

DRILL HOLE DATA SHEET

Hole Number: L-6

Type of Hole: Shallow thermal gradient well

Location: County Napa State California

Description SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 10 Township 9N

Range 6W Meridian MDM Elevation 1,680'

Surface Ownership: Fee - Norman B. Livermore (620-3024)

Minerals Ownership: Fee - Norman B. Livermore (620-3024)

Date of: Spud in 8-18-75 Drilling Completed 8-18-75

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

Depth: Permitted 150 m Actual 330'

Drilling Information: Lith Log and Temperature/Depth Log attached

Water Encountered: None

Bond Number Agency Permit Number AMAX Permit Number

Federal		
State <u>BND 2-02-60-14</u>	<u>N/A</u>	<u>CA-OG-2006</u>
County <u>N/A</u>	<u>U-467475</u>	<u>CA-NA-3001</u>

Activity	Date	By	Cost of Survey Support Cost
Drilled	8-18-75	Pitcher Drilling Company	
TG Logging	9-3-75	AMAX	

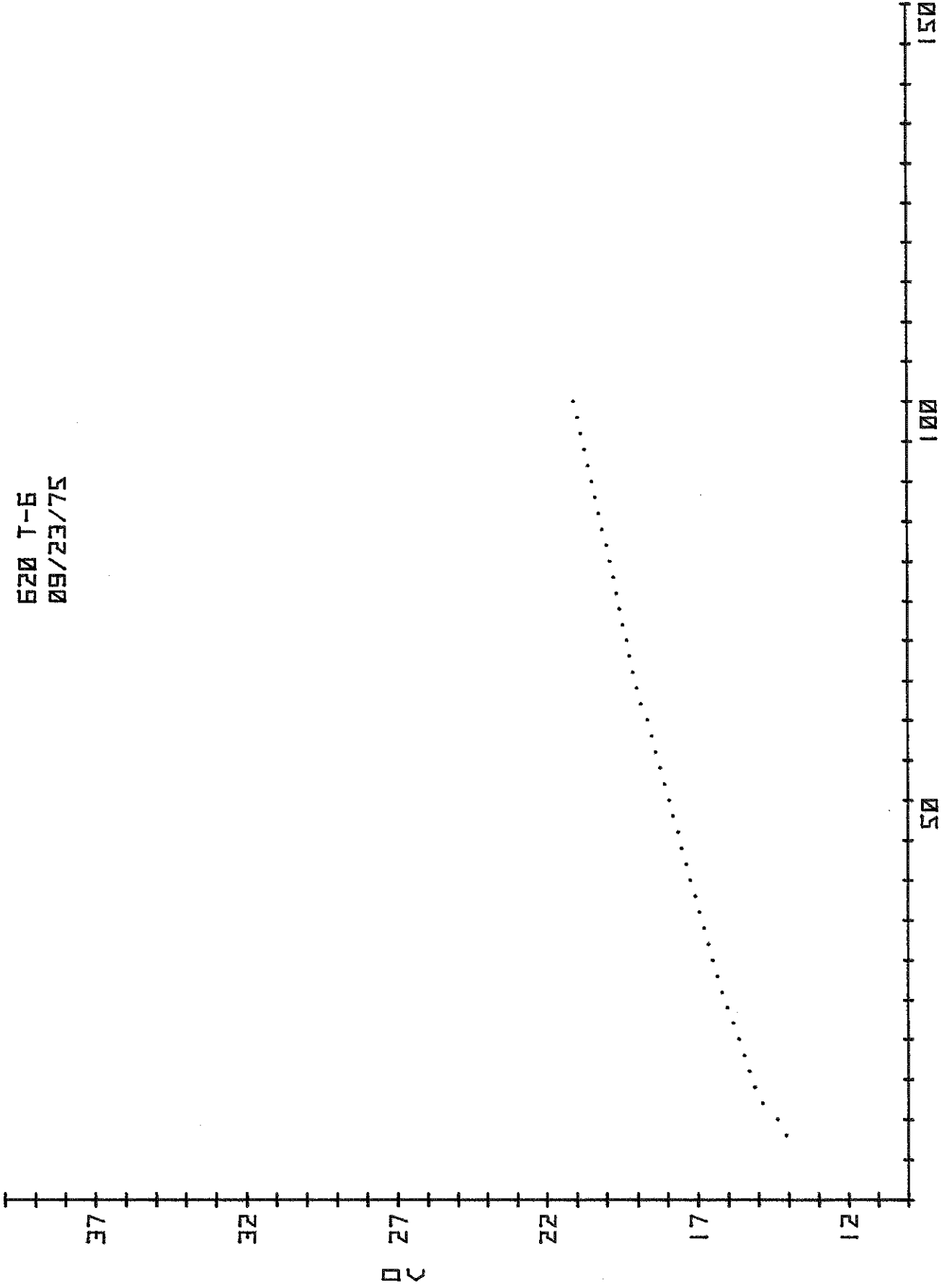
Total _____

TEMPERATURE VS DEPTH LOG FOR WELL-520 T-6
09/28/75

L-6

DEPTH METERS	TEMPERATURE DEGREES C	GRADIENT C/KM
8	14.185	140
10	14.385	240
12	14.855	135
14	15.135	90
16	15.315	90
18	15.475	92.5
20	15.66	90
22	15.84	100
24	16.04	87.5
26	16.215	80
28	16.375	75
30	16.525	67.5
32	16.66	72.5
34	16.805	75
36	16.955	70
38	17.095	75
40	17.245	72.5
42	17.39	72.5
44	17.535	70
46	17.675	75
48	17.825	67.5
50	17.96	72.5
52	18.105	72.5
54	18.25	72.5
56	18.395	65
58	18.525	70
60	18.665	107.5
62	18.80	75
64	19.00	37.5
66	19.145	55
68	19.285	60
70	19.355	57.5
72	19.47	55
74	19.58	57.5
76	19.685	52.5
78	19.79	47.5
80	19.905	60
82	20.005	72.5
84	20.15	37.5
86	20.265	60
88	20.385	52.5
90	20.49	37.5
92	20.605	62.5
94	20.70	50
96	20.85	25
98	20.96	70
100	21.1	211

