

TEMPERATURE-DEPTH LOG

Location NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec. 30, T. 19 S., R. 46 E., Malheur County  
 Company Burd Drilling Co. Drill Hole No. VN - 75 - 1  
 Date June 4, 1975 Depth Drilled 500 ft.-152 m. Zero Depth 2885 ft. elev.  
 Probe, Cable, Bridge BR-1 / WB-3 Operator E. Widman - D. Hull  
 Comments Dry hole; no water in PVC inner casing

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u>ΔT/Δx</u>	<u>Comments</u>
5 m	5304.5 * ohm	13.24 ° C		
10	5000.6	14.67	286 °C/km	
15	4952.5	14.91	48°	
20	4883.2	15.25	68°	
25	4801.0	15.67	84°	
30	4710.0	16.14	94°	
35	4620.0	16.62	96°	
40	4538.8	17.06	88°	
45	4453.3	17.53	94°	
50	4372.7	17.99	92°	
55	4294.6	18.44	90°	
60	4214.1	18.91	94°	
65	4139.7	19.36	90°	
70	4070.8	19.78	84°	
75	3990.0	20.28	100°	
80	3917.4	20.75	94°	
85	3838.8	21.26	102°	
90	3774.7	21.69	86°	
95	3718.5	22.07	76°	
100	3647.6	22.57	100°	

TEMPERATURE-DEPTH LOG

Location Lincoln Bench - NW 1/4 NW 1/4, sec. 30, T. 19 S., R. 46 E., Malheur County  
 Company \_\_\_\_\_ Drill Hole No. VN - 75 - 1  
 Date June 4, 1975 Depth Drilled 500 ft. - 152 m Zero Depth \_\_\_\_\_  
 Probe, Cable, Bridge BR - 1 / WB-3 Operator E. Widman - D. Hull  
 Comments \_\_\_\_\_

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u>ΔT/Δx</u>	<u>Comments</u>
100 m	3647.6 ohm	22.57 ° C		
			90 °C/km	
105	3583.3	23.02		
			90	
110	3521.1	23.47		
			92	
115	3458.8	23.93		
			96	
120	3396.2	24.41		
			98	
125	3332.5	24.90		
			100	
130	3268.9	25.40		
			92	
135	3211.8	25.86		
			104	
140	3148.7	26.38		
			96	
145	3091.0	26.86		
			90	
150	3038.3	27.31		
	Av. grad. from 15m - 150 m =	91.9 ° C/km		
	" " " 20m - 150 m =	92.8 ° C/km		

\* Four or more readings were taken at each depth interval and the resistance values shown were obtained by extrapolating semilog plots of the sets of readings to infinite time.

TEMPERATURE-DEPTH LOG

Location NW¼ of NE¼, sec. 8, T. 17 S., R. 45 E. - Malheur Co., Oregon  
 Company Burd Drilling Co. Drill Hole No. VN - 75 - 2  
 Date June 4, 1975 Depth Drilled 203 ft - 62 m Zero Depth 2,365 ft. elev.  
 Probe, Cable, Bridge BR-1 / WB - 3 Operator E. Widman / D. Hull  
 Comments \_\_\_\_\_

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u>ΔT/Δx</u>	<u>Comments</u>
5 m				not read
10	4340.7	18.17 °C.		
15	4079.8	19.72	310° C/km	
20	3775.6	21.69	394	
25	3554.0	23.23	308	
30	3447.8	24.02	158	
35	3393.7	24.42	80	
40	3354.0	24.75	62	
45	3329.5	24.92	38	
50	3177.7	26.14	214	
55	3135.1	26.49	70	
60	3117.6	26.64	30	
	Av. grad. 15m - 60 m = 153.7 °C/km			
	" " 20m - 60 m = 123.8			



