	72	<.1	<.2	24.	16.	0.84
06	73	160	1.5	9	3.0	22.	36	73	<.1	<.2	81.	69.	1.5
07	74	150	6.1	40	13.	40.	37	74	<.1	.4	200.	26.	2.2
08	75	91	9.3	20	3.3	93.	38	75	<.1	<.2	58.	12.	0.84
09	14092	48	3.4	34	6.1	37.	39	92	<.1	<.2	72.	12.	0.70
10	W- 14093	69	2.8	16	3.5	47.	40	W- 14093	<.1	<.2	31.	16.	3.6
11	94	68	1.5	11	4.8	31.	41	94	<.1	<.2	29.	12.	0.82
12	95	110	3.5	8	1.8	71.	42	95	<.1	<.2	33.	13.	1.2
13	96	62	9.8	29	5.	87.	43	96	<.1	<.2	34.	20.	1.1
14	108	24	12.	180	38.	98.	44	108	<.1	<.2	210.	15.	1.0
15	109	290	24.	75	18.	35.	45	109	0.4	.6	200.	53.	1.4
16	121	240	26.	200	35.	65.	46	121	0.2	.9	2400.	160	1.0
17	22	140	7.2	540	11.	14.	47	22	0.1	.3	1600.	16.	0.48
18	23	91	4.9	330	100.	24.	48	23	0.1	<.2	2200.	220	0.40
19	24	110	6.3	66	47.	49.	49	24	0.1	.5	1400.	19.	0.88
20	W- 25	59	4.0	66	30.	34.	50	W- 14025	<.1	<.2	100.	32.	0.66
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

NOTE: Mail Original to
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 2. Geothermal Office At _____
 3. E. J. Rowe At Denver Lab
 4. S. C. Hoatson Denver Lab

ANALYTICAL REPORT

DATE 9/5/80

REQ. NO. 8250 JOB NO. _____

ANALYST PK, SH

PROJECT 1114

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-14110	200.	4.7	9.	2.8	42.	31 W-14110	0.1	0.5	120	59.	2.7
02 11	460.	6.5	3.	0.6	44.	32 11	0.2	0.6	300	250.	10.
03 12	14.	1.0	120.	15.	28.	33 12	<.1	<.2	62.	6.4	0.7
04 13	230.	1.2	56.	22.	50.	34 13	0.1	0.3	400.	33.	2.6
05 14	58.	2.6	30.	16.	71.	35 14	<.1	0.2	63.	26.	2.5
06 W14126	350.	32.	25.	28.	68.	36 W14126	0.2	1.0	510.	160.	1.7
07 27	260.	1.0	26.	0.3	36.	37 27	<.1	1.1	440.	100.	4.3
08 28	86.	2.2	8.	1.7	39.	38 28	<.1	0.2	11.	6.6	3.1
09 29	87.	1.6	12.	1.8	32.	39 29	<.1	0.4	14.	8.4	1.5
10 W-14130	89.	3.9	14.	2.3	44.	40 W-14130	<.1	0.3	33.	17.	0.4
11 31	28.	3.5	25.	3.9	30.	41 31	<.1	<.2	<10	8.6	0.5
12 32	14.	1.8	89.	24.	60.	42 32	<.1	<.2	54.	15.	0.4
13 33	18.	7.8	52.	14.	80.	43 33	<.1	<.2	10.	3.6	0.3
14 W14190	6.2	2.7	14.	6.0	40.	44 W14190	<.1	<.2	15.	2.6	0.2
15 91	6.4	3.4	16.	5.5	52.	45 91	<.1	<.2	12.	2.6	0.2
16 92	5.4	1.5	15.	6.0	44.	46 92	<.1	<.2	15.	2.6	0.1
17 93	6.5	3.6	17.	8.0	48.	47 93	<.1	<.2	25.	4.0	0.2
18 94	19.	0.8	46.	12.	39.	48 94	<.1	<.2	22.	4.0	0.3
19 95	4.0	2.8	8.	3.9	40.	49 95	<.1	<.2	21.	2.4	0.1
20 W-14196	50.	4.8	3.	0.8	34.	50 W-14196	<.1	<.2	<10	4.0	0.4
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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LAB Amax - Denver

ANALYTICAL REPORT

DATE 9/5/80

REQ. NO. 8250 JOB NO. _____

ANALYST P.K

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Alan E Shenker

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	w14110	8.2						31					
02	11	8.4						32					
03	12	7.5						33					
04	13	7.9						34					
05	14	8.0						35					
06	w14126	8.0						36					
07	27	8.2						37					
08	28	8.3						38					
09	29	8.5						39					
10	w14130	8.1						40					
11	31	8.0						41					
12	32	7.5						42					
13	33	7.5						43					
14	w14190	7.3						44					
15	91	7.2						45					
16	92	7.6						46					
17	93	6.5						47					
18	94	7.0						48					
19	95	6.8						49					
20	w14196	9.0						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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS:

Mo, Cu to be reported at a later date

NOTE: Mail Original to
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Denver, Colorado 80226

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 E & M DIVISION

ANALYTICAL REPORT

DATE 9/15/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8244 JOB NO. _____
 PROJECT 1114
 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-14138	4.6	13.	13	3.7	24.	31 W-14138	<.1	0.3	22.	9.6	0.2
02 39	20.	3.8	36.	17.	59.	32 39	<.1	<.2	<10	8.0	0.6
03 40	34.	1.9	150.	25.	32.	33 40	<.1	<.2	200.	8.8	2.8
04 41	180.	0.9	2.8	2.5	18.	34 41	0.3	<.2	54.	10.	0.4
05 42	15.	2.6	22.	9.6	56.	35 42	<.1	<.2	<10.	5.0	0.5
06 43	20.	0.7	30.	19.	59.	36 43	0.1	<.2	12.	4.4	3.1
07 44	8.1	0.9	54.	28.	14.	37 44	<.1	<.2	11.	6.0	0.6
08 45	9.4	1.2	58.	25.	21.	38 45	<.1	<.2	80.	6.4	2.0
09 46	37.	0.8	120.	24.	52.	39 46	<.1	<.2	69.	15.	0.5
10 W-14147	7.7	1.2	84.	35.	16.	40 W-14147	<.1	<.2	20.	6.8	1.1
11 48	30.	1.2	38.	15.	49.	41 48	<.1	<.2	<10	6.8	0.4
12 49	12.	1.6	64.	18.	32.	42 49	<.1	<.2	65.	5.8	0.4
13 W14160	380.	26.	64	16.	29.	43 W14160	0.5	0.3	510.	94.	5.2
14 W14173	53.	2.3	110.	16.	40.	44 W14173	<.1	0.2	71.	20.	0.5
15 74	18.	2.8	41.	9.3	32.	45 74	<.1	<.2	13.	7.4	0.6
16 W14202	110.	4.2	40.	6.2	76.	46 W14202	0.2	<.2	96.	19.	6.6
17 03	20.	2.0	52.	12.	38.	47 03	<.1	0.2	100.	15.	0.7
18 04	20.	2.0	54.	11.	30.	48 04	<.1	<.2	93.	12.	0.4
19 05	67.	0.9	2.6	40.1	66.	49 05	0.1	<.2	50.	7.0	1.2
20 W-14206	20.	2.5	56.	23.	21.	50 W-14206	<.1	<.2	47.	11.	0.4
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

NOTE: Mail Original to
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ANALYTICAL REPORT E & ME DIVISION

DATE 9/15/80

REQ. NO. 8244 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH		Mo ppb	Cu ppb		SAMPLE	pH		Mo ppb	Cu ppb	
01	W14138	6.6					31					
02	39	7.5					32					
03	40	7.3					33					
04	41	8.9					34					
05	42	8.2					35					
06	43	7.9					36					
07	44	7.7					37					
08	45	8.4					38					
09	46	7.4					39					
10	W14147	7.5					40					
11	48	7.5					41					
12	49	7.8					42					
13	W14160	7.5					43					
14	173	7.5					44					
15	74	7.5					45					
16	W14202	7.6					46					
17	03	7.3					47					
18	04	7.0					48					
19	05	9.6					49					
20	W14206	7.5					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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

Mo, Cu to be reported at a later date

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

Copies to: S.C. Hoatson @ Denver Lab
1. Alan E Shenker At Geothermal
2. Geothermal Office At _____
3. E. J. Rowe At Denver Lab

Sample #	Field	Denver	Temp °C	Name	Location		
	SiO ₂ ppm	SiO ₂ ppm			T.	R.	Sec
W14014	52	49	28 (solar)	Carbon Springs	1N	3W	7
W14018	59	54	18	Bear Spring	1S	4W	9
W14019	56		17	Seven Cabin Spring	8S	17E	7
W14060	55	48	27	Mulligan Gulch Well	7S	3W	35
W14039	50.5		27.5	Ojo Caliente	8S	7W	31
W14023	80	64	35	Adobe Ranch Windmill	7S	10W	33
W14081	51	64	20	Toolbox Spring	7S	6W	4
W14085	52	43	15	Turkey Spring	14S	8W	18
W14101	75	46	17	Hickland Spring	13S	9W	10
W14040	114	74 7.4	22	Gallina Spring	13S	7W	14
W14041	86	57	26 (solar)	Bulldozer Spring	12S	7W	25
W14088	52	41	20.5	Derry Warm Spring	17S	4W	29
W14090	100	61	35.5	Wilson Ranch Spring	18S	7W	11
W14104	230?	150	33	Cement Pool Springs	16S	5W	5
W14107	57 70	46 (107)	20	Kingston Springs	16S	8W	18
W14105	70 57.5	40 (105)	18	Mud Springs	16S	8W	5
W14043	66	40	23	Unnamed Well	16S	7W	1
W14044	50	33	?	Unnamed Well	16S	7W	2
W14045	86	55	22	Unnamed Well	16S	7W	10
W14046	145	100	28	Unnamed Spring, ^{Warm Spring} Canyon	16S	7W	4
W14047	56	34	20	Unnamed Well	15S	7W	29
W14091	86	56	20.5	McAsh Spring	18S	8W	35
W14050	67	71	25	Unnamed Windmill	20S	1W	11
W14070	60	70	23.5	Brick Well	20S	3W	15
W14075	85	93	24	W. Burris Well	22S	4W	19
W14095	83	71	27	Airport Well	19S	5W	26
W14096	90	87	25	—	20S	5W	24
W14109	58	35	24	Bishop Windmill	25S	3E	1

Harry

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 2/5/81

REQ. NO. 9169 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

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-14210	420.	9.5	16.	14.	44.	31 W-W14210	2.1	1.2	510.	170.	3.0
02 11	250.	3.2	14.	6.9	49.	32 11	2.1	1.0	200.	110.	2.0
03 12	220.	13.	7.1	6.2	56.	33 12	0.1	1.0	120.	57.	2.4
04 13	200.	5.4	12.	12.	16.	34 13	0.1	0.5	280.	46.	1.5
05 14	200.	5.4	12.	12.	16.	35 14	0.1	0.5	290.	45.	1.5
06 15	330.	26.	46.	15.	76.	36 15	0.3	1.2	190.	300.	1.2
07 16	180.	4.3	14.	5.0	28.	37 16	0.2	0.6	160.	64.	2.0
08 17	120.	16.	30.	4.4	30.	38 17	0.1	0.5	60.	24.	2.0
09 18	180.	13.	6.6	5.2	41.	39 18	2.1	0.3	43.	22.	1.1
10 W-14219	180.	17.	17.	4.7	44.	40 W-14219	0.1	0.3	50.	27.	1.6
11 20	250.	19.	19.	13.	19.	41 20	0.3	1.2	180.	37.	3.4
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
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS: Mo, Cu to be reported at a later date.

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

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 3. E. J. Rowe At Denver Lab
 4. S. C. Hoatson Denver Lab

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 8237 JOB NO. _____

ANALYST S. Hoatson

PROJECT 620

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Jim Gross

SAMPLE	Cu	Mo	SAMPLE	pH	CO ₃	HCO ₃
	PPB	PPB			PPM	PPM
01 <u>W14950</u>			31 <u>W14950</u>	<u>7.6</u>	<u>0</u>	<u>36</u>
02 <u>51</u>			32 <u>51</u>	<u>7.2</u>	<u>0</u>	<u>336</u>
03 <u>52</u>			33 <u>52</u>	<u>8.7</u>	<u>56</u>	<u>328</u>
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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Copies to: Jim Gross @ Geothermal
1. A. E. Shenker At Geothermal
2. Geothermal Office At _____
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4. S. C. Hoatson Denver Lab

ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 8245 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Karol Gillespie

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-14332	280.	30.	92.	22.	56.	31 W-14332	<.1	1.4	76.	290.	1.5
02 33	90.	5.6	22.	4.3	39.	32 33	<.1	0.5	49.	69.	3.8
03 34	390.	7.4	23.	0.8	42.	33 34	0.2	1.4	530.	220.	11.
04 35	200.	5.5	20.	0.1	20.	34 35	0.1	0.3	340.	58.	18.
05 36	34.	1.3	16.	1.6	26.	35 36	<.1	0.2	10.	10.	1.4
06 37	180.	3.8	28.	3.5	20.	36 37	<.1	0.3	340.	58.	13.
07 38	210.	5.2	8.6	<.1	76.	37 38	0.1	0.5	330.	57.	16.
08 39	68.	5.7	23.	7.2	42.	38 39	<.1	0.6	40.	53.	1.8
09 w14340	230.	21.	38.	25.	44.	39 w14340	0.4	3.6	250.	140.	1.8
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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ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 8245 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	<u>w14332</u>	<u>7.8</u>				31				
02	<u>33</u>	<u>8.0</u>				32				
03	<u>34</u>	<u>7.8</u>				33				
04	<u>35</u>	<u>8.4</u>				34				
05	<u>36</u>	<u>8.0</u>				35				
06	<u>37</u>	<u>7.8</u>				36				
07	<u>38</u>	<u>9.2</u>				37				
08	<u>39</u>	<u>7.9</u>				38				
09	<u>w14340</u>	<u>7.7</u>				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-

Mo, Cu - colorimetric

pH - electrometric

REMARKS:

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

NOTE: Mail Original to
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ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 8237 JOB NO. _____

ANALYST S. Hoatson

PROJECT 620

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY Jim Gross

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-14950	9.4	5.2	3.0	1.3	89.	31 W-14950	<1	<.2	<10.	3.6	0.1
02 51	18	2.8	31.	60.	46.	32 51	<1	<.2	36.	6.4	0.2
03 52	6.0	0.3	7.9	88.	66.	33 52	<1	0.2	<10.	7.0	<.10
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

NOTE: Mail Original to
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 Denver, Colorado 80226

Copies to: Jim Gross @ Geothermal
 1. A. E. Shenker At Geothermal
 2. Geothermal Office At
 3. E. J. Rowe At Denver Lab
 4. S. C. Hoatson Denver Lab

LAB Amax - Denver

ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 5096 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES Geothermal Water

REQUESTED BY H. D. Pilkington

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	W14975	8.2						31					
02	76	9.2						32					
03	77	9.5						33					
04	W14978	8.5						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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS: Mo, Cu To be reported at a later date

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

- Copies to: S.C. Hoatson @ Denver Lab
1. H. D. Pilkington At Geothermal
 2. Geothermal Office At _____
 3. E. J. Rowe At Denver Lab
 4. J. E. Deymanaz @ Geothermal

LAB Amax-Denver

ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 5096 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES Geothermal Water

REQUESTED BY H. D. Pilkington

	SAMPLE	Temp. °C	K			SAMPLE				
01	W14975	25°	2364			31				
02	76	↓	1609			32				
03	77	↓	619			33				
04	W14978	25°	474			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-
 Determination-
 Wheatstone Bridge

REMARKS:

Sample Weight-
 K = conductivity
 in umhos/cm

NOTE: Mail Original to
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 4. J. E. Deymonaz @ Geothermal

ANALYTICAL REPORT

DATE 9/25/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 5096 JOB NO. _____
 PROJECT 1030
 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-14975	470.	11.	14.	8.5	47.	31 W-14975	<1	5.4	780.	90.	1.0
02 76	390.	5.6	1.3	0.3	62.	32 76	<1	3.3	62.	20.	10.
03 77	140.	4.8	1.0	<.1	72.	33 77	<1	0.6	17.	6.2	4.2
04 W14978	87.	12.	4.3	0.8	80.	34 W14978	<1	0.5	22.	16.	3.3
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

NOTE: Mail Original to
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 Denver, Colorado 80226

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 4. S. C. Hoatson Denver Lab
 5. J. E. Deymonaz @ Geothermal
 DEN 121974

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 9/25/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8237 JOB NO. _____
 PROJECT 620
 REQUESTED BY Jim Gross

	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-14950	9.4	5.2	3.0	1.3	89.	31	W-14950	<1	<1.2	<10.	3.6	0.1
02	51	18	2.8	31.	60.	46.	32	51	<1	<1.2	36.	6.4	0.2
03	52	6.0	0.3	7.9	88.	66.	33	52	<1	0.2	<10.	7.0	<10
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

NOTE: Mail Original to
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 Denver, Colorado 80226

Copies to: Jim Gross @ Geothermal
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 2. Geothermal Office At
 3. E. J. Rowe At Denver Lab
 4. S. C. Hoatson Denver Lab

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 9/25/80

REQ. NO. 8237 JOB NO. _____

ANALYST S. Hoatson

PROJECT 620

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY Jim Gross

SAMPLE	Cu	Mo	SAMPLE	pH	CO ₃	HCO ₃
	PPB	PPB			PPM	PPM
01			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
pH - Electrometric

REMARKS: CO₃, HCO₃ - Electrometric Titration

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

NOTE: Mail Original to
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Denver, Colorado 80226

- Copies to: Jim Gross @ Geothermal
1. A. E. Shenker At Geothermal
 2. Geothermal Office At _____
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 4. S. C. Hoatson Denver Lab

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ANALYTICAL REPORT

DATE 6-3-80

REQ. NO. 9156 JOB NO. _____

ANALYST PK

PROJECT 860

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY A. E. Shenker

	SAMPLE	Cu	Mo			SAMPLE	pH	CO ₃	HCO ₃		
		PPB	PPB					PPM	PPM		
01	W13460	<1	8			31	8.9				
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

NOTE: Mail Original to
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4. S. C. Hoatson Denver Lab

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ANALYTICAL REPORT

DATE 6-3-80

REQ. NO. 9156 JOB NO. _____

ANALYST PK

PROJECT 860

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY A. E. Shenker

SAMPLE	Cu PPB	Mo PPB	SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM
01	W13460	<1	8	31	8.9	
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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4. S. C. Hoatson Denver Lab