620 T-6
09/23/75



TEMPERATURE - DEPTH LOG

Location AERNA SPRINGS, CALIF Date 9-3-75

Map Distant Reservoir Calif

Property LIVERMORE (SCOTT) T 9N R 5W sec 10

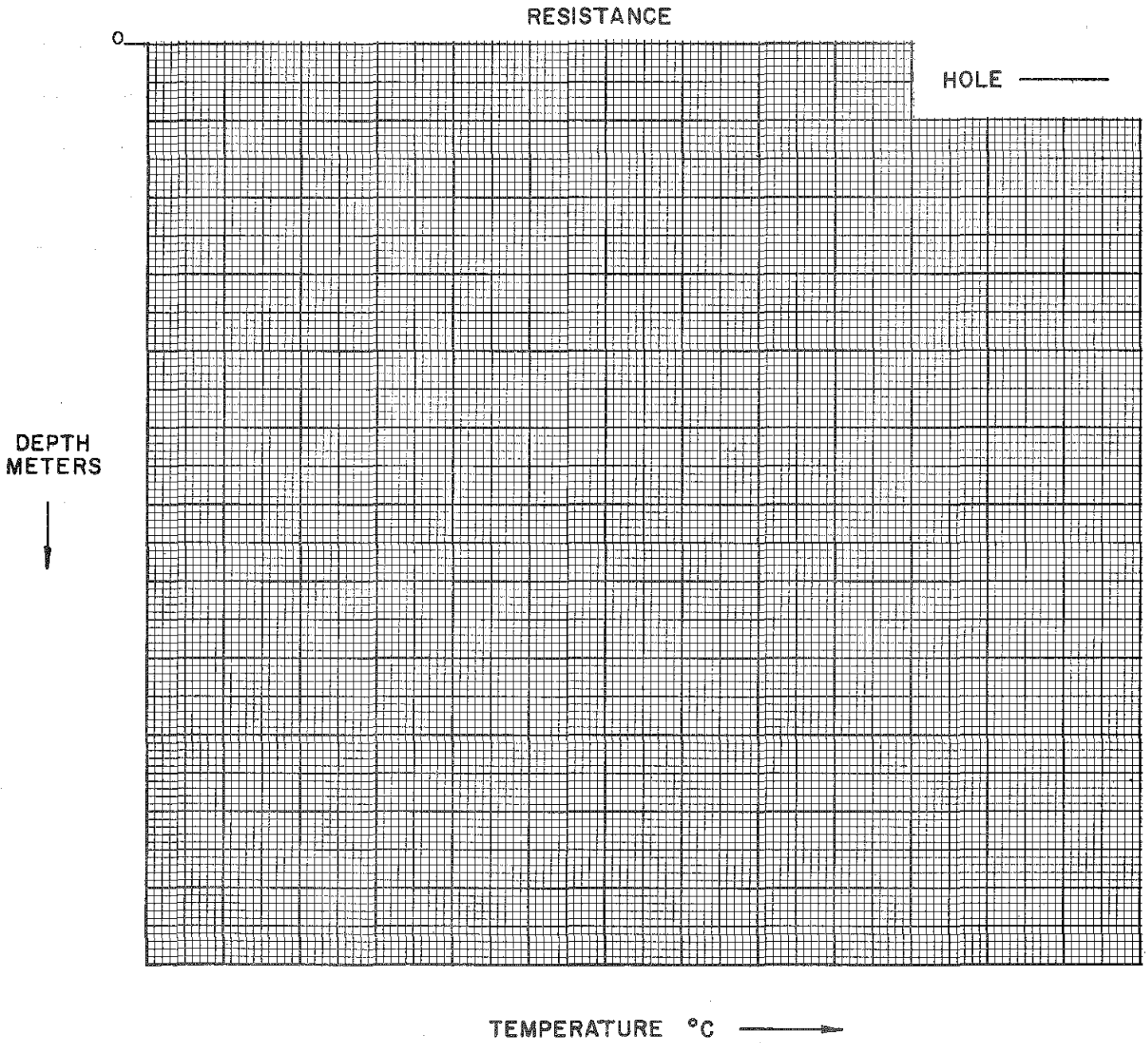
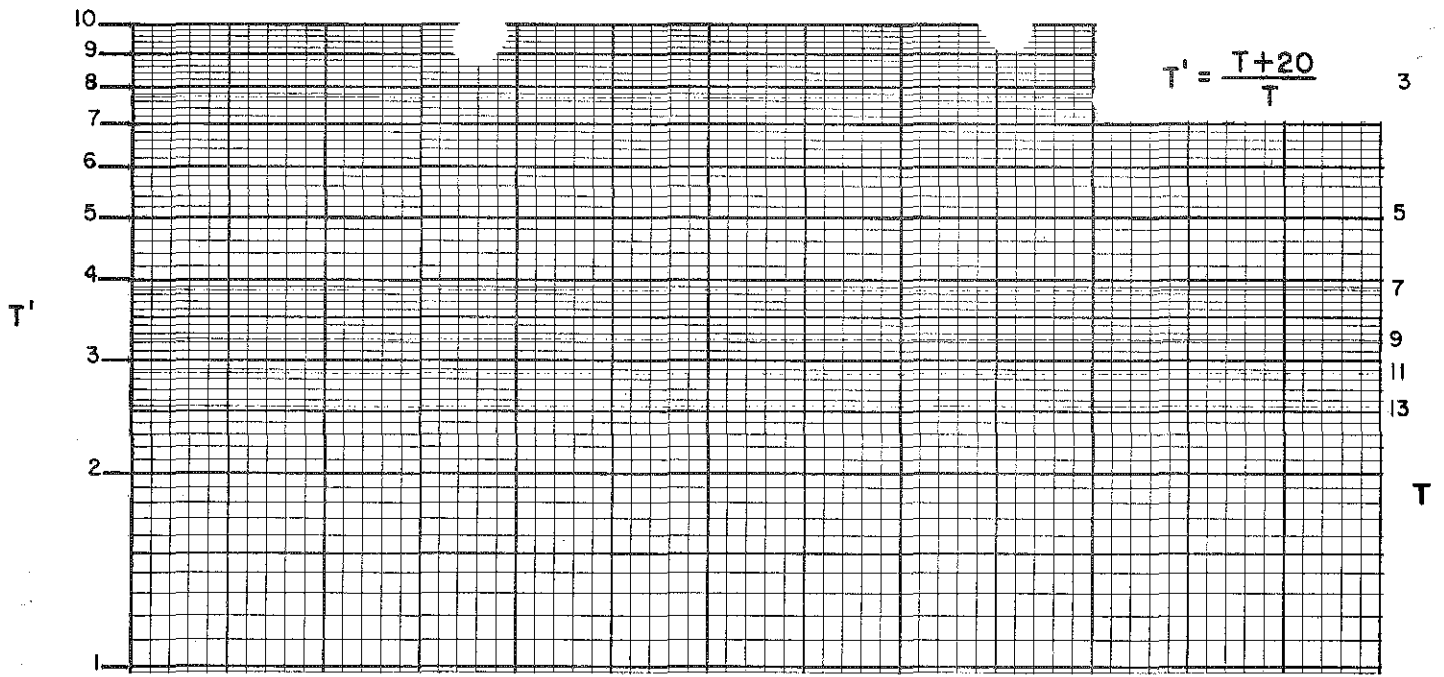
Drill Hole L-6 Date Drilled 8/18/75 Elevation 1680 ft.

