

DRILL HOLE DATA SHEET

Hole Number: L-8

Type of Hole: Shallow thermal gradient well

Location: County Napa State California

Description SW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 24 Township 9N

Range 7W Meridian MDM Elevation 485'

Surface Ownership: Fee - John E. Hannan (620-3007)

Minerals Ownership: Fee - John E. Hannan (620-3007)

Date of: Spud in 8-15-75 Drilling Completed 8-15-75

Completion 9-2-75 Abandonment 3-26-76

Depth: Permitted 150 m Actual 307'

Drilling Information: Lith Log and Temperature/Depth Log attached

Water Encountered: None

Bond Number Agency Permit Number AMAX Permit Number

Federal		
State BND 2-02-60-14	N/A	CA-OG-2008
County N/A	U-467475	CA-NA-3001

Activity Date By Cost of Survey Support Cost

Drilled	8-15-75	Pitcher Drilling Company	
TG Logging	8-29-75	AMAX	

Total \_\_\_\_\_

LITHOLOGIC LOG

PROPERTY: LIVERMORE 8  
Section 24 T9N R7W

ELEVATION: 485'  
Drilled: 8-15-75

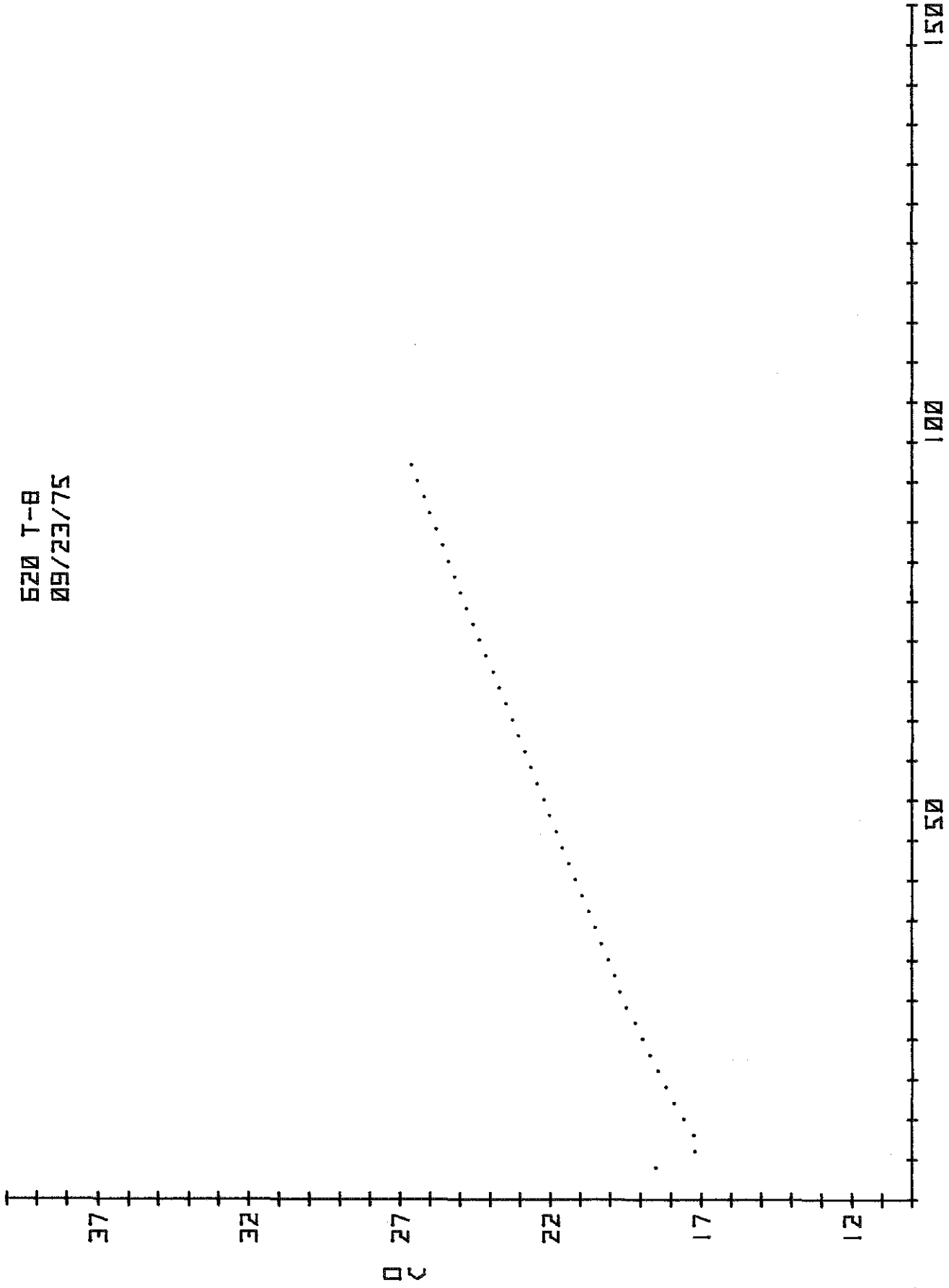
Feet	Description
0-15	Gravel with some boulders
15-25	Clay
26-32	Weathered rhyolite (possibly tuff)
32-307	Rhyolite-pyrite decreasing with depth - 179' (255-395 altered rhyolite)
	no water

