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AREA
OR
GtmGrd
0-81-3A

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1005 State Office Building
Portland, Oregon 97201

OPEN-FILE REPORT 0-81-3A

GEOHERMAL GRADIENT DATA (1978)

UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

by

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Gerald L. Black, and

George R. Priest

Data are arranged by township from north to south

Funds for data compilation and collection were
provided by U.S. Department of Energy Contract
Numbers AC-06-77-ET-28369,
EC-77-C-06-1040, and DE-FC-07-78-ET-220

1981

LOCATION: VANCOUVER AMS, OREGON

1N/ 6E-31CD

HOLE NAME: RDH-LM

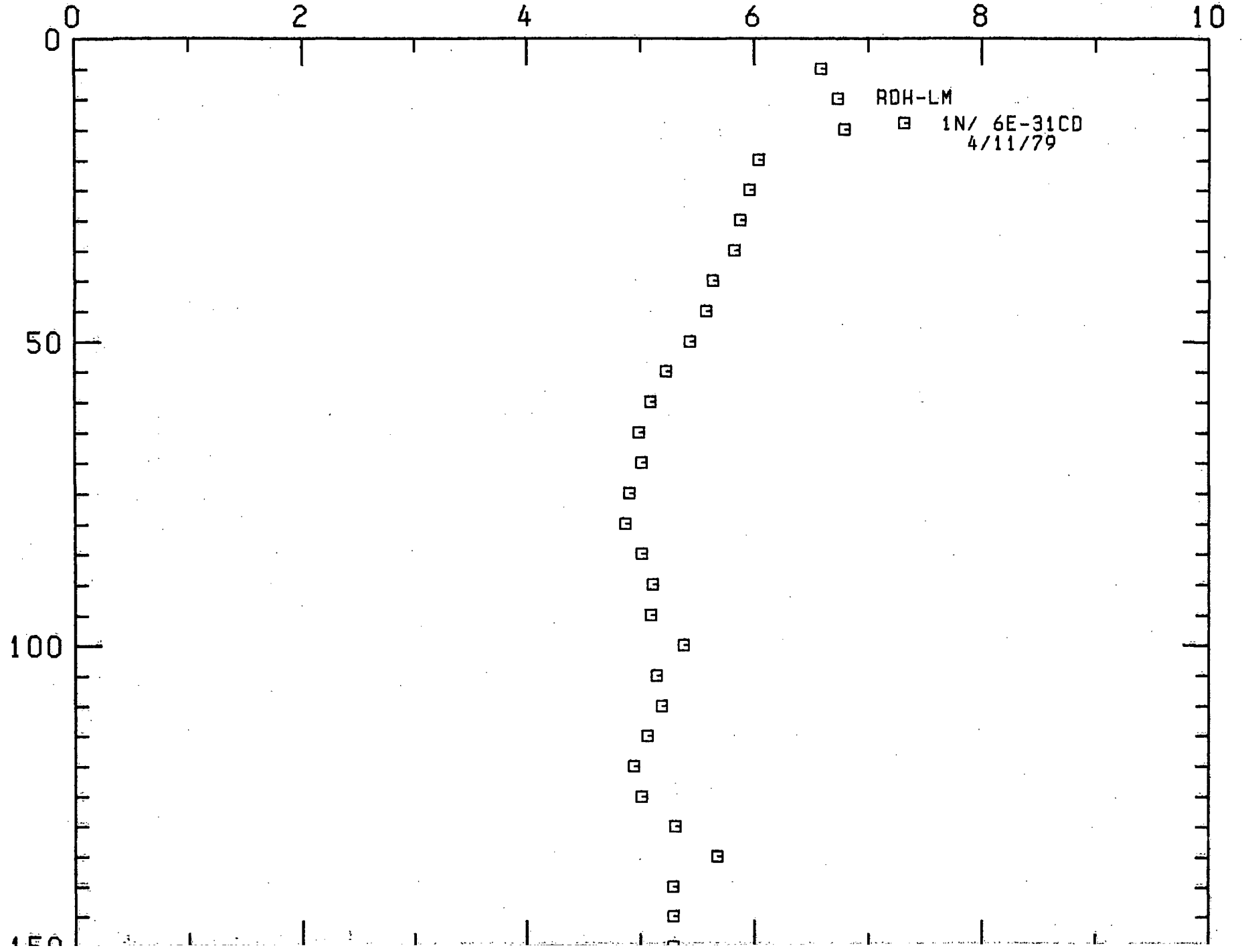
DATE MEASURED: 4/11/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	6.590	43.86	0.0	0.0
10.0	32.8	6.730	44.11	28.0	1.5
15.0	49.2	6.790	44.22	12.0	0.7
20.0	65.6	6.040	42.87	-150.0	-8.2
25.0	82.0	5.960	42.73	-16.0	-0.9
30.0	98.4	5.880	42.58	-16.0	-0.9
35.0	114.8	5.830	42.49	-10.0	-0.5
40.0	131.2	5.640	42.15	-38.0	-2.1
45.0	147.6	5.580	42.04	-12.0	-0.7
50.0	164.0	5.440	41.79	-28.0	-1.5
55.0	180.4	5.230	41.41	-42.0	-2.3
60.0	196.8	5.090	41.16	-28.0	-1.5
65.0	213.2	4.990	40.98	-20.0	-1.1
70.0	229.6	5.010	41.02	4.0	0.2
75.0	246.0	4.900	40.82	-22.0	-1.2
80.0	262.4	4.870	40.77	-6.0	-0.3
85.0	278.8	5.010	41.02	28.0	1.5
90.0	295.2	5.110	41.20	20.0	1.1
95.0	311.6	5.090	41.16	-4.0	-0.2
100.0	328.0	5.380	41.68	58.0	3.2
105.0	344.4	5.140	41.25	-48.0	-2.6
110.0	360.8	5.190	41.34	10.0	0.5
115.0	377.2	5.060	41.11	-26.0	-1.4
120.0	393.6	4.940	40.89	-24.0	-1.3
125.0	410.0	5.010	41.02	14.0	0.8
130.0	426.4	5.310	41.56	60.0	3.3
135.0	442.8	5.680	42.22	74.0	4.1
140.0	459.2	5.290	41.52	-78.0	-4.3
145.0	475.6	5.290	41.52	0.0	0.0
150.0	492.0	5.290	41.52	0.0	0.0

TEMPERATURE, DEG C

- 2 -

DEPTH, METERS



LOCATION: THE DALLES AMS, OREGON

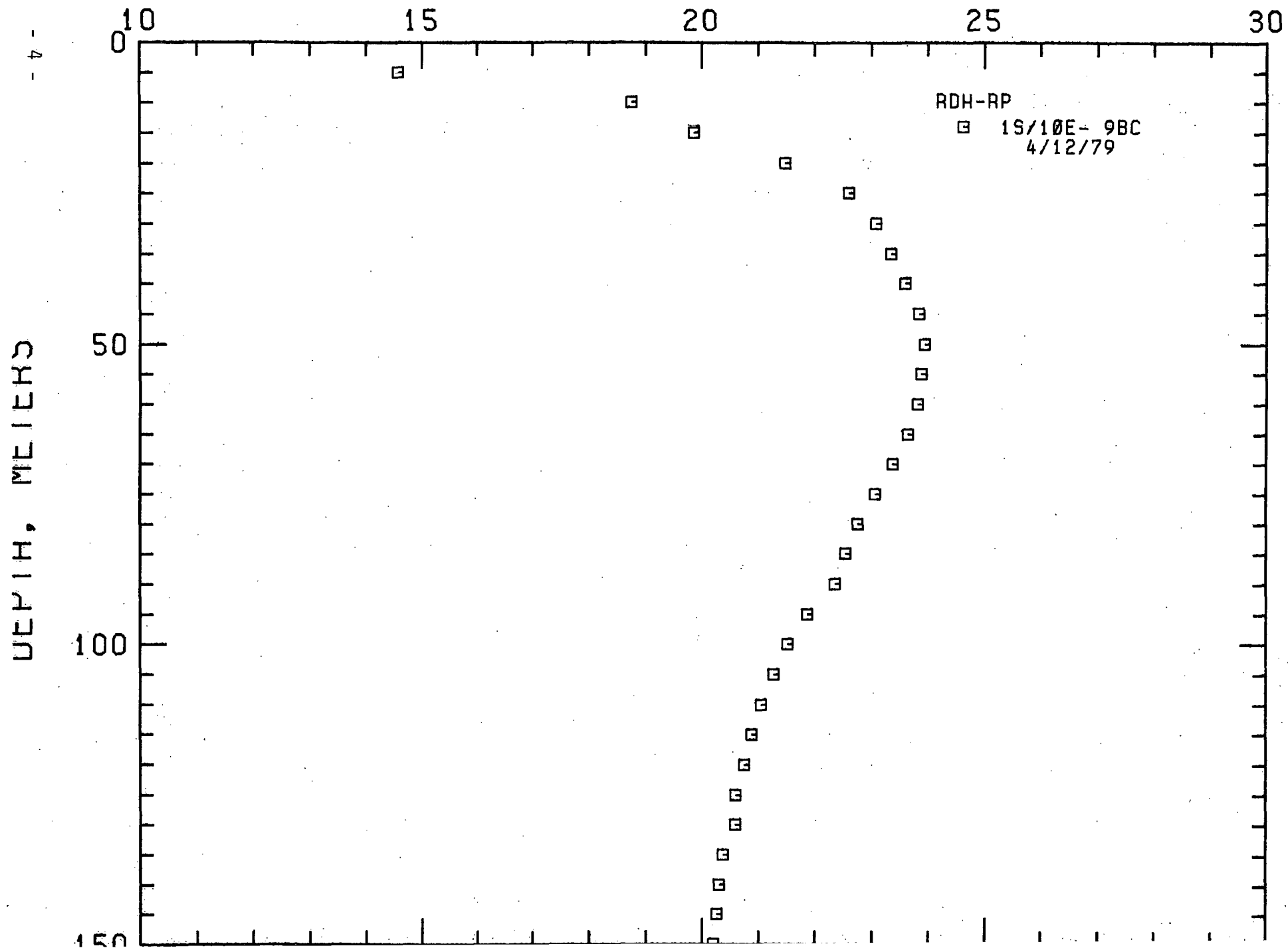
15/10E- 98C

HOLE NAME: RDH-RP

DATE MEASURED: 4/12/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	14.580	58.24	0.0	0.0
10.0	32.8	18.760	65.77	836.0	45.9
15.0	49.2	19.860	67.75	220.0	12.1
20.0	65.6	21.490	70.68	326.0	17.9
25.0	82.0	22.600	72.68	222.0	12.2
30.0	98.4	23.090	73.56	98.0	5.4
35.0	114.8	23.350	74.03	52.0	2.9
40.0	131.2	23.600	74.48	50.0	2.7
45.0	147.6	23.840	74.91	48.0	2.6
50.0	164.0	23.940	75.09	20.0	1.1
55.0	180.4	23.890	75.00	-10.0	-0.5
60.0	196.8	23.820	74.88	-14.0	-0.8
65.0	213.2	23.640	74.55	-36.0	-2.0
70.0	229.6	23.380	74.08	-52.0	-2.9
75.0	246.0	23.070	73.53	-62.0	-3.4
80.0	262.4	22.770	72.99	-60.0	-3.3
85.0	278.8	22.550	72.59	-44.0	-2.4
90.0	295.2	22.370	72.27	-36.0	-2.0
95.0	311.6	21.870	71.37	-100.0	-5.5
100.0	328.0	21.530	70.75	-68.0	-3.7
105.0	344.4	21.280	70.30	-50.0	-2.7
110.0	360.8	21.060	69.91	-44.0	-2.4
115.0	377.2	20.890	69.60	-34.0	-1.9
120.0	393.6	20.760	69.37	-26.0	-1.4
125.0	410.0	20.610	69.10	-30.0	-1.6
130.0	426.4	20.590	69.06	-4.0	-0.2
135.0	442.8	20.380	68.68	-42.0	-2.3
140.0	459.2	20.310	68.56	-14.0	-0.8
145.0	475.6	20.260	68.47	-10.0	-0.5
150.0	492.0	20.210	68.38	-10.0	-0.5