Instrument PROBE Operator JM = 152

Comments 2ND RUN - PIPE 40 CM ABOVE GROUND

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
8	5514	14.105			
10	5452	14.885		140	
12	5348	14.865		240	
14	5290	15.135		135	
16	5252	15.215		90	
18	5219	15.475		80	
20	5181	15.660		92.5	
22	5143	15.840		90	
24	5103	16.040		100	
26	5067	16.215		87.5	
28	5035	16.375		80	
30	5005	16.525		87.5	
32	4979	16.660		67.5	
34	4950	16.805		72.5	
36	4921	16.955		95	(38-100 m)
38	4894	17.095		70	AVE 64.8 °C/Km
40	4865	17.245		75	
42	4837	17.390		72.5	
44	4810	17.535		72.5	
46	4783	17.675		70	
48	4755	17.825		75	





63
TEMPERATURE - DEPTH LOG

Location _____ Date 9-3-75

Map Wentworth Pass near Calif.

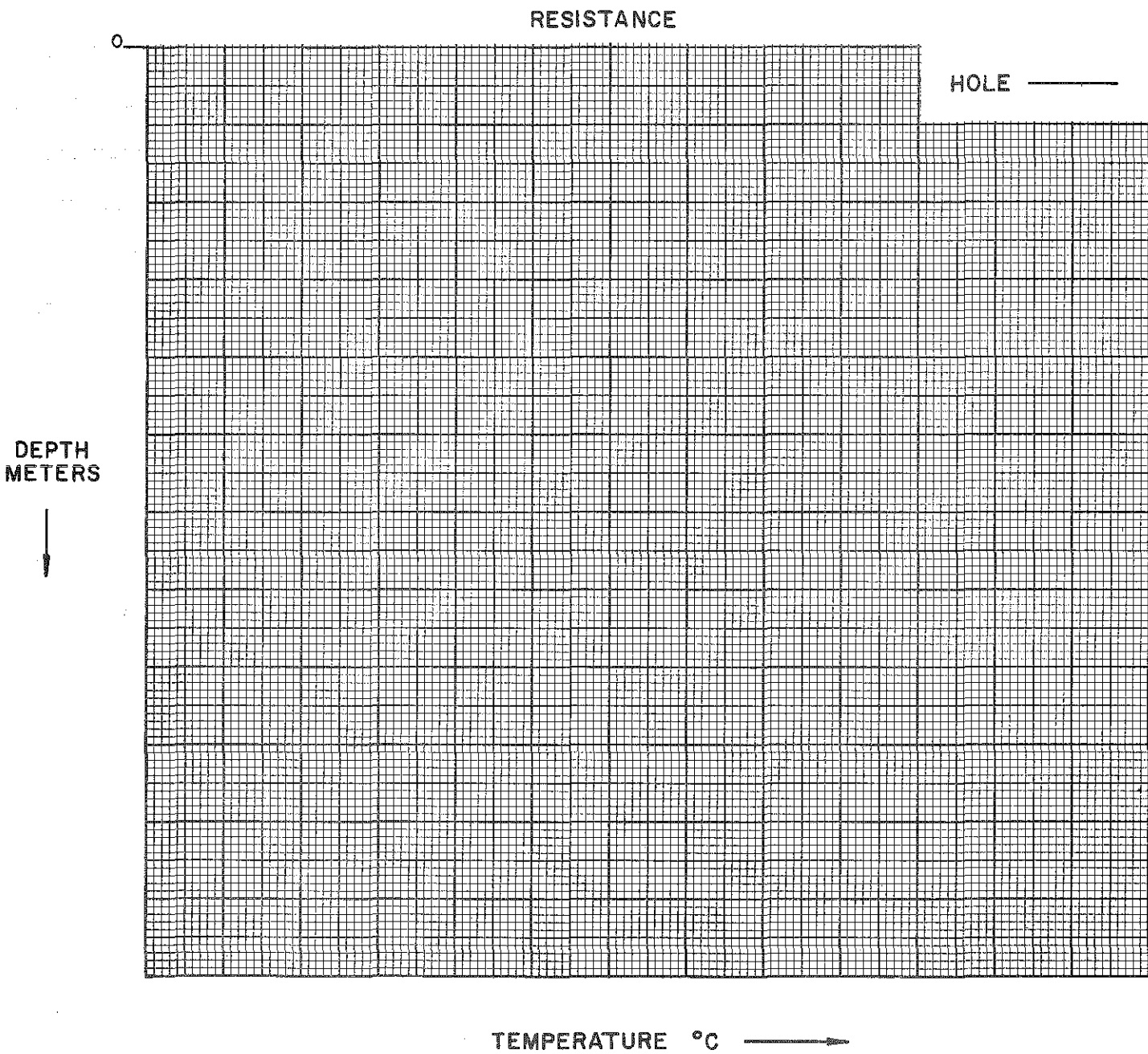
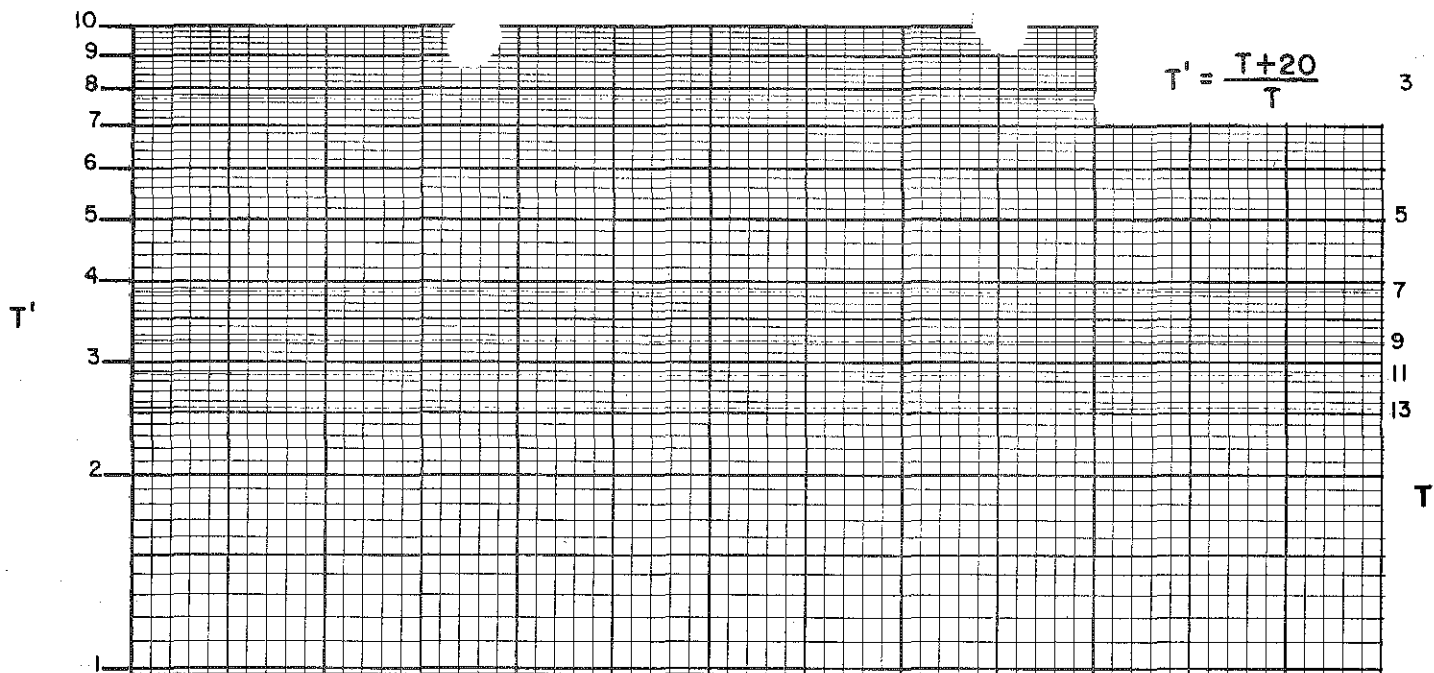
Property _____ T 9N R 6W sec 10