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ANALYTICAL REPORT

DATE 6-3-80

REQ. NO. 5085 JOB NO. _____

ANALYST PK

PROJECT 860

TYPE SAMPLES GEOTHERMAL WATER

REQUESTED BY H. J. Olson

	SAMPLE	Cu	Mo			SAMPLE	pH	CO ₃	HCO ₃		
		PPB	PPB					PPM	PPM		
01	A 88757	40*	NR*			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

pH - Electrometric

REMARKS: CO₃, HCO₃ - Electrometric Titration

* = interference

NR = NO result

NOTE: Mail Original to
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Denver, Colorado 80226

Copies to: H. J. Olson At Geothermal
1. A. E. Shenker At Geothermal
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4. S. C. Hoatson Denver Lab

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ANALYTICAL REPORT

DATE 6-3-80

REQ. NO. 9160 JOB NO. _____

ANALYST PK

PROJECT 860

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY H. J. Olson

	SAMPLE	Cu	Mo			SAMPLE	pH	CO ₃	HCO ₃		
		PPB	PPB					PPM	PPM		
01	A 88758	< 1	< 8*			31	8.5				
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

* interference

NOTE: Mail Original to
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Copies to: H. J. Olson At Geothermal
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2. Geothermal Office At _____
3. E. J. Rowe At Denver Lab
4. S. C. Hoatson At Denver Lab

LAB AMAX - DENVER

ANALYTICAL REPORT

DATE 6-3-80

REQ. NO. 9160 JOB NO. _____

ANALYST PK

PROJECT 860

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY H. J. Olson

SAMPLE	Cu PPB	Mo PPB	SAMPLE	pH	CO ₃ PPM	HCO ₃ PPM
01 A 88758	< 1	< 8*	31	8.5		
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

* interference

NOTE: Mail Original to
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4. S. C. Hoatson Denver Lab



ANALYTICAL REPORT

DATE 10/28/80
 ANALYST S. Hoatson, J.J.
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8246 JOB NO. _____
 PROJECT 1114
 REQUESTED BY A. E. Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F J
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-14161	110.	5.4	29.	6.9	28.	31 W-14161	0.1	0.4	110.	46.	1.7
02 62	190.	12.	12.	5.5	41.	32 62	0.2	0.4	140.	40.	4.0
03 63	290.	19.	56.	14.	50.	33 63	0.3	0.3	420.	70.	5.2
04 W14300	140.	2.8	10.	1.6	29.	34 W14300	0.1	0.5	140.	56.	13.
05 01	100.	4.9	96.	30.	10.	35 01	1.1	1.2	300.	94.	0.4
06 02	63.	2.8	71.	13.	28.	36 02	1.1	0.3	50.	66.	3.5
07 03	390.	16.	58.	31.	24.	37 03	0.7	1.9	300.	490.	1.8
08 04	440.	5.0	320.	120.	55.	38 04	0.4	58.	1700.	140.	1.0
09 W14320	560.	18.	250.	18.	37.	39 W14320	0.5	1.5	390.	1000.	2.9
10 W-14321	280.	5.1	43.	2.8	19.	40 W-14321	0.2	0.8	130.	440	6.0
11 22	140.	3.6	15.	0.3	28.	41 22	0.1	0.7	120.	100.	7.0
12 23	160.	1.1	16.	1.1	23.	42 23	0.1	0.6	290.	51.	8.6
13 24	240.	4.2	28.	1.6	24.	43 24	0.1	0.7	300.	140.	7.0
14 25	140.	1.2	4.9	1.1	24.	44 25	0.1	0.6	130.	79.	7.6
15 26	160.	2.5	9.0	0.2	22.	45 26	0.1	0.6	150.	82.	9.0
16 27	170.	2.8	12.	0.5	21.	46 27	1.1	0.6	150.	89.	9.6
17 28	200.	2.6	10.	0.8	18.	47 28	1.1	0.7	190.	94.	10.
18 29	1200.	22.	540.	7.9	28.	48 29	1.2	1.8	440.	2400.	2.7
19 30	230	8.7	42.	3.7	26.	49 30	0.2	0.8	130.	360.	5.0
20 W-14331	44.	5.6	44.	15.	35.	50 W-14331	1.1	0.3	42.	78.	0.7
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

NOTE: Mail Original to
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 4. S. C. Hoatson Denver Lab

LAB Amax-Denver

RECEIVED
Jul 28 1980
WATER & METALS DIVISION

ANALYTICAL REPORT

DATE 10/28/80

REQ. NO. 8246 JOB NO. _____

ANALYST JJ

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14161	8.2			31				
02	62	8.1			32				
03	63	7.9			33				
04	W14300	8.2			34				
05	01	8.0			35				
06	02	7.9			36				
07	03	8.0			37				
08	04	7.4			38				
09	W14320	7.4			39				
10	21	8.0			40				
11	22	8.3			41				
12	23	9.0			42				
13	24	8.1			43				
14	25	8.8			44				
15	26	8.6			45				
16	27	8.2			46				
17	28	8.3			47				
18	29	7.5			48				
19	30	7.9			49				
20	W14331	8.0			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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS: Mo, Cu to be reported at a later date

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

Copies to: S.C. Hoatson @ Denver Lab
1. A.E. Shenker At Geothermal
2. Geothermal Office At
3. E. J. Rowe At Denver Lab

ANALYTICAL REPORT

DATE 2/5/81

REQ. NO. 9169 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

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-14210	420.	9.5	16.	14.	44.	31 W-W14210	4.1	1.2	510.	170.	3.0
02 11	250.	3.2	14.	6.9	49.	32 11	4.1	1.0	200.	110.	2.0
03 12	220.	13.	7.1	6.2	56.	33 12	0.1	1.0	120.	57.	2.4
04 13	200.	5.4	12.	12.	16.	34 13	0.1	0.5	280.	46.	1.5
05 14	200.	5.4	12.	12.	16.	35 14	0.1	0.5	290.	45.	1.5
06 15	330.	26.	46.	15.	76.	36 15	0.3	1.2	190.	300.	1.2
07 16	180.	4.3	14.	5.0	28.	37 16	0.2	0.6	160.	64.	2.0
08 17	120.	16.	30.	4.4	30.	38 17	0.1	0.5	60.	24.	2.0
09 18	180.	13.	6.6	5.2	41.	39 18	4.1	0.3	43.	22.	1.1
10 W-14219	180.	17.	17.	4.7	44.	40 W-14219	0.1	0.3	50.	27.	1.6
11 20	250.	19.	19.	13.	19.	41 20	0.3	1.2	180.	37.	3.4
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
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS:

Mo, Cu to be reported at a later date.

NOTE: Mail Original to
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3. E. J. Rowe At Denver Lab
4. S. C. Hoatson Denver Lab

ANALYTICAL REPORT

DATE 11/20/80

REQ. NO. 8247 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

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-14305	140.	2.6	11.	0.2	24.	31 W-14305	0.1	0.7	110.	80.	7.0
02 06	140.	4.2	3.5	1.6	13.	32 06	0.1	0.7	46.	84.	6.4
03 07	9500.	20.	300.	140.	710.	33 07	1.8	8.2	5000.	14000.	3.4
04 08	370.	15.	36.	33.	29.	34 08	0.1	2.4	290.	280	2.3
05 09	4000.	100.	2200.	25.	26.	35 09	4.6	3.3	420.	10000.	2.0
06 10	1100.	19.	400.	3.4	47.	36 10	1.3	4.4	1100.	1800.	3.3
07 11	89.	2.7	18.	10.	27.	37 11	4.1	0.3	76.	65.	2.6
08 12	760.	17.	5.4	3.3	43.	38 12	0.3	3.8	22.	970.	6.8
09 13	4000.	140.	600.	23.	190.	39 13	4.6	22.	4800.	3900.	6.0
10 W-14314	800.	10.	310.	100.	21.	40 W-14314	0.4	3.7	2000.	570.	1.2
11 W14350	260.	12.	31.	38.	51.	41 W14350	0.3	1.2	180.	280.	1.0
12 51	520.	13.	56.	75.	47.	42 51	0.2	3.8	480.	640.	3.2
13 52	950.	32.	25.	36.	47.	43 52	0.5	10.	1100.	770.	2.6
14 53	390.	11.	22.	1.1	39.	44 53	0.1	4.1	280.	230.	1.6
15 54	370.	22.	20.	1.2	40.	45 54	0.1	2.5	360.	280.	1.2
16 55	720.	16.	4.2	2.0	100.	46 55	0.3	7.8	470.	420.	3.0
17 56	130.	21.	23.	2.5	71.	47 56	0.3	2.5	130.	64.	1.9
18 57	95.	15.	44.	3.5	50.	48 57	0.1	1.0	170.	47.	1.6
19 58	720.	8.0	0.5	4.1	110.	49 58	4.1	150.	200.	99.	10.
20 W-14359	140.	3.1	4.8	5.8	200.	50 W-14359	0.2	0.6	63.	35.	1.2
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

NOTE: Mail Original to
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 4. S. C. Hoatson Denver Lab

LAB Amax - Denver

ANALYTICAL REPORT

DATE 11/20/80
 ANALYST S. Hoatson
 TYPE SAMPLES Geothermal Water

REQ. NO. 8247 JOB NO. _____
 PROJECT 1114
 REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14305	8.1				31			
02	06	8.3				32			
03	07	8.0				33			
04	08	7.7				34			
05	09	7.2				35			
06	10	6.9				36			
07	11	7.8				37			
08	12	7.6				38			
09	13	7.5				39			
10	W14314	7.6				40			
11	W14350	7.9				41			
12	51	7.6				42			
13	52	7.7				43			
14	53	7.8				44			
15	54	8.0				45			
16	55	8.3				46			
17	56	7.8				47			
18	57	7.9				48			
19	58	9.9				49			
20	W14359	7.6				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- Mo, Cu - colorimetric
 pH - electrometric

REMARKS: Mo, Cu, To be reported at a later date.

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ANALYTICAL REPORT

DATE 10/28/80
 ANALYST S. Hoatson, J.J.
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8246 JOB NO. _____
 PROJECT 1114
 REQUESTED BY A. E. Shenker

SAMPLE	Na	K	Ca	Mg	SiO ₂	SAMPLE	Li	B	SO ₄	Cl	F T
	PPM	PPM	PPM	PPM	PPM		PPM	PPM	PPM	PPM	PPM
01 W-14161	110.	5.4	29.	6.9	28.	31 W-14161	0.1	0.4	110.	46.	1.7
02 62	190.	12.	12.	5.5	41.	32 62	0.2	0.4	140.	40.	4.0
03 63	290.	19.	56.	14.	50.	33 63	0.3	0.3	420.	70.	5.2
04 W14300	140.	2.8	10.	1.6	29.	34 W14300	0.1	0.5	140.	56.	13.
05 01	100.	4.9	96.	30.	10.	35 01	<.1	<.2	300.	94.	0.4
06 02	63.	2.8	71.	13.	28.	36 02	<.1	0.3	50.	66.	3.5
07 03	390.	16.	58.	31.	24.	37 03	0.7	1.9	300.	490.	1.8
08 04	440.	5.0	320.	120.	55.	38 04	0.4	58.	1700.	140.	1.0
09 W14320	560.	18.	250.	18.	37.	39 W14320	0.5	1.5	390.	1000.	2.9
10 W-14321	280.	5.1	43.	2.8	19.	40 W-14321	0.2	0.8	130.	440.	6.0
11 22	140.	3.6	15.	0.3	28.	41 22	0.1	0.7	120.	100.	7.0
12 23	160.	1.1	16.	<.1	23.	42 23	0.1	0.6	290.	51.	8.6
13 24	240.	4.2	28.	1.6	24.	43 24	0.1	0.7	300.	140.	7.0
14 25	140.	1.2	4.9	<.1	24.	44 25	0.1	0.6	130.	79.	7.6
15 26	160.	2.5	9.0	0.2	22.	45 26	0.1	0.6	150.	82.	9.0
16 27	170.	2.8	12.	0.5	21.	46 27	<.1	0.6	150.	89.	9.6
17 28	200.	2.6	10.	0.8	18.	47 28	<.1	0.7	190.	94.	10.
18 29	1200.	22.	540.	7.9	28.	48 29	1.2	1.8	440.	2400.	2.7
19 30	230	8.7	42.	3.7	26.	49 30	0.2	0.8	130.	360.	5.0
20 W-14331	44.	5.6	44.	15.	35.	50 W-14331	<.1	0.3	42.	78.	0.7
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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LAB Amex-Denver

ANALYTICAL REPORT

RECEIVED
OCT 28 1980
SITE DIVISION

DATE 10/28/80

REQ. NO. 8246 JOB NO. _____

ANALYST JJ

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14161	8.2			31				
02	62	8.1			32				
03	63	7.9			33				
04	W14300	8.2			34				
05	01	8.0			35				
06	02	7.9			36				
07	03	8.0			37				
08	04	7.4			38				
09	W14320	7.4			39				
10	21	8.0			40				
11	22	8.3			41				
12	23	9.0			42				
13	24	8.1			43				
14	25	8.8			44				
15	26	8.6			45				
16	27	8.2			46				
17	28	8.3			47				
18	29	7.5			48				
19	30	7.9			49				
20	W14331	8.0			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- Mo, Cu - colorimetric
pH - electrometric

REMARKS: Mo, Cu to be reported at a later date

NOTE: Mail Original to
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3. E. J. Rowe At Denver Lab

ANALYTICAL REPORT

DATE 9/25/80
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 8245 JOB NO. _____
 PROJECT 1114
 REQUESTED BY Karol Gillespie

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-14332	280.	30.	92.	22.	56.	31 W-14332	4.1	1.4	76.	290.	1.5
02 33	90.	5.6	22.	4.3	39.	32 33	4.1	0.5	49.	69.	3.8
03 34	390.	7.4	23.	0.8	42.	33 34	0.2	1.4	530.	220.	11.
04 35	200.	5.5	20.	0.1	20.	34 35	0.1	0.3	340.	58.	18.
05 36	34.	1.3	16.	1.6	26.	35 36	4.1	0.2	10.	10.	1.4
06 37	180.	3.8	28.	3.5	20.	36 37	4.1	0.3	340.	58.	13.
07 38	210.	5.2	8.6	4.1	76.	37 38	0.1	0.5	330.	57.	16.
08 39	68.	5.7	23.	7.2	42.	38 39	4.1	0.6	40.	53.	1.8
09 W14340	230.	21.	38.	25.	44.	39 W14340	0.4	3.6	250.	140.	1.8
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 9/25/80

REQ. NO. 8245 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	w14332	7.8				31				
02	33	8.0				32				
03	34	7.8				33				
04	35	8.4				34				
05	36	8.0				35				
06	37	7.8				36				
07	38	9.2				37				
08	39	7.9				38				
09	w14340	7.7				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-

Mo, Cu - colorimetric,
pH - electrometric

REMARKS:

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

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 8242 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14040	8.1	2	4	31				
02	041	7.8	2	2	32				
03	042	7.8	2	30	33				
04	062	7.3	3	2	34				
05	063	7.5	7	3	35				
06	064	7.9	8	3	36				
07	065	7.5	2	3	37				
08	066	7.4	2	3	38				
09	067	8.5	15	4	39				
10	W14085	7.7	2	<2	40				
11	086	8.0	<2	3	41				
12	087	8.4	7	3	42				
13	088	7.7	20	<2	43				
14	089	7.8	2	3	44				
15	090	8.0	8	3	45				
16	W14103	7.7	<2	375	46				
17	104	7.8	<2*	4	47				
18	105	7.5	3	3	48				
19	106	7.1	3	2	49				
20	107	7.5	3	<2	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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* interference

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ANALYTICAL REPORT

DATE 2-20-81

REQ. NO. 8250 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Shenker

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14110	8.2	4	<2		31			
02	14111	8.4	30	<2		32			
03	14112	7.5	<2	<2		33			
04	14113	7.9	6	20		34			
05	14114	8.0	<2	8		35			
06	14126	8.0	8	8		36			
07	14127	8.2	10	<2		37			
08	14128	8.3	6	2		38			
09	14129	8.5	2	20		39			
10	14130	8.1	2	2		40			
11	W14131	8.0	<2	2		41			
12	14132	7.5	<2	20		42			
13	14133	7.5	<2	<2		43			
14	14190	7.3	<2	<2		44			
15	14191	7.2	<2	<2		45			
16	14192	7.6	2*	<2		46			
17	14193	6.5	<2	2		47			
18	14194	7.0	<2	<2		48			
19	14195	6.8	<2	<2		49			
20	14196	9.0	<2	2		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

*interference

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 9331 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14049	8.2	6	2	31				
02	050	7.8	20	3	32				
03	070	7.8	<2	3	33				
04	071	7.9	<2	2	34				
05	072	7.7	<2	<2	35				
06	073	8.2	<2	4	36				
07	074	7.8	5	2	37				
08	075	8.0	3	4	38				
09	W14092	8.2	<2	4	39				
10	093	8.1	3	3	40				
11	094	8.2	3	6	41				
12	095	8.4	<2	3	42				
13	096	7.8	2	<2	43				
14	W14108	7.4	20	2	44				
15	109	7.7	10	2	45				
16	W14121	7.7	5	2	46				
17	122	7.7	2	2	47				
18	123	7.5	2	3	48				
19	124	7.9	15	6	49				
20	125	7.7	2	4	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-

Mo, Cu - colorimetric

pH - electrometric

REMARKS:

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 9331 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14049		6	2	31				
02	050		20	3	32				
03	070		<2	3	33				
04	071		<2	2	34				
05	072		<2	<2	35				
06	073		<2	4	36				
07	074		5	2	37				
08	075		3	4	38				
09	W14092		<2	4	39				
10	093		3	3	40				
11	094		3	6	41				
12	095		<2	3	42				
13	096		2	<2	43				
14	W14108		20	2	44				
15	109		10	2	45				
16	W14121		5	2	46				
17	122		2	2	47				
18	123		2	3	48				
19	124		15	6	49				
20	125		2	4	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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

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ANALYTICAL REPORT

DATE _____

REQ. NO. 8237 JOB NO. _____

ANALYST M.S

PROJECT 620

TYPE SAMPLES Geothermal Water

REQUESTED BY JIM GROSS

	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH	Mo ppb	Cu ppb	
01	W14950	7.6	2	<2		31					
02	51	7.2	3	<2		32					
03	52	8.7	<2	<2		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