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

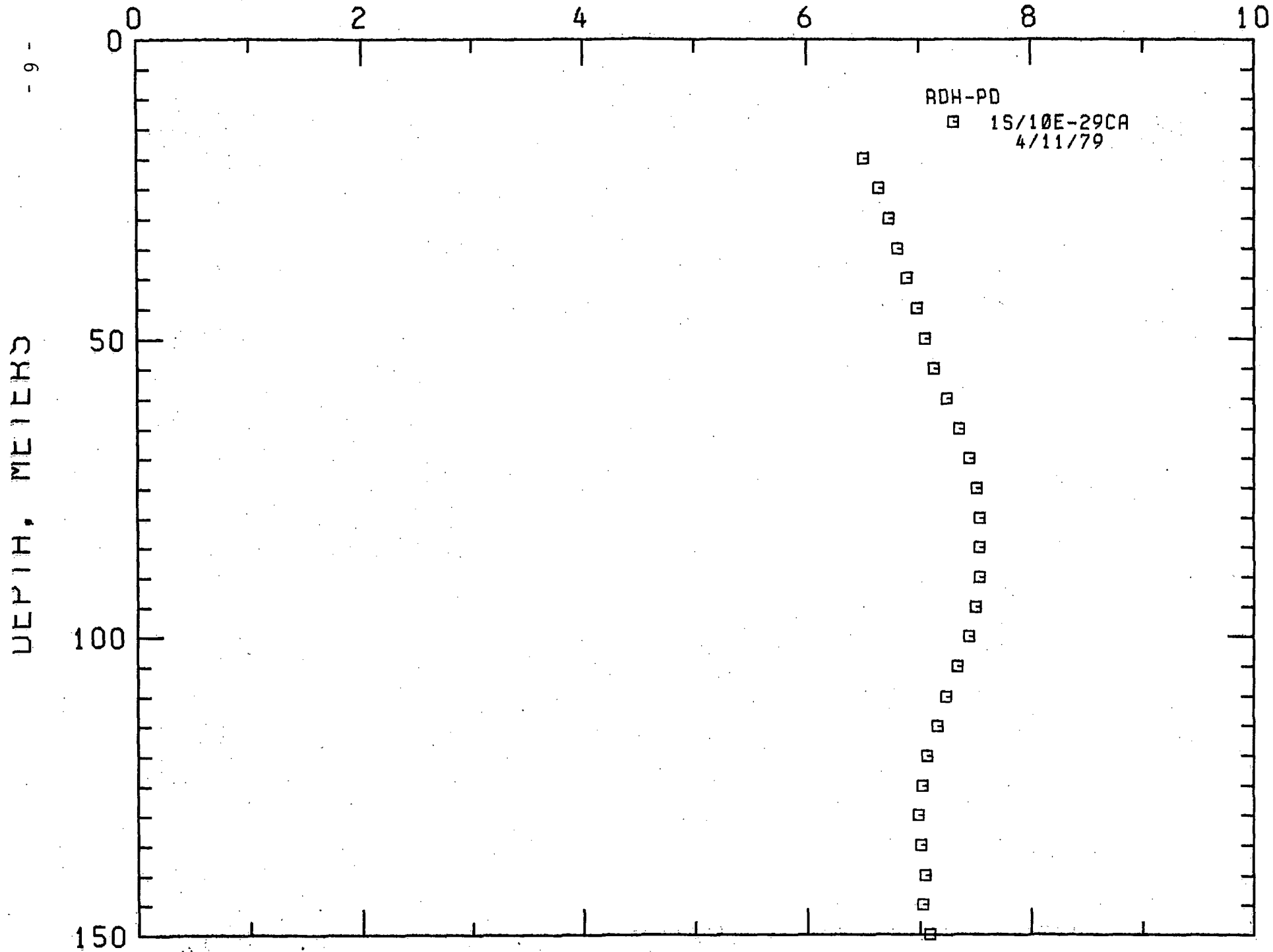
1S/10E-29CA

HOLE NAME: RDH-PD

DATE MEASURED: 4/11/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	6.510	43.72	0.0	0.0
25.0	82.0	6.640	43.95	26.0	1.4
30.0	98.4	6.730	44.11	18.0	1.0
35.0	114.8	6.810	44.26	16.0	0.9
40.0	131.2	6.890	44.40	16.0	0.9
45.0	147.6	6.980	44.56	18.0	1.0
50.0	164.0	7.050	44.69	14.0	0.8
55.0	180.4	7.130	44.83	16.0	0.9
60.0	196.8	7.250	45.05	24.0	1.3
65.0	213.2	7.360	45.25	22.0	1.2
70.0	229.6	7.450	45.41	18.0	1.0
75.0	246.0	7.520	45.54	14.0	0.8
80.0	262.4	7.550	45.59	6.0	0.3
85.0	278.8	7.540	45.57	-2.0	-0.1
90.0	295.2	7.540	45.57	0.0	0.0
95.0	311.6	7.510	45.52	-6.0	-0.3
100.0	328.0	7.450	45.41	-12.0	-0.7
105.0	344.4	7.340	45.21	-22.0	-1.2
110.0	360.8	7.240	45.03	-20.0	-1.1
115.0	377.2	7.160	44.89	-16.0	-0.9
120.0	393.6	7.070	44.73	-18.0	-1.0
125.0	410.0	7.030	44.65	-8.0	-0.4
130.0	426.4	6.990	44.58	-8.0	-0.4
135.0	442.8	7.010	44.62	4.0	0.2
140.0	459.2	7.050	44.69	8.0	0.4
145.0	475.6	7.030	44.65	-4.0	-0.2
150.0	492.0	7.090	44.76	12.0	0.7

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

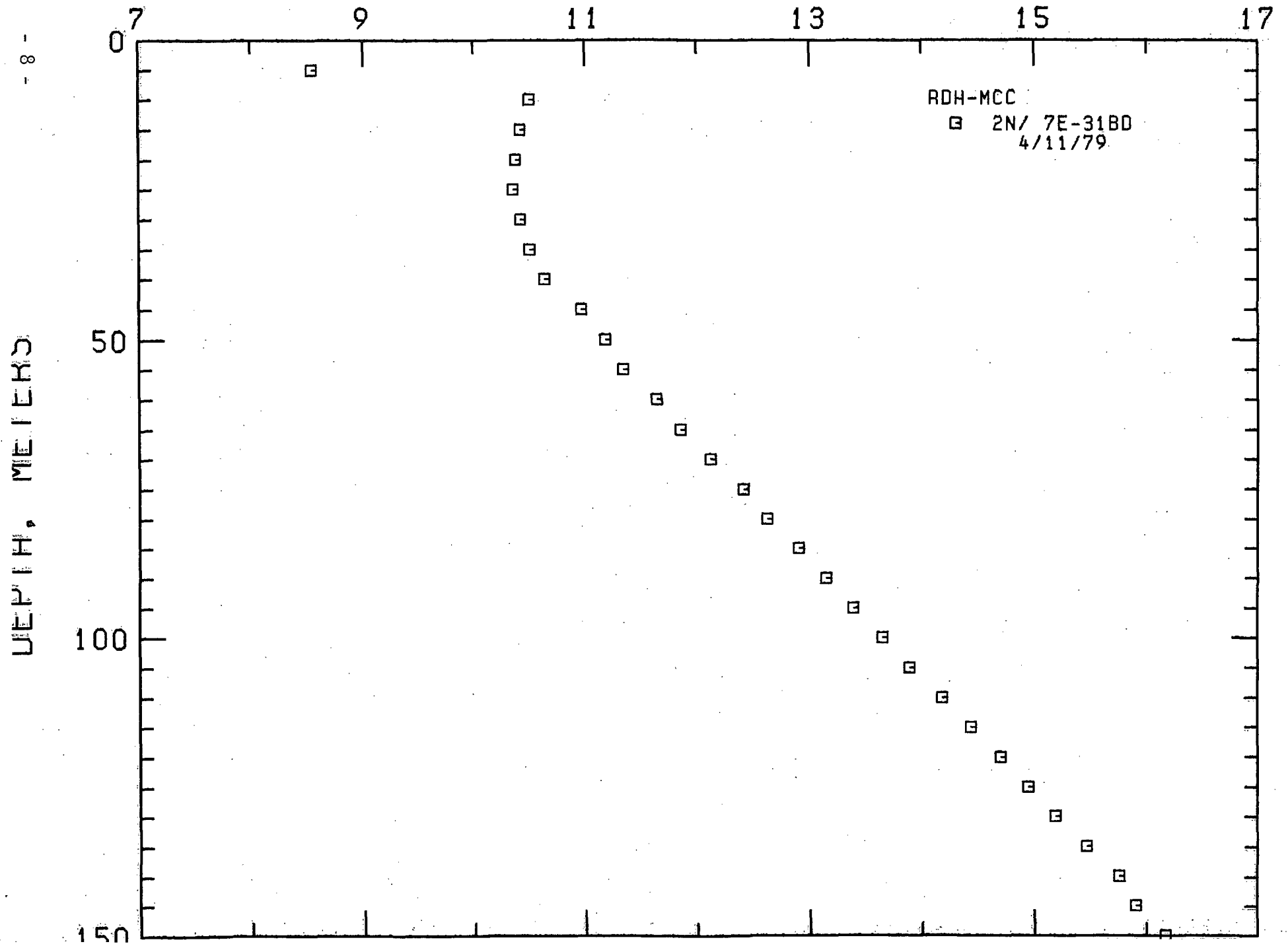
2N/ 7E-31BD

HOLE NAME: RDH-MCC

DATE MEASURED: 4/11/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	8.540	47.37	0.0	0.0
10.0	32.8	10.510	50.92	394.0	21.6
15.0	49.2	10.430	50.77	-16.0	-0.9
20.0	65.6	10.380	50.68	-10.0	-0.5
25.0	82.0	10.360	50.65	-4.0	-0.2
30.0	98.4	10.430	50.77	14.0	0.8
35.0	114.8	10.510	50.92	16.0	0.9
40.0	131.2	10.640	51.15	26.0	1.4
45.0	147.6	10.970	51.75	66.0	3.6
50.0	164.0	11.180	52.12	42.0	2.3
55.0	180.4	11.340	52.41	32.0	1.8
60.0	196.8	11.640	52.95	60.0	3.3
65.0	213.2	11.850	53.33	42.0	2.3
70.0	229.6	12.120	53.82	54.0	3.0
75.0	246.0	12.410	54.34	58.0	3.2
80.0	262.4	12.620	54.72	42.0	2.3
85.0	278.8	12.900	55.22	56.0	3.1
90.0	295.2	13.140	55.65	48.0	2.6
95.0	311.6	13.390	56.10	50.0	2.7
100.0	328.0	13.650	56.57	52.0	2.9
105.0	344.4	13.890	57.00	48.0	2.6
110.0	360.8	14.180	57.52	58.0	3.2
115.0	377.2	14.440	57.99	52.0	2.9
120.0	393.6	14.700	58.46	52.0	2.9
125.0	410.0	14.950	58.91	50.0	2.7
130.0	426.4	15.190	59.34	48.0	2.6
135.0	442.8	15.460	59.83	54.0	3.0
140.0	459.2	15.760	60.37	60.0	3.3
145.0	475.6	15.910	60.64	30.0	1.6
150.0	492.0	16.170	61.11	52.0	2.9

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

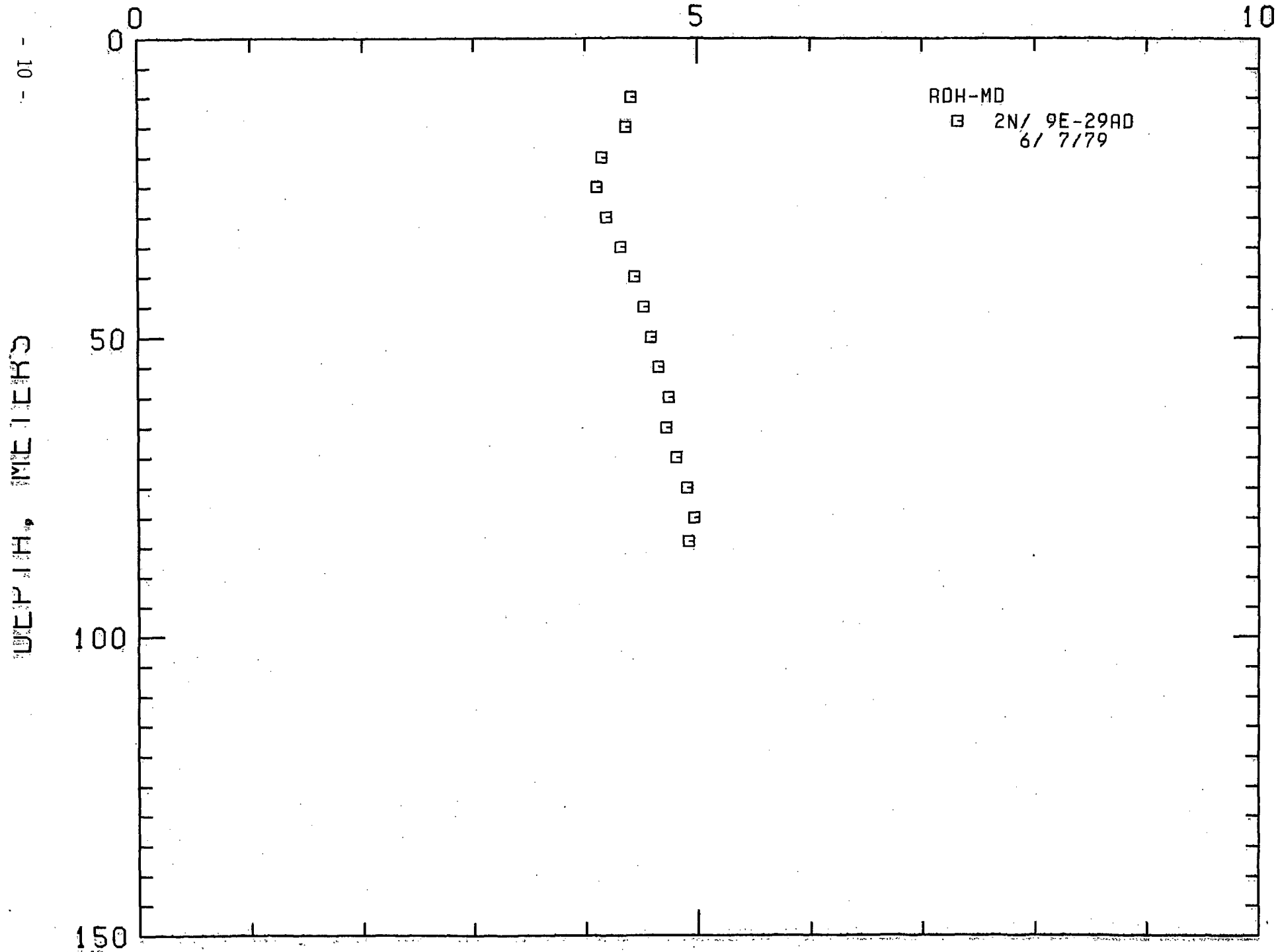
2N/ 9E-29AD

HOLE NAME: RDH-MD

DATE MEASURED: 6/ 7/79

DEPTH METERS	TEMPERATURE DEG C	GRADIENT DEG C/KM
10.0	4.410	0.0
15.0	4.360	-10.0
20.0	4.150	-42.0
25.0	4.100	-10.0
30.0	4.190	18.0
35.0	4.320	26.0
40.0	4.440	24.0
45.0	4.520	16.0
50.0	4.580	12.0
55.0	4.650	14.0
60.0	4.740	18.0
65.0	4.720	-4.0
70.0	4.810	18.0
75.0	4.910	20.0
80.0	4.970	12.0
84.0	4.920	-12.5

