

TEC-25

AMAX EXPLORATION, INC.

TEMPERATURE/DEPTH LOG

1186-33

AT Well No. 21-30

Property-Project ALUM Depth Logged 605m  
 Map SILVER PK Scale 15 Date: Drilled 11-16-82 Logged 4-14-83  
 State NV County ESM of      of NW of NW of Sec 30 T 1 N R 38 1/2 E  
 Instrument SPA-103 Operator JED Elevation 4960 (ft/m)  
 Comments 2" H<sub>2</sub>O FILLED STEEL PIPE - FINAL LOG - 149 DAYS AFTER COMPLETION

Date Logged

JUSTIFY

Proj No	Well No	DA	MO	YR	*
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
1186	3314	04	11	82	C.M.

\*19-Write F if Fahrenheit, 20-Write F if Feet

Card A

Site Description	Operator	Editor	DA	MO	YR
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68
1.5 MI W-NW OF ALUM MINE	JED	JED	16	11	82

(Approx. location, water well?, oil test?, etc.)

Map Location \* \*

Scale Unit	Map Size	N Lat	W Long
IN	(7.5, 15, 60)	Degree	Min Degree Min **
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
CM	15.0	117.45.0	37.45.0

Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W-)(E,+)

Use decimals

Northing Easting Elev

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
	29.85	8.354960

Write M if meters

Use decimals

Segment 1 = Depths

Start	End	K	ΔK
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
10.0	185.0	-5.0	-0.5

Best cond. (-K)

Downward extrapolation (-ΔK)

Segment 2	Segment 3
Start	Start
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
185.0	440.0

440.0	600.0
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Segment 4
Start
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
.999

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Segment 6
Start
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

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Segment 8
Start
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

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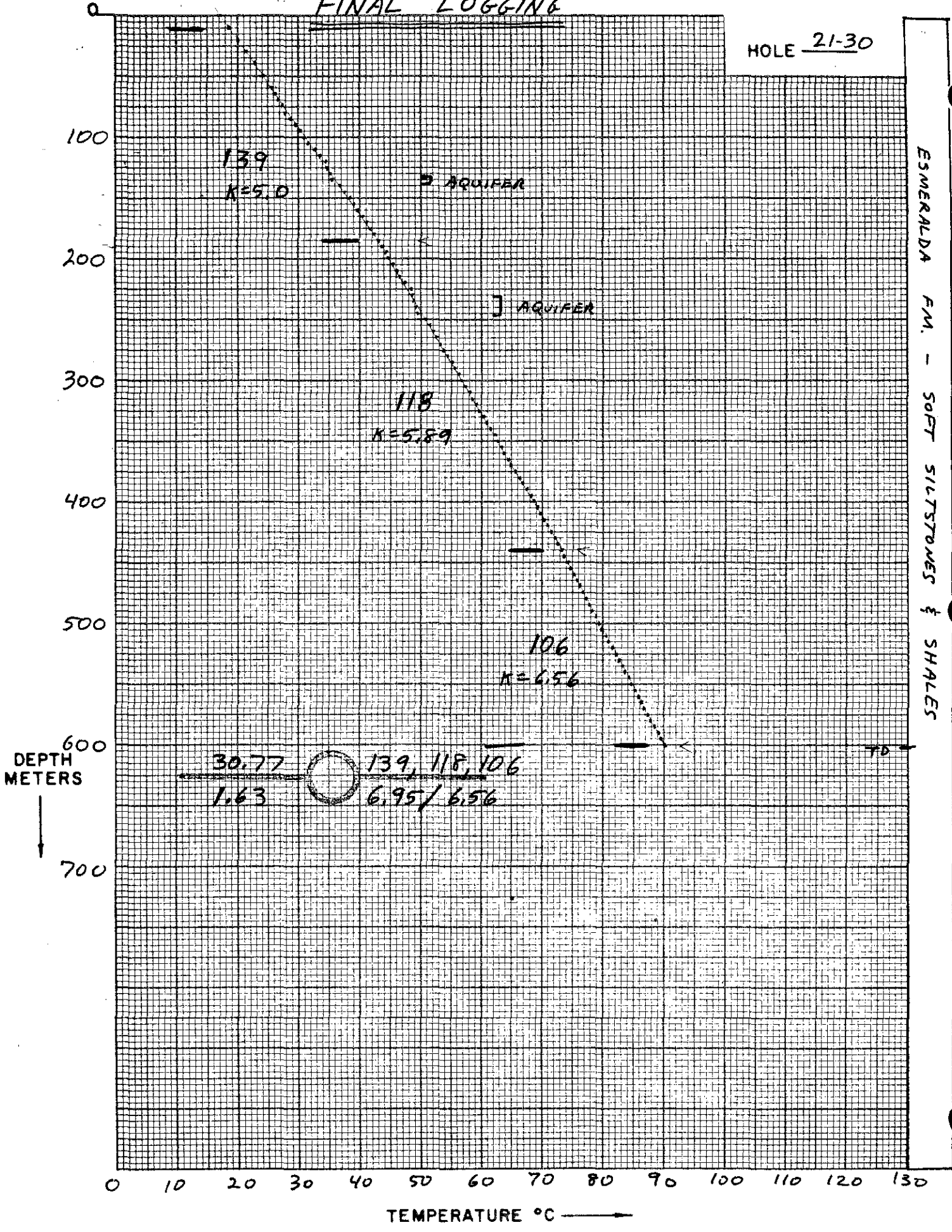
Segment 10
Start
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