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ANALYTICAL REPORT

DATE 3/12/81 REQ. NO. 8246 JOB NO. _____
 ANALYST M.S PROJECT 1114
 TYPE SAMPLES Geothermal Water REQUESTED BY KAROL GILLESPIE

	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH	Mo ppb	Cu ppb	
01	W14161	8.2	4	<2			31				
02	62	8.1	15	<2			32				
03	63	7.9	20	30			33				
04	W14300	8.2	30	<2			34				
05	01	8.0	5	<2			35				
06	02	7.9	7	<2			36				
07	03	8.0	15	<2			37				
08	04	7.4	175	<2			38				
09	W14320	7.4	15	30			39				
10	21	8.0	18	4			40				
11	22	8.3	10	<2			41				
12	23	9.0	<15*	<2			42				
13	24	8.1	15	<2			43				
14	25	8.8	<15*	<2			44				
15	26	8.6	25	30			45				
16	27	8.2	<15*	3			46				
17	28	8.3	<20*	40			47				
18	29	7.5	15	<2			48				
19	30	7.9	25	8			49				
20	31	8.0	4	<2			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- Mo, Cu - colorimetric
 pH - electrometric

REMARKS:

* INTERFERENCE

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ANALYTICAL REPORT

DATE 3/12/81

REQ. NO. 8245 JOB NO. _____

ANALYST M.S

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY KAROL GILLESPIE

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	W14332	7.8	<4*	<2*		31				
02	33	8.0	7	3		32				
03	34	7.8	<20*	<2		33				
04	35	8.4	4	<2		34				
05	36	8.0	6	<2		35				
06	37	7.8	18	<2		36				
07	38	9.2	<10*	<2		37				
08	39	7.9	6	5		38				
09	40	7.7	6	<2		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* INTERFERENCE

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PK

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 8242 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Karol Gillespie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W14040	8.1	2	4	31				
02	041	7.8	2	2	32				
03	042	7.8	2	30	33				
04	062	7.3	3	2	34				
05	063	7.5	7	3	35				
06	064	7.9	8	3	36				
07	065	7.5	2	3	37				
08	066	7.4	2	3	38				
09	067	8.5	15	4	39				
10	W14085	7.7	2	<2	40				
11	086	8.0	<2	3	41				
12	087	8.4	7	3	42				
13	088	7.7	20	<2	43				
14	089	7.8	2	3	44				
15	090	8.0	8	3	45				
16	W14103	7.7	<2	375	46				
17	104	7.8	<2*	4	47				
18	105	7.5	3	3	48				
19	106	7.1	3	2	49				
20	107	7.5	3	<2	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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* interference

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 8241 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Alan Shenker

	SAMPLE	pH		Mo ppb	Cu ppb			SAMPLE	pH		Mo ppb	Cu ppb	
01	W14019			<2	2			31					
02	020			4	<2			32					
03	021			2	4			33					
04	022			8	20			34					
05	023			2	7			35					
06	024			2	<2			36					
07	025			5	<2			37					
08	W14035			2	<2			38					
09	036			2	<2			39					
10	037			4*	<2			40					
11	038			2	<2			41					
12	039			2	<2			42					
13	W14100			2	<2			43					
14	101			2	<2			44					
15	102			6	<2			45					
16	W14080			2	<2			46					
17	081			2	<2			47					
18	082			2	<2			48					
19	083			3	<2			49					
20	084			3	<2			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-

Mo, Cu - colorimetric

pH - electrometric

REMARKS:

* interference

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ANALYTICAL REPORT

DATE 2-12-81

REQ. NO. 8240 JOB NO. _____

ANALYST PK

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Gillespie

	SAMPLE	pH		Mo ppb	Cu ppb		SAMPLE	pH		Mo ppb	Cu ppb	
01	W14013			<2	<2		31					
02	14			<2	<2		32					
03	15			<2	<2		33					
04	16			<2	3		34					
05	17			<2	<2		35					
06	18			<2	10		36					
07	W14030			<2	<2		37					
08	31			2	2		38					
09	32			<2	<2		39					
10	33			<2	100		40					
11	34			<2*	<2*		41					
12	W14057			<2	<2		42					
13	58			4	<2		43					
14	59			<2	<2		44					
15	60			<2	2		45					
16	61			<2	<2		46					
17	W14076			<2	<2		47					
18	77			2	<2		48					
19	78			<2	3		49					
20	79			2	<2		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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* - interference

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ANALYTICAL REPORT

DATE 2-13-81

REQ. NO. 8243 JOB NO. _____

ANALYST PK

PROJECT 114

TYPE SAMPLES Geothermal Water

REQUESTED BY Alan Shenker

	SAMPLE	pH		Mo ppb	Cu ppb		SAMPLE	pH		Mo ppb	Cu ppb	
01	W14043			<2	20		31					
02	44			<2	4		32					
03	45			<4*	60		33					
04	46			15	<2*		34					
05	47			<2	4		35					
06	48			2	4		36					
07	W14068			10	2		37					
08	69			15	<2		38					
09	91			<2	<2		39					
10	97			<2	<2		40					
11	98			<2	<2		41					
12	99			2	<2		42					
13	W14150			2	<2		43					
14	51			<2	2		44					
15	52			<2	2		45					
16	53			<2	<2		46					
17	54			6	<2		47					
18	55			6	2		48					
19	56			6	<2		49					
20	57			7	<2		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:
* interference

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ANALYTICAL REPORT

DATE 3/9/81

REQ. NO. 8244 JOB NO. _____

ANALYST M.S

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY KAROL GILLESPIE

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	W14138	6.6	≤2*	4	31					
02	39	7.5	<2	<2	32					
03	40	7.3	8	<2	33					
04	41	8.9	<2	20	34					
05	42	8.2	<2	<2	35					
06	43	7.9	<2	<2	36					
07	44	7.7	2	<2	37					
08	45	8.4	<2	<2	38					
09	46	7.4	<2	<2	39					
10	47	7.5	2	<2	40					
11	W14148	7.5	<2	<2	41					
12	49	7.8	2	<2	42					
13	W14160	7.5	15	3	43					
14	W14173	7.5	<2	18	44					
15	74	7.5	<2	<2	45					
16	W14202	7.6	≤2*	<2	46					
17	03	7.3	8	<2	47					
18	04	7.0	5	2	48					
19	05	9.6	8	<2	49					
20	06	7.5	<2	<2	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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* INTERFERENCE

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ANALYTICAL REPORT

DATE 3/10/81

REQ. NO. 9326 JOB NO. _____

ANALYST M.S

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY KAROL GILLESPIE

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	W14115	8.0	<2	<2	31					
02	16	8.1	<2	<2	32					
03	17	7.9	<2	40	33					
04	18	7.6	10	<2	34					
05	19	7.7	<2	<2	35					
06	20	7.7	<2	<2	36					
07	W14134	7.8	3	<2	37					
08	35	7.8	4	<2	38					
09	36	8.0	<2	<2	39					
10	37	8.1	<2	<2	40					
11	W14158	8.0	<2	20	41					
12	59	7.4	<2	<2	42					
13	W14170	7.3	<2*	<2	43					
14	71	7.6	<2	<2	44					
15	72	7.7	2	<2	45					
16	W14197	7.9	2	<2	46					
17	98	7.3	<2	<2	47					
18	99	8.2	<2	<2	48					
19	200	10.1	<2	<2	49					
20	01	7.8	<2	<2	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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

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ANALYTICAL REPORT

DATE 3/12/81

REQ. NO. 5096 JOB NO. _____

ANALYST M.S

PROJECT 1030

TYPE SAMPLES Geothermal Water

REQUESTED BY PILKINGTON

	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH	Mo ppb	Cu ppb	
01	W14975	8.2	15	6			31				
02	76	9.2	30	3			32				
03	77	9.5	<8*	20			33				
04	78	8.5	5	<2			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-

Mo, Cu - colorimetric
pH - electrometric

REMARKS:

* INTERFERENCE

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ANALYTICAL REPORT

DATE 3/12/81

REQ. NO. 5091 JOB NO. _____

ANALYST M.S

PROJECT 860

TYPE SAMPLES Geothermal Water

REQUESTED BY H.D PILKINGTON

	SAMPLE	pH	Mo ppb	Cu ppb			SAMPLE	pH	Mo ppb	Cu ppb	
01	W14982	7.2	<2	<3*		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:
* INTERFERENCE

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LAB AMAX EXPLORATION

ANALYTICAL REPORT

DATE 5/19/81

REQ. NO. O'Brien #5 JOB NO. _____

ANALYST W.K.

PROJECT 1121

TYPE SAMPLES Geothermal Water

REQUESTED BY Dellechiaie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb
01	W1100		42	42	31				
02	01		42	42	32				
03	02		42	17	33				
04	03		42	42	34				
05	04		42	42	35				
06	05		42	3	36				
07	06		42	42	37				
08	07		42	42	38				
09	08		42	42	39				
10	09		42	5	40				
11	W1110		3	42	41				
12	11		42	42	42				
13	12		42	42	43				
14	13		3	30	44				
15	14		3	42	45				
16	15		3	15	46				
17	16		3	3	47				
18	17		42	17	48				
19	18		42	15	49				
20	19		30	42	50				
21	W1120		42	5	51				
22	21		42	42	52				
23	23		3	42	53				
24	24		9	42	54				
25	25		7	15	55				
26					56				
27					57				
28					58				
29					59				
30					60				

METHODS: ,Digestion- Sample Weight-
 Determination- Mo, Cu - colorimetric
 pH - electrometric

REMARKS:
 Sample number #W1122, missing.

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LAB AMAX EXPLORATIONS

ANALYTICAL REPORT

DATE 5/20/81

REQ. NO. O'Brien #7 JOB NO. _____

ANALYST WK

PROJECT # 1121

TYPE SAMPLES Geothermal Water

REQUESTED BY Dellechiaie

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	W1150		22	22		31				
02	51		22	22		32				
03	52		22	7		33				
04	53		3	22		34				
05	54		22	22		35				
06	55		22	22		36				
07	56		22	22		37				
08	57		22	5		38				
09	58		22	3		39				
10	59		3	30		40				
11	W1160		22	9		41				
12	61		22	22		42				
13	62		22	22		43				
14	63		22	7		44				
15	64		3	22		45				
16	65		3	22		46				
17	66		3	22		47				
18	67		22	22		48				
19	68		5	22		49				
20	69		22	22		50				
21	W1170		5	75		51				
22	71		22	22		52				
23	72		9	22		53				
24	73		7	3		54				
25	74		5	22		55				
26						56				
27						57				
28						58				
29						59				
30						60				

METHODS: ,Digestion- Sample Weight-

Determination- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

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ANALYTICAL REPORT

DATE 2/5/81

REQ. NO. 9169 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1114

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-14210	420.	9.5	16.	14.	44.	31 W-14210	2.1	1.2	510.	170.	3.0
02 11	250.	3.2	14.	6.9	49.	32 11	2.1	1.0	200.	110.	2.0
03 12	220.	13.	7.1	6.2	56.	33 12	0.1	1.0	120.	57.	2.4
04 13	200.	5.4	12.	12.	16.	34 13	0.1	0.5	280.	46.	1.3
05 14	200.	5.4	12.	12.	16.	35 14	0.1	0.5	290.	45.	1.3
06 15	330.	26.	46.	15.	76.	36 15	0.3	1.2	190.	300.	1.2
07 16	180.	4.3	14.	5.0	28.	37 16	0.2	0.6	160.	64.	2.0
08 17	120.	16.	30.	4.4	30.	38 17	0.1	0.5	60.	24.	2.0
09 18	180.	13.	6.6	5.2	41.	39 18	2.1	0.3	43.	22.	1.1
10 W-14219	180.	17.	17.	4.7	44.	40 W-14219	0.1	0.3	50.	27.	1.6
11 20	250.	19.	19.	13.	19.	41 20	0.3	1.2	180.	37.	3.4
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
 Cl: MERCURIMETRIC TITRATION
 SO₄: TURBIDIMETRIC

REMARKS: Mo, Cu to be reported at a later date.

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ANALYTICAL REPORT

DATE 5/7/81

REQ. NO. 9169 JOB NO. _____

ANALYST S. Hoatson / MS.

PROJECT 1114

TYPE SAMPLES Geothermal Water

REQUESTED BY Bill Huntsman

	SAMPLE	pH	Mo ppb	Cu ppb		SAMPLE	pH	Mo ppb	Cu ppb	
01	W14210	9.1	15	<2		31				
02	11	9.0	3	3		32				
03	12	9.1	15	3		33				
04	13	8.4	5	<2		34				
05	14	8.8	4	<2		35				
06	15	7.5	7	<2		36				
07	16	8.9	15	20		37				
08	17	8.9	8	2		38				
09	18	8.2	8	<2		39				
10	19	9.2	15	<2		40				
11	20	7.8	25	<2		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- Mo, Cu - colorimetric
pH - electrometric

REMARKS:

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

Copies to: S.C. Hoatson @ Denver Lab
1. Alan Shenker At Geothermal
2. Geothermal Office At
3. E. J. Rowe At Denver Lab

Texas

Name	Mag Temp	TEMP ALK	Mg	K	Ca	Na Temp SiO ₂
WT1 Indian H.S.	84/110	195.7	35	189.	110.6	10 NA 2742
WT3 Gulf Oil W	201/207	209	1.4	67.6	43	518
WT6 Hot Spring Resort	103/114	173	5.2	16	36.9	162
TR211 Windmill ^{3.75}	53/60	213.4	100	75	308	346
TR31 Well	36/44	159.3	39	35	90	631
TR51 Windmill	58/68	159.3	6.3	10.2	21	143
TR5-3 Wm	70/76	84.3	3.9	5.5	13.8	77.3
TR5-9	5: 128 117/127	162.8	3.3	14.8	30.7	204.6
	5: 120	138	28	18	5	1011
		140				
T13	137/137 cold water	137	28	18	5	1011

W 87 - Luna County - 1380 mg collect
 T 29s R10W sec 1
 SW 1/4 SE 1/4 well

GGI - 1720 mg - springs
 T 10N R 9W sec 7
 SW 1/4 SW 1/4 springs

CALIF.

	Ca	Na	K	S:	TDS
14300	10	140	2.8	29	393
14301	96	100	4.9	10	636
302	76 71	63	2.8	28	297
303	58	390	16	24	1313
304	320	440	5	55	2400
305	11	140	2.6	24	375
306	3.5	140	3 4.2	13	300
307	300	9500	20	710	26683
308	36	370	15	29	1057.
309	2200	4000	100	26	16781
310	400	1100	15 19	47	4478
311	18	89	2.7	27	290
312	5.4	760	17	43	1831
313	600	4000	140	190	13685
314	310	800	10	21	3816
315					
316					
317					
318					
319					
320	250	560	18	37	2278
321	43	280	5.1	19	927
322	15	140	3.6	28	414
323	16	160	1.1	23	550
324	28	240	4.2	24	745
325	4.9	140	1.2	24	387
326	9.0	160	2.5	22	435
327	12	170	2.8	21	455
328	10	200	2.6	18	526.
329	540	1200	22	28	4644
330	42	230	8.7	26	806
331	44	44	5.6	35	264
332					
333					

Ca

Na

K

S;

TDS .

334

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349

350

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260

12

51

854

351

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520

13

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1838

352

25

950

32

47

2973

353

22

390

11

39

979

354

20

370

22

40

1097

✓ 355

4.2

720

16

100

1743

356

23

130

21

71

446

357

44

95

15

50

427

358

.5

720

8

110

1297

359

4.8

140

3.1

200

453.7

360

361

362

363

364

365

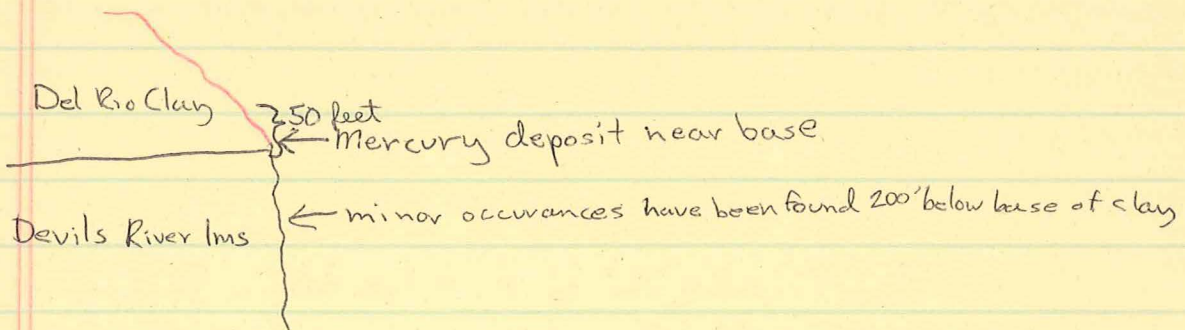
366

Calif.