TEMPERATURE, DEG C



RDH-MD
2N/ 9E-29AD
6/ 7/79

- 10 -

DEPTH, METERS

LOCATION: VANCOUVER AMS, OREGON

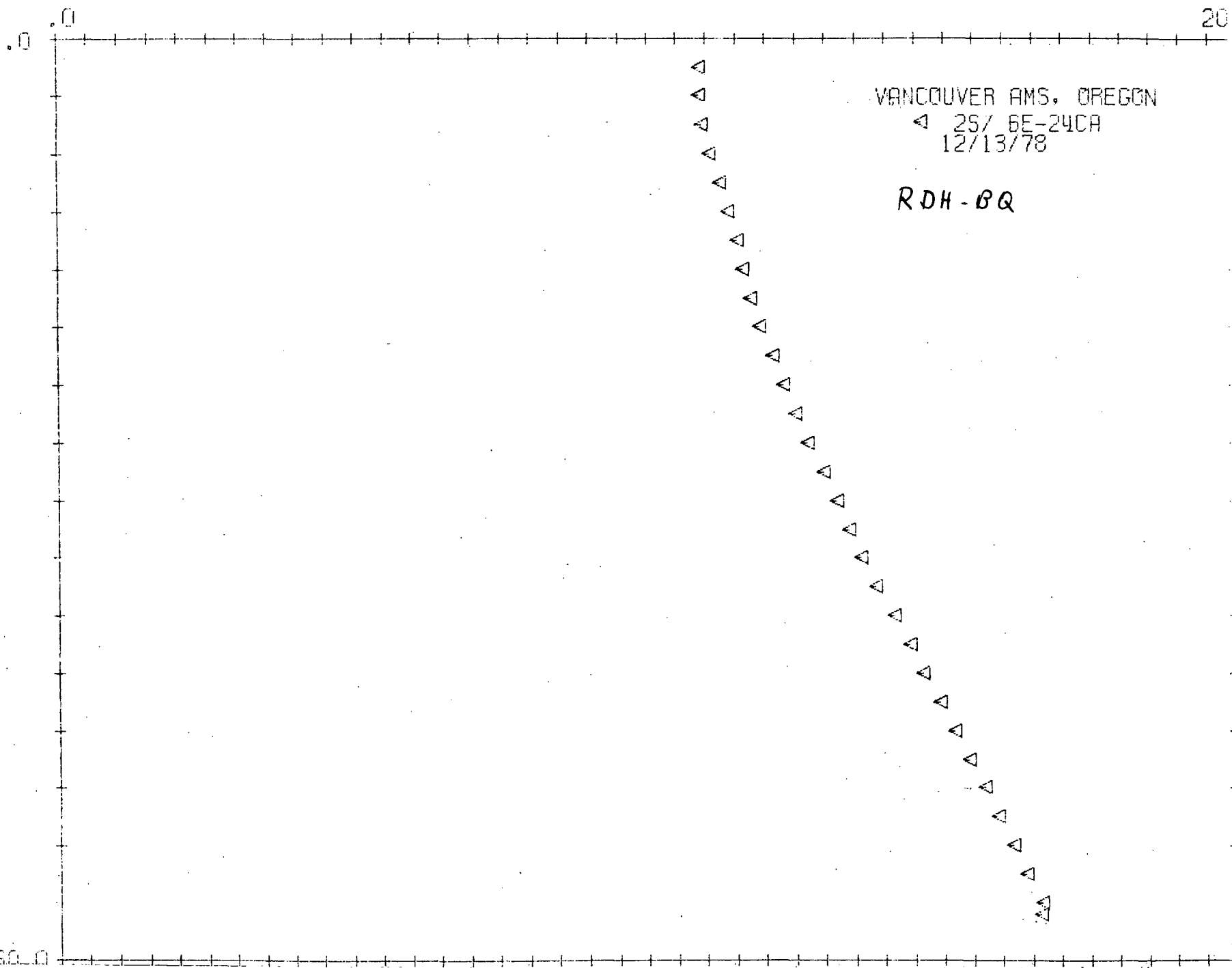
25/ 6E-24CA

HOLE NAME: RDH-BQ

DATE MEASURED: 12/13/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	10.880	51.58	0.0	0.0
10.0	32.8	10.890	51.60	2.0	0.1
15.0	49.2	10.940	51.69	10.0	0.5
20.0	65.6	11.070	51.93	26.0	1.4
25.0	82.0	11.240	52.23	34.0	1.9
30.0	98.4	11.370	52.47	26.0	1.4
35.0	114.8	11.530	52.75	32.0	1.7
40.0	131.2	11.630	52.93	20.0	1.1
45.0	147.6	11.750	53.15	24.0	1.3
50.0	164.0	11.910	53.44	32.0	1.7
55.0	180.4	12.130	53.83	44.0	2.4
60.0	196.8	12.320	54.18	38.0	2.1
65.0	213.2	12.510	54.52	38.0	2.1
70.0	229.6	12.720	54.90	42.0	2.3
75.0	246.0	12.980	55.36	52.0	2.9
80.0	262.4	13.190	55.74	42.0	2.3
85.0	278.8	13.390	56.10	40.0	2.2
90.0	295.2	13.600	56.48	42.0	2.3
95.0	311.6	13.840	56.91	48.0	2.6
100.0	328.0	14.150	57.47	62.0	3.4
105.0	344.4	14.420	57.96	54.0	3.0
110.0	360.8	14.640	58.35	44.0	2.4
115.0	377.2	14.930	58.87	58.0	3.2
120.0	393.6	15.170	59.31	48.0	2.6
125.0	410.0	15.430	59.77	52.0	2.8
130.0	426.4	15.680	60.22	50.0	2.7
135.0	442.8	15.920	60.66	48.0	2.6
140.0	459.2	16.180	61.12	52.0	2.8
145.0	475.6	16.410	61.54	46.0	2.5
150.0	492.0	16.670	62.01	52.0	2.8
152.0	498.6	16.650	61.97	-10.0	-0.5

TEMPERATURE, DEG C



DATE - SURF

LOCATION: VANCOUVER AMS, OREGON

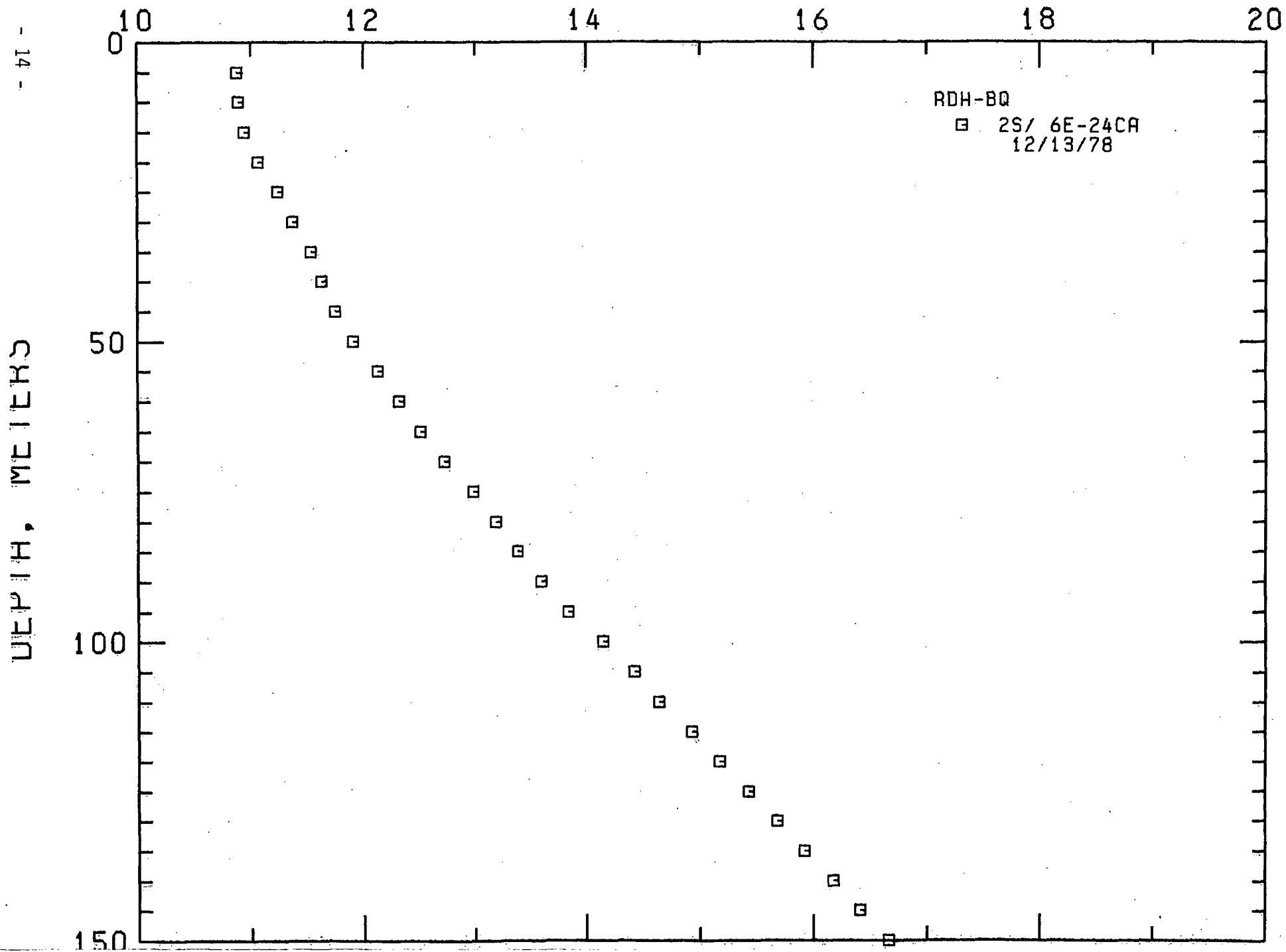
25/ 6E-24CA

HOLE NAME: RDH-BQ

DATE MEASURED: 12/13/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	10.880	51.58	0.0	0.0
10.0	32.8	10.890	51.60	2.0	0.1
15.0	49.2	10.940	51.69	10.0	0.5
20.0	65.6	11.070	51.93	26.0	1.4
25.0	82.0	11.240	52.23	34.0	1.9
30.0	98.4	11.370	52.47	26.0	1.4
35.0	114.8	11.530	52.75	32.0	1.8
40.0	131.2	11.630	52.93	20.0	1.1
45.0	147.6	11.750	53.15	24.0	1.3
50.0	164.0	11.910	53.44	32.0	1.8
55.0	180.4	12.130	53.83	44.0	2.4
60.0	196.8	12.320	54.18	38.0	2.1
65.0	213.2	12.510	54.52	38.0	2.1
70.0	229.6	12.720	54.90	42.0	2.3
75.0	246.0	12.980	55.36	52.0	2.9
80.0	262.4	13.190	55.74	42.0	2.3
85.0	278.8	13.390	56.10	40.0	2.2
90.0	295.2	13.600	56.48	42.0	2.3
95.0	311.6	13.840	56.91	48.0	2.6
100.0	328.0	14.150	57.47	62.0	3.4
105.0	344.4	14.420	57.96	54.0	3.0
110.0	360.8	14.640	58.35	44.0	2.4
115.0	377.2	14.930	58.87	58.0	3.2
120.0	393.6	15.170	59.31	48.0	2.6
125.0	410.0	15.430	59.77	52.0	2.9
130.0	426.4	15.680	60.22	50.0	2.7
135.0	442.8	15.920	60.66	48.0	2.6
140.0	459.2	16.180	61.12	52.0	2.9
145.0	475.6	16.410	61.54	46.0	2.5
150.0	492.0	16.670	62.01	52.0	2.9
152.0	498.6	16.650	61.97	10.0	0.5

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

2S/ 8E-15CD

HOLE NAME: OLD MAID (NNG-OMF2)

DATE MEASURED: 11/16/78 (USGS Log)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.7	18.7	7.198	44.96	0.0	0.0
10.1	33.0	7.112	44.80	-19.7	-1.1
14.9	49.0	7.347	45.22	48.2	2.6
19.0	65.0	7.971	46.35	128.0	7.0
25.3	83.0	8.681	47.63	129.4	7.1
30.2	99.0	9.206	48.57	107.7	5.9
35.1	115.0	9.682	49.43	97.6	5.4
39.9	131.0	10.171	50.31	100.3	5.5
44.0	147.0	10.581	51.05	84.1	4.6
50.3	165.0	11.066	51.92	88.4	4.9
55.2	181.0	11.310	52.36	50.0	2.7
60.0	196.9	11.572	52.83	53.7	2.9
64.9	212.9	11.857	53.34	58.4	3.2
69.0	228.9	12.134	53.84	56.8	3.1
75.0	246.9	12.482	54.47	63.4	3.5
80.2	262.9	12.803	55.05	65.8	3.6
85.0	278.9	13.135	55.64	68.1	3.7
89.9	294.9	13.426	56.17	59.7	3.3
94.0	310.9	13.773	56.79	71.2	3.9
100.3	328.9	14.098	57.38	59.2	3.3
105.2	344.9	14.441	57.99	70.3	3.9
110.0	360.9	14.738	58.53	60.9	3.3
114.9	376.9	15.093	59.17	72.8	4.0
119.0	392.9	15.413	59.74	65.6	3.6
125.3	410.9	15.869	60.56	83.1	4.6
130.1	426.9	16.203	61.17	68.5	3.8
135.0	442.9	16.524	61.74	65.8	3.6
139.9	458.9	16.864	62.36	69.7	3.8
145.4	476.9	17.212	62.98	63.4	3.5
150.9	492.9	17.540	63.57	67.3	3.7
155.1	508.9	17.878	64.18	69.3	3.8
160.0	524.9	18.222	64.80	70.5	3.9
164.9	540.9	18.515	65.33	60.1	3.3
169.0	556.9	18.888	66.00	76.5	4.2
175.3	574.9	19.259	66.67	67.6	3.7
180.1	590.8	19.611	67.30	72.2	4.0
185.0	606.8	19.939	67.89	67.3	3.7
189.9	622.8	20.296	68.53	73.2	4.0
194.0	638.8	20.616	69.11	65.6	3.6
200.3	656.8	21.010	69.82	71.8	3.9
204.5	670.8	21.321	70.38	72.9	4.0