*typed 8/1/77 from J. Neiga  
original handwritten log*

TEMPERATURE VS DEPTH LOG FOR WELL-520 T-8  
09/28/75 L-8

DEPTH METERS	TEMPERATURE DEGREES C	GRADIENT C/KM
4	18.515	-642.5
6	17.23	7.5
8	17.245	155
10	17.555	165
12	17.885	150
14	18.185	127.5
16	18.44	138
18	18.7	120
20	18.94	122.5
22	19.185	140
24	19.465	115
26	19.695	87.5
28	19.87	185
30	20.08	187.5
32	20.295	110
34	20.515	110
36	20.735	110
38	20.955	112.5
40	21.18	110
42	21.4	110
44	21.62	185
46	21.83	185
48	22.04	180
50	22.24	185
52	22.45	182.5
54	22.655	85
56	22.845	117.5
58	23.08	188
60	23.28	110
62	23.5	187.5
64	23.715	187.5
66	23.93	117.5
68	24.165	187.5
70	24.38	185
72	24.59	185
74	24.8	180
76	25	180
78	25.2	182.5
80	25.465	182.5
82	25.61	187.5
84	25.825	188.5
86	26.03	180
88	26.26	182.5
90	26.488	187.5
92	26.65	289.673919

520 T-8  
09/23/75



TEMPERATURE - DEPTH LOG

Location CALISTOGA CALIF Date 8/29/75

Map CALISTOGA CALIF

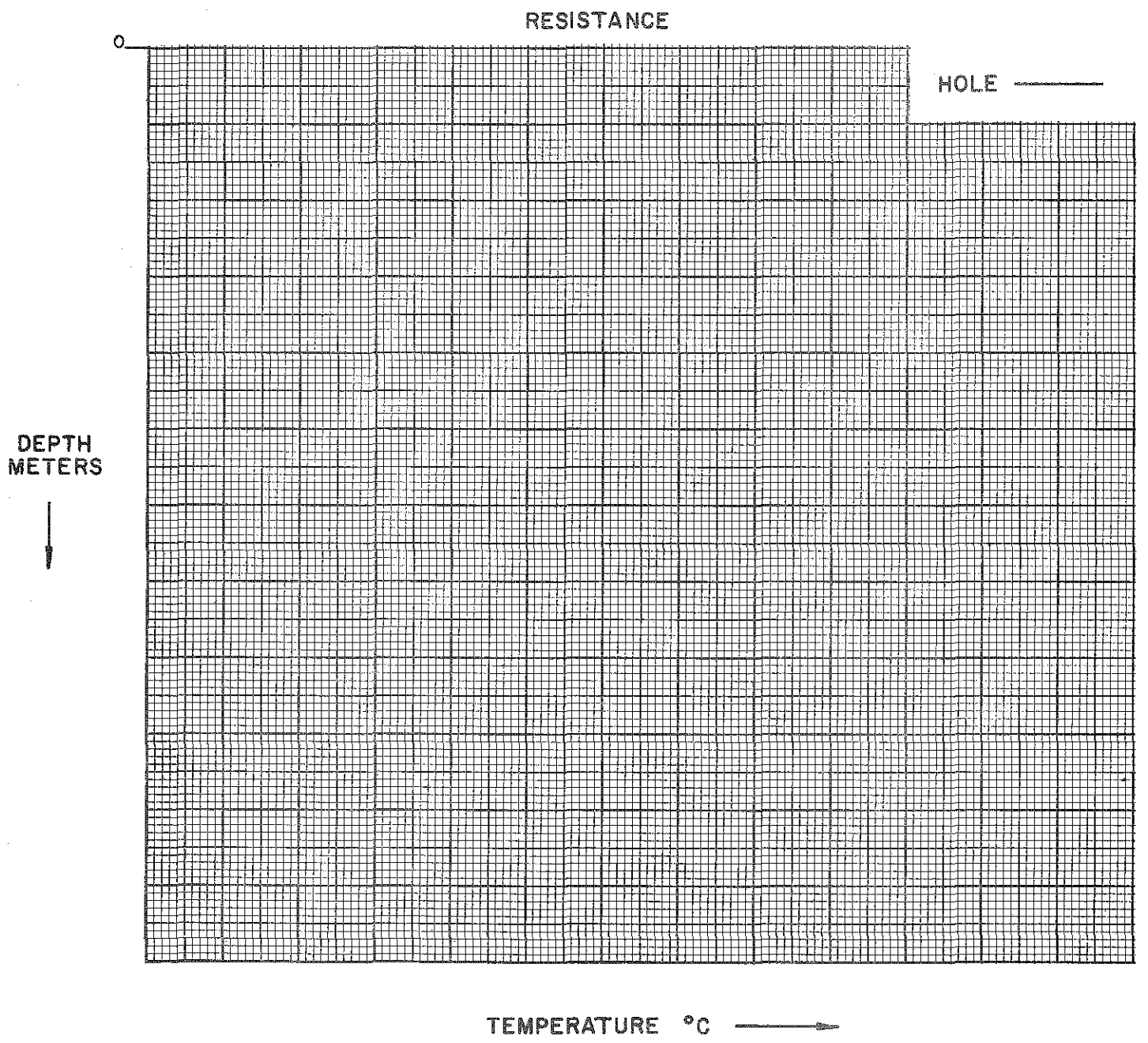
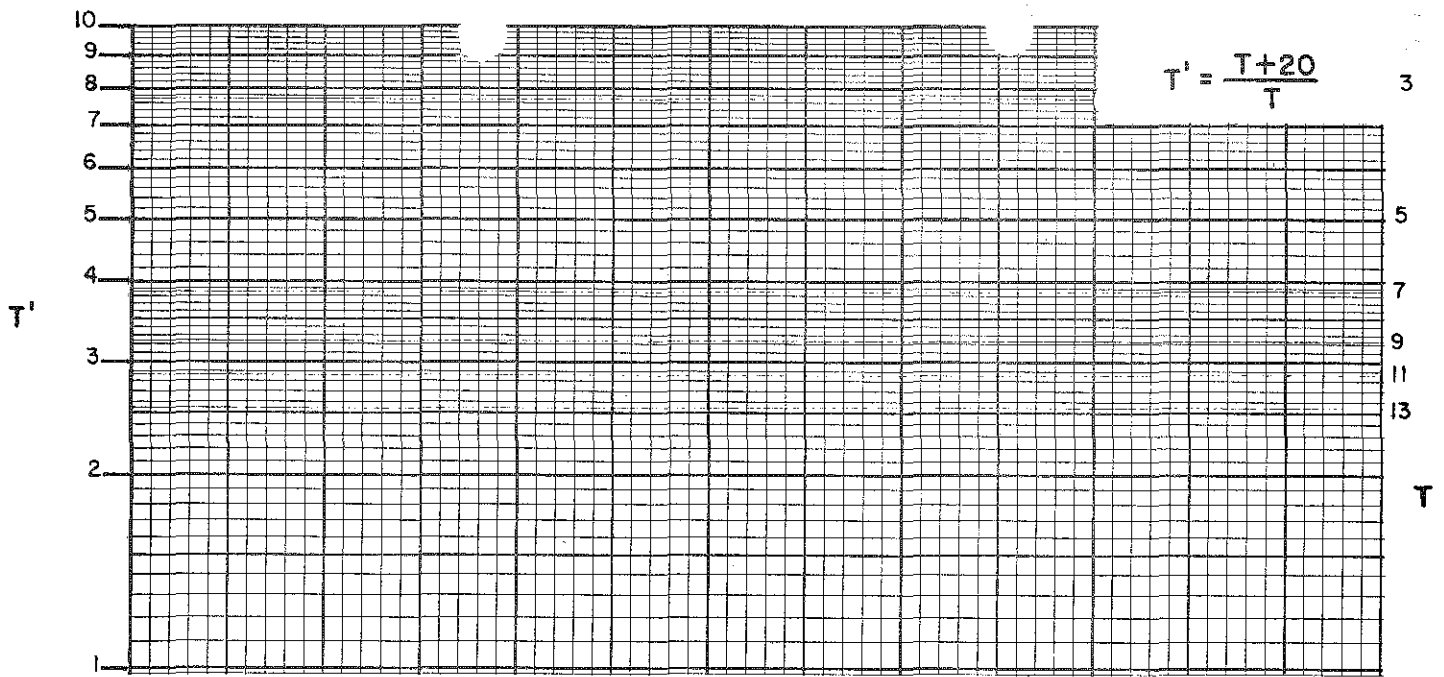
Property STERMORSE FUND T 9N R 7W sec 24