Sample #	T _i	T SiO ₂	T Alk	Li	B	F ⁻	Cl ⁻	Mg	
14300	37	78	75.7					1.6	
14301	30	39.3	44.7					30	
14302	20	78 45.1	31.6					13	
14303	29	70.4	141.2					31	
14304	29.5	76.7	37.2					120	
14305	35	70.4	71.3					.2	
14306	31	48	133					1.6	Creek muddy Sample Chuckwalla Valley 6s18E NE32
14307	30.5	710PPMSiO ₂ 286.5	61.7					140	
14308	30.5	78	143.5					33	
14309	29	73.6	127.1					25	
14310	32.5	98.9	80.4					3.4	
14311	37	75.1	58					10	
14312	ambient	94.9	141.8					3.3	Razor Ranch TEST
14313	28	176.5	151.9					23	
14314	29	65.3	62.3					100	
14320	32	88.3	81.5					18	
14321	31	61.5	71.2					2.8	
14322	34.5	76.6	75.1					.3	
14323	38	36.9	40.9					.1	
14324	29.5	38.6	37					1.6	
14325	—	70.4	64.1					.1	
14326	35	67.1	75.7					.2	
14327	27	65.3	73.9					.5	
14328	30.5	59.5	77.1					.8	
14329	27	76.6	79.6					7.9	
14330	30	73.6	87					3.7	
14331	28.5	54.9	55.1					15	
14332	26.5	107.2	179.4						

Calif

Sample #	T ₁	T S.O ₂	TALK	Li	B	F ⁻	Cl ⁻	mg
14332	26.5	107.2	179.4					2.2
333	34	90.6	76.3					4.3
334	63	93.8	115.1					.8
335	53	63.4	86.7					.1
336	31	42	32.1					1.6
337	27	63.4	66.4					3.5
338	43	122.4	124.2	Unnamed well San Bern 1N 8E 11 3138 Calif				.1
339	32	63.4	73.0					7.2
340	34	95.9	175.3					2.5
350	26	102.7	107.5					3.8
351	27	98.9	124.2					7.5
352	28	98.9	152.4					3.6
353	25	90.6	131.8					1.1
354	26	91.7	166.8					1.2
355	43	137.2	142.6	Tecopa Hot Spring 21N 7E 33 3441				2
356	27.5	118.9	201.3					2.5
357	25.5	101.8	94.7					3.5
358	31	142.6	127.7	Spring - 21N 7E 30 4422				.1
359	23	158.8	95.7					5.8



Youngest igneous activity is Miocene

14002-14206

14300-14359

14002

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 58.000
CONC. OF 'K' = 7.900

CONC. OF 'NA' = 2300.000
CONC. OF 'SI02' = 16.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 7114.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.554E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.133E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 55.2

QTZ TEMP. (ADIABATIC) = 61.6

AM. SILICA TEMP. = -52.7

CHALCEDONT TEMP. = 22.9

CRISTOBALITE TEMP. = 6.5

LOG(NA/K) TEMP. = -27.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 70.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 103.5

14003

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 46.000
CONC. OF 'K' = 4.300

CONC. OF 'NA' = 410.000
CONC. OF 'SI02' = 17.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1189.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.303E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.581E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 57.4

QTZ TEMP. (ADIABATIC) = 63.6

AM. SILICA TEMP. = -50.9

CHALCEDONT TEMP. = 25.1

CRISTOBALITE TEMP. = 8.6

LOG(NA/K) TEMP. = 16.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 89.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 68.5

14004

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 75.000
CONC. OF ' K ' = 0.600

CONC. OF ' NA ' = 19.000
CONC. OF ' SI02 ' = 14.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.304\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.023\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 50.5

QTZ TEMP. (ADIABATIC) = 57.4

AM. SILICA TEMP. = -56.5

CHALCEDONT TEMP. = 18.0

CRISTOBALITE TEMP. = 2.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 79.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 89.3

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -10.2

14005

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 74.000
CONC. OF ' K ' = 0.900

CONC. OF ' NA ' = 9.400
CONC. OF ' SI02 ' = 11.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.923\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.945\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 42.4

QTZ TEMP. (ADIABATIC) = 50.1

AM. SILICA TEMP. = -63.0

CHALCEDONT TEMP. = 9.7

CRISTOBALITE TEMP. = -5.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 178.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 122.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -6.9

14006

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 43.000

CONC. OF ' K ' = 1.600

CONC. OF ' NA ' = 10.000

CONC. OF ' SI02 ' = 29.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 117.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.652E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.529E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 78.0

QTZ TEMP. (ADIABATIC) = 81.8

AM. SILICA TEMP. = -34.1

CHALCEDONT TEMP. = 46.6

CRISTOBALITE TEMP. = 28.3

LOG(NA/K) TEMP. = 246.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 150.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 12.3

14007

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 320.000

CONC. OF ' K ' = 68.000

CONC. OF ' NA ' = 3600.000

CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 10393.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.872E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.627E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 47.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 127.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 152.8

14008

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 3.000
CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 290.000
CONC. OF ' SI02 ' = 19.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 725.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.559\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.395\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 61.5

QTZ TEMP. (ADIABATIC) = 67.2

AM. SILICA TEMP. = -47.6

CHALCEDONT TEMP. = 29.4

CRISTOBALITE TEMP. = 12.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -21.2

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 70.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 82.2

14009

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 47.000
CONC. OF ' K ' = 1.300

CONC. OF ' NA ' = 20.000
CONC. OF ' SI02 ' = 23.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.949\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.544\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 68.8

QTZ TEMP. (ADIABATIC) = 73.7

AM. SILICA TEMP. = -41.7

CHALCEDONT TEMP. = 36.9

CRISTOBALITE TEMP. = 19.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 138.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 120.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 11.6

14010

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 240.000
CONC. OF 'K' = 10.000

CONC. OF 'NA' = 600.000
CONC. OF 'SI02' = 36.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2878.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.166E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.637E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 87.1
QTZ TEMP. (ADIABATIC) = 89.8

AM. SILICA TEMP. = -26.5
CHALCEDONT TEMP. = 56.2
CRISTOBALITE TEMP. = 37.0
LOG(NA/K) TEMP. = 40.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 100.7
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 64.5

14011

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 18.000
CONC. OF 'K' = 240.000

CONC. OF 'NA' = 10000.000
CONC. OF 'SI02' = 33.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 26724.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.411E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 9.288E-02

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 83.4
QTZ TEMP. (ADIABATIC) = 86.5

AM. SILICA TEMP. = -29.6
CHALCEDONT TEMP. = 52.2
CRISTOBALITE TEMP. = 33.4
LOG(NA/K) TEMP. = 61.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 177.9
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 432.8

14012

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 430.000

CONC. OF 'K' = 94.000

CONC. OF 'NA' = 6500.000

CONC. OF 'SI02' = 16.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 20185.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.924E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.483E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 55.2

QTZ TEMP. (ADIABATIC) = 61.6

AM. SILICA TEMP. = -52.7

CHALCEDONT TEMP. = 22.9

CRISTOBALITE TEMP. = 6.5

LOG(NA/K) TEMP. = 32.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 122.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 169.2

14013

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 700.000

CONC. OF 'K' = 13.000

CONC. OF 'NA' = 320.000

CONC. OF 'SI02' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 3452.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.947E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.924E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 98.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 120.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 45.8

11414

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 54.000

CONC. OF ' NA ' = 34.000

CONC. OF ' K ' = 1.600

CONC. OF ' SI02 ' = 49.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 228.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.023E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.418E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 100.9

QTZ TEMP. (ADIABATIC) = 101.7

AM. SILICA TEMP. = -14.8

CHALCEDONT TEMP. = 70.9

CRISTOBALITE TEMP. = 50.5

LOG(NA/K) TEMP. = 110.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 113.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 17.9

14015

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 48.000

CONC. OF ' NA ' = 25.000

CONC. OF ' K ' = 1.000

CONC. OF ' SI02 ' = 54.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 190.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.130E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.632E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 105.4

QTZ TEMP. (ADIABATIC) = 105.7

AM. SILICA TEMP. = -10.9

CHALCEDONT TEMP. = 75.8

CRISTOBALITE TEMP. = 55.0

LOG(NA/K) TEMP. = 97.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 103.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 7.3

14016

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000

CONC. OF ' K ' = 1.100

CONC. OF ' NA ' = 15.000

CONC. OF ' SI02 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 229.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.000E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.905E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

LOG(NA/K) TEMP. = 150.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -5.1

14017

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 32.000

CONC. OF ' K ' = 2.700

CONC. OF ' NA ' = 50.000

CONC. OF ' SI02 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 156.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.869E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.983E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 121.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 127.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 42.2

14018

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 68.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 24.000

CONC. OF ' SiO2 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 297.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.064\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.660\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 115.0

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 109.5

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 6.0

14019

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 25.000

CONC. OF ' K ' = 1.500

CONC. OF ' NA ' = 26.000

CONC. OF ' SiO2 ' = 46.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 193.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.918\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.262\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.0

QTZ TEMP. (ADIABATIC) = 99.2

AM. SILICA TEMP. = -17.3

CHALCEDONT TEMP. = 67.7

CRISTOBALITE TEMP. = 47.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 127.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 123.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 26.2

14020

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 190.000

CONC. OF ' NA ' = 18.000

CONC. OF ' K ' = 1.200

CONC. OF ' SI02 ' = 21.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 856.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.055\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.999\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 65.3

QTZ TEMP. (ADIABATIC) = 70.6

AM. SILICA TEMP. = -44.6

CHALCEDONT TEMP. = 33.3

CRISTOBALITE TEMP. = 16.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 140.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 110.3

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -9.2

14021

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 72.000

CONC. OF ' NA ' = 14.000

CONC. OF ' K ' = 0.800

CONC. OF ' SI02 ' = 23.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 210.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.088\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.930\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 68.8

QTZ TEMP. (ADIABATIC) = 73.7

AM. SILICA TEMP. = -41.7

CHALCEDONT TEMP. = 36.9

CRISTOBALITE TEMP. = 19.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 126.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 107.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -6.2

14022

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 610.000

CONC. OF ' K ' = 15.000

CONC. OF ' NA ' = 460.000

CONC. OF ' SI02 ' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 7155.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.980\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.769\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 82.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 117.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 55.7

14023

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 7.600

CONC. OF ' NA ' = 40.000

CONC. OF ' K ' = 1.700

CONC. OF ' SiO2 ' = 64.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 137.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.902E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.800E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 113.7

QTZ TEMP. (ADIABATIC) = 112.8

AM. SILICA TEMP. = -3.5

CHALCEDONT TEMP. = 84.7

CRISTOBALITE TEMP. = 63.1

LOG(NA/K) TEMP. = 101.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 124.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 53.6

14024

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 125.000

CONC. OF ' NA ' = 22.000

CONC. OF ' K ' = 1.400

CONC. OF ' SiO2 ' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 309.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.016E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.782E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

LOG(NA/K) TEMP. = 136.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 113.9

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 0.4

14025

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 120.000
CONC. OF ' K ' = 22.000

CONC. OF ' NA ' = 360.000
CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1270.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.626E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.169E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 132.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 152.9

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 100.4

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14026

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 55.000
CONC. OF ' K ' = 3.400

CONC. OF ' NA ' = 43.000
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 226.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.765E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.062E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 157.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 138.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 37.5

14027

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 100.000

CONC. OF 'K' = 0.700

CONC. OF 'NA' = 2.600

CONC. OF 'SI02' = 11.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.682\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.327\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 42.4

QTZ TEMP. (ADIABATIC) = 50.1

AM. SILICA TEMP. = -63.0

CHALCEDONT TEMP. = 9.7

CRISTOBALITE TEMP. = -5.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 338.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 146.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -22.4

14028

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 480.000

CONC. OF 'K' = 10.000

CONC. OF 'NA' = 100.000

CONC. OF 'SI02' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2348.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.697\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.098\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 183.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 145.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 35.4

14029

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 66.000
CONC. OF ' K ' = 1.000

CONC. OF ' NA ' = 33.000
CONC. OF ' SI02 ' = 16.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 166.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.978E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.429E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 55.2
QTZ TEMP. (ADIABATIC) = 61.6
AM. SILICA TEMP. = -52.7
CHALCEDONT TEMP. = 22.9
CRISTOBALITE TEMP. = 6.5

LOG(NA/K) TEMP. = 122.5
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 117.3
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 17.4

14030

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 7.000
CONC. OF ' K ' = 7.000

CONC. OF ' NA ' = 1.600
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 148.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.570E-01
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.659E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6
QTZ TEMP. (ADIABATIC) = 87.6
AM. SILICA TEMP. = -28.6
CHALCEDONT TEMP. = 53.6
CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 12741.7
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 361.0
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 63.0

14030

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 7.800

CONC. OF 'K' = 7.000

CONC. OF 'NA' = 1.600

CONC. OF 'SI02' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 73.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 3.570E-01

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.659E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 12741.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 361.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 63.0

14031

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 4.400

CONC. OF 'K' = 1.700

CONC. OF 'NA' = 80.000

CONC. OF 'SI02' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 148.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.063E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.542E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 54.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 109.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 71.3

14032

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 12.000 CONC. OF ' NA ' = 34.000
CONC. OF ' K ' = 0.400 CONC. OF ' SI02 ' = 44.000

DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 138.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.516E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.584E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 95.9
QTZ TEMP. (ADIABATIC) = 97.5
AM. SILICA TEMP. = -19.0
CHALCEDONT TEMP. = 65.6
CRISTOBALITE TEMP. = 45.7
LOG(NA/K) TEMP. = 22.3
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 73.1
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 9.6

14033

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 73.000 CONC. OF ' NA ' = 52.000
CONC. OF ' K ' = 1.000 CONC. OF ' SI02 ' = 42.000

DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 306.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.372E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.648E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8
QTZ TEMP. (ADIABATIC) = 95.7
AM. SILICA TEMP. = -20.8
CHALCEDONT TEMP. = 63.4
CRISTOBALITE TEMP. = 43.6
LOG(NA/K) TEMP. = 48.4
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 84.0
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 6.6

14034

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 30.000
CONC. OF 'K' = 1.200

CONC. OF 'NA' = 22.000
CONC. OF 'SI02' = 41.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 119.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.979E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.435E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 92.8

QTZ TEMP. (ADIABATIC) = 94.7

AM. SILICA TEMP. = -21.7

CHALCEDONT TEMP. = 62.2

CRISTOBALITE TEMP. = 42.6

LOG(NA/K) TEMP. = 122.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 117.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 17.0

14035

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 19.000
CONC. OF 'K' = 0.500

CONC. OF 'NA' = 14.000
CONC. OF 'SI02' = 38.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 90.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.196E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.749E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 89.4

QTZ TEMP. (ADIABATIC) = 91.8

AM. SILICA TEMP. = -24.5

CHALCEDONT TEMP. = 58.6

CRISTOBALITE TEMP. = 39.3

LOG(NA/K) TEMP. = 88.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 98.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 1.8

14036

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 28.000

CONC. OF ' K ' = 1.000

CONC. OF ' NA ' = 7.600

CONC. OF ' SiO2 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 84.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.746\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.649\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 218.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 140.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 6.5

14037

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 7.200

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 9.000

CONC. OF ' SiO2 ' = 42.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 85.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.617\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.152\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8

QTZ TEMP. (ADIABATIC) = 95.7

AM. SILICA TEMP. = -20.8

CHALCEDONT TEMP. = 63.4

CRISTOBALITE TEMP. = 43.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 219.9

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 153.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 32.3

4038

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 8.600
CONC. OF ' K ' = 1.400

CONC. OF ' NA ' = 8.100
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 91.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.533E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.151E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 257.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 163.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 32.3

14039

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 34.000
CONC. OF ' K ' = 5.000

CONC. OF ' NA ' = 140.000
CONC. OF ' SI02 ' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 431.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.904E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.584E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.6

QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6

CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

LOG(NA/K) TEMP. = 88.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 124.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 68.3

14040

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 30.000
CONC. OF 'K' = 3.000

CONC. OF 'NA' = 19.000
CONC. OF 'SI02' = 7.400

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 97.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.539E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.059E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 29.8

QTZ TEMP. (ADIABATIC) = 38.7

AM. SILICA TEMP. = -72.9

CHALCEDONT TEMP. = -3.1

CRISTOBALITE TEMP. = -17.5

LOG(NA/K) TEMP. = 244.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 162.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 37.7

14041

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 55.000
CONC. OF 'K' = 2.200

CONC. OF 'NA' = 28.000
CONC. OF 'SI02' = 57.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 195.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.830E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.313E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 108.0

QTZ TEMP. (ADIABATIC) = 107.9

AM. SILICA TEMP. = -8.7

CHALCEDONT TEMP. = 78.6

CRISTOBALITE TEMP. = 57.5

LOG(NA/K) TEMP. = 157.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 131.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 23.4

14042

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 48.000
CONC. OF ' K ' = 6.200

CONC. OF ' NA ' = 78.000
CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 354.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.667E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.675E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1
QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 158.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 148.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 61.9

14043

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 49.000
CONC. OF ' K ' = 1.700

CONC. OF ' NA ' = 27.000
CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 189.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.923E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.397E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7
QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 135.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 122.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.0

14044

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 93.000
CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 63.000
CONC. OF ' SiO2 ' = 33.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 349.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.366\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.611\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 83.4

QTZ TEMP. (ADIABATIC) = 86.5

AM. SILICA TEMP. = -29.6

CHALCEDONT TEMP. = 52.2

CRISTOBALITE TEMP. = 33.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 47.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 84.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 8.3

14045

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 54.000
CONC. OF ' K ' = 6.500

CONC. OF ' NA ' = 84.000
CONC. OF ' SiO2 ' = 55.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 318.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.676\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.678\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 106.3

QTZ TEMP. (ADIABATIC) = 106.4

AM. SILICA TEMP. = -10.2

CHALCEDONT TEMP. = 76.7

CRISTOBALITE TEMP. = 55.8

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 155.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 147.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 61.7

14046

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 8.000
CONC. OF ' K ' = 16.000

CONC. OF ' NA ' = 400.000
CONC. OF ' SiO2 ' = 100.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 914.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.598E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.508E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 137.2
QTZ TEMP. (ADIABATIC) = 132.7

AM. SILICA TEMP. = 16.9
CHALCEDONT TEMP. = 110.5
CRISTOBALITE TEMP. = 86.6
LOG(NA/K) TEMP. = 97.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 155.9
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 166.3

14047

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 42.000
CONC. OF ' K ' = 1.500

CONC. OF ' NA ' = 30.000
CONC. OF ' SiO2 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 147.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.997E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.391E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6
QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6
CHALCEDONT TEMP. = 53.6
CRISTOBALITE TEMP. = 34.7
LOG(NA/K) TEMP. = 115.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.6
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.3

14048

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 100.000

CONC. OF ' K ' = 0.600

CONC. OF ' NA ' = 120.000

CONC. OF ' SiO2 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 663.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.859\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.839\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -14.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 49.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -2.2

14049

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 41.000

CONC. OF ' K ' = 1.400

CONC. OF ' NA ' = 390.000

CONC. OF ' SiO2 ' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2435.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.767\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.042\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -26.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 55.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 38.6

14050

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 66.000
CONC. OF ' K ' = 6.300

CONC. OF ' NA ' = 110.000
CONC. OF ' SI02 ' = 71.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1400.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.782E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.710E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 118.9

QTZ TEMP. (ADIABATIC) = 117.2

AM. SILICA TEMP. = 0.8

CHALCEDONT TEMP. = 90.4

CRISTOBALITE TEMP. = 68.3

LOG(NA/K) TEMP. = 126.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 136.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 59.6

14051

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 75.000
CONC. OF ' K ' = 0.500

CONC. OF ' NA ' = 5.000
CONC. OF ' SI02 ' = 20.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 129.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.997E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 4.295E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 63.4

QTZ TEMP. (ADIABATIC) = 68.9

AM. SILICA TEMP. = -46.1

CHALCEDONT TEMP. = 31.4

CRISTOBALITE TEMP. = 14.3

LOG(NA/K) TEMP. = 183.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -21.2

14052

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000

CONC. OF ' NA ' = 7.800

CONC. OF ' K ' = 1.300

CONC. OF ' SiO2 ' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 78.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.599\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.369\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 252.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 155.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 20.5