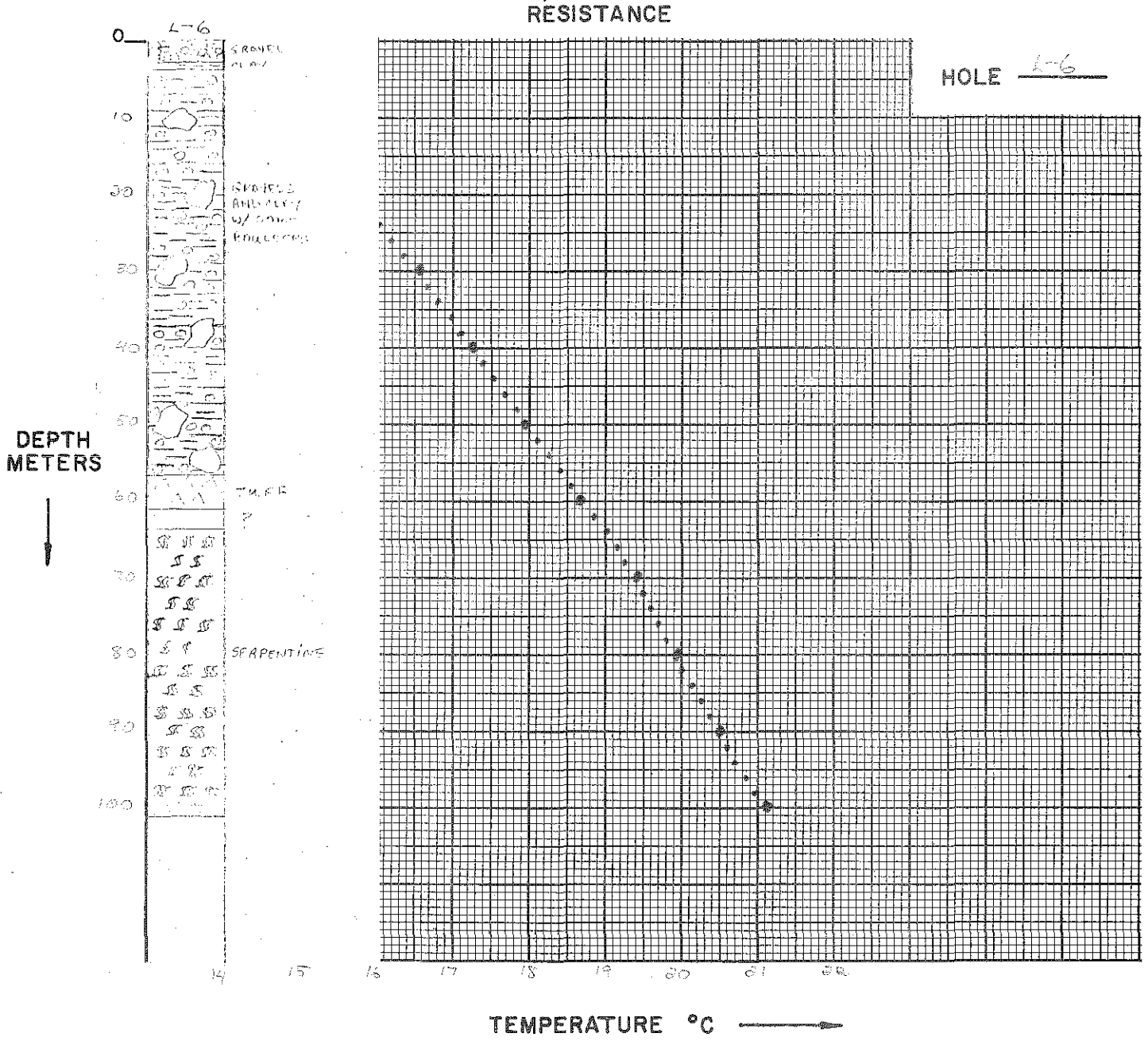
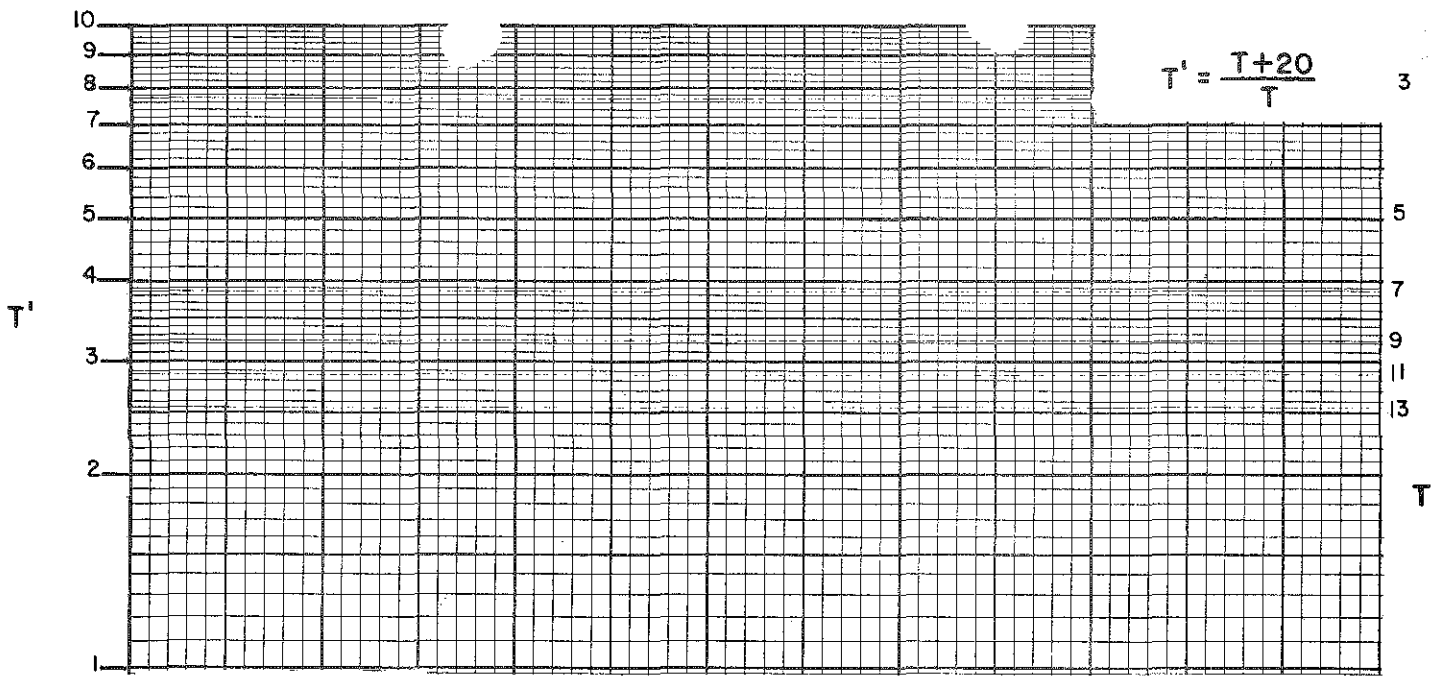
Drill Hole L-6 Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments _____