LOCATION: THE DALLES AMS, OREGON

PAGE 2

25/ 8E-15CD

HOLE NAME: OLD MAID

DATE MEASURED: 11/16/78 (USGS LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
210.0	688.8	21.699	71.06	68.9	3.8
214.9	704.8	22.068	71.72	75.7	4.2
219.8	720.8	22.398	72.32	67.7	3.7
225.2	738.8	22.766	72.98	67.1	3.7
230.1	754.8	23.101	73.58	68.7	3.8
235.0	770.8	23.414	74.15	64.2	3.5
239.9	786.8	23.795	74.83	78.1	4.3
244.8	802.8	24.168	75.50	76.5	4.4
250.2	820.8	24.519	76.13	64.0	3.5
255.1	836.8	24.760	76.57	49.4	2.7
260.0	852.8	24.983	76.97	45.7	2.5
264.9	868.8	25.255	77.46	55.8	3.1
269.7	884.8	25.539	77.97	58.2	3.2
275.2	902.8	25.871	78.57	60.5	3.3
280.1	918.8	26.101	78.98	47.2	2.6
285.0	934.8	26.365	79.46	54.1	3.0
289.9	950.8	26.688	80.04	66.2	3.6
294.7	966.8	26.947	80.50	53.1	2.9
299.6	982.7	27.297	81.13	71.8	3.9
305.1	1000.7	27.607	81.69	56.5	3.1
310.6	1018.7	27.888	82.20	51.2	2.8
314.9	1032.7	28.121	82.62	54.6	3.0
319.7	1048.7	28.366	83.06	50.2	2.8
325.2	1066.7	28.692	83.65	59.4	3.3
330.1	1082.7	28.904	84.03	43.5	2.4
335.0	1098.7	29.107	84.39	41.6	2.3
339.9	1114.7	29.298	84.74	39.2	2.1
345.3	1132.7	29.553	85.20	46.5	2.6
350.2	1148.7	29.793	85.63	49.2	2.7
355.1	1164.7	30.062	86.11	55.2	3.0
360.0	1180.7	30.331	86.60	55.2	3.0
364.8	1196.7	30.539	86.97	42.7	2.3
369.7	1212.7	30.740	87.33	41.2	2.3
375.2	1230.7	30.924	87.66	33.5	1.8
380.1	1246.7	31.074	87.93	30.8	1.7
385.0	1262.7	31.235	88.22	33.0	1.8
390.4	1280.7	31.437	88.59	36.8	2.0
394.7	1294.7	31.541	88.77	24.4	1.3
400.2	1312.7	31.676	89.02	24.6	1.4
405.1	1328.7	31.815	89.27	28.5	1.6
410.0	1344.7	31.901	89.42	17.6	1.0

LOCATION: THE DALLES AMS, OREGON

PAGE 3

25/ 8E-15CD

HOLE NAME: OLD MAID

DATE MEASURED: 11/16/78 (USGS LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
416.7	1366.6	32.031	89.66	19.4	1.1
419.7	1376.6	32.092	89.77	20.0	1.1
425.2	1394.6	32.217	89.99	22.8	1.3
429.5	1408.6	32.774	90.99	130.5	7.2
434.9	1426.6	33.228	91.81	82.7	4.5
440.4	1444.6	33.632	92.54	73.6	4.0
444.7	1458.6	34.178	93.52	128.0	7.0
450.2	1476.6	34.397	93.91	39.9	2.2
455.1	1492.6	34.614	94.31	44.5	2.4
459.9	1508.6	34.796	94.63	37.3	2.0
464.8	1524.6	35.014	95.03	44.7	2.5
470.3	1542.6	35.273	95.49	47.2	2.6
475.2	1558.6	35.504	95.91	47.4	2.6
480.1	1574.6	35.712	96.28	42.7	2.3
484.9	1590.6	36.841	98.31	231.5	12.7
490.4	1608.6	37.408	99.33	103.3	5.7
495.3	1624.6	37.791	100.02	78.5	4.3
500.2	1640.6	37.941	100.29	30.8	1.7
505.1	1656.6	38.140	100.65	40.8	2.2
509.9	1672.6	38.354	101.04	43.9	2.4
515.4	1690.6	38.683	101.63	60.0	3.3
520.3	1706.6	38.914	102.05	47.4	2.6
525.2	1722.6	39.204	102.57	59.5	3.3
530.0	1738.6	39.536	103.16	68.1	3.7
535.5	1756.6	39.902	103.82	66.7	3.7
539.8	1770.5	40.158	104.28	60.0	3.3
545.3	1788.5	40.529	104.95	67.6	3.7
550.2	1804.5	40.841	105.51	64.0	3.5
555.0	1820.5	41.286	106.31	91.2	5.0
559.9	1836.5	41.608	106.89	66.0	3.6
564.8	1852.5	41.880	107.38	55.8	3.1
570.3	1870.5	42.226	108.01	63.1	3.5
575.2	1886.5	43.075	109.54	174.1	9.6
580.0	1902.5	43.485	110.27	84.1	4.6
584.9	1918.5	43.753	110.76	55.0	3.0
589.8	1934.5	43.989	111.18	48.4	2.7
595.3	1952.5	44.355	111.84	66.7	3.7
600.2	1968.5	44.649	112.37	60.3	3.3
605.0	1984.5	45.042	113.08	80.6	4.4
609.9	2000.5	45.560	114.01	106.2	5.8
615.4	2018.5	46.258	115.26	127.2	7.0

LOCATION: THE DALLES AMS, OREGON

PAGE 4

25/ 8E-15CD

HOLE NAME: OLD MAID

DATE MEASURED: 11/16/78 (VS GS LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
620.3	2034.5	46.757	116.16	102.3	5.6
625.1	2050.5	47.142	116.86	78.9	4.3
630.0	2066.5	47.550	117.59	83.7	4.6
634.9	2082.5	47.992	118.39	90.6	5.0
639.8	2098.5	48.755	119.76	156.5	8.6
645.3	2116.5	49.223	120.60	85.3	4.7
650.1	2132.5	49.507	121.11	58.2	3.2
654.4	2146.4	49.833	121.70	76.4	4.2
659.9	2164.4	50.241	122.43	74.4	4.1
664.8	2180.4	50.564	123.02	66.2	3.6
670.3	2198.4	51.106	123.99	98.8	5.4
675.1	2214.4	51.397	124.51	59.7	3.3
680.0	2230.4	51.632	124.94	48.2	2.6
684.9	2246.4	51.873	125.37	49.4	2.7
689.8	2262.4	53.351	128.03	303.1	16.6
695.2	2280.4	53.510	128.32	29.0	1.6
700.1	2296.4	53.668	128.60	32.4	1.8
705.0	2312.4	53.872	128.97	41.8	2.3
709.9	2328.4	54.048	129.29	36.1	2.0
714.8	2344.4	54.218	129.59	34.9	1.9
720.2	2362.4	54.329	129.79	20.2	1.1
725.1	2378.4	54.392	129.91	12.9	0.7
730.0	2394.4	54.476	130.06	17.2	0.9
734.9	2410.4	54.843	130.72	75.3	4.1
739.7	2426.4	54.990	130.98	30.1	1.7
745.2	2444.4	55.065	131.12	13.7	0.8
750.1	2460.4	55.156	131.28	18.7	1.0
755.0	2476.4	55.282	131.51	25.8	1.4
759.9	2492.4	55.395	131.71	23.2	1.3
764.7	2508.4	55.517	131.93	25.0	1.4
770.2	2526.4	55.689	132.24	31.4	1.7
775.1	2542.3	55.849	132.53	32.8	1.8
780.0	2558.3	55.999	132.80	30.8	1.7
784.9	2574.3	56.140	133.05	28.9	1.6
789.7	2590.3	56.289	133.32	30.6	1.7
795.2	2608.3	56.455	133.62	30.3	1.7
800.1	2624.3	56.623	133.92	34.4	1.9
805.0	2640.3	56.785	134.21	33.2	1.8
809.9	2656.3	56.949	134.51	33.6	1.8
814.7	2672.3	57.124	134.82	35.9	2.0
820.2	2690.3	57.329	135.19	37.4	2.1

LOCATION: THE DALLES AMS, OREGON

PAGE 5

2S/ 8E-15CD

HOLE NAME: OLD MAID

DATE MEASURED: 11/16/78 (V S & S LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
825.1	2706.3	57.513	135.52	37.7	2.1
830.0	2722.3	57.713	135.88	41.0	2.3
834.8	2738.3	57.925	136.27	43.5	2.4
839.7	2754.3	58.136	136.64	43.3	2.4
845.2	2772.3	58.393	137.11	46.8	2.6
850.1	2788.3	58.634	137.54	49.4	2.7
855.0	2804.3	58.883	137.99	51.1	2.8
859.8	2820.3	59.149	138.47	54.5	3.0
864.7	2836.3	59.431	138.98	57.8	3.2
870.2	2854.3	59.739	139.53	56.1	3.1
875.1	2870.3	60.018	140.03	57.2	3.1
880.0	2886.3	60.322	140.58	62.3	3.4
884.8	2902.3	60.638	141.15	64.8	3.6
889.7	2918.3	60.948	141.71	63.6	3.5
895.2	2936.2	61.298	142.34	63.8	3.5
900.1	2952.2	61.601	142.88	62.1	3.4
905.0	2968.2	61.917	143.45	64.8	3.6
909.8	2984.2	62.200	143.96	58.0	3.2
914.7	3000.2	62.535	144.56	68.7	3.8
920.2	3018.2	62.921	145.26	70.4	3.9
925.1	3034.2	63.267	145.88	70.9	3.9
929.9	3050.2	63.628	146.53	74.0	4.1
934.8	3066.2	64.036	147.26	83.7	4.6
940.3	3084.2	64.503	148.11	85.1	4.7
945.2	3100.2	64.919	148.85	85.3	4.7
950.1	3116.2	65.340	149.61	86.3	4.7
954.9	3132.2	65.766	150.38	87.4	4.8
959.8	3148.2	66.179	151.12	84.7	4.6
965.3	3166.2	66.633	151.94	82.8	4.5
970.2	3182.2	67.015	152.63	78.3	4.3
975.1	3198.2	67.434	153.38	85.9	4.7
979.9	3214.2	67.797	154.03	74.4	4.1
984.8	3230.2	68.126	154.63	67.5	3.7
990.3	3248.2	68.489	155.28	66.2	3.6
995.2	3264.2	68.824	155.88	68.7	3.8
1000.0	3280.2	69.172	156.51	71.4	3.9
1004.9	3296.2	69.508	157.11	68.9	3.8
1009.8	3312.2	69.811	157.66	62.1	3.4
1015.3	3330.1	70.108	158.19	54.1	3.0
1020.2	3346.1	70.351	158.63	49.8	2.7
1025.0	3362.1	70.605	159.09	52.1	2.9

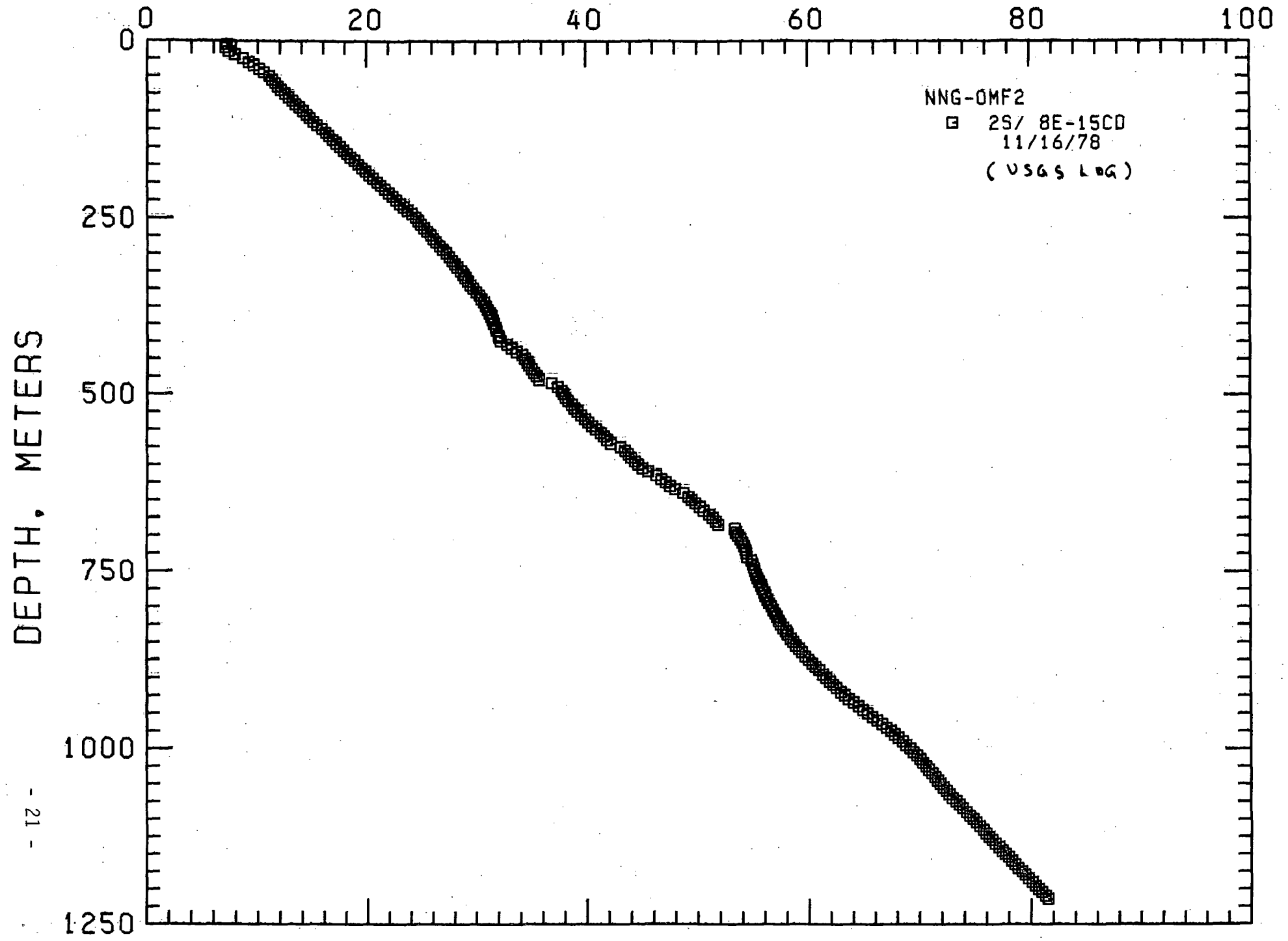
LOCATION: THE DALLES AMS, OREGON
2S/ 8E-15CD