14053

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 41.000
CONC. OF ' K ' = 2.300

CONC. OF ' NA ' = 8.300
CONC. OF ' SI02 ' = 21.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 99.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.437\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.384\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 65.3

QTZ TEMP. (ADIABATIC) = 70.6

AM. SILICA TEMP. = -44.3

CHALCEDONT TEMP. = 33.3

CRISTOBALITE TEMP. = 16.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 344.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 174.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 19.7

14054

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 3.800
CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 320.000
CONC. OF ' SI02 ' = 16.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 674.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.605\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.450\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 55.2

QTZ TEMP. (ADIABATIC) = 61.6

AM. SILICA TEMP. = -52.7

CHALCEDONT TEMP. = 22.9

CRISTOBALITE TEMP. = 6.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -24.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 66.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 78.0

14055

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000
CONC. OF ' K ' = 1.600

CONC. OF ' NA ' = 36.000
CONC. OF ' SI02 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 349.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.091\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.615\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 105.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 107.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 8.1

14056

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 160.000
CONC. OF ' K ' = 1.000

CONC. OF ' NA ' = 7.000
CONC. OF ' SI02 ' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 254.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.848\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.165\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 229.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 129.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -16.0

14057

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 130.000

CONC. OF ' K ' = 0.500

CONC. OF ' NA ' = 3.000

CONC. OF ' SI02 ' = 13.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 169.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.889E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 4.529E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 48.0

QTZ TEMP. (ADIABATIC) = 55.1

AM. SILICA TEMP. = -58.5

CHALCEDONT TEMP. = 15.4

CRISTOBALITE TEMP. = -0.4

LOG(NA/K) TEMP. = 252.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 125.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -29.8

14058

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 640.000

CONC. OF ' K ' = 5.200

CONC. OF ' NA ' = 140.000

CONC. OF ' SI02 ' = 29.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2732.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.100E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.416E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 78.0

QTZ TEMP. (ADIABATIC) = 81.8

AM. SILICA TEMP. = -34.1

CHALCEDONT TEMP. = 46.6

CRISTOBALITE TEMP. = 28.3

LOG(NA/K) TEMP. = 91.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 106.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 18.0

14059

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 6.700
CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 7.400
CONC. OF ' SI02 ' = 35.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 71.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.555E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.159E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 85.9

QTZ TEMP. (ADIABATIC) = 88.7

AM. SILICA TEMP. = -27.5

CHALCEDONT TEMP. = 54.9

CRISTOBALITE TEMP. = 35.9

LOG(NA/K) TEMP. = 248.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 160.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 31.9

14060

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 12.000
CONC. OF ' K ' = 5.200

CONC. OF ' NA ' = 42.000
CONC. OF ' SI02 ' = 48.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 137.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.463E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.440E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 99.9

QTZ TEMP. (ADIABATIC) = 100.9

AM. SILICA TEMP. = -15.7

CHALCEDONT TEMP. = 69.8

CRISTOBALITE TEMP. = 49.5

LOG(NA/K) TEMP. = 210.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 171.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 78.8

14061

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 7.500
CONC. OF 'K' = 1.300

CONC. OF 'NA' = 11.000
CONC. OF 'SiO2' = 42.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 84.800

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.644\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.100\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8

QTZ TEMP. (ADIABATIC) = 95.7

AM. SILICA TEMP. = -20.8

CHALCEDONT TEMP. = 63.4

CRISTOBALITE TEMP. = 43.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 204.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 150.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 35.3

14062

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 560.000
CONC. OF 'K' = 4.800

CONC. OF 'NA' = 32.000
CONC. OF 'SiO2' = 23.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2562.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.697\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.626\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 68.8

QTZ TEMP. (ADIABATIC) = 73.7

AM. SILICA TEMP. = -41.7

CHALCEDONT TEMP. = 36.9

CRISTOBALITE TEMP. = 19.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 236.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 145.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 7.6

14063

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 190.000

CONC. OF ' NA ' = 500.000

CONC. OF ' K ' = 5.800

CONC. OF ' SiO2 ' = 15.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2237.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.333E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.833E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 53.0

QTZ TEMP. (ADIABATIC) = 59.6

AM. SILICA TEMP. = -54.6

CHALCEDONT TEMP. = 20.5

CRISTOBALITE TEMP. = 4.3

LOG(NA/K) TEMP. = 21.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 87.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 51.5

14064

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 67.000

CONC. OF ' NA ' = 260.000

CONC. OF ' K ' = 3.400

CONC. OF ' SiO2 ' = 22.000

DENSITY = *****

TOTAL DISSOLVED SOLIDS = 2001.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.300E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.858E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

LOG(NA/K) TEMP. = 27.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 89.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 49.9

14065

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 100.000

CONC. OF ' NA ' = 100.000

CONC. OF ' K ' = 13.000

CONC. OF ' SiO2 ' = 19.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 578.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.470\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.530\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 61.5

QTZ TEMP. (ADIABATIC) = 67.2

AM. SILICA TEMP. = -47.6

CHALCEDONT TEMP. = 29.4

CRISTOBALITE TEMP. = 12.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 216.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 170.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 72.1

14066

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 130.000

CONC. OF ' NA ' = 69.000

CONC. OF ' K ' = 3.900

CONC. OF ' SiO2 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 508.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.904\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.183\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 125.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 124.2

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 30.6

14067

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 5.000

CONC. OF ' NA ' = 320.000

CONC. OF ' K ' = 0.600

CONC. OF ' SiO2 ' = 11.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1335.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.936E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.873E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 42.4

QTZ TEMP. (ADIABATIC) = 50.1

AM. SILICA TEMP. = -63.0

CHALCEDONT TEMP. = 9.7

CRISTOBALITE TEMP. = -5.7

LOG(NA/K) TEMP. = -46.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 45.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 49.0

14068

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 26.000

CONC. OF ' NA ' = 180.000

CONC. OF ' K ' = 1.900

CONC. OF ' SiO2 ' = 19.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 576.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.378E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.890E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 61.5

QTZ TEMP. (ADIABATIC) = 67.2

AM. SILICA TEMP. = -47.6

CHALCEDONT TEMP. = 29.4

CRISTOBALITE TEMP. = 12.5

LOG(NA/K) TEMP. = 17.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 83.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 47.9

14869

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 6.000
CONC. OF ' K ' = 2.400

CONC. OF ' NA ' = 570.000
CONC. OF ' SiO2 ' = 14.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1920.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.504\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.197\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 50.5

QTZ TEMP. (ADIABATIC) = 57.4

AM. SILICA TEMP. = -56.5

CHALCEDONT TEMP. = 18.0

CRISTOBALITE TEMP. = 2.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -28.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 74.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 98.1

14870

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 38.000
CONC. OF ' K ' = 4.200

CONC. OF ' NA ' = 27.000
CONC. OF ' SiO2 ' = 70.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 203.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.512\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.930\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 118.2

QTZ TEMP. (ADIABATIC) = 116.6

AM. SILICA TEMP. = 0.1

CHALCEDONT TEMP. = 89.6

CRISTOBALITE TEMP. = 67.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 241.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 165.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 45.4

14071

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 26.000
CONC. OF ' K ' = 4.200

CONC. OF ' NA ' = 67.000
CONC. OF ' SI02 ' = 61.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 245.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.747E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.689E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 111.3

QTZ TEMP. (ADIABATIC) = 110.7

AM. SILICA TEMP. = -5.9

CHALCEDONT TEMP. = 82.1

CRISTOBALITE TEMP. = 60.8

LOG(NA/K) TEMP. = 135.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 139.9

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 61.0

14072

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 28.000
CONC. OF ' K ' = 4.700

CONC. OF ' NA ' = 63.000
CONC. OF ' SI02 ' = 54.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 199.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.686E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.670E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 105.4

QTZ TEMP. (ADIABATIC) = 105.7

AM. SILICA TEMP. = -10.9

CHALCEDONT TEMP. = 75.8

CRISTOBALITE TEMP. = 55.0

LOG(NA/K) TEMP. = 151.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 146.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 62.3

14873

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 9.000

CONC. OF ' K ' = 1.500

CONC. OF ' NA ' = 160.000

CONC. OF ' SI02 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 347.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.370\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.703\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 11.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 84.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 60.1

14874

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 40.000

CONC. OF ' K ' = 6.100

CONC. OF ' NA ' = 150.000

CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 477.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.850\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.535\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 98.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 129.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 71.8

14075

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 20.000

CONC. OF ' K ' = 9.300

CONC. OF ' NA ' = 91.000

CONC. OF ' SiO2 ' = 93.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 267.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.472\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.223\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 133.2

QTZ TEMP. (ADIABATIC) = 129.3

AM. SILICA TEMP. = 13.3

CHALCEDONT TEMP. = 106.0

CRISTOBALITE TEMP. = 82.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 186.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 170.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 95.9

14076

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000

CONC. OF ' K ' = 0.500

CONC. OF ' NA ' = 3.000

CONC. OF ' SiO2 ' = 11.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 155.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.877\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.480\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 42.4

QTZ TEMP. (ADIABATIC) = 50.1

AM. SILICA TEMP. = -63.0

CHALCEDONT TEMP. = 9.7

CRISTOBALITE TEMP. = -5.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 252.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 126.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -28.1

14077

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 40.000

CONC. OF 'K' = 2.800

CONC. OF 'NA' = 12.000

CONC. OF 'SI02' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 121.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.457\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.239\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 309.9

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 172.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 27.5

14078

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 60.000

CONC. OF 'K' = 0.700

CONC. OF 'NA' = 3.600

CONC. OF 'SI02' = 15.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 106.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.739\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.132\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 53.0

QTZ TEMP. (ADIABATIC) = 59.6

AM. SILICA TEMP. = -54.6

CHALCEDONT TEMP. = 20.5

CRISTOBALITE TEMP. = 4.3

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 277.2

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 140.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -14.7

14079

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 180.000

CONC. OF ' K ' = 1.600

CONC. OF ' NA ' = 100.000

CONC. OF ' SI02 ' = 25.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 969.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.422\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.610\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 72.0

QTZ TEMP. (ADIABATIC) = 76.6

AM. SILICA TEMP. = -39.0

CHALCEDONT TEMP. = 40.3

CRISTOBALITE TEMP. = 22.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 38.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 80.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 8.4

14080

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 150.000

CONC. OF ' K ' = 1.100

CONC. OF ' NA ' = 35.000

CONC. OF ' SI02 ' = 30.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 299.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.268\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.872\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 79.4

QTZ TEMP. (ADIABATIC) = 83.0

AM. SILICA TEMP. = -32.9

CHALCEDONT TEMP. = 48.0

CRISTOBALITE TEMP. = 29.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 79.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 92.2

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -3.7

14081

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 32.000

CONC. OF ' K ' = 2.300

CONC. OF ' NA ' = 36.000

CONC. OF ' SiO2 ' = 43.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 155.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.844\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.100\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 94.9

QTZ TEMP. (ADIABATIC) = 96.6

AM. SILICA TEMP. = -19.9

CHALCEDONT TEMP. = 64.5

CRISTOBALITE TEMP. = 44.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 136.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 130.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 35.2

14082

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 26.000

CONC. OF ' K ' = 4.200

CONC. OF ' NA ' = 120.000

CONC. OF ' SiO2 ' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 415.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.916\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.604\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.6

QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6

CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 87.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 123.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 66.8

14083

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 140.000

CONC. OF ' K ' = 1.700

CONC. OF ' NA ' = 27.000

CONC. OF ' SI02 ' = 38.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 517.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.999E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.700E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 89.4

QTZ TEMP. (ADIABATIC) = 91.8

AM. SILICA TEMP. = -24.5

CHALCEDONT TEMP. = 58.6

CRISTOBALITE TEMP. = 39.3

LOG(NA/K) TEMP. = 135.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 4.1

14084

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 33.000

CONC. OF ' K ' = 66.000

CONC. OF ' NA ' = 4.000

CONC. OF ' SI02 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 236.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = -2.477E-01

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.969E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = -1776.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 4.1

14085

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 45.000

CONC. OF ' K ' = 1.700

CONC. OF ' NA ' = 11.000

CONC. OF ' SI02 ' = 46.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 133.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.657\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.502\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.0

QTZ TEMP. (ADIABATIC) = 99.2

AM. SILICA TEMP. = -17.3

CHALCEDONT TEMP. = 67.7

CRISTOBALITE TEMP. = 47.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 240.9

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 149.5

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 13.7

14086

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 22.000

CONC. OF ' K ' = 4.900

CONC. OF ' NA ' = 50.000

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 168.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.584\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.616\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 181.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 157.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 66.0

14087

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 38.000

CONC. OF ' NA ' = 24.000

CONC. OF ' K ' = 4.000

CONC. OF ' SiO2 ' = 29.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 196.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.499E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.968E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 78.0

QTZ TEMP. (ADIABATIC) = 81.8

AM. SILICA TEMP. = -34.1

CHALCEDONT TEMP. = 46.6

CRISTOBALITE TEMP. = 28.3

LOG(NA/K) TEMP. = 252.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 167.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 43.1

14088

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 47.000

CONC. OF ' NA ' = 310.000

CONC. OF ' K ' = 18.000

CONC. OF ' SiO2 ' = 41.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 907.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.602E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.006E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 92.8

QTZ TEMP. (ADIABATIC) = 94.7

AM. SILICA TEMP. = -21.7

CHALCEDONT TEMP. = 62.2

CRISTOBALITE TEMP. = 42.6

LOG(NA/K) TEMP. = 128.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 155.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 114.7

14089

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 72.000

CONC. OF ' NA ' = 18.000

CONC. OF ' K ' = 1.200

CONC. OF ' SiO2 ' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 200.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.985E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.718E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 140.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 116.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 3.3

14090

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 36.000

CONC. OF ' NA ' = 76.000

CONC. OF ' K ' = 4.100

CONC. OF ' SiO2 ' = 61.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 276.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.818E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.775E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 111.3

QTZ TEMP. (ADIABATIC) = 110.7

AM. SILICA TEMP. = -5.9

CHALCEDONT TEMP. = 82.1

CRISTOBALITE TEMP. = 60.8

LOG(NA/K) TEMP. = 121.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 132.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 55.2

14091

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 26.000

CONC. OF ' K ' = 4.000

CONC. OF ' NA ' = 20.000

CONC. OF ' SiO2 ' = 56.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 112.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.418\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.885\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 107.2

QTZ TEMP. (ADIABATIC) = 107.2

AM. SILICA TEMP. = -9.4

CHALCEDONT TEMP. = 77.6

CRISTOBALITE TEMP. = 56.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 282.0

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 177.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 48.2

4092

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 34.000

CONC. OF ' K ' = 3.400

CONC. OF ' NA ' = 48.000

CONC. OF ' SiO2 ' = 37.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 213.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.762\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.906\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 88.3

QTZ TEMP. (ADIABATIC) = 90.8

AM. SILICA TEMP. = -25.5

CHALCEDONT TEMP. = 57.4

CRISTOBALITE TEMP. = 38.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 146.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 138.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 46.9

14093

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000

CONC. OF ' K ' = 2.800

CONC. OF ' NA ' = 69.000

CONC. OF ' SiO2 ' = 47.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 189.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.897E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.720E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.9

QTZ TEMP. (ADIABATIC) = 100.1

AM. SILICA TEMP. = -16.5

CHALCEDONT TEMP. = 68.8

CRISTOBALITE TEMP. = 48.6

LOG(NA/K) TEMP. = 98.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 125.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 58.9

14094

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 11.000

CONC. OF ' K ' = 1.500

CONC. OF ' NA ' = 68.000

CONC. OF ' SiO2 ' = 31.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 158.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.136E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.885E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 80.8

QTZ TEMP. (ADIABATIC) = 84.2

AM. SILICA TEMP. = -31.8

CHALCEDONT TEMP. = 49.5

CRISTOBALITE TEMP. = 38.9

LOG(NA/K) TEMP. = 56.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 103.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 48.2

14895

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 8.000

CONC. OF 'NA' = 110.000

CONC. OF 'K' = 3.500

CONC. OF 'SiO2' = 71.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 240.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.885E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.355E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 118.9

QTZ TEMP. (ADIABATIC) = 117.2

AM. SILICA TEMP. = 0.8

CHALCEDONT TEMP. = 90.4

CRISTOBALITE TEMP. = 68.3

LOG(NA/K) TEMP. = 80.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 126.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 85.3

14896

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 29.000

CONC. OF 'NA' = 62.000

CONC. OF 'K' = 9.800

CONC. OF 'SiO2' = 87.000

DENSITY = ****

TOTAL DISSOLVED SOLIDS = 248.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.365E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.364E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 129.5

QTZ TEMP. (ADIABATIC) = 126.3

AM. SILICA TEMP. = 10.1

CHALCEDONT TEMP. = 102.8

CRISTOBALITE TEMP. = 78.9

LOG(NA/K) TEMP. = 244.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 183.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 84.6

14896

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 29.000

CONC. OF ' K ' = 9.800

CONC. OF ' NA ' = 62.000

CONC. OF ' SiO2 ' = 87.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 248.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.365E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.364E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 129.5

QTZ TEMP. (ADIABATIC) = 126.3

AM. SILICA TEMP. = 10.1

CHALCEDONT TEMP. = 102.0

CRISTOBALITE TEMP. = 78.9

LOG(NA/K) TEMP. = 244.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 183.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 84.6

14897

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 23.000

CONC. OF ' K ' = 12.000

CONC. OF ' NA ' = 58.000

CONC. OF ' SiO2 ' = 96.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 247.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.241E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.218E+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

LOG(NA/K) TEMP. = 287.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 200.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 96.3

14098

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 32.000

CONC. OF ' NA ' = 48.000

CONC. OF ' K ' = 4.100

CONC. OF ' SI02 ' = 54.000

DENSITY = #####

TOTAL DISSOLVED SOLIDS = 200.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.676E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.008E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 105.4

QTZ TEMP. (ADIABATIC) = 105.7

AM. SILICA TEMP. = -10.9

CHALCEDONT TEMP. = 75.8

CRISTOBALITE TEMP. = 55.0

LOG(NA/K) TEMP. = 166.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 147.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 53.1

14099

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000

CONC. OF ' NA ' = 120.000

CONC. OF ' K ' = 1.100

CONC. OF ' SI02 ' = 30.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 349.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.463E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.046E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 79.4