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient		Comments
				°C/Km	Avg.	
50	4720	17.960		67.5		
52	4703	18.105		72.5		
54	4676	18.250		72.5		
56	4650	18.395		72.5		
58	4626	18.525		65		
60	4601	18.665		70		
62	4563	18.880		107.5		
64	4536	19.030		75		
66	4516	19.145		57.5		
68	4496	19.255		55		
70	4479	19.355		50		
72	4459	19.470		57.5		
74	4440	19.580		55		
76	4422	19.685		52.5		
78	4404	19.790		52.5		
80	4388	19.885		47.5		
82	4367	20.005		60		
84	4343	20.150		72.5		
86	4324	20.265		57.5		
88	4304	20.385		60		
90	4286	20.490		52.5		





TEMPERATURE - DEPTH LOG

Location CALISTOGA CALIF Date 3/29/75

Map DEWERT RESERVOIR CALIF

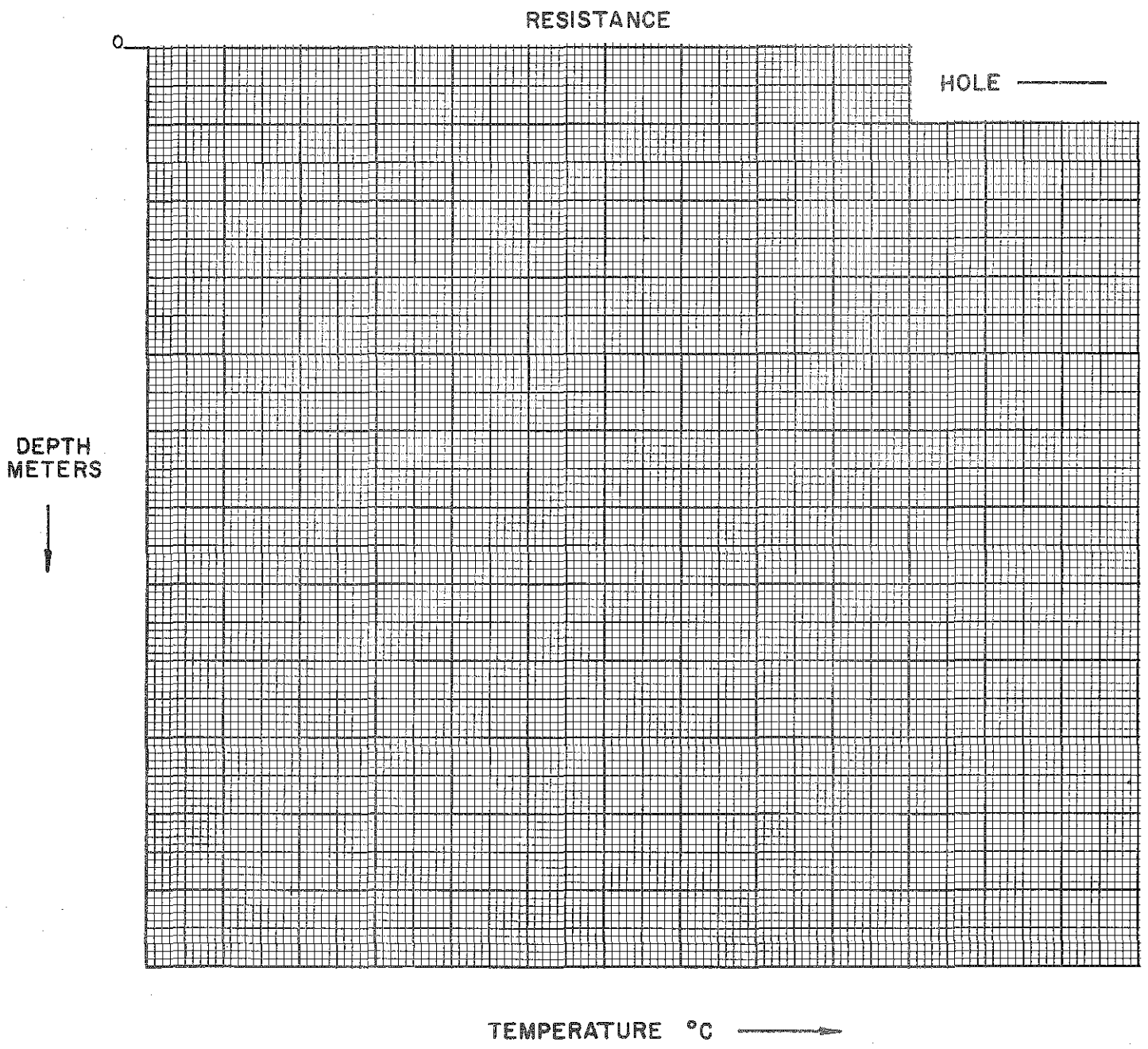
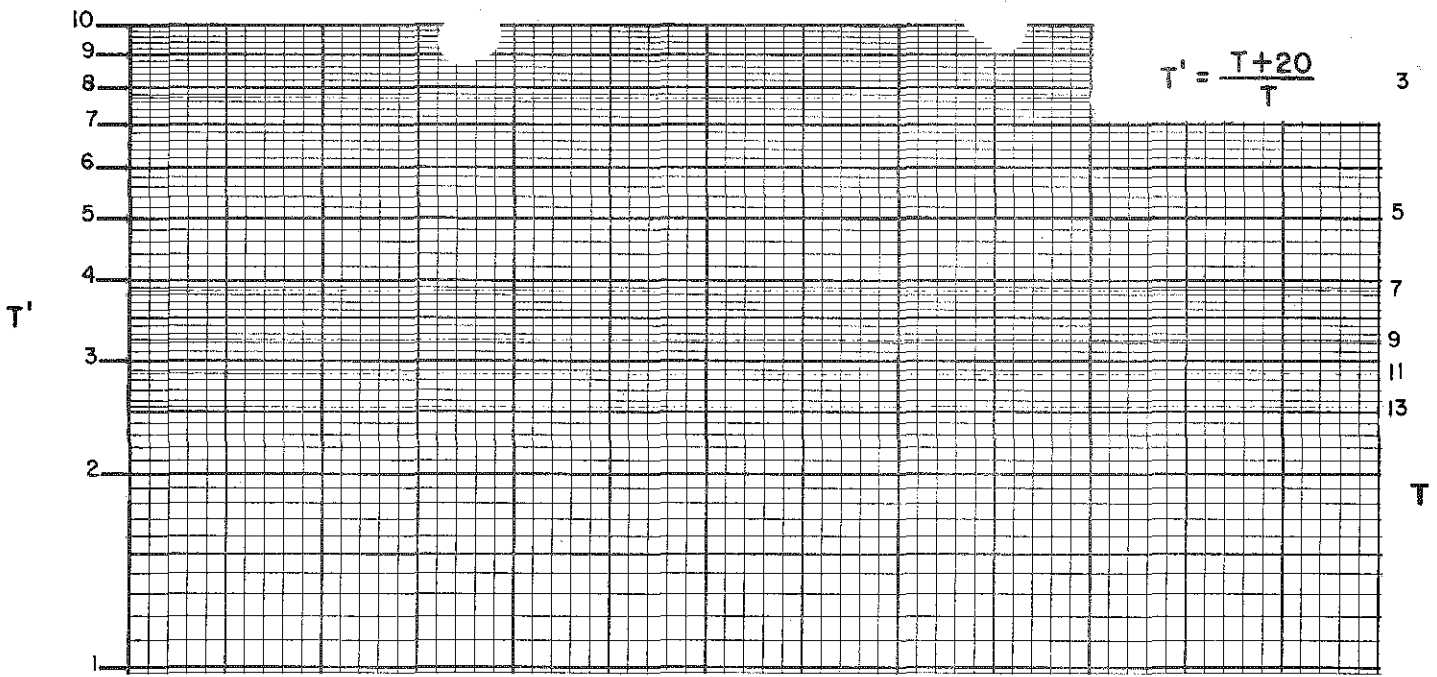
Property LIVERMORE (SCOTT) T 9N R 6W sec 10