PAGE 6

HOLE NAME: OLD MAID
DATE MEASURED: 11/16/78 (USGS LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
1029.9	3378.1	70.859	159.55	52.1	2.9
1034.8	3394.1	71.118	160.01	53.1	2.9
1040.3	3412.1	71.401	160.52	51.6	2.8
1045.2	3428.1	71.654	160.98	51.9	2.8
1050.0	3444.1	71.909	161.44	52.3	2.9
1054.9	3460.1	72.185	161.93	56.6	3.1
1059.8	3476.1	72.442	162.40	52.7	2.9
1065.3	3494.1	72.700	162.86	47.0	2.6
1070.2	3510.1	72.988	163.38	59.1	3.2
1075.0	3526.1	73.325	163.99	69.1	3.8
1079.9	3542.1	73.619	164.51	60.3	3.3
1084.8	3558.1	73.903	165.03	58.2	3.2
1090.3	3576.1	74.238	165.63	61.1	3.4
1095.1	3592.1	74.530	166.15	59.9	3.3
1100.0	3608.1	74.813	166.66	58.0	3.2
1104.9	3624.1	75.087	167.16	56.2	3.1
1109.8	3640.1	75.368	167.66	57.6	3.2
1115.3	3658.1	75.693	168.25	59.2	3.3
1120.1	3674.1	75.952	168.71	53.1	2.9
1125.0	3690.1	76.246	169.24	60.3	3.3
1129.9	3706.1	76.524	169.74	57.0	3.1
1134.8	3722.0	76.803	170.25	57.2	3.1
1140.3	3740.0	77.132	170.84	60.0	3.2
1145.1	3756.0	77.420	171.36	59.1	3.2
1150.0	3772.0	77.698	171.86	57.0	3.1
1154.9	3788.0	77.984	172.37	58.6	3.2
1159.8	3804.0	78.263	172.87	57.2	3.1
1165.3	3822.0	78.586	173.45	58.9	3.2
1170.1	3838.0	78.875	173.98	59.3	3.3
1175.0	3854.0	79.184	174.53	63.4	3.5
1179.9	3870.0	79.475	175.06	59.7	3.3
1184.8	3886.0	79.762	175.57	58.8	3.2
1190.2	3904.0	80.094	176.17	60.5	3.3
1195.1	3920.0	80.387	176.70	60.1	3.2
1200.0	3936.0	80.679	177.22	59.9	3.3
1204.9	3952.0	80.973	177.75	60.3	3.3
1209.8	3968.0	81.297	178.33	65.4	3.6
1214.0	3982.0	81.568	178.82	63.5	3.5

TEMPERATURE, DEG C



NNG-OMF2
29/ 8E-1500
11/16/78
(USGS LOG)

DEPTH, METERS

LOCATION: THE DALLES AMS, OREGON

25/ 8E/17CC

HOLE NAME: OLD MAID (NN6-DMF 3)

DATE MEASURED: 12/21/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.970	48.15	0.0	0.0
15.0	49.2	9.390	48.90	84.0	4.6
20.0	65.6	9.890	49.80	100.0	5.5
25.0	82.0	10.110	50.20	44.0	2.4
30.0	98.4	10.370	50.67	52.0	2.9
35.0	114.8	10.650	51.17	56.0	3.1
40.0	131.2	10.780	51.40	26.0	1.4
45.0	147.6	10.830	51.49	10.0	0.5
50.0	164.0	11.000	51.80	34.0	1.9
55.0	180.4	11.190	52.14	38.0	2.1
60.0	196.8	11.360	52.45	34.0	1.9
65.0	213.2	11.480	52.66	24.0	1.3
70.0	229.6	11.810	53.26	66.0	3.6
75.0	246.0	11.940	53.49	26.0	1.4
80.0	262.4	12.010	53.62	14.0	0.8
85.0	278.8	12.120	53.82	22.0	1.2
90.0	295.2	12.330	54.19	42.0	2.3
95.0	311.6	12.670	54.81	68.0	3.7
100.0	328.0	12.870	55.17	40.0	2.2
105.0	344.4	13.200	55.76	66.0	3.6
110.0	360.8	13.380	56.08	36.0	2.0
115.0	377.2	13.680	56.62	60.0	3.3
120.0	393.6	13.990	57.18	62.0	3.4
125.0	410.0	14.240	57.63	50.0	2.7
130.0	426.4	14.600	58.28	72.0	4.0
135.0	442.8	14.750	58.55	30.0	1.6
140.0	459.2	15.000	59.00	50.0	2.7
145.0	475.6	15.290	59.52	58.0	3.2
150.0	492.0	15.520	59.94	46.0	2.5
155.0	508.4	15.780	60.40	52.0	2.9
160.0	524.8	16.010	60.82	46.0	2.5
165.0	541.2	16.260	61.27	50.0	2.7
170.0	557.6	16.510	61.72	50.0	2.7
175.0	574.0	16.950	62.51	88.0	4.8
180.0	590.4	17.090	62.76	28.0	1.5
185.0	606.8	17.290	63.12	40.0	2.2
190.0	623.2	17.760	63.97	94.0	5.2
195.0	639.6	18.190	64.74	86.0	4.7
200.0	656.0	18.290	64.92	20.0	1.1
205.0	672.4	18.550	65.39	52.0	2.9
210.0	688.8	18.920	66.06	74.0	4.1

LOCATION: THE DALLES AMS, OREGON

PAGE 2

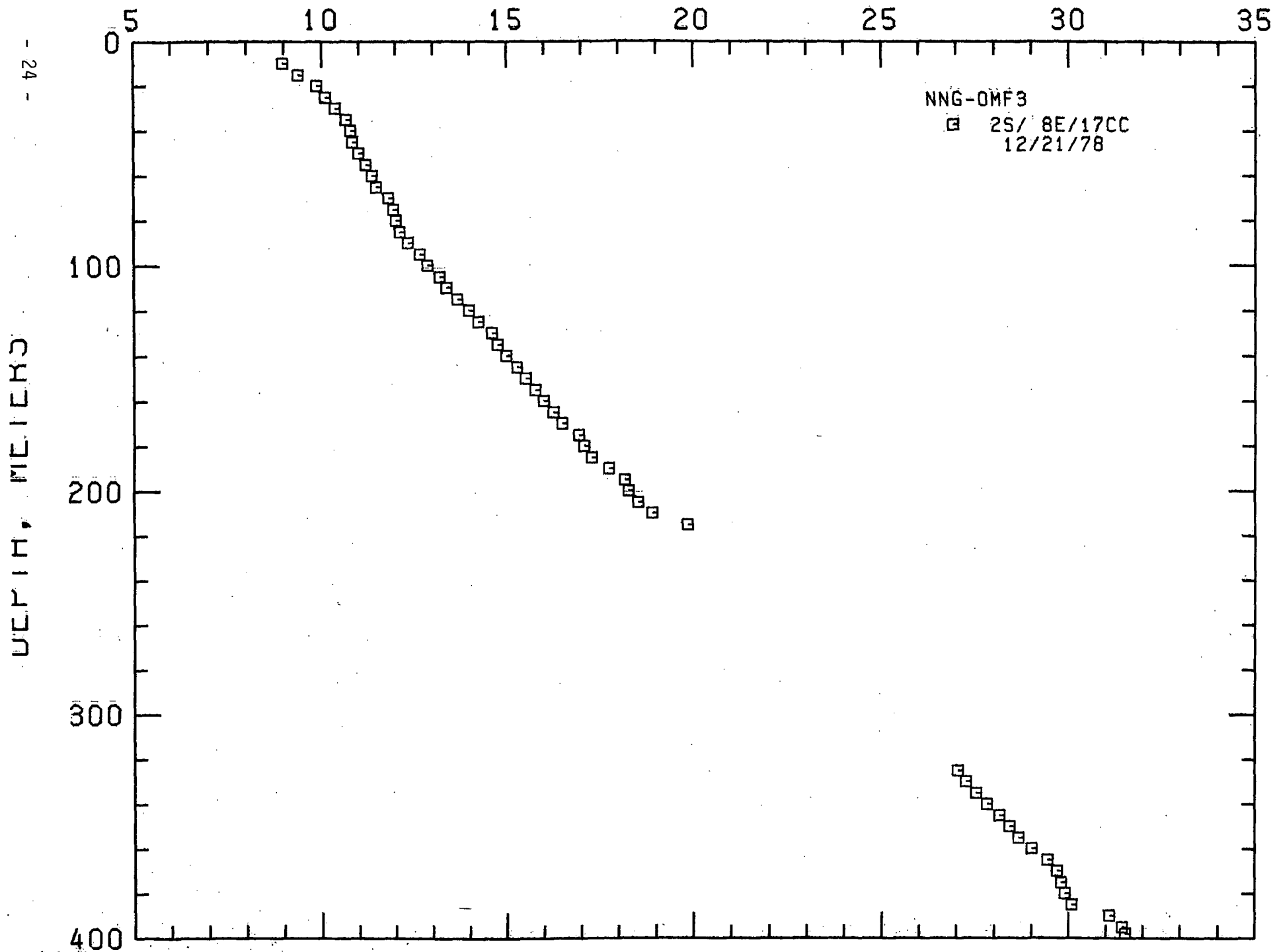
25/ 8E/17CC

HOLE NAME: OLD MAID

DATE MEASURED: 12/21/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
215.0	705.2	19.860	67.75	188.0	10.3
325.0	1066.0	27.070	80.73	65.5	3.6
330.0	1082.4	27.260	81.07	38.0	2.1
335.0	1098.8	27.540	81.57	56.0	3.1
340.0	1115.2	27.830	82.09	58.0	3.2
345.0	1131.6	28.160	82.69	66.0	3.6
350.0	1148.0	28.430	83.17	54.0	3.0
355.0	1164.4	28.680	83.62	50.0	2.7
360.0	1180.8	29.020	84.24	68.0	3.7
365.0	1197.2	29.450	85.01	86.0	4.7
370.0	1213.6	29.700	85.46	50.0	2.7
375.0	1230.0	29.810	85.66	22.0	1.2
380.0	1246.4	29.900	85.82	18.0	1.0
385.0	1262.8	30.090	86.16	38.0	2.1
390.0	1279.2	31.110	88.00	204.0	11.2
395.0	1295.6	31.450	88.61	68.0	3.7
398.0	1305.4	31.530	88.75	26.7	1.5

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

2S/11E- 6AAD

HOLE NAME: RDH-5MB

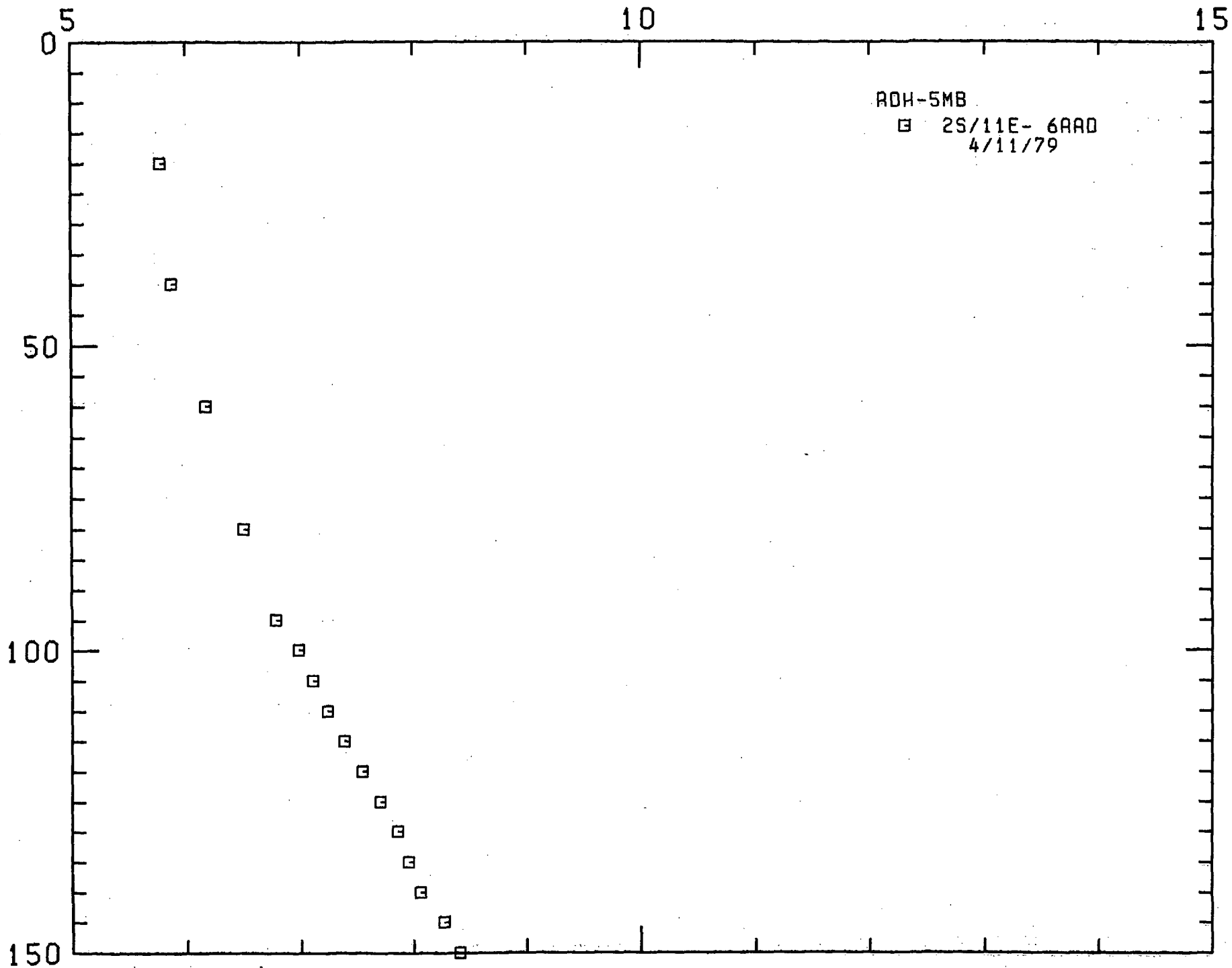
DATE MEASURED: 4/11/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	5.780	42.40	0.0	0.0
40.0	131.2	5.880	42.58	5.0	0.3
60.0	196.8	6.170	43.11	14.5	0.8
80.0	262.4	6.500	43.70	16.5	0.9
95.0	311.6	6.780	44.20	18.7	1.0
100.0	328.0	6.980	44.56	40.0	2.2
105.0	344.4	7.110	44.80	26.0	1.4
110.0	360.8	7.240	45.03	26.0	1.4
115.0	377.2	7.390	45.30	30.0	1.6
120.0	393.6	7.550	45.59	32.0	1.8
125.0	410.0	7.710	45.88	32.0	1.8
130.0	426.4	7.860	46.15	30.0	1.6
135.0	442.8	7.960	46.33	20.0	1.1
140.0	459.2	8.060	46.51	20.0	1.1
145.0	475.6	8.270	46.89	42.0	2.3
150.0	492.0	8.410	47.14	28.0	1.5