TEMPERATURE-DEPTH LOG

Location NE 1/4 of SE 1/4, sec. 2, T. 17 S., R. 45 E., Malheur County, Oregon  
 Company \_\_\_\_\_ Drill Hole No. VN-75-3  
 Date May 13, 1975 4:15 PM Depth Drilled 500 ft - 152 m Zero Depth 2,760 ft.  
 Probe, Cable, Bridge BR-1 / MB-3 Operator D. Hull  
 Comments \_\_\_\_\_

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u>ΔT/Δx</u>	<u>Comments</u>
5m	4690 ohm	16.25 ° C		
10	5077.1	14.30	-390 °C/km	
15	5078.0	14.30	0	
20	5043.6	14.46	32	
25	5000.7	14.67	42	
30	4952.2	14.91	48	
35	4892.9	15.21	60	
40	4827.4	15.54	66	
45	4777.7	15.79	50	
50	4716.0	16.11	64	
55	4642.4	16.50	78	
60	4576.0	16.86	72	
65	4498.6	17.28	84	
70	4425.0	17.69	82	
75	4342.5	18.16	94	
80	4249.	18.70	108	
85	4175.7	19.14	88	
90	4117.4	19.49	70	
95	4061.0	19.84	70	
100	3993.9	20.26	84	
105	3930.3	20.67	82	

TEMPERATURE-DEPTH LOG

Location NE $\frac{1}{4}$  of SW $\frac{1}{2}$  sec. 16, T. 17 S., R. 46 E., Malheur County, Oregon  
 Company Burd Drilling Co. Drill Hole No. VW-75-4  
 Date June 4, 1975 Depth Drilled 500' TD - 152 m Zero Depth 2,520 ft.  
 Probe, Cable, Bridge WB-3 / BR-1 Operator D. Hull / E. Widman  
 Comments Current irrigation uphill to south from drill site

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u><math>\Delta T/\Delta x</math></u>	<u>Comments</u>
5 m	5508.9 ohm	12.32 °C		
10	5279.6	13.35	206 °C/km	
15	5128.8	14.06	142	
20	5029.3	14.53	94	
25	4880.3	15.27	148	
30	4772.3	15.82	110	
35	4673.0	16.34	104	
40	4583.5	16.82	96	
45	4487.2	17.34	104	
50	4394.7	17.86	104	
55	4299.5	18.41	110	
60	4206.1	18.96	110	
65	4114.6	19.51	110	
70	4026.6	20.05	108	
75	3921.5	20.72	134	
80	3813.7	21.43	142	
85	3730.6	21.99	112	
90	3648.6	22.56	114	
95	3588.2	22.99	86	
100	3509.9	23.56	114	
105	3433.3	24.12	112	



TEMPERATURE-DEPTH LOGLocation NW $\frac{1}{4}$  of NE $\frac{1}{4}$ , sec. 13, T. 17 S., R. 46 E., Malheur County, OregonCompany \_\_\_\_\_ Drill Hole No. VN-75-5Date June 3, 1975 Depth Drilled 500 ft. - 152 m Zero Depth 2,400 ft.Probe, Cable, Bridge BR-1 / WB-3 Operator E. Widman / D. Hull

Comments \_\_\_\_\_

<u>Depth</u>	<u>Resistance</u>	<u>Temperature</u>	<u><math>\Delta T/\Delta x</math></u>	<u>Comments</u>
5 m	5614.7 ohm	11.86° c		
10	5192.4	13.76	380° C/km	
15	5122.2	14.09	66	
20	5049.4	14.44	70	
25	4988.4	14.73	58	
30	4922.0	15.06	66	
35	4856.8	15.39	68	
40	4789.2	15.73	68	
45	4724.0	16.07	68	
50	4659.7	16.41	68	
55	4592.0	16.77	72	
60	4526.2	17.13	72	
65	4459.5	17.50	74	
70	4394.8	17.86	72	
75	4330.0	18.23	74	
80	4265.5	18.60	74	
85	4197.6	19.01	82	
90	4135.1	19.38	74	
95	4060.1	19.84	92	
100	4016.4	20.12	56	
105	3948.0	20.55	86	