Drill Hole L-6 Date Drilled 5/18/75 Elevation 1680 ft.

Instrument PROBE Operator DM

Comments _____

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
2	—				
4	5545	15.335			
6	5560	13.900		-77.5	
8	5479	14.860		180	
10	5352	14.845		890.5	
12	5342	14.810		88.5	
14	5230	14.110		260	
16	5002	12.555		-25 ←	570 - 1000 = 66.3
18	5175	15.685		35	
20	5140	15.865		85	
22	5104	16.025		90	
24	5066	16.080		92.5	
26	5031	16.395		87.5	
28	5000	16.550		77.5	
30	4974	16.685		67.5	
32	4951	16.800		57.5	
34	4925	16.935		67.5	
36	4897	17.080		72.5	
38	4870	17.200		70	
40	4846	17.285		70.5	
42	4815	17.505		70	



TEMPERATURE - DEPTH LOG

Location _____ Date _____

Map _____

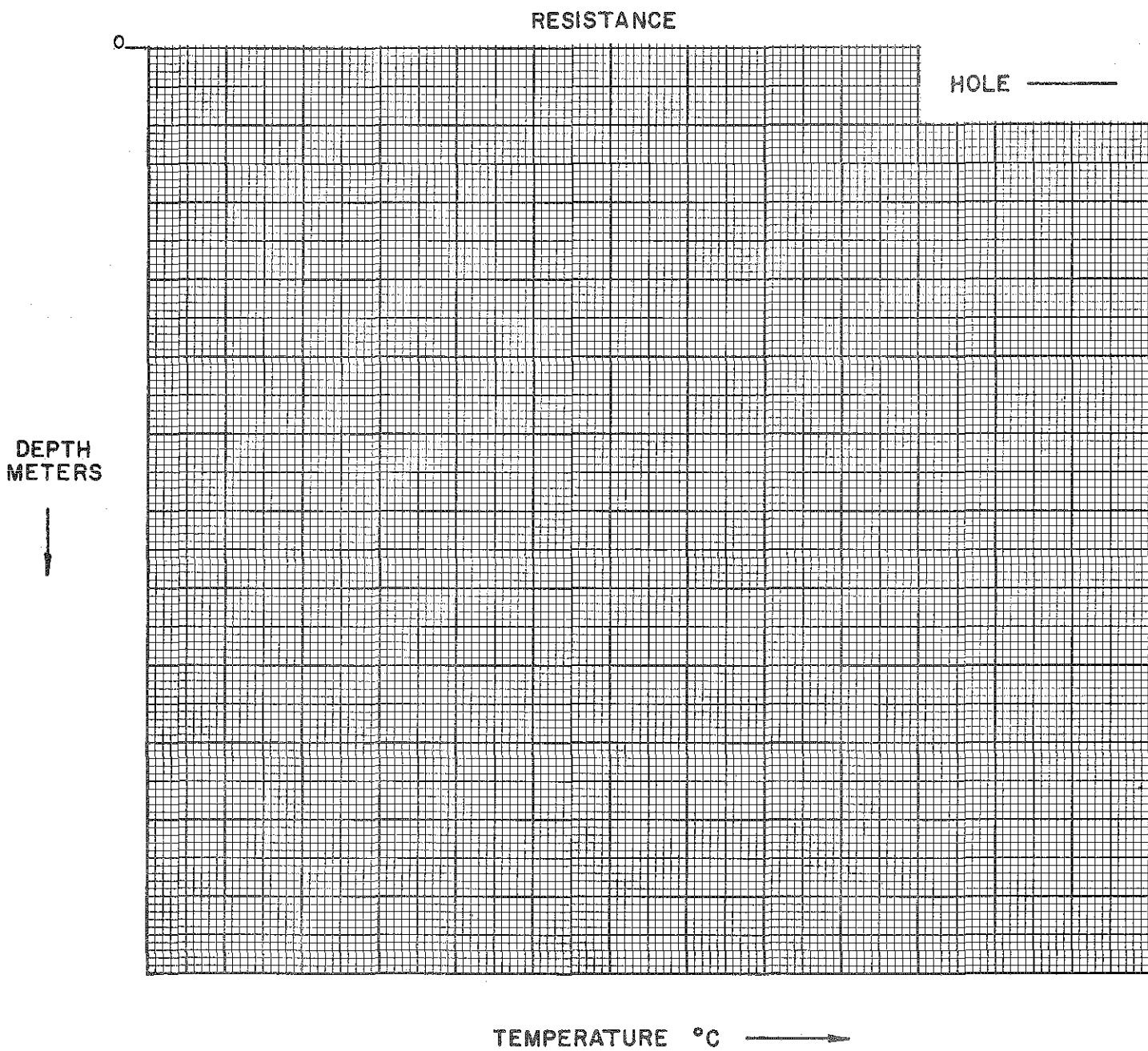
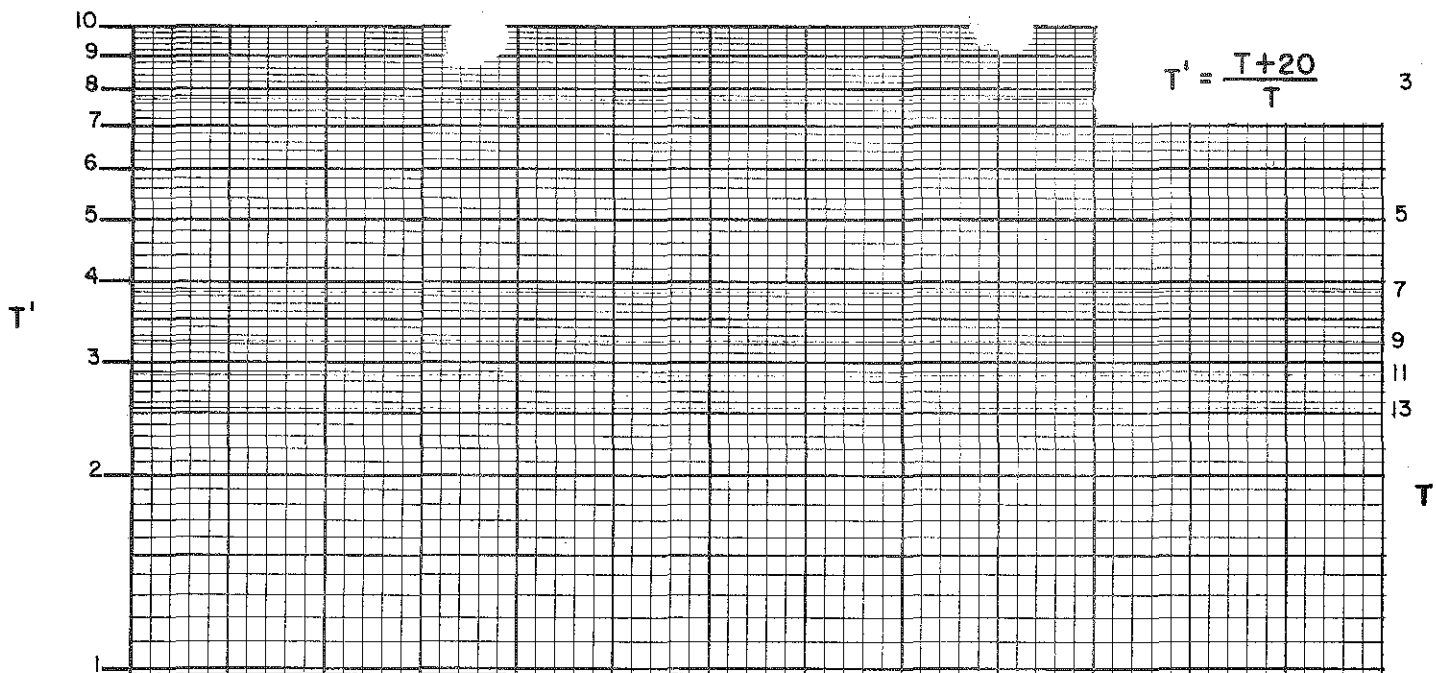
Property _____ T _____ R _____ sec _____