Drill Hole L-8 Date Drilled 8/15/75 Elevation 485 ft.

Instrument PROBE Operator SM

Comments \_\_\_\_\_

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
2					
4	4628	18.515			
6	4868	17.230		548.5	
8	4365	17.245		7.5	
10	4325	17.525		155	
12	4500	17.835		165	
14	4555	18.135		160	
16	4640	18.450		107.5	AVE FROM 16m TO 20m
18	4595	18.720		130	108.5
20	4750	18.940		120	
22	4800	19.195		103.5	
24	4460	19.465		140	
26	4720	19.695		115	
28	4390	19.870		87.5	
30	4355	20.070		105	
32	4319	20.235		107.5	
34	4380	20.515		110	
36	41046	20.725		110	
38	41810	20.955		110	
40	4174	21.150		112.5	
42	4139	21.400		110	



TEMPERATURE - DEPTH LOG

Location \_\_\_\_\_ Date \_\_\_\_\_

Map \_\_\_\_\_

Property \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ sec \_\_\_\_\_

Drill Hole A-8 Date Drilled \_\_\_\_\_ Elevation \_\_\_\_\_ ft.

Instrument \_\_\_\_\_ Operator \_\_\_\_\_

Comments \_\_\_\_\_

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
42	4104	21.620		110	
43	4071	21.830		105	
44	4039	22.040		105	
45	4008	22.240		100	
46	3976	22.450		105	
47	3945	22.655		102.5	
48	3917	22.845		95	
49	3882	23.080		103.5	
50	3853	23.280		100	
51	3821	23.500		110	
52	3790	23.715		107.5	
53	3759	23.930		107.5	
54	3726	24.165		107.5	
55	3696	24.380		107.5	
56	3667	24.590		105	
57	3638	24.800		105	
58	3611	25.000		100	
59	3584	25.200		100	
60	3557	25.405		102.5	
61	3520	25.610		102.5	
62	3502	25.825		107.5	