QTZ TEMP. (ADIABATIC) = 83.0

AM. SILICA TEMP. = -32.9

CHALCEDONT TEMP. = 48.0

CRISTOBALITE TEMP. = 29.6

LOG(NA/K) TEMP. = 10.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 77.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 38.4

14100

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 10.000

CONC. OF ' K ' = 2.500

CONC. OF ' NA ' = 6.400

CONC. OF ' SiO2 ' = 27.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 134.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.224E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.977E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 75.1

QTZ TEMP. (ADIABATIC) = 79.3

AM. SILICA TEMP. = -36.5

CHALCEDONT TEMP. = 43.5

CRISTOBALITE TEMP. = 25.5

LOG(NA/K) TEMP. = 427.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 202.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 42.5

14101

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 60.000

CONC. OF ' K ' = 1.100

CONC. OF ' NA ' = 22.000

CONC. OF ' SiO2 ' = 61.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 415.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.067E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.674E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 111.3

QTZ TEMP. (ADIABATIC) = 110.7

AM. SILICA TEMP. = -5.9

CHALCEDONT TEMP. = 82.1

CRISTOBALITE TEMP. = 60.8

LOG(NA/K) TEMP. = 115.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 109.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 5.3

14102

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 140.000

CONC. OF ' K ' = 2.900

CONC. OF ' NA ' = 19.000

CONC. OF ' SiO2 ' = 78.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 305.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.649\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.527\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 123.8

QTZ TEMP. (ADIABATIC) = 121.4

AM. SILICA TEMP. = 5.0

CHALCEDONT TEMP. = 95.7

CRISTOBALITE TEMP. = 73.1

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 247.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 150.3

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 12.4

14103

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 56.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 10.000

CONC. OF ' SiO2 ' = 31.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 444.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.796\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.730\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 80.8

QTZ TEMP. (ADIABATIC) = 84.2

AM. SILICA TEMP. = -31.8

CHALCEDONT TEMP. = 49.5

CRISTOBALITE TEMP. = 30.9

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

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 134.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 2.7

14104

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 6.000

CONC. OF ' NA ' = 160.000

CONC. OF ' K ' = 11.000

CONC. OF ' SiO2 ' = 150.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 410.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.475E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.720E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 161.2

QTZ TEMP. (ADIABATIC) = 152.7

AM. SILICA TEMP. = 38.7

CHALCEDONT TEMP. = 137.4

CRISTOBALITE TEMP. = 110.9

LOG(NA/K) TEMP. = 143.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 170.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 142.8

14105

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 90.000

CONC. OF ' NA ' = 22.000

CONC. OF ' K ' = 1.200

CONC. OF ' SiO2 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 302.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.059E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.754E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 122.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 110.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 1.6

14105

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 130.000

CONC. OF ' K ' = 0.600

CONC. OF ' NA ' = 11.000

CONC. OF ' SiO2 ' = 20.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 271.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.186\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.261\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 63.4

QTZ TEMP. (ADIABATIC) = 63.9

AM. SILICA TEMP. = -46.1

CHALCEDONT TEMP. = 31.4

CRISTOBALITE TEMP. = 14.3

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 122.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 99.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -19.8

14107

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 64.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 32.000

CONC. OF ' SiO2 ' = 45.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 297.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.143\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.601\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.0

QTZ TEMP. (ADIABATIC) = 99.2

AM. SILICA TEMP. = -17.3

CHALCEDONT TEMP. = 67.7

CRISTOBALITE TEMP. = 47.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 92.2

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 102.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 8.8

14108

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 180.000

CONC. OF ' K ' = 12.000

CONC. OF ' NA ' = 24.000

CONC. OF ' SiO2 ' = 98.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 578.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.134E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.942E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 136.1

QTZ TEMP. (ADIABATIC) = 131.8

AM. SILICA TEMP. = 15.9

CHALCEDONT TEMP. = 109.2

CRISTOBALITE TEMP. = 85.4

LOG(NA/K) TEMP. = 502.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 215.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 44.7

14109

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 75.000

CONC. OF ' K ' = 24.000

CONC. OF ' NA ' = 298.000

CONC. OF ' SiO2 ' = 35.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 697.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.491E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.026E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 85.9

QTZ TEMP. (ADIABATIC) = 88.7

AM. SILICA TEMP. = -27.5

CHALCEDONT TEMP. = 54.9

CRISTOBALITE TEMP. = 35.9

LOG(NA/K) TEMP. = 162.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 168.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 112.9

14110

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 9.000
CONC. OF 'K' = 4.700

CONC. OF 'NA' = 200.000
CONC. OF 'SiO2' = 42.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 440.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.938\text{E}+00$
 $\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.174\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8

QTZ TEMP. (ADIABATIC) = 95.7

AM. SILICA TEMP. = -20.8

CHALCEDONT TEMP. = 63.4

CRISTOBALITE TEMP. = 43.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 60.4

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 121.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 99.9

14111

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 3.000
CONC. OF 'K' = 6.500

CONC. OF 'NA' = 400.000
CONC. OF 'SiO2' = 44.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1074.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.959\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.595\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 95.9

QTZ TEMP. (ADIABATIC) = 97.5

AM. SILICA TEMP. = -19.0

CHALCEDONT TEMP. = 65.6

CRISTOBALITE TEMP. = 45.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 31.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 119.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 156.3

14112

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 120.000

CONC. OF 'K' = 1.000

CONC. OF 'NA' = 14.000

CONC. OF 'SiO2' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 247.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.028E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.981E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 147.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 112.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -8.4

14113

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 56.000

CONC. OF 'K' = 1.200

CONC. OF 'NA' = 230.000

CONC. OF 'SiO2' = 50.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 795.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.704E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.276E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 101.8

QTZ TEMP. (ADIABATIC) = 102.5

AM. SILICA TEMP. = -14.0

CHALCEDONT TEMP. = 71.9

CRISTOBALITE TEMP. = 51.4

LOG(NA/K) TEMP. = -12.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 60.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 25.4

14114

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 30.000

CONC. OF ' NA ' = 58.000

CONC. OF ' K ' = 2.600

CONC. OF ' SiO2 ' = 71.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 269.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.924E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.959E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 118.9

QTZ TEMP. (ADIABATIC) = 117.2

AM. SILICA TEMP. = 0.8

CHALCEDONT TEMP. = 90.4

CRISTOBALITE TEMP. = 68.3

LOG(NA/K) TEMP. = 106.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 122.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 43.6

14115

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 34.000

CONC. OF ' NA ' = 56.000

CONC. OF ' K ' = 2.400

CONC. OF ' SiO2 ' = 69.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 279.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.958E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.035E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 117.5

QTZ TEMP. (ADIABATIC) = 116.0

AM. SILICA TEMP. = -0.5

CHALCEDONT TEMP. = 88.8

CRISTOBALITE TEMP. = 66.8

LOG(NA/K) TEMP. = 102.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 119.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 39.0

14116

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 12.000

CONC. OF 'K' = 2.400

CONC. OF 'NA' = 50.000

CONC. OF 'SI02' = 82.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 223.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.850E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.750E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 126.4

QTZ TEMP. (ADIABATIC) = 123.6

AM. SILICA TEMP. = 7.3

CHALCEDONT TEMP. = 98.6

CRISTOBALITE TEMP. = 75.7

LOG(NA/K) TEMP. = 111.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 129.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 56.9

14117

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 67.000

CONC. OF 'K' = 1.000

CONC. OF 'NA' = 30.000

CONC. OF 'SI02' = 33.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 189.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.206E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.702E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 83.4

QTZ TEMP. (ADIABATIC) = 86.5

AM. SILICA TEMP. = -29.6

CHALCEDONT TEMP. = 52.2

CRISTOBALITE TEMP. = 33.4

LOG(NA/K) TEMP. = 83.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 97.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 4.0

14118

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 72.000

CONC. OF 'K' = 6.400

CONC. OF 'NA' = 100.000

CONC. OF 'SI02' = 52.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS =

513.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.754\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.743\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 103.6

QTZ TEMP. (ADIABATIC) = 104.1

AM. SILICA TEMP. = -12.5

CHALCEDONT TEMP. = 73.8

CRISTOBALITE TEMP. = 53.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 137.0

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 139.2

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 57.4

14119

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 34.000

CONC. OF 'K' = 34.000

CONC. OF 'NA' = 2.800

CONC. OF 'SI02' = 76.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS =

205.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = -6.078\text{E}-02$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.318\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 122.4

QTZ TEMP. (ADIABATIC) = 120.2

AM. SILICA TEMP. = 3.3

CHALCEDONT TEMP. = 94.2

CRISTOBALITE TEMP. = 71.8

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -2298.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 139.2

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 57.4

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 74.000

CONC. OF ' K ' = 1.900

CONC. OF ' NA ' = 25.000

CONC. OF ' SiO2 ' = 58.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 226.000

 $\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.882\text{E}+00$ $\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.479\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 108.9

QTZ TEMP. (ADIABATIC) = 108.6

AM. SILICA TEMP. = -8.0

CHALCEDONT TEMP. = 79.5

CRISTOBALITE TEMP. = 58.3

 $\text{LOG}(\text{NA}/\text{K}) \text{ TEMP.} = 153.8$ $\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) \text{ TEMP.} = 126.4$ $\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) \text{ TEMP.} = 14.8$

14121

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 200.000 CONC. OF 'NA' = 240.000
 CONC. OF 'K' = 26.000 CONC. OF 'SI02' = 65.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 3128.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.472E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.302E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA
 QTS TEMP. (CONDUCTIVE) = 114.5
 QTS TEMP. (ADIABATIC) = 113.4
 AM. SILICA TEMP. = -3.1
 CHALCEDONT TEMP. = 85.5
 CRISTOBALITE TEMP. = 63.9
 LOG(NA/K) TEMP. = 193.2
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 170.5
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 89.4

14122

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 540.000 CONC. OF 'NA' = 140.000
 CONC. OF 'K' = 7.200 CONC. OF 'SI02' = 14.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 1616.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.946E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.226E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA
 QTS TEMP. (CONDUCTIVE) = 50.5
 QTS TEMP. (ADIABATIC) = 52.4
 AM. SILICA TEMP. = -56.5
 CHALCEDONT TEMP. = 18.0
 CRISTOBALITE TEMP. = 2.0
 LOG(NA/K) TEMP. = 117.4
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 120.3
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 35.2

14123

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 330.000

CONC. OF 'K' = 4.900

CONC. OF 'NA' = 91.000

CONC. OF 'SI02' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2970.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.953E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.312E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = 121.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 119.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 23.5

14124

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 66.000

CONC. OF 'K' = 6.300

CONC. OF 'NA' = 110.000

CONC. OF 'SI02' = 49.000

DENSITY = ****

TOTAL DISSOLVED SOLIDS = 1698.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.782E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.710E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 100.9

QTZ TEMP. (ADIABATIC) = 101.7

AM. SILICA TEMP. = -14.8

CHALCEDONT TEMP. = 70.9

CRISTOBALITE TEMP. = 50.5

LOG(NA/K) TEMP. = 126.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 136.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 59.6

14125

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 66.000
CONC. OF ' K ' = 4.000

CONC. OF ' NA ' = 59.000
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 325.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.799\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.998\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 142.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 134.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 41.3

14126

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 25.000
CONC. OF ' K ' = 32.000

CONC. OF ' NA ' = 350.000
CONC. OF ' SI02 ' = 68.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1175.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.341\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.556\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 116.7

QTZ TEMP. (ADIABATIC) = 115.4

AM. SILICA TEMP. = -1.2

CHALCEDONT TEMP. = 88.0

CRISTOBALITE TEMP. = 66.1

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 173.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 186.7

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 160.7

14127

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 26.000

CONC. OF 'K' = 1.000

CONC. OF 'NA' = 260.000

CONC. OF 'SiO2' = 36.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 868.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.763\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.115\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 87.1

QTZ TEMP. (ADIABATIC) = 89.8

AM. SILICA TEMP. = -26.5

CHALCEDONT TEMP. = 56.2

CRISTOBALITE TEMP. = 37.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = -23.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 56.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 34.4

14128

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 8.000

CONC. OF 'K' = 2.200

CONC. OF 'NA' = 86.000

CONC. OF 'SiO2' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 157.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.015\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.592\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.6

QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6

CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 65.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 113.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 67.7

14129

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 12.000

CONC. OF ' K ' = 1.600

CONC. OF ' NA ' = 87.000

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 158.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.186E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.846E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 65.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 45.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 99.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 50.7

14130

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 14.000

CONC. OF ' K ' = 3.900

CONC. OF ' NA ' = 89.000

CONC. OF ' SI02 ' = 44.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 204.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.817E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.501E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 95.9

QTZ TEMP. (ADIABATIC) = 97.5

AM. SILICA TEMP. = -19.0

CHALCEDONT TEMP. = 65.6

CRISTOBALITE TEMP. = 45.7

LOG(NA/K) TEMP. = 104.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 132.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 74.3

14131

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 25.000

CONC. OF ' K ' = 3.500

CONC. OF ' NA ' = 28.000

CONC. OF ' SiO2 ' = 30.000

DENSITY = #####

TOTAL DISSOLVED SOLIDS = 109.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.571E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.883E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 79.4

QTZ TEMP. (ADIABATIC) = 83.0

AM. SILICA TEMP. = -32.9

CHALCEDONT TEMP. = 48.0

CRISTOBALITE TEMP. = 29.6

LOG(NA/K) TEMP. = 211.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 159.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 48.3

14132

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 89.000

CONC. OF ' K ' = 1.800

CONC. OF ' NA ' = 14.000

CONC. OF ' SiO2 ' = 60.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 258.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.751E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.640E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 110.5

QTZ TEMP. (ADIABATIC) = 110.0

AM. SILICA TEMP. = -6.6

CHALCEDONT TEMP. = 81.3

CRISTOBALITE TEMP. = 60.0

LOG(NA/K) TEMP. = 215.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 139.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 7.0

14133

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 52.000

CONC. OF ' K ' = 7.800

CONC. OF ' NA ' = 18.000

CONC. OF ' SI02 ' = 80.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 186.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.148E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.811E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 125.1

QTZ TEMP. (ADIABATIC) = 122.5

AM. SILICA TEMP. = 6.2

CHALCEDONT TEMP. = 97.1

CRISTOBALITE TEMP. = 74.4

LOG(NA/K) TEMP. = 457.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 213.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 52.9

14134

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 39.000

CONC. OF ' K ' = 14.000

CONC. OF ' NA ' = 260.000

CONC. OF ' SI02 ' = 86.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 867.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.646E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.087E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 128.9

QTZ TEMP. (ADIABATIC) = 125.7

AM. SILICA TEMP. = 9.6

CHALCEDONT TEMP. = 101.4

CRISTOBALITE TEMP. = 78.3

LOG(NA/K) TEMP. = 121.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 150.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 107.5

14135

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 46.000

CONC. OF 'K' = 16.000

CONC. OF 'NA' = 320.000

CONC. OF 'SiO2' = 100.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1071.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.660\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.046\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 137.2

QTZ TEMP. (ADIABATIC) = 132.7

AM. SILICA TEMP. = 16.9

CHALCEDONT TEMP. = 110.5

CRISTOBALITE TEMP. = 86.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 115.0

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 149.1

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 111.1

14136

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 20.000

CONC. OF 'K' = 2.500

CONC. OF 'NA' = 10.000

CONC. OF 'SiO2' = 59.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 115.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.403\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.113\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 109.7

QTZ TEMP. (ADIABATIC) = 109.3

AM. SILICA TEMP. = -7.3

CHALCEDONT TEMP. = 80.4

CRISTOBALITE TEMP. = 59.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 323.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 178.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 34.5

14137

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 15.000

CONC. OF ' K ' = 1.800

CONC. OF ' NA ' = 18.000

CONC. OF ' SI02 ' = 30.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 896.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.695\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.088\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 79.4

QTZ TEMP. (ADIABATIC) = 83.0

AM. SILICA TEMP. = -32.9

CHALCEDONT TEMP. = 48.0

CRISTOBALITE TEMP. = 29.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 183.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 145.4

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 36.0

14138

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 13.000

CONC. OF ' K ' = 13.000

CONC. OF ' NA ' = 4.600

CONC. OF ' SI02 ' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 90.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 4.309\text{E}-01$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.385\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 2841.2

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 343.5

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 82.9

14139

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 36.000

CONC. OF ' NA ' = 20.000

CONC. OF ' K ' = 3.800

CONC. OF ' SI02 ' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 154.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.464E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.001E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = 273.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 171.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 41.1

14140

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 150.000

CONC. OF ' NA ' = 34.000

CONC. OF ' K ' = 1.900

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 454.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.022E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.639E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 124.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 113.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 7.0

14141

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 2.800

CONC. OF ' NA ' = 180.000

CONC. OF ' K ' = 0.900

CONC. OF ' SI02 ' = 18.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 269.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.541E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.569E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 59.5

QTZ TEMP. (ADIABATIC) = 65.5

AM. SILICA TEMP. = -49.3

CHALCEDONT TEMP. = 27.3

CRISTOBALITE TEMP. = 10.5

LOG(NA/K) TEMP. = -14.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 71.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 69.3

14142

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 22.000

CONC. OF ' NA ' = 15.000

CONC. OF ' K ' = 2.600

CONC. OF ' SI02 ' = 56.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 121.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.510E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.065E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 107.2

QTZ TEMP. (ADIABATIC) = 107.2

AM. SILICA TEMP. = -9.4

CHALCEDONT TEMP. = 77.6

CRISTOBALITE TEMP. = 56.7

LOG(NA/K) TEMP. = 258.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 166.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 37.3

14143

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 30.000

CONC. OF ' K ' = 0.700

CONC. OF ' NA ' = 20.000

CONC. OF ' SiO2 ' = 59.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 148.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.186\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.683\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 109.7

QTZ TEMP. (ADIABATIC) = 109.3

AM. SILICA TEMP. = -7.3

CHALCEDONT TEMP. = 80.4

CRISTOBALITE TEMP. = 59.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 87.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 99.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 4.9

14144

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 54.000

CONC. OF ' K ' = 0.900

CONC. OF ' NA ' = 8.100

CONC. OF ' SiO2 ' = 14.000

DENSITY = #####

TOTAL DISSOLVED SOLIDS = 122.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.858\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.875\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 50.5

QTZ TEMP. (ADIABATIC) = 57.4

AM. SILICA TEMP. = -56.5

CHALCEDONT TEMP. = 18.0

CRISTOBALITE TEMP. = 2.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 196.3

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 128.8

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = -3.8

14145

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 58.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 9.400

CONC. OF ' SI02 ' = 21.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 203.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.781E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.749E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 65.3