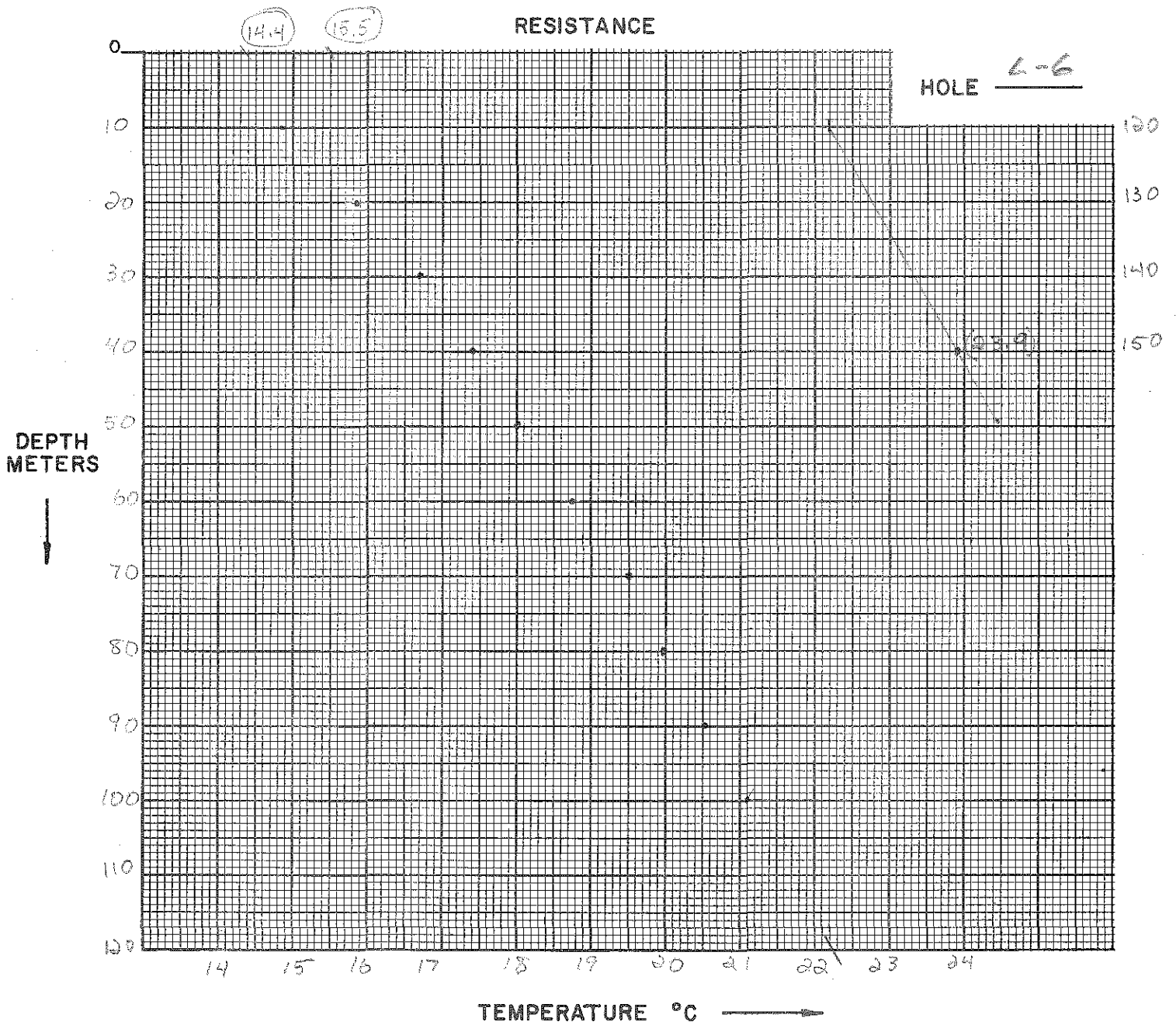
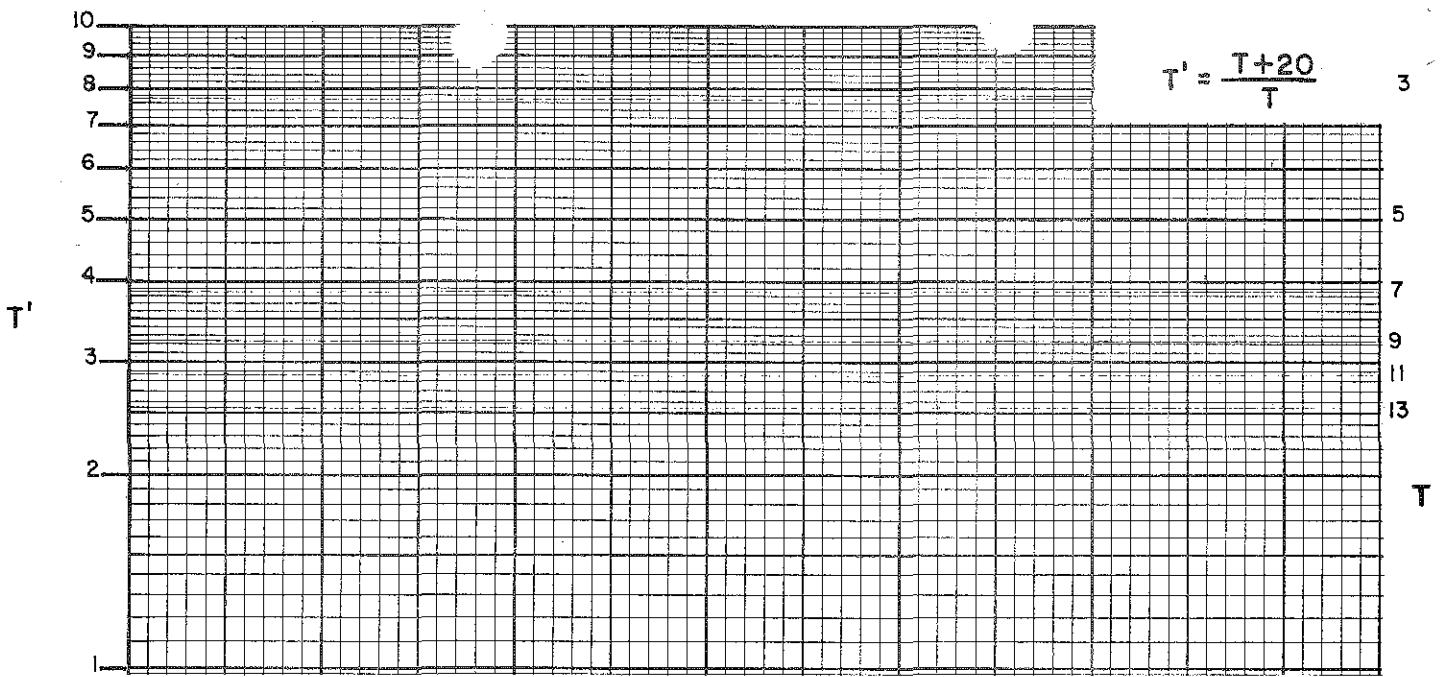
Drill Hole L-6 Date Drilled _____ Elevation _____ ft.

Instrument _____ Operator _____

Comments _____

Depth (meters)	Instr. Reading	Temp. °C	ΔT	Gradient °C/Km Avg.	Comments
44	4787	17.645		70	
46	4761	17.795		75	
48	4735	17.930		67.5	
50	4712	18.065		67.5	
52	4685	18.205		70	
54	4658	18.360		77.5	
56	4633	18.490		65	
58	4602	18.620		65	
60	4585	18.755		67.5	
62	4543	18.990		117.5	
64	4519	19.125		67.5	
66	4502	19.285		50	
68	4483	19.330		52.5	
70	4467	19.425		47.5	
72	4448	19.535		55	
74	4428	19.650		57.5	
76	4411	19.750		50	
78	4394	19.850		50	
80	4378	19.940		45	
82	4353	20.060		60	
84	4334	20.205		78.5	





LITHOLOGIC LOG

PROPERTY: LIVERMORE 6
Sec 10 T9N R6W

ELEVATION: 1680'
Drilled: 8-18-75

Feet	Description	
0-9	Gravel	
9-12	Clay	
12-185	Gravels and clay with some boulders	
185-199	Tuff	
199-208	?	
208-330	Serpentine	Water?