After final segment Start = .999

FINAL LOGGING

HOLE 21-30

ESMERALDA FM. - SOFT SILTSTONES & SHALES



Date Logged: 4-14-83AT Well No. 21-30

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
10	110.32	18.70				AIR	
20	105.31	20.02	1.32			↓	
30	100.53	21.32	1.30				
40	94.91	22.92	1.60				
50	90.85	24.13	1.21				
60	85.80	25.69	1.56				
65	84.56	26.09	0.40				H <sub>2</sub> O
70	82.30	26.83	0.74			↓	CABLE .0980 LEAK —
75	80.50	27.43	0.60				
80	78.87	27.98	0.55				
85	76.81	28.70	0.72				
90	74.61	29.48	0.78				
95	72.89	30.11	0.63				
100	71.13	30.77	0.66				CABLE .0983 LEAK —
105	68.55	31.76	0.99				
110	65.74	32.88	0.88				
115	64.26	33.49	0.61				
120	62.38	34.31	0.82				
125	61.41	34.71	0.40				
130	60.59	35.06	0.35				
135	59.63	35.49	0.43				
140	56.42	36.97	1.48				
145	54.98	37.65	0.68				
150	53.62	38.32	0.67				
155	52.27	39.00	0.68				
160	50.92	39.70	0.70				
165	49.62	40.39	0.69				

K=Conductivity

Date Logged: 4-14-83ΔT Well No. 21-30

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
170	48.43	41.03	0.64				
175	47.22	41.71	0.68				
180	46.10	42.35	0.64				
185	44.95	43.02	0.67				
190	43.87	43.67	0.65				
195	42.87	44.29	0.62				
200	41.92	44.88	0.59				CABLE .0998 LEAK —
205	41.00	45.48	0.60				
210	40.18	46.02	0.54				
215	39.32	46.60	0.58				
220	38.40	47.24	0.64				
225	36.72	48.44	1.20				
230	36.43	48.65	0.21				
235	36.05	48.93	0.28				
240	35.78	49.14	0.21				
245	35.42	49.41	0.27				
250	33.63	50.81	1.40				
255	32.90	51.40	0.59				
260	32.16	52.01	0.61				
265	31.45	52.62	0.61				
270	30.79	53.20	0.58				
275	30.10	53.81	0.61				
280	29.42	54.43	0.62				
285	28.79	55.02	0.59				
290	28.16	55.63	0.61				
295	27.57	56.21	0.58				
300	27.01	56.77	0.56				CABLE .1018 LEAK —

K=Conductivity

Date Logged: 4-14-83ΔT Well No. 21-30

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
305	26.43	57.37	0.60				
			0.64				
310	25.82	58.01					
			0.57				
315	25.29	58.58					
			0.59				
320	24.75	59.17					
			0.57				
325	24.25	59.74					
			0.60				
330	23.73	60.34					
			0.58				
335	23.24	60.92					
			0.58				
340	22.76	61.50					
			0.68				
345	22.21	62.18					
			0.63				
350	21.72	62.81					
			0.59				
355	21.26	63.40					
			0.48				
360	20.90	63.88					
			0.78				
365	20.33	64.66					
			0.32				
370	20.10	64.98					
			0.79				
375	19.547	65.77					
			0.47				
380	19.222	66.24					
			0.67				
385	18.771	66.91					
			0.53				
390	18.423	67.44					
			0.70				
395	17.976	68.14					
			0.55				CARBON .1046
400	17.636	68.69					LEAK —
			0.62				
405	17.260	69.31					
			0.56				
410	16.924	69.87					
			0.52				
415	16.620	70.39					
			0.55				
420	16.302	70.94					
			0.53				
425	16.010	71.47					
			0.56				
430	15.699	72.03					
			0.56				
435	15.401	72.59					