TEMPERATURE, DEG C

- 26 -

DEPTH, METERS



LOCATION: THE DALLES AMS, OREGON

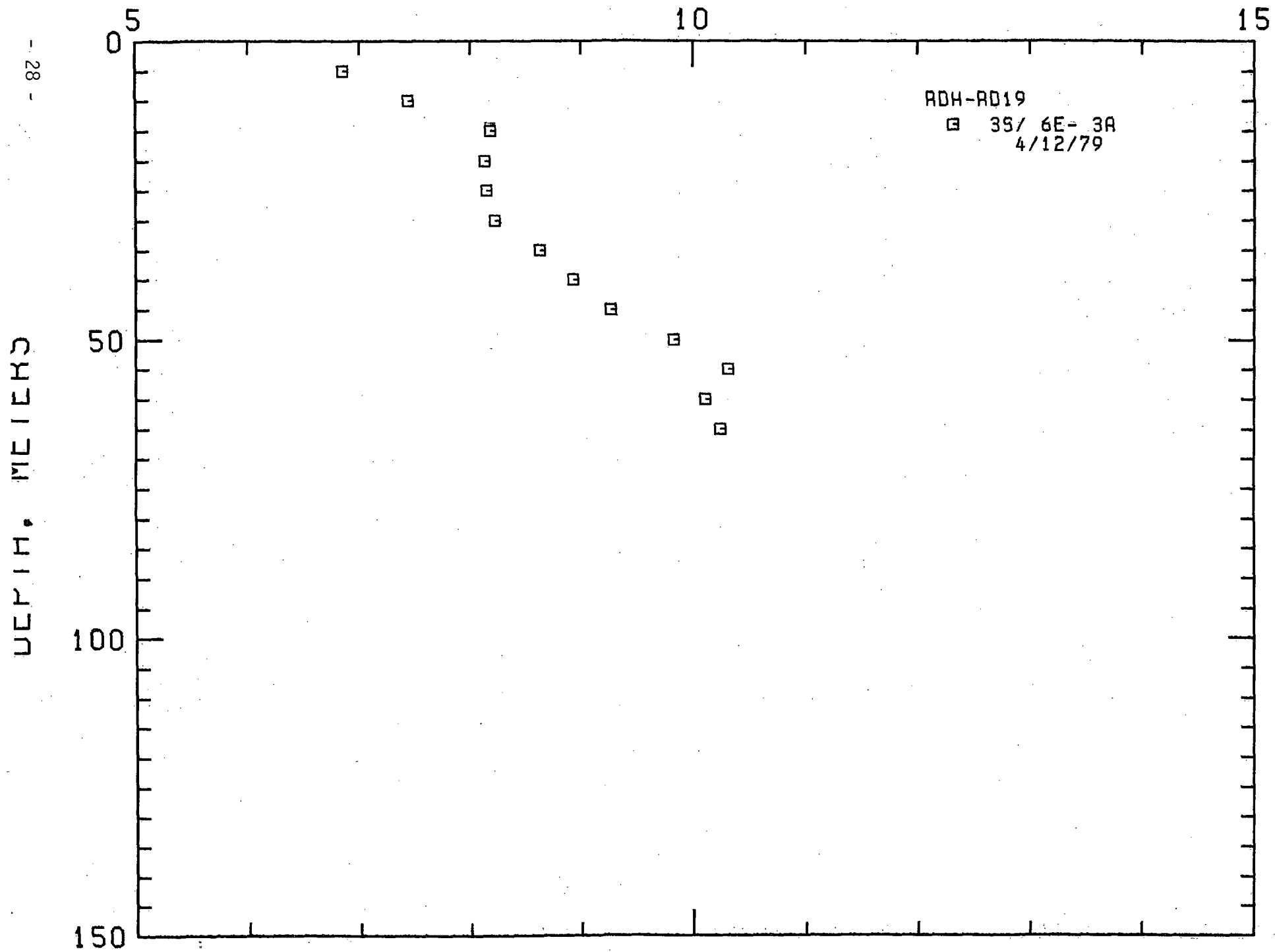
35/ 6E- 3A

HOLE NAME: RDH-RD19

DATE MEASURED: 4/12/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	6.850	44.33	0.0	0.0
10.0	32.8	7.440	45.39	118.0	6.5
15.0	49.2	8.180	46.72	148.0	8.1
20.0	65.6	8.130	46.63	-10.0	-0.5
25.0	82.0	8.150	46.67	4.0	0.2
30.0	98.4	8.220	46.80	14.0	0.8
35.0	114.8	8.630	47.53	82.0	4.5
40.0	131.2	8.930	48.07	60.0	3.3
45.0	147.6	9.270	48.69	68.0	3.7
50.0	164.0	9.830	49.69	112.0	6.1
55.0	180.4	10.310	50.56	96.0	5.3
60.0	196.8	10.110	50.20	-40.0	-2.2
65.0	213.2	10.240	50.43	26.0	1.4

TEMPERATURE, DEG C



Vancouver AMS, OR 56 00

LOCATION: THE DALLES AMS, OREGON

35/ 6E- 3A

HOLE NAME: RDH-RD19

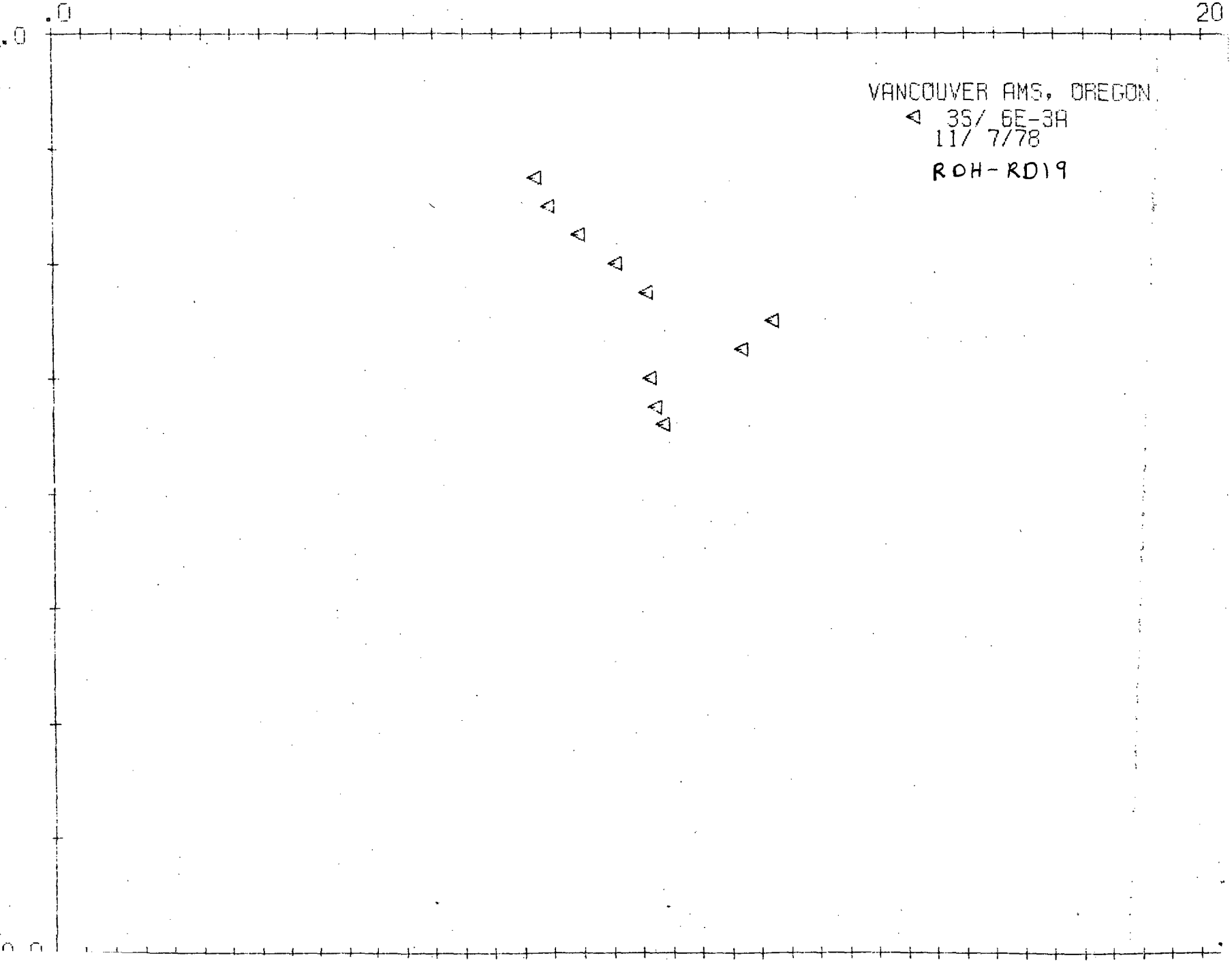
DATE MEASURED: 11/ 7/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
25.0	82.0	8.210	46.78	0.0	0.0
30.0	98.4	8.420	47.16	42.0	2.3
35.0	114.8	8.930	48.07	102.0	5.6
40.0	131.2	9.560	49.21	126.0	6.9
45.0	147.6	10.070	50.13	102.0	5.6
50.0	164.0	12.190	53.94	424.0	23.3
55.0	180.4	11.690	53.04	-100.0	-5.5
60.0	196.8	10.130	50.23	-312.0	-17.1
65.0	213.2	10.220	50.40	18.0	1.0
68.0	223.0	10.350	50.63	43.3	2.4

TEMPERATURE, DEG C

20

VANCOUVER AMS, OREGON
◁ 35/ 6E-3A
11/ 7/78
ROH-RD19



QUALITY SURVEYS

LOCATION: THE DALLES AMS, OREGON
 35/ 8E-29DDC

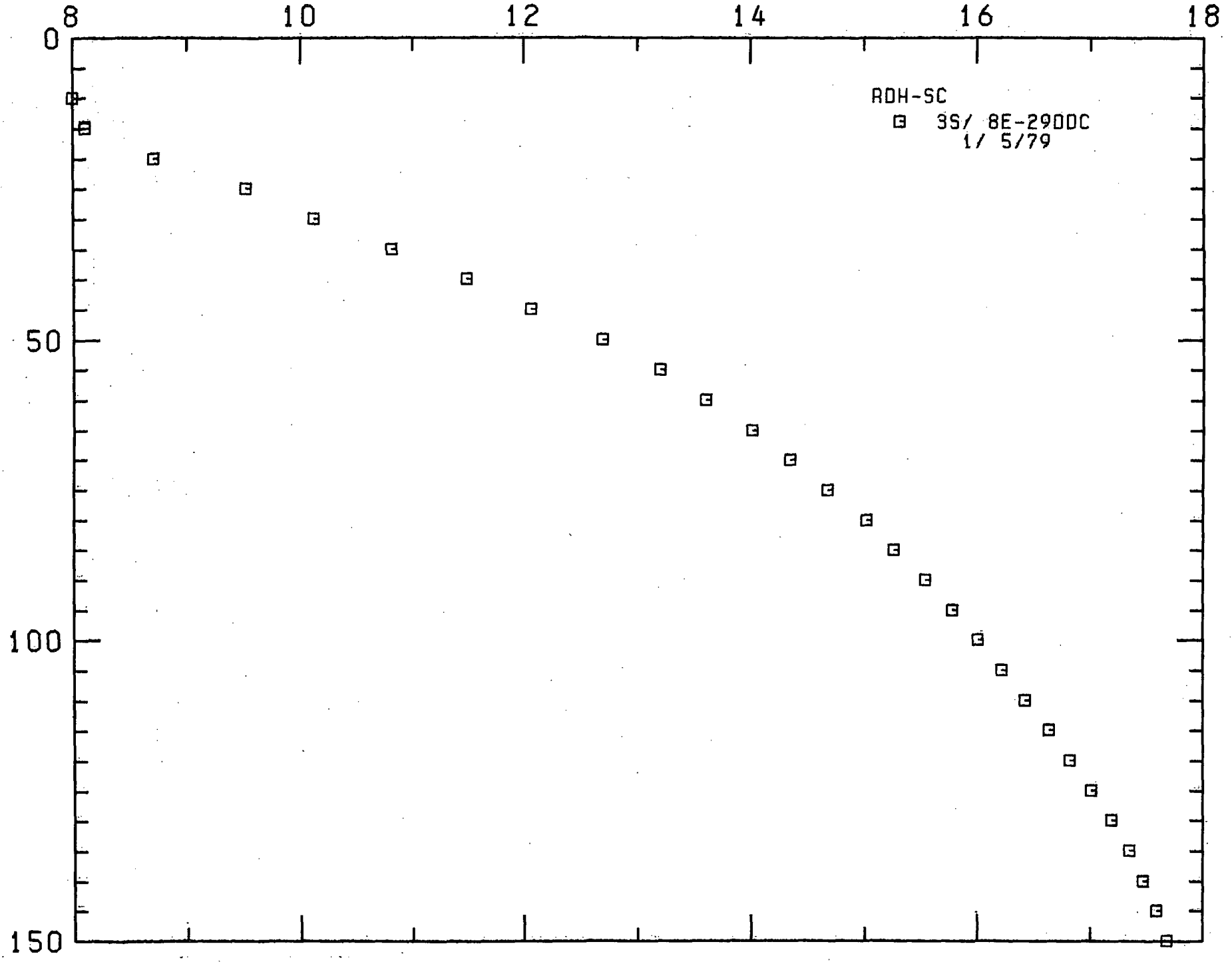
HOLE NAME: RDH-SC
 DATE MEASURED: 1/ 5/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.000	46.40	0.0	0.0
15.0	49.2	8.110	46.60	22.0	1.2
20.0	65.6	8.710	47.68	120.0	6.6
25.0	82.0	9.520	49.14	162.0	8.9
30.0	98.4	10.120	50.22	120.0	6.6
35.0	114.8	10.810	51.46	138.0	7.6
40.0	131.2	11.490	52.68	136.0	7.5
45.0	147.6	12.060	53.71	114.0	6.3
50.0	164.0	12.690	54.84	126.0	6.9
55.0	180.4	13.200	55.76	102.0	5.6
60.0	196.8	13.600	56.48	80.0	4.4
65.0	213.2	14.010	57.22	82.0	4.5
70.0	229.6	14.350	57.83	68.0	3.7
75.0	246.0	14.680	58.42	66.0	3.6
80.0	262.4	15.020	59.04	68.0	3.7
85.0	278.8	15.260	59.47	48.0	2.6
90.0	295.2	15.540	59.97	56.0	3.1
95.0	311.6	15.780	60.40	48.0	2.6
100.0	328.0	16.010	60.82	46.0	2.5
105.0	344.4	16.220	61.20	42.0	2.3
110.0	360.8	16.430	61.57	42.0	2.3
115.0	377.2	16.640	61.95	42.0	2.3
120.0	393.6	16.820	62.28	36.0	2.0
125.0	410.0	17.010	62.62	38.0	2.1
130.0	426.4	17.190	62.94	36.0	2.0
135.0	442.8	17.350	63.23	32.0	1.8
140.0	459.2	17.470	63.45	24.0	1.3
145.0	475.6	17.590	63.66	24.0	1.3
150.0	492.0	17.680	63.82	18.0	1.0
151.0	495.3	17.690	63.84	10.0	0.5