QTZ TEMP. (ADIABATIC) = 70.6

AM. SILICA TEMP. = -44.6

CHALCEDONT TEMP. = 33.3

CRISTOBALITE TEMP. = 16.0

LOG(NA/K) TEMP. = 214.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 136.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 1.8

14146

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 120.000

CONC. OF ' K ' = 0.800

CONC. OF ' NA ' = 37.000

CONC. OF ' SI02 ' = 52.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 318.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.406E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.938E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 103.6

QTZ TEMP. (ADIABATIC) = 104.1

AM. SILICA TEMP. = -12.5

CHALCEDONT TEMP. = 73.8

CRISTOBALITE TEMP. = 53.2

LOG(NA/K) TEMP. = 55.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 81.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -6.6

14147

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 84.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 7.700

CONC. OF ' SiO2 ' = 49.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.750E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.886E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 100.9

QTZ TEMP. (ADIABATIC) = 101.7

AM. SILICA TEMP. = -14.8

CHALCEDONT TEMP. = 70.9

CRISTOBALITE TEMP. = 50.5

LOG(NA/K) TEMP. = 242.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 139.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -4.3

14148

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 38.000

CONC. OF ' K ' = 1.200

CONC. OF ' NA ' = 30.000

CONC. OF ' SiO2 ' = 49.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 150.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.086E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.459E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 100.9

QTZ TEMP. (ADIABATIC) = 101.7

AM. SILICA TEMP. = -14.8

CHALCEDONT TEMP. = 70.9

CRISTOBALITE TEMP. = 50.5

LOG(NA/K) TEMP. = 97.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 107.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 15.8

14149

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 64.000

CONC. OF ' K ' = 1.600

CONC. OF ' NA ' = 12.000

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 199.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.734E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.618E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 219.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 141.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 8.0

14150

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 39.000

CONC. OF ' K ' = 0.900

CONC. OF ' NA ' = 55.000

CONC. OF ' SI02 ' = 38.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 233.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.389E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.504E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 89.4

QTZ TEMP. (ADIABATIC) = 91.8

AM. SILICA TEMP. = -24.5

CHALCEDONT TEMP. = 58.6

CRISTOBALITE TEMP. = 39.3

LOG(NA/K) TEMP. = 39.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 82.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 13.6

14151

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 52.000

CONC. OF ' NA ' = 19.000

CONC. OF ' K ' = 2.000

CONC. OF ' SI02 ' = 62.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 185.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.755E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.394E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 112.1

QTZ TEMP. (ADIABATIC) = 111.4

AM. SILICA TEMP. = -5.2

CHALCEDONT TEMP. = 83.0

CRISTOBALITE TEMP. = 61.6

LOG(NA/K) TEMP. = 189.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 139.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.2

14152

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 63.000

CONC. OF ' NA ' = 27.000

CONC. OF ' K ' = 1.800

CONC. OF ' SI02 ' = 65.000

DENSITY = *****

TOTAL DISSOLVED SOLIDS = 227.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.916E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.445E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 114.5

QTZ TEMP. (ADIABATIC) = 113.4

AM. SILICA TEMP. = -3.1

CHALCEDONT TEMP. = 85.5

CRISTOBALITE TEMP. = 63.9

LOG(NA/K) TEMP. = 140.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 123.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 16.6

14153

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 31.000

CONC. OF ' K ' = 3.000

CONC. OF ' NA ' = 39.000

CONC. OF ' SI02 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 174.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.750E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.964E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 155.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 139.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 43.3

14154

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 23.000

CONC. OF ' K ' = 7.300

CONC. OF ' NA ' = 220.000

CONC. OF ' SI02 ' = 38.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 640.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.843E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.241E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 89.4

QTZ TEMP. (ADIABATIC) = 91.8

AM. SILICA TEMP. = -24.5

CHALCEDONT TEMP. = 58.6

CRISTOBALITE TEMP. = 39.3

LOG(NA/K) TEMP. = 83.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 130.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 94.4

14155

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 11.000
CONC. OF ' K ' = 1.900

CONC. OF ' NA ' = 270.000
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 690.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.433E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.582E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = -0.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 79.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 68.4

14156

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 22.000
CONC. OF ' K ' = 4.100

CONC. OF ' NA ' = 120.000
CONC. OF ' SI02 ' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 351.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.914E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.566E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = 85.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 123.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 69.5

14157

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 42.000

CONC. OF ' K ' = 3.500

CONC. OF ' NA ' = 160.000

CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 441.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.113E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.781E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 56.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 105.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 54.9

14158

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 24.000

CONC. OF ' K ' = 1.000

CONC. OF ' NA ' = 73.000

CONC. OF ' SI02 ' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 190.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.390E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.276E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 29.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 82.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 25.4

14159

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 140.000
CONC. OF 'K' = 0.800

CONC. OF 'NA' = 13.000
CONC. OF 'SI02' = 17.000

DENSITY = ****

TOTAL DISSOLVED SOLIDS = 266.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.115E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 4.134E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 57.4
QTZ TEMP. (ADIABATIC) = 63.6
AM. SILICA TEMP. = -50.9
CHALCEDONT TEMP. = 25.1
CRISTOBALITE TEMP. = 8.6
LOG(NA/K) TEMP. = 133.3
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 105.1
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -14.8

14160

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 64.000
CONC. OF 'K' = 26.000

CONC. OF 'NA' = 380.000
CONC. OF 'SI02' = 29.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1125.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.523E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.906E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 78.0
QTZ TEMP. (ADIABATIC) = 81.8
AM. SILICA TEMP. = -34.1
CHALCEDONT TEMP. = 46.6
CRISTOBALITE TEMP. = 28.3
LOG(NA/K) TEMP. = 143.4
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 164.5
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 124.1

14161

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 23.000

CONC. OF ' K ' = 5.400

CONC. OF ' NA ' = 110.000

CONC. OF ' SiO2 ' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 337.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.790\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.539\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 113.5

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 135.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 71.4

14162

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 12.000

CONC. OF ' K ' = 12.000

CONC. OF ' NA ' = 190.000

CONC. OF ' SiO2 ' = 41.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 445.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.537\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.858\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 92.8

QTZ TEMP. (ADIABATIC) = 94.7

AM. SILICA TEMP. = -21.7

CHALCEDONT TEMP. = 62.2

CRISTOBALITE TEMP. = 42.6

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 135.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 162.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 128.7

14163

Picked up by O'BRIEN -

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 56.000

CONC. OF 'NA' = 290.000

CONC. OF 'K' = 19.000

CONC. OF 'SiO2' = 50.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 924.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.572\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.043\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 101.8

QTZ TEMP. (ADIABATIC) = 102.5

AM. SILICA TEMP. = -14.0

CHALCEDONT TEMP. = 71.9

CRISTOBALITE TEMP. = 51.4

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 139.2

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 159.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 111.4

14170

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000

CONC. OF ' K ' = 2.300

CONC. OF ' NA ' = 32.000

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 317.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.899E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.475E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

LOG(NA/K) TEMP. = 148.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 124.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 15.0

14171

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 4.000

CONC. OF ' K ' = 1.900

CONC. OF ' NA ' = 2.800

CONC. OF ' SI02 ' = 35.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 56.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.037E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.951E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 85.9

QTZ TEMP. (ADIABATIC) = 88.7

AM. SILICA TEMP. = -27.5

CHALCEDONT TEMP. = 54.9

CRISTOBALITE TEMP. = 35.9

LOG(NA/K) TEMP. = 620.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 229.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 44.1

14172

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000

CONC. OF ' K ' = 2.600

CONC. OF ' NA ' = 41.000

CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 326.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.918E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.386E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 136.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 123.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.6

14173

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 110.000

CONC. OF ' K ' = 2.300

CONC. OF ' NA ' = 53.000

CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 313.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.045E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.402E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 103.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 111.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 18.8

14174

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 41.000

CONC. OF ' K ' = 2.800

CONC. OF ' NA ' = 18.000

CONC. OF ' SI02 ' = 32.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 124.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.576\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.187\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 82.1

QTZ TEMP. (ADIABATIC) = 85.4

AM. SILICA TEMP. = -30.7

CHALCEDONT TEMP. = 50.9

CRISTOBALITE TEMP. = 32.2

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 241.8

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 158.5

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 30.3

14190

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 14.000

CONC. OF ' K ' = 2.700

CONC. OF ' NA ' = 6.200

CONC. OF ' SI02 ' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 67.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.205\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.046\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 458.7

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 204.9

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 38.4

14191

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000
CONC. OF ' K ' = 3.400

CONC. OF ' NA ' = 6.400
CONC. OF ' SiO2 ' = 52.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 98.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.124E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.980E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 103.6

QTZ TEMP. (ADIABATIC) = 104.1

AM. SILICA TEMP. = -12.5

CHALCEDONT TEMP. = 73.8

CRISTOBALITE TEMP. = 53.2

LOG(NA/K) TEMP. = 523.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 216.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 42.4

14192

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 15.000
CONC. OF ' K ' = 1.500

CONC. OF ' NA ' = 5.400
CONC. OF ' SiO2 ' = 44.000

DENSITY = *****

TOTAL DISSOLVED SOLIDS = 89.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.426E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.341E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 95.9

QTZ TEMP. (ADIABATIC) = 97.5

AM. SILICA TEMP. = -19.0

CHALCEDONT TEMP. = 65.6

CRISTOBALITE TEMP. = 45.7

LOG(NA/K) TEMP. = 345.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 176.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 21.9

14193

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 17.000

CONC. OF ' K ' = 3.600

CONC. OF ' NA ' = 6.500

CONC. OF ' SI02 ' = 48.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 112.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.108E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.970E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 99.9

QTZ TEMP. (ADIABATIC) = 100.9

AM. SILICA TEMP. = -15.7

CHALCEDONT TEMP. = 69.8

CRISTOBALITE TEMP. = 49.5

LOG(NA/K) TEMP. = 538.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 218.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 42.9

14194

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 46.000

CONC. OF ' K ' = 0.800

CONC. OF ' NA ' = 19.000

CONC. OF ' SI02 ' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 143.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.144E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.757E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.6

QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6

CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

LOG(NA/K) TEMP. = 101.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 102.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 1.5

14195

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 8.000
CONC. OF ' K ' = 2.800

CONC. OF ' NA ' = 4.000
CONC. OF ' SI02 ' = 40.000

DENSITY = #####

TOTAL DISSOLVED SOLIDS = 82.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.022E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.932E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 635.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 231.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 45.3

14196

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 3.000
CONC. OF ' K ' = 4.800

CONC. OF ' NA ' = 50.000
CONC. OF ' SI02 ' = 34.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 107.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.448E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.048E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 84.6

QTZ TEMP. (ADIABATIC) = 87.6

AM. SILICA TEMP. = -28.6

CHALCEDONT TEMP. = 53.6

CRISTOBALITE TEMP. = 34.7

LOG(NA/K) TEMP. = 179.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 173.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 110.9

14197

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 46.000

CONC. OF ' K ' = 1.000

CONC. OF ' NA ' = 16.000

CONC. OF ' SI02 ' = 31.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 112.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.997E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.685E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 80.8

QTZ TEMP. (ADIABATIC) = 84.2

AM. SILICA TEMP. = -31.8

CHALCEDONT TEMP. = 49.5

CRISTOBALITE TEMP. = 30.9

LOG(NA/K) TEMP. = 134.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 4.8

14198

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 50.000

CONC. OF ' K ' = 0.200

CONC. OF ' NA ' = 22.000

CONC. OF ' SI02 ' = 45.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 152.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.794E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 4.362E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 96.9

QTZ TEMP. (ADIABATIC) = 98.4

AM. SILICA TEMP. = -18.2

CHALCEDONT TEMP. = 66.7

CRISTOBALITE TEMP. = 46.7

LOG(NA/K) TEMP. = 10.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 54.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = -23.7

14199

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 18.000

CONC. OF ' NA ' = 24.000

CONC. OF ' K ' = 1.000

CONC. OF ' SI02 ' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 90.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.047E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.354E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 100.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 111.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 21.3

14200

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 1.000

CONC. OF ' NA ' = 60.000

CONC. OF ' K ' = 0.200

CONC. OF ' SI02 ' = 51.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 126.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.802E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.084E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 102.7

QTZ TEMP. (ADIABATIC) = 103.3

AM. SILICA TEMP. = -13.2

CHALCEDONT TEMP. = 72.9

CRISTOBALITE TEMP. = 52.3

LOG(NA/K) TEMP. = -28.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 53.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 36.2

14201

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 50.000

CONC. OF ' K ' = 1.800

CONC. OF ' NA ' = 45.000

CONC. OF ' SI02 ' = 72.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 243.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.047\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 3.304\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 119.6

QTZ TEMP. (ADIABATIC) = 117.8

AM. SILICA TEMP. = 1.4

CHALCEDONT TEMP. = 91.2

CRISTOBALITE TEMP. = 69.0

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 97.1

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 111.0

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 23.9

14202

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 40.000

CONC. OF ' K ' = 4.200

CONC. OF ' NA ' = 110.000

CONC. OF ' SI02 ' = 76.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 358.000

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 1.922\text{E}+00$

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA}) = 2.742\text{E}+00$

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 122.4

QTZ TEMP. (ADIABATIC) = 120.2

AM. SILICA TEMP. = 3.8

CHALCEDONT TEMP. = 94.2

CRISTOBALITE TEMP. = 71.8

$\text{LOG}(\text{NA}/\text{K})$ TEMP. = 93.6

$\text{LOG}(\text{NA}/\text{K}) + 1/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 122.6

$\text{LOG}(\text{NA}/\text{K}) + 4/3\text{LOG}(\text{SQRT}(\text{CA})/\text{NA})$ TEMP. = 57.5

14203

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 52.000

CONC. OF ' K ' = 2.000

CONC. OF ' NA ' = 20.000

CONC. OF ' SiO2 ' = 38.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 240.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.770E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.387E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 89.4

QTZ TEMP. (ADIABATIC) = 91.8

AM. SILICA TEMP. = -24.5

CHALCEDONT TEMP. = 58.6

CRISTOBALITE TEMP. = 39.3

LOG(NA/K) TEMP. = 183.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 137.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.6

14204

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 54.000

CONC. OF ' K ' = 2.000

CONC. OF ' NA ' = 20.000

CONC. OF ' SiO2 ' = 30.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 227.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.772E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.398E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 79.4

QTZ TEMP. (ADIABATIC) = 83.0

AM. SILICA TEMP. = -32.9

CHALCEDONT TEMP. = 48.0

CRISTOBALITE TEMP. = 29.6

LOG(NA/K) TEMP. = 183.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 137.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 19.0

14205

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 2.600
CONC. OF ' K ' = 0.900

CONC. OF ' NA ' = 67.000
CONC. OF ' SI02 ' = 66.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 205.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.250E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.691E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 115.2

QTZ TEMP. (ADIABATIC) = 114.1

AM. SILICA TEMP. = -2.5

CHALCEDONT TEMP. = 86.4

CRISTOBALITE TEMP. = 64.6

LOG(NA/K) TEMP. = 28.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 93.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 69.8

14206

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 56.000
CONC. OF ' K ' = 2.500

CONC. OF ' NA ' = 20.000
CONC. OF ' SI02 ' = 21.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 181.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.678E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.311E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 65.3

QTZ TEMP. (ADIABATIC) = 70.6

AM. SILICA TEMP. = -44.6

CHALCEDONT TEMP. = 33.3

CRISTOBALITE TEMP. = 16.0

LOG(NA/K) TEMP. = 211.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 147.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 23.5

1430

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 10.000 CONC. OF 'NA' = 140.000
 CONC. OF 'K' = 2.900 CONC. OF 'SiO2' = 22.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 393.000
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.068E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.481E+00

2

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 23.0
 QTZ TEMP. (ADIABATIC) = 91.8
 AM. SILICA TEMP. = -34.1
 CHALCEDONT TEMP. = 36.6
 CRISTOBALITE TEMP. = 28.3
 LOG(NA/K) TEMP. = 113.6
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 125.5
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 44.7

mg = 1.6 ppm

1430

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 96.000 CONC. OF 'NA' = 100.000
 CONC. OF 'K' = 4.900 CONC. OF 'SiO2' = 10.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 636.000
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.891E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.942E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 39.3
 QTZ TEMP. (ADIABATIC) = 47.3
 AM. SILICA TEMP. = -65.5
 CHALCEDONT TEMP. = 6.5
 CRISTOBALITE TEMP. = -8.6
 LOG(NA/K) TEMP. = 113.3
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 125.5
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 44.7

mg = 30 ppm

14302

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 71.000
CONC. OF 'K' = 2.800

CONC. OF 'NA' = 63.000
CONC. OF 'SI02' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 297.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.978E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.165E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 105.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 117.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 31.6

mg=13

14303

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 58.000
CONC. OF 'K' = 16.000

CONC. OF 'NA' = 390.000
CONC. OF 'SI02' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1318.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.734E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.085E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 39.6

CRISTOBALITE TEMP. = 21.8

LOG(NA/K) TEMP. = 99.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 141.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 187.7

mg=31

14304

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 320.000

CONC. OF 'K' = 5.000

CONC. OF 'NA' = 440.000

CONC. OF 'SiO2' = 55.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 2400.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.398E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.067E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 105.3

QTZ TEMP. (ADIABATIC) = 106.4

AM. SILICA TEMP. = -10.2

CHALCEDONT TEMP. = 76.7

CRISTOBALITE TEMP. = 55.8

LOG(NA/K) TEMP. = 20.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 31.9

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 37.7

mg = 120

14305

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 11.000

CONC. OF 'K' = 2.600

CONC. OF 'NA' = 140.000

CONC. OF 'SiO2' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 375.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.107E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.541E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = 46.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 105.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 71.3

mg = .2

14306

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 3.500
CONC. OF 'K' = 4.200

CONC. OF 'NA' = 140.000
CONC. OF 'SI02' = 13.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 300.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.816E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.001E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 48.0

QTZ TEMP. (ADIABATIC) = 55.1

AM. SILICA TEMP. = -58.5

CHALCEDONT TEMP. = 15.4

CRISTOBALITE TEMP. = -0.4

LOG(NA/K) TEMP. = 76.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 133.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 115.2 mg = 1.6

14307

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 300.000
CONC. OF 'K' = 28.000

CONC. OF 'NA' = 2500.000
CONC. OF 'SI02' = 710.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 26630.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.679E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.994E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 286.5