K=Conductivity

Date Logged: 4-14-83

AT Well No. 21-30

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
440	15.124	73.11	0.52				
			0.68				
445	14.830	73.69	0.53				
450	14.561	74.22	0.51				
455	14.307	74.73	0.49				
460	14.070	75.22	0.52				
465	13.825	75.74	0.55				
470	13.570	76.29	0.53				
475	13.328	76.82	0.48				
480	13.111	77.30	0.59				
485	12.852	77.89	0.42				
490	12.674	78.31	0.60				
495	12.420	78.91	0.40				
500	12.222	79.39	0.49				CABLE .1078 LEAK —
505	12.021	79.88	0.52				
510	11.814	80.40	0.55				
515	11.600	80.95	0.54				
520	11.393	81.49	0.54				
525	11.194	82.03	0.50				
530	11.009	82.53	0.54				
535	10.815	83.07	0.52				
540	10.630	83.59	0.58				
545	10.430	84.17	0.51				
550	10.256	84.68	0.55				
555	10.074	85.23	0.51				
560	9.907	85.74	0.57				
565	9.727	86.31	0.53				
570	9.559	86.84					

K=Conductivity



AMAX EXPLORATION, INC.  
TEMPERATURE/DEPTH LOG

ΔT Well No. 21-30

Property-Project ALUM

Depth Logged 602 m

Map Silver Pk Scale 15"

Date: Drilled 11/16/82 : Logged 12/10/82

State NV County Esm of of of of Sec T R

Instrument SPA -103 Operator JED Elevation (ft/m)

Comments PRELIMINARY LOG

Date Logged

JUSTIFY

Proj No	Well No	DA	MO	YR	*
1-10	11-20	1	2	3	4

\*19-Write F if Fahrenheit, 20-Write F if Feet

Site Description	Operator	Editor	DA	MO	YR
21-30	31-40	41-50	51-60	61-70	71-80

(Approx. location, water well?, oil test?, etc.)

Card B

Scale Unit	Map Size	N Lat	Map Location	W Long
IN CM	(7.5, 15, 60)	Degree Min	Degree Min	Degree Min
21-30	31-40	41-50	51-60	61-70

Use decimals

Measure from SW corner of map; except AMS sheets measure from bottom center degree mark (W,-)(E,+)

Northing	Easting	Elev
31-40	41-50	51-60

Use decimals

Write M if meters

Segment 1 = Depths	Conductivity	Best cond. (-K)
Start	End	End
21-30	31-40	41-50

Segment 2

51-60	61-70	71-80
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Segment 3

21-30	31-40	41-50
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Segment 4

21-30	31-40	41-50
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Segment 5

21-30	31-40	41-50
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Segment 6

21-30	31-40	41-50
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Segment 7

21-30	31-40	41-50
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Segment 8

21-30	31-40	41-50
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Segment 9

21-30	31-40	41-50
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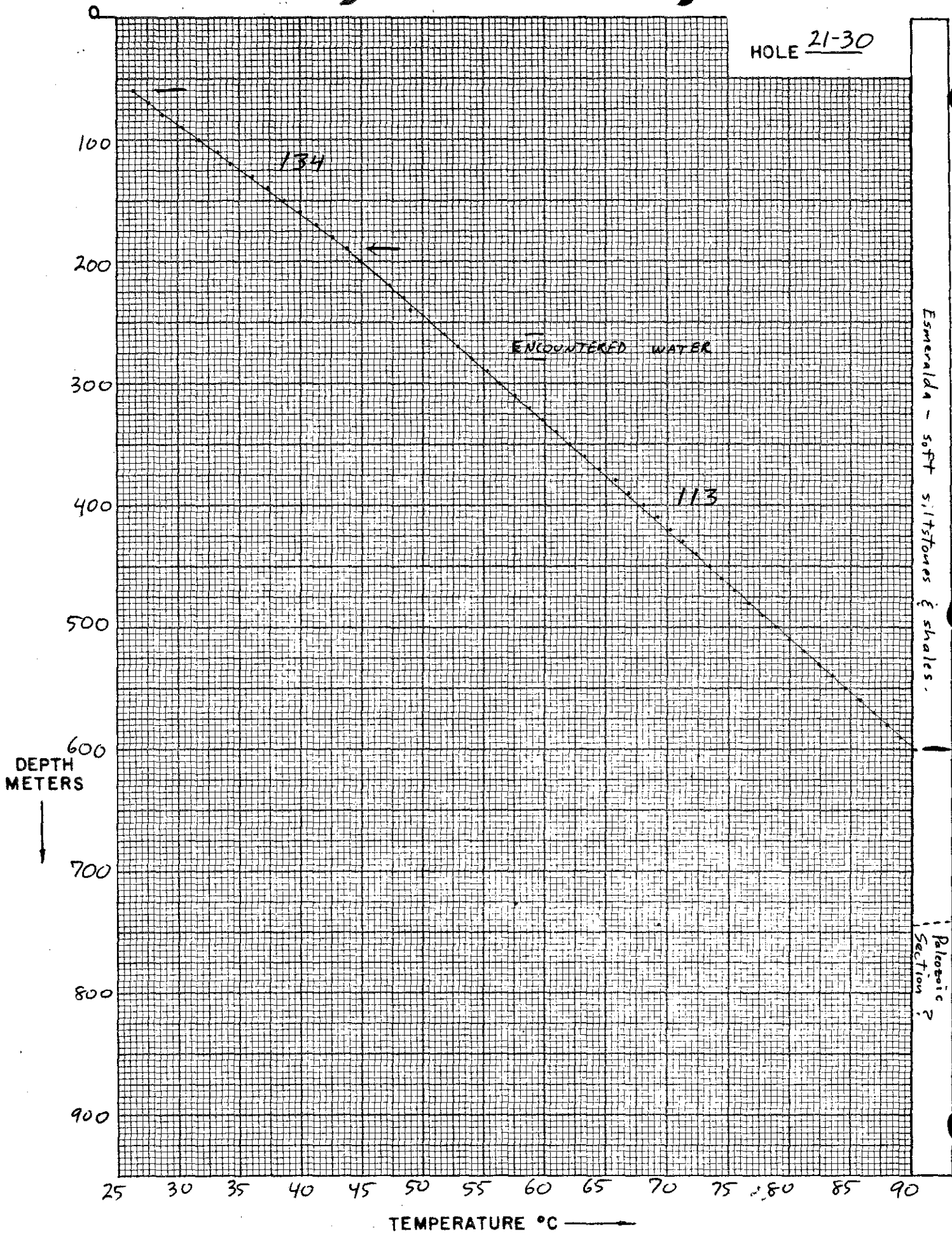
Segment 10