TEMPERATURE, DEG C

- 32 -

DEPTH, METERS



LOCATION: THE DALLES AMS, OREGON

3S/ 9E- 7AB

HOLE NAME: TMBRLN L

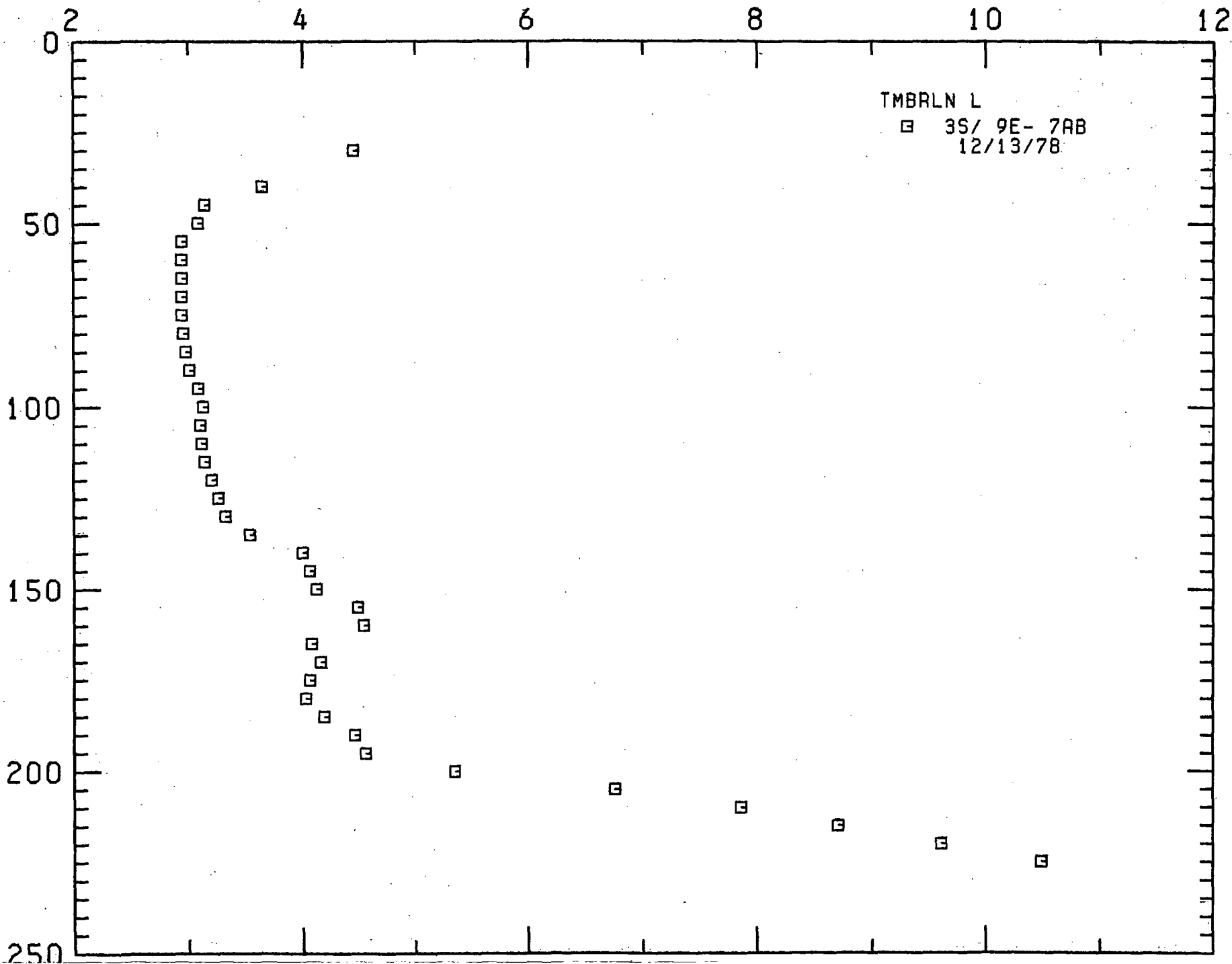
DATE MEASURED: 12/13/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	4.450	40.01	0.0	0.0
40.0	131.2	3.650	38.57	-80.0	-4.4
45.0	147.6	3.150	37.67	-100.0	-5.5
50.0	164.0	3.090	37.56	-12.0	-0.7
55.0	180.4	2.950	37.31	-28.0	-1.5
60.0	196.8	2.950	37.31	0.0	0.0
65.0	213.2	2.950	37.31	0.0	0.0
70.0	229.6	2.950	37.31	0.0	0.0
75.0	246.0	2.950	37.31	0.0	0.0
80.0	262.4	2.960	37.33	2.0	0.1
85.0	278.8	2.980	37.36	4.0	0.2
90.0	295.2	3.010	37.42	6.0	0.3
95.0	311.6	3.090	37.56	16.0	0.9
100.0	328.0	3.130	37.63	8.0	0.4
105.0	344.4	3.110	37.60	-4.0	-0.2
110.0	360.8	3.120	37.62	2.0	0.1
115.0	377.2	3.150	37.67	6.0	0.3
120.0	393.6	3.210	37.78	12.0	0.7
125.0	410.0	3.270	37.89	12.0	0.7
130.0	426.4	3.330	37.99	12.0	0.7
135.0	442.8	3.540	38.37	42.0	2.3
140.0	459.2	4.000	39.20	92.0	5.0
145.0	475.6	4.060	39.31	12.0	0.7
150.0	492.0	4.120	39.42	12.0	0.7
155.0	508.4	4.490	40.08	74.0	4.1
160.0	524.8	4.540	40.17	16.0	0.9
165.0	541.2	4.080	39.34	-92.0	-5.0
170.0	557.6	4.160	39.49	16.0	0.9
175.0	574.0	4.060	39.31	-20.0	-1.1
180.0	590.4	4.030	39.25	-6.0	-0.3
185.0	606.8	4.190	39.54	32.0	1.8
190.0	623.2	4.460	40.03	54.0	3.0
195.0	639.6	4.560	40.21	20.0	1.1
200.0	656.0	5.360	41.65	160.0	8.8
205.0	672.4	6.760	44.17	280.0	15.4
210.0	688.8	7.860	46.15	220.0	12.1
215.0	705.2	8.710	47.68	170.0	9.3
220.0	721.6	9.610	49.30	180.0	9.9
225.0	738.0	10.490	50.88	176.0	9.7

TEMPERATURE, DEG C

- 34 -

DEPTH, METERS



LOCATION: THE DALLES AMS, OREGON

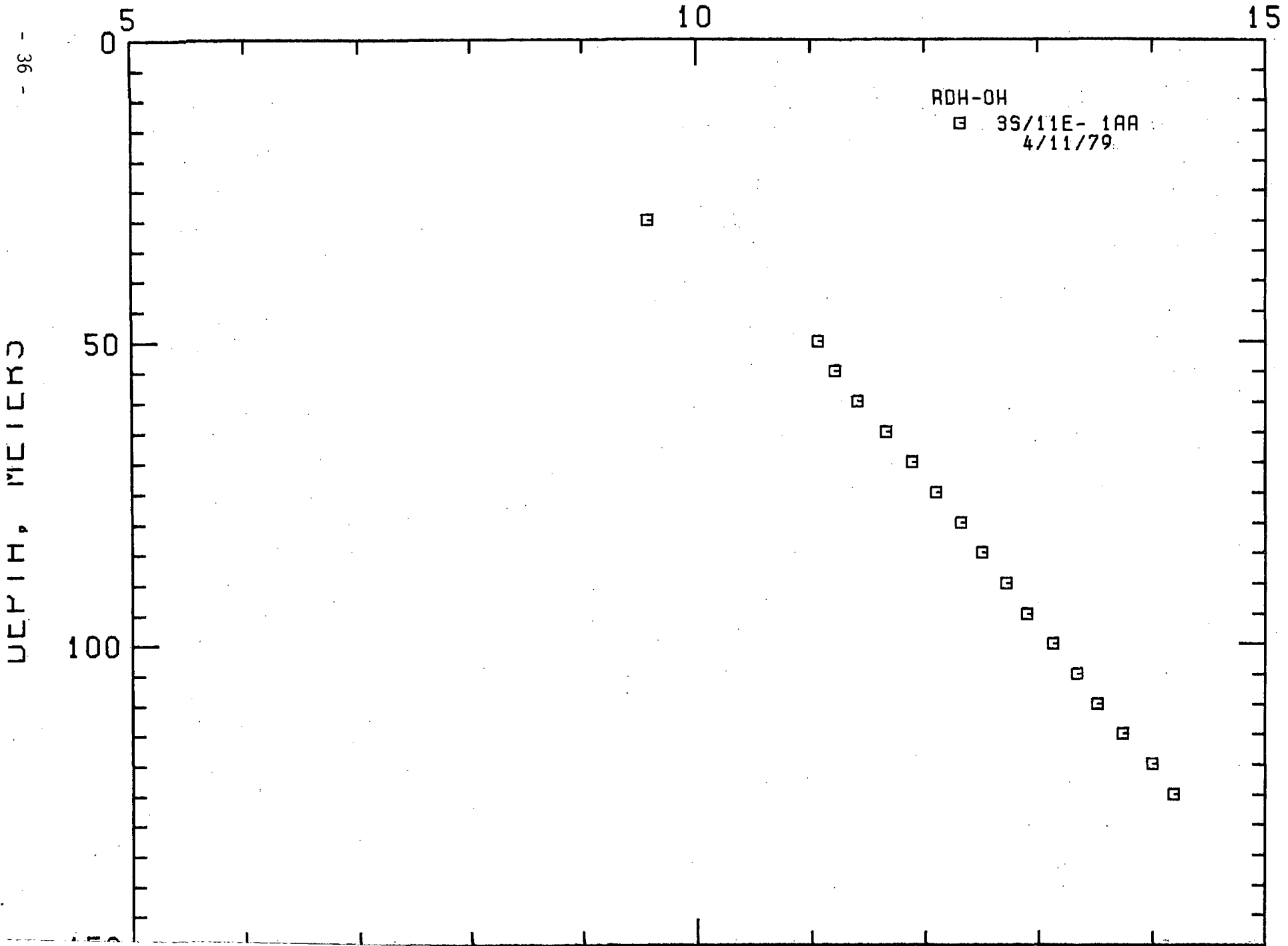
3S/11E- 1AA

HOLE NAME: RDH-OH

DATE MEASURED: 4/11/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	9.570	49.23	0.0	0.0
50.0	164.0	11.060	51.91	74.5	4.1
55.0	180.4	11.210	52.18	30.0	1.6
60.0	196.8	11.410	52.54	40.0	2.2
65.0	213.2	11.660	52.99	50.0	2.7
70.0	229.6	11.890	53.40	46.0	2.5
75.0	246.0	12.100	53.78	42.0	2.3
80.0	262.4	12.320	54.18	44.0	2.4
85.0	278.8	12.510	54.52	38.0	2.1
90.0	295.2	12.720	54.90	42.0	2.3
95.0	311.6	12.900	55.22	36.0	2.0
100.0	328.0	13.130	55.63	46.0	2.5
105.0	344.4	13.340	56.01	42.0	2.3
110.0	360.8	13.520	56.34	36.0	2.0
115.0	377.2	13.740	56.73	44.0	2.4
120.0	393.6	14.000	57.20	52.0	2.9
125.0	410.0	14.190	57.54	38.0	2.1