QTZ TEMP. (ADIABATIC) = 251.9

AM. SILICA TEMP. = 164.7

CHALCEDONT TEMP. = 233.1

CRISTOBALITE TEMP. = 245.2

LOG(NA/K) TEMP. = -43.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 61.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 115.8 mg = 140

14389

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 35.000

CONC. OF 'K' = 15.000

CONC. OF 'NA' = 370.000

CONC. OF 'SiO2' = 29.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1057.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.710E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.982E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 78.0

QTZ TEMP. (ADIABATIC) = 81.8

AM. SILICA TEMP. = -34.1

CHALCEDONT TEMP. = 46.6

CRISTOBALITE TEMP. = 28.9

LOG(NA/K) TEMP. = 98.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 143.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 116.9

mg = 33

14389

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 2200.000

CONC. OF 'K' = 100.000

CONC. OF 'NA' = 4000.000

CONC. OF 'SiO2' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 16781.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.875E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.000E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 64.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 127.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 115.3

mg = 25

14310

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 400.000

CONC. OF 'NA' = 1100.000

CONC. OF 'K' = 19.000

CONC. OF 'SiO2' = 47.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 4478.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.100E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.418E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.9

QTZ TEMP. (ADIABATIC) = 100.1

AM. SILICA TEMP. = -16.5

CHALCEDONT TEMP. = 68.8

CRISTOBALITE TEMP. = 48.6

LOG(NA/K) TEMP. = 42.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 106.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 80.4

mg = 3.4

14311

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 18.000

CONC. OF 'NA' = 29.000

CONC. OF 'K' = 2.780

CONC. OF 'SiO2' = 27.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 290.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.995E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.733E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 75.1

QTZ TEMP. (ADIABATIC) = 79.3

AM. SILICA TEMP. = -36.5

CHALCEDONT TEMP. = 43.5

CRISTOBALITE TEMP. = 25.5

LOG(NA/K) TEMP. = 77.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 58.0

mg = 10

CONCENTRATION UNITS = PPM
CONC. OF 'CA' = 5.400
CONC. OF 'K' = 17.000

CONC. OF 'NA' = 760.000
CONC. OF 'SI02' = 43.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1831.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.729E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.274E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 94.9
QTZ TEMP. (ADIABATIC) = 96.8
AM. SILICA TEMP. = -19.9
CHALCEDONT TEMP. = 64.5
CRISTOBALITE TEMP. = 44.7
LOG(NA/K) TEMP. = 57.3
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 141.8
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 195.5

mg = 3.3

14313

CONCENTRATION UNITS = PPM
CONC. OF 'CA' = 600.000
CONC. OF 'K' = 140.000

CONC. OF 'NA' = 4000.000
CONC. OF 'SI02' = 190.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 13685.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.635E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.479E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 176.3
QTZ TEMP. (ADIABATIC) = 165.3
AM. SILICA TEMP. = 53.0
CHALCEDONT TEMP. = 154.8
CRISTOBALITE TEMP. = 126.6
LOG(NA/K) TEMP. = 87.1
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 151.9
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 169.7

mg = 23

14314

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 310.000 CONC. OF 'NA' = 800.000
 CONC. OF 'K' = 10.000 CONC. OF 'SiO2' = 21.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 3816.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.268E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.670E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA
 QTZ TEMP. (CONDUCTIVE) = 65.3
 QTZ TEMP. (ADIABATIC) = 70.6
 AM. SILICA TEMP. = -44.6
 CHALCEDONT TEMP. = 33.3
 CRISTOBALITE TEMP. = 16.0
 LOG(NA/K) TEMP. = 25.3
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 92.2
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 62.3

mg = 100

14320

CONCENTRATION UNITS = PPM
 CONC. OF 'CA' = 250.000 CONC. OF 'NA' = 560.000
 CONC. OF 'K' = 18.000 CONC. OF 'SiO2' = 37.000
 DENSITY = 1.00000 TOTAL DISSOLVED SOLIDS = 2278.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.894E+00
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.404E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA
 QTZ TEMP. (CONDUCTIVE) = 38.3
 QTZ TEMP. (ADIABATIC) = 90.8
 AM. SILICA TEMP. = -25.5
 CHALCEDONT TEMP. = 57.4
 CRISTOBALITE TEMP. = 38.2
 LOG(NA/K) TEMP. = 81.1
 LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 125.3
 LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 81.5

mg = 18

14321

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 43.000
CONC. OF 'K' = 5.100

CONC. OF 'NA' = 230.000
CONC. OF 'SiO2' = 19.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 927.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.113E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.543E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 61.5
QTZ TEMP. (ADIABATIC) = 67.2

AM. SILICA TEMP. = -47.6

CHALCEDONT TEMP. = 29.4

CRISTOBALITE TEMP. = 12.5

LOG(NA/K) TEMP. = 45.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 105.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 71.2

mg = 2.8

14322

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 15.000
CONC. OF 'K' = 3.600

CONC. OF 'NA' = 140.000
CONC. OF 'SiO2' = 28.000

DENSITY = \$\$\$\$\$\$

TOTAL DISSOLVED SOLIDS = 414.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.988E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.490E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 75.6
QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 66.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 116.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 75.1

mg = .3

14323

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 16.000

CONC. OF 'NA' = 160.000

CONC. OF 'K' = 1.100

CONC. OF 'SiO2' = 23.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 550.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.546E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.004E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 68.8

QTZ TEMP. (ADIABATIC) = 73.7

AM. SILICA TEMP. = -41.7

CHALCEDONT TEMP. = 36.9

CRISTOBALITE TEMP. = 19.4

LOG(NA/K) TEMP. = -1.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 71.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 40.9

Mg = .1

14324

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 28.000

CONC. OF 'NA' = 240.000

CONC. OF 'K' = 1.200

CONC. OF 'SiO2' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 745.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.666E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.069E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -40.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = -14.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 62.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 37.6

Mg = 1.6

14325

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 4.900

CONC. OF ' NA ' = 140.000

CONC. OF ' K ' = 1.200

CONC. OF ' SiO2 ' = 24.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 387.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.384E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.643E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 70.4

QTZ TEMP. (ADIABATIC) = 75.1

AM. SILICA TEMP. = -48.3

CHALCEDONT TEMP. = 38.6

CRISTOBALITE TEMP. = 21.0

LOG(NA/K) TEMP. = 7.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 83.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 64.1

mg = .1

14326

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 9.000

CONC. OF ' NA ' = 160.000

CONC. OF ' K ' = 2.500

CONC. OF ' SiO2 ' = 22.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 435.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.148E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.481E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 67.1

QTZ TEMP. (ADIABATIC) = 72.2

AM. SILICA TEMP. = -43.1

CHALCEDONT TEMP. = 35.1

CRISTOBALITE TEMP. = 17.7

LOG(NA/K) TEMP. = 36.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 102.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 75.7

mg = .2

14327

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 12.000
CONC. OF 'K' = 2.800

CONC. OF 'NA' = 170.000
CONC. OF 'SiO2' = 21.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 455.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.137E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.506E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 65.2

QTZ TEMP. (ADIABATIC) = 70.6

AM. SILICA TEMP. = -44.6

CHALCEDONT TEMP. = 33.3

CRISTOBALITE TEMP. = 16.0

LOG(NA/K) TEMP. = 39.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 100.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 73.9

mg = -5

14328

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 10.000
CONC. OF 'K' = 2.600

CONC. OF 'NA' = 200.000
CONC. OF 'SiO2' = 18.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 526.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.203E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.462E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 59.2

QTZ TEMP. (ADIABATIC) = 65.5

AM. SILICA TEMP. = -49.3

CHALCEDONT TEMP. = 27.3

CRISTOBALITE TEMP. = 10.5

LOG(NA/K) TEMP. = 27.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 97.5

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 77.1

mg = 8

14329

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 540.000

CONC. OF ' NA ' = 1200.000

CONC. OF ' K ' = 22.000

CONC. OF ' SiO2 ' = 28.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 4644.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.093E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.429E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 76.6

QTZ TEMP. (ADIABATIC) = 80.6

AM. SILICA TEMP. = -35.3

CHALCEDONT TEMP. = 45.1

CRISTOBALITE TEMP. = 26.9

LOG(NA/K) TEMP. = 45.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 107.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 79.6

mg = 7.9

14330

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 42.000

CONC. OF ' NA ' = 230.000

CONC. OF ' K ' = 8.700

CONC. OF ' SiO2 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 806.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.823E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.333E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 92.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 132.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 87.0

mg = 3.7

14331

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 44.000

CONC. OF ' K ' = 5.600

CONC. OF ' NA ' = 44.000

CONC. OF ' SiO2 ' = 35.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 264.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.539E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.777E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 85.9

QTZ TEMP. (ADIABATIC) = 88.7

AM. SILICA TEMP. = -27.5

CHALCEDONT TEMP. = 54.9

CRISTOBALITE TEMP. = 35.9

LOG(NA/K) TEMP. = 213.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 162.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 55.1

meq=15

14359

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 31.000

CONC. OF ' K ' = 12.000

CONC. OF ' NA ' = 260.000

CONC. OF ' SiO2 ' = 51.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 354.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.697E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.087E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 102.7

QTZ TEMP. (ADIABATIC) = 103.3

AM. SILICA TEMP. = -13.2

CHALCEDONT TEMP. = 72.9

CRISTOBALITE TEMP. = 52.3

LOG(NA/K) TEMP. = 108.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 145.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 107.5

meq=38

CALIF. 14332

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 92.000
CONC. OF 'K' = 30.000

CONC. OF 'NA' = 280.000
CONC. OF 'SI02' = 56.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 849.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.399E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.994E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 107.2
QTZ TEMP. (ADIABATIC) = 107.2

AM. SILICA TEMP. = -9.4
CHALCEDONT TEMP. = 77.6

CRISTOBALITE TEMP. = 56.7

LOG(NA/K) TEMP. = 191.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 179.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 115.9

14333

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 22.000
CONC. OF 'K' = 5.600

CONC. OF 'NA' = 90.000
CONC. OF 'SI02' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 283.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.696E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.473E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.6
QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6
CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

LOG(NA/K) TEMP. = 134.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 145.3

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 76.3

14334

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 23.000

CONC. OF ' K ' = 7.400

CONC. OF ' NA ' = 390.000

CONC. OF ' SiO2 ' = 42.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1225.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.002E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.152E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8

QTZ TEMP. (ADIABATIC) = 95.7

AM. SILICA TEMP. = -20.8

CHALCEDONT TEMP. = 63.4

CRISTOBALITE TEMP. = 43.6

LOG(NA/K) TEMP. = 47.6

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 115.1

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 101.8

14335

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 20.000

CONC. OF ' K ' = 5.500

CONC. OF ' NA ' = 200.000

CONC. OF ' SiO2 ' = 20.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 662.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.928E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.337E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 63.4

QTZ TEMP. (ADIABATIC) = 68.9

AM. SILICA TEMP. = -46.1

CHALCEDONT TEMP. = 31.4

CRISTOBALITE TEMP. = 14.3

LOG(NA/K) TEMP. = 70.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 122.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 86.7

14336

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000

CONC. OF ' K ' = 1.300

CONC. OF ' NA ' = 34.000

CONC. OF ' SiO2 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 662.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.025E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.156E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 93.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 113.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 32.1

14336

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 16.000

CONC. OF ' K ' = 1.300

CONC. OF ' NA ' = 34.000

CONC. OF ' SiO2 ' = 26.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 762.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.025E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 3.156E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 73.6

QTZ TEMP. (ADIABATIC) = 77.9

AM. SILICA TEMP. = -37.7

CHALCEDONT TEMP. = 42.0

CRISTOBALITE TEMP. = 24.0

LOG(NA/K) TEMP. = 93.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 113.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 32.1

14337

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 28.000

CONC. OF 'K' = 3.800

CONC. OF 'NA' = 180.000

CONC. OF 'SI02' = 20.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 647.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 2.082E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.610E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 63.4

QTZ TEMP. (ADIABATIC) = 68.9

AM. SILICA TEMP. = -46.1

CHALCEDONT TEMP. = 31.4

CRISTOBALITE TEMP. = 14.3

LOG(NA/K) TEMP. = 53.8

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 107.9

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 66.4

14338

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 8.600

CONC. OF 'K' = 5.200

CONC. OF 'NA' = 210.000

CONC. OF 'SI02' = 76.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 703.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.905E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.110E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 122.4

QTZ TEMP. (ADIABATIC) = 120.2

AM. SILICA TEMP. = 3.8

CHALCEDONT TEMP. = 94.2

CRISTOBALITE TEMP. = 71.8

LOG(NA/K) TEMP. = 63.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 124.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 105.4

14339

CONCENTRATION UNITS = PPM
CONC. OF 'CA' = 23.000
CONC. OF 'K' = 5.700

CONC. OF 'NA' = 68.000
CONC. OF 'SI02' = 42.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 944.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.610E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.518E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 93.8
QTZ TEMP. (ADIABATIC) = 95.7
AM. SILICA TEMP. = -20.8
CHALCEDONT TEMP. = 63.4
CRISTOBALITE TEMP. = 43.6
LOG(NA/K) TEMP. = 164.0
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 154.6
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 73.0

14340

CONCENTRATION UNITS = PPM
CONC. OF 'CA' = 38.000
CONC. OF 'K' = 21.000

CONC. OF 'NA' = 230.000
CONC. OF 'SI02' = 44.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 753.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.433E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.921E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 95.9
QTZ TEMP. (ADIABATIC) = 97.5
AM. SILICA TEMP. = -19.0
CHALCEDONT TEMP. = 65.6
CRISTOBALITE TEMP. = 45.7
LOG(NA/K) TEMP. = 173.3
LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 175.3
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 122.7

14351

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 56.000

CONC. OF 'K' = 13.000

CONC. OF 'NA' = 520.000

CONC. OF 'SI02' = 47.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1830.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.905E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.123E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.9

QTZ TEMP. (ADIABATIC) = 100.1

AM. SILICA TEMP. = -16.5

CHALCEDONT TEMP. = 68.8

CRISTOBALITE TEMP. = 48.6

LOG(NA/K) TEMP. = 64.3

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 124.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 104.3

mg=75

14352

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 25.000

CONC. OF 'K' = 32.000

CONC. OF 'NA' = 950.000

CONC. OF 'SI02' = 47.000

DENSITY = ****

TOTAL DISSOLVED SOLIDS = 2973.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.630E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.411E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 98.9

QTZ TEMP. (ADIABATIC) = 100.1

AM. SILICA TEMP. = -16.5

CHALCEDONT TEMP. = 68.8

CRISTOBALITE TEMP. = 48.6

LOG(NA/K) TEMP. = 84.4

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 152.4

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 178.0

mg=36

14353

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 22.000
CONC. OF 'K' = 11.000

CONC. OF 'NA' = 390.000
CONC. OF 'SI02' = 39.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 979.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.827E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.967E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 90.5

QTZ TEMP. (ADIABATIC) = 92.8

AM. SILICA TEMP. = -23.6

CHALCEDONT TEMP. = 59.9

CRISTOBALITE TEMP. = 40.4

LOG(NA/K) TEMP. = 72.1

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 131.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 118.3

mg = 1.1

14354

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 20.000
CONC. OF 'K' = 22.000

CONC. OF 'NA' = 370.000
CONC. OF 'SI02' = 40.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1097.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.594E+00
LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.646E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 91.7

QTZ TEMP. (ADIABATIC) = 93.8

AM. SILICA TEMP. = -22.6

CHALCEDONT TEMP. = 61.0

CRISTOBALITE TEMP. = 41.5

LOG(NA/K) TEMP. = 130.2

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 166.8

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 150.7

mg = 1.2

14355

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 4.200

CONC. OF ' K ' = 16.000

CONC. OF ' NA ' = 720.000

CONC. OF ' SI02 ' = 100.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1743.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.722E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.236E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 137.2

QTZ TEMP. (ADIABATIC) = 132.7

AM. SILICA TEMP. = 16.9

CHALCEDONT TEMP. = 110.5

CRISTOBALITE TEMP. = 86.6

LOG(NA/K) TEMP. = 56.9

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 142.6

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 200.7

mg = 2.0

14356

CONCENTRATION UNITS = PPM

CONC. OF ' CA ' = 23.000

CONC. OF ' K ' = 21.000

CONC. OF ' NA ' = 130.000

CONC. OF ' SI02 ' = 71.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 446.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.231E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 1.858E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 118.9

QTZ TEMP. (ADIABATIC) = 117.2

AM. SILICA TEMP. = 0.8

CHALCEDONT TEMP. = 90.4

CRISTOBALITE TEMP. = 68.3

LOG(NA/K) TEMP. = 247.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 201.2

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 128.7

mg = 2.5

14357

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 44.000

CONC. OF 'NA' = 95.000

CONC. OF 'K' = 15.000

CONC. OF 'SiO2' = 50.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 427.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.334E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.238E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 101.8

QTZ TEMP. (ADIABATIC) = 102.5

AM. SILICA TEMP. = -14.0

CHALCEDONT TEMP. = 71.9

CRISTOBALITE TEMP. = 51.4

LOG(NA/K) TEMP. = 244.0

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 187.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 94.7

mg = 3.5

14358

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 0.500

CONC. OF 'NA' = 720.000

CONC. OF 'K' = 8.000

CONC. OF 'SiO2' = 110.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 1297.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.869E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 9.208E-01

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 142.0

QTZ TEMP. (ADIABATIC) = 137.2

AM. SILICA TEMP. = 21.8

CHALCEDONT TEMP. = 116.5

CRISTOBALITE TEMP. = 92.0

LOG(NA/K) TEMP. = 13.5

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 127.7

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 247.9

mg = .1

CONCENTRATION UNITS = PPM

CONC. OF 'CA' = 4.800

CONC. OF 'NA' = 140.000

CONC. OF 'K' = 3.100

CONC. OF 'SI02' = 200.000

DENSITY = 1.00000

TOTAL DISSOLVED SOLIDS = 453.000

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) = 1.970E+00

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) = 2.225E+00

SUBSURFACE TEMPERATURE (DEG. C) FROM CHEMICAL DATA

QTZ TEMP. (CONDUCTIVE) = 179.9

QTZ TEMP. (ADIABATIC) = 168.1

AM. SILICA TEMP. = 56.3

CHALCEDONT TEMP. = 158.0

CRISTOBALITE TEMP. = 138.2

LOG(NA/K) TEMP. = 56.7

LOG(NA/K) + 1/3LOG(SQRT(CA)/NA) TEMP. = 118.0

LOG(NA/K) + 4/3LOG(SQRT(CA)/NA) TEMP. = 95.7

mg = 5.8