51-60	61-70	71-80
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After final segment Start = .999



HOLE 21-30



CABLE-0897  
LEAK

Date Logged: 12/10/82

AT Well No. 21-30

Probe # 103

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
60	82.98	26.61	1.29	129			
70	79.11	27.90	1.18	118			
80	75.73	29.08	1.56	156			
90	71.47	30.64	1.22	122			
100	68.30	31.86	1.72	172			
110	64.06	33.58	1.00	100			
120	61.71	34.58	1.75	175			
130	57.79	36.33	1.25	125			
140	55.13	37.58	1.29	129			
150	52.54	38.87	1.32	132			
160	49.99	40.19	1.27	127			
170	47.66	41.46	1.29	129			
180	45.42	42.75	1.22	122			
190	43.38	43.97	1.14	114			
200	41.57	45.11	1.06	106			
210	39.96	46.17	1.26	126			
220	38.13	47.43	1.19	119			
230	36.47	48.62	0.46	46			
240	35.85	49.08	1.67	167			
250	33.70	50.75	1.16	116			
260	32.29	51.91	1.14	114			
270	30.95	53.05	1.19	119			
280	29.63	54.24	1.16	116			
290	28.40	55.40	1.08	108			
300	27.30	56.48	1.18	118			
310	26.15	57.66	1.17	117			
320	25.06	58.83					

K=Conductivity

Date Logged: \_\_\_\_\_

AT Well No. 21-30

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Grad. °C/km	K (Est.)	H <sub>2</sub> O Air	Lithology, etc.
330	24.09	59.92	1.09	109			
340	23.10	61.09	1.17	117			
350	22.17	62.23	1.14	114			
360	21.26	63.40	1.17	117			
370	20.36	64.62	1.22	122			
380	19.4.80	65.86	1.24	124			
390	18.7.43	66.95	1.09	109			
400	17.9.88	68.12	1.17	117			
410	17.2.82	69.27	1.15	115			
420	16.6.50	70.34	1.07	107			
430	16.0.50	71.39	1.05	105			
440	15.4.70	72.46	1.07	107			
450	14.8.68	73.61	1.15	115			
460	14.3.83	74.58	0.97	97			
470	13.8.97	75.59	1.01	101			
480	13.3.53	76.76	1.17	117			
490	12.8.52	77.89	1.13	113			
500	12.3.74	79.02	1.13	113			
510	11.9.29	80.11	1.09	109			
520	11.4.43	81.36	1.25	125			
530	11.0.16	82.51	1.15	115			
540	10.5.98	83.68	1.17	117			
550	10.2.09	84.82	1.14	114			
560	9.8.35	85.97	1.15	115			
570	9.4.67	87.14	1.17	117			
580	9.1.17	88.31	1.17	117			
590	8.7.87	89.46	1.15	115			

K=Conductivity