TEMPERATURE, DEG C



- 36 -

DEPTH, METERS

LOCATION: THE DALLES AMS, OREGON

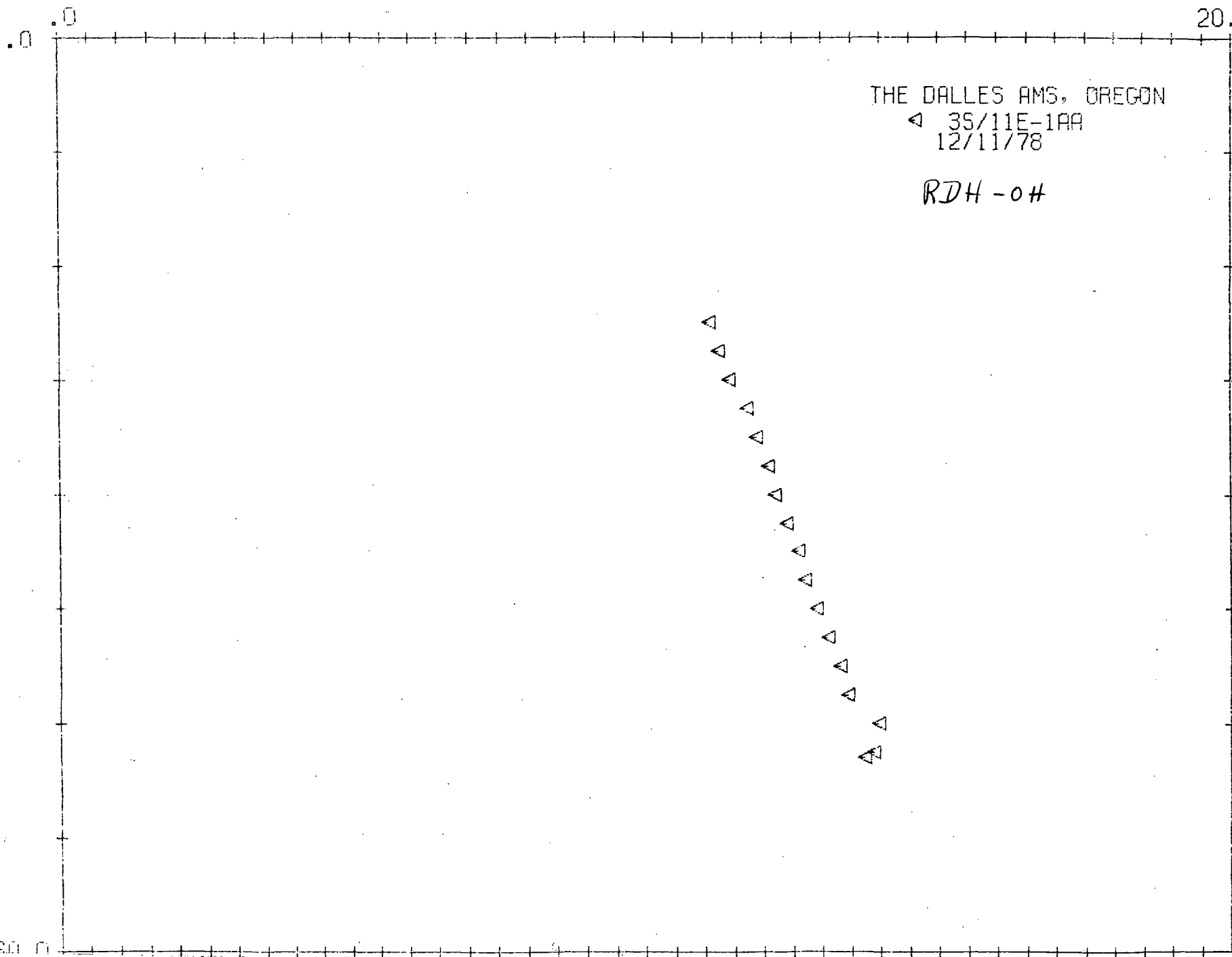
3S/11E- 1AA

HOLE NAME: RDH-OH

DATE MEASURED: 12/11/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
50.0	164.0	11.080	51.94	0.0	0.0
55.0	180.4	11.240	52.23	32.0	1.8
60.0	196.8	11.430	52.57	38.0	2.1
65.0	213.2	11.730	53.11	60.0	3.3
70.0	229.6	11.890	53.40	32.0	1.8
75.0	246.0	12.090	53.76	40.0	2.2
80.0	262.4	12.210	53.98	24.0	1.3
85.0	278.8	12.410	54.34	40.0	2.2
90.0	295.2	12.590	54.66	36.0	2.0
95.0	311.6	12.710	54.88	24.0	1.3
100.0	328.0	12.910	55.24	40.0	2.2
105.0	344.4	13.120	55.62	42.0	2.3
110.0	360.8	13.300	55.94	36.0	2.0
115.0	377.2	13.440	56.19	28.0	1.5
120.0	393.6	13.970	57.15	106.0	5.8
125.0	410.0	13.880	56.98	-18.0	-1.0

TEMPERATURE, DEG C



QUALITY CONTROL

LOCATION: PENDLETON AMS, OREGON

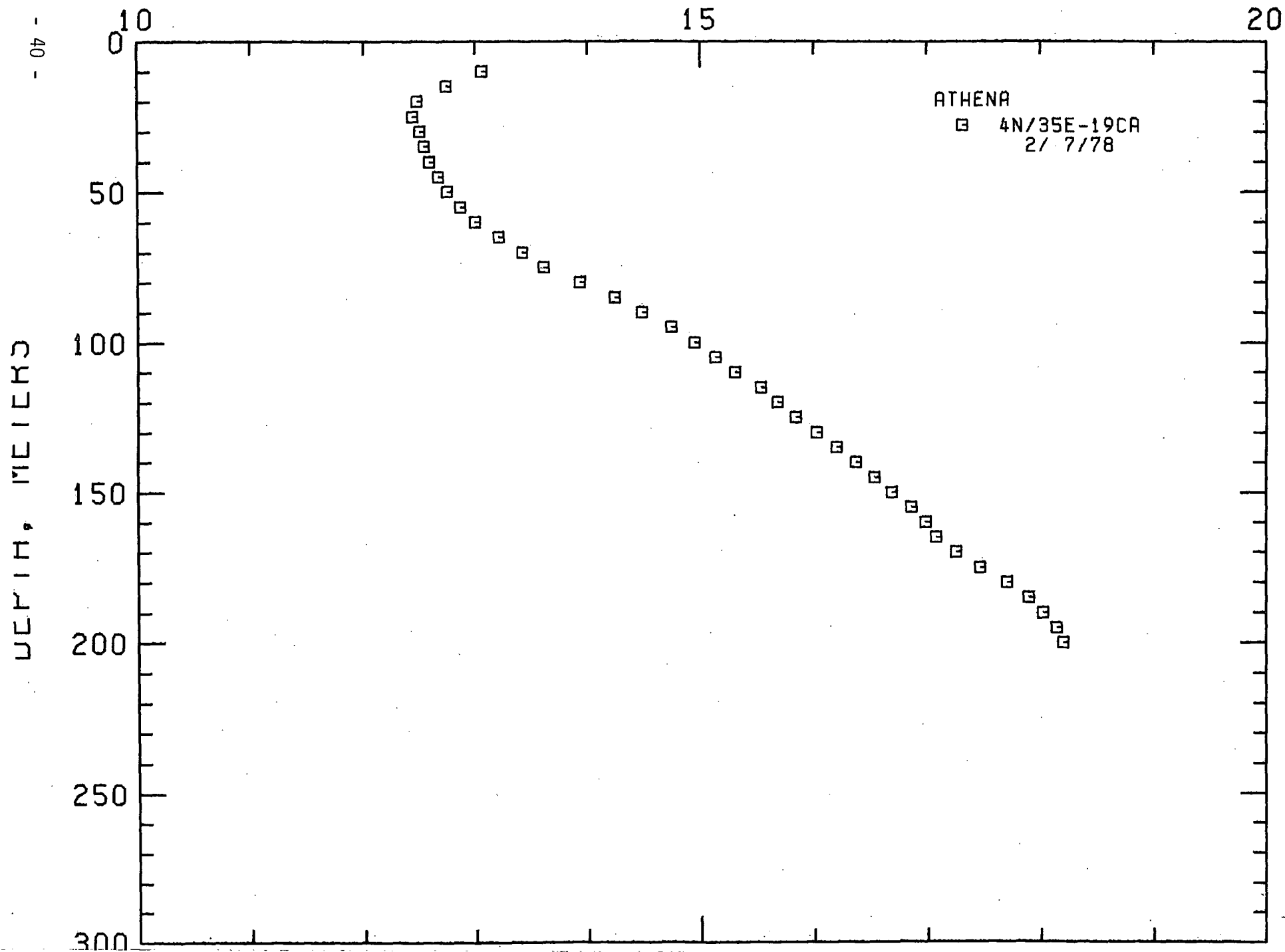
4N/35E-19CA

HOLE NAME: ATHENA

DATE MEASURED: 2/7/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.060	55.51	0.0	0.0
15.0	49.2	12.740	54.93	-64.0	-3.5
20.0	65.6	12.480	54.46	-52.0	-2.9
25.0	82.0	12.440	54.39	-8.0	-0.4
30.0	98.4	12.500	54.50	12.0	0.7
35.0	114.8	12.540	54.57	8.0	0.4
40.0	131.2	12.590	54.66	10.0	0.5
45.0	147.6	12.670	54.81	16.0	0.9
50.0	164.0	12.750	54.95	16.0	0.9
55.0	180.4	12.870	55.17	24.0	1.3
60.0	196.8	13.000	55.40	26.0	1.4
65.0	213.2	13.210	55.78	42.0	2.3
70.0	229.6	13.420	56.16	42.0	2.3
75.0	246.0	13.610	56.50	38.0	2.1
80.0	262.4	13.930	57.07	64.0	3.5
85.0	278.8	14.240	57.63	62.0	3.4
90.0	295.2	14.480	58.06	48.0	2.6
95.0	311.6	14.740	58.53	52.0	2.9
100.0	328.0	14.950	58.91	42.0	2.3
105.0	344.4	15.130	59.23	36.0	2.0
110.0	360.8	15.300	59.54	34.0	1.9
115.0	377.2	15.530	59.95	46.0	2.5
120.0	393.6	15.680	60.22	30.0	1.6
125.0	410.0	15.840	60.51	32.0	1.8
130.0	426.4	16.020	60.84	36.0	2.0
135.0	442.8	16.200	61.16	36.0	2.0
140.0	459.2	16.370	61.47	34.0	1.9
145.0	475.6	16.540	61.77	34.0	1.9
150.0	492.0	16.690	62.04	30.0	1.6
155.0	508.4	16.860	62.35	34.0	1.9
160.0	524.8	16.990	62.58	26.0	1.4
165.0	541.2	17.080	62.74	18.0	1.0
170.0	557.6	17.260	63.07	36.0	2.0
175.0	574.0	17.470	63.45	42.0	2.3
180.0	590.4	17.710	63.88	48.0	2.6
185.0	606.8	17.900	64.22	38.0	2.1
190.0	623.2	18.020	64.44	24.0	1.3
195.0	639.6	18.140	64.65	24.0	1.3
200.0	656.0	18.200	64.76	12.0	0.7

TEMPERATURE, DEG C



LOCATION: THE DALLES AMS, OREGON

4S/ 9E-28DD

HOLE NAME: RDH-CL

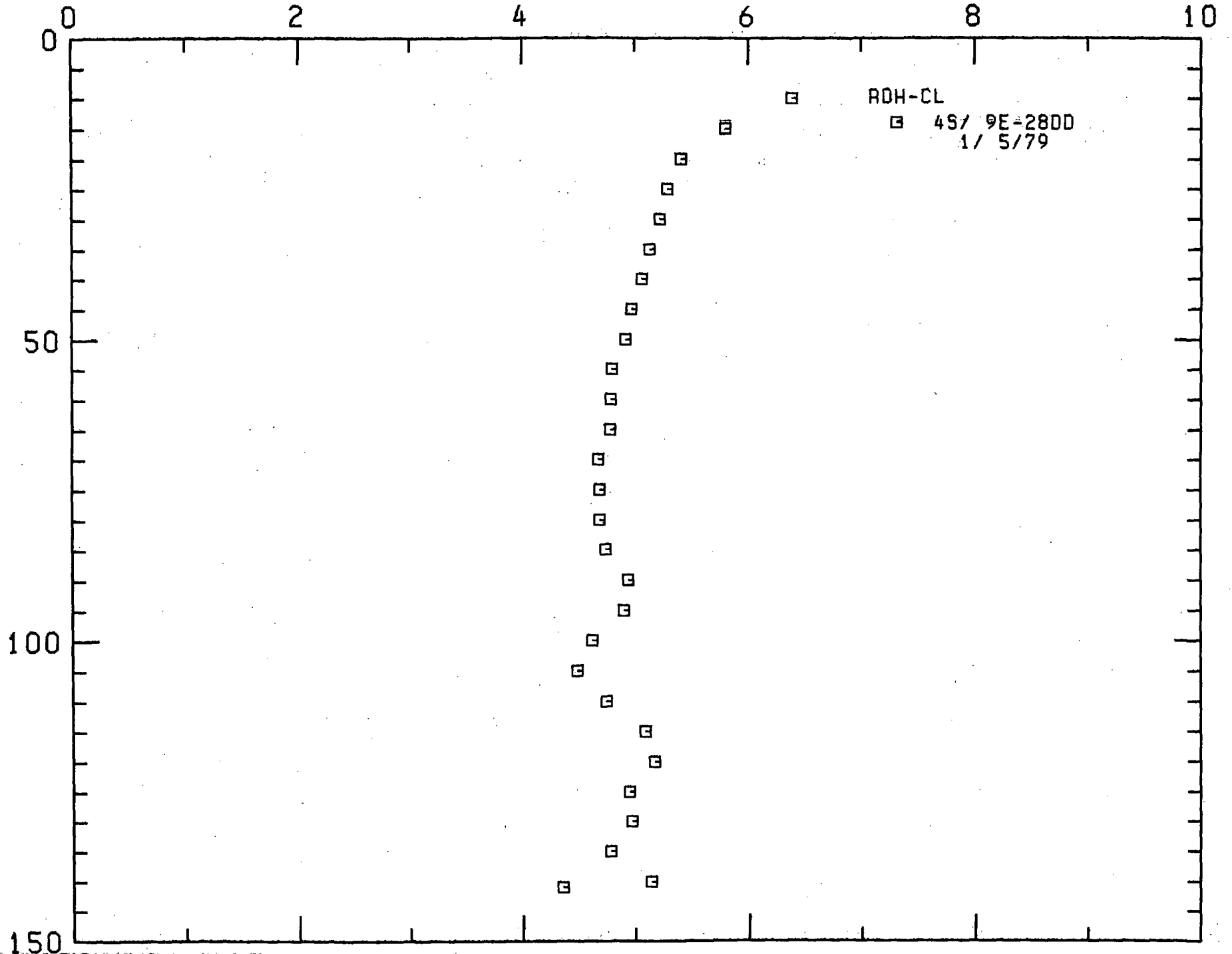
DATE MEASURED: 1/ 5/79

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	6.390	43.50	0.0	0.0
15.0	49.2	5.800	42.44	-118.0	-6.5
20.0	65.6	5.410	41.74	-78.0	-4.3
25.0	82.0	5.290	41.52	-24.0	-1.3
30.0	98.4	5.220	41.40	-14.0	-0.8
35.0	114.8	5.130	41.23	-18.0	-1.0
40.0	131.2	5.060	41.11	-14.0	-0.8
45.0	147.6	4.970	40.95	-18.0	-1.0
50.0	164.0	4.920	40.86	-10.0	-0.5
55.0	180.4	4.800	40.64	-24.0	-1.3
60.0	196.8	4.790	40.62	-2.0	-0.1
65.0	213.2	4.780	40.60	-2.0	-0.1
70.0	229.6	4.680	40.42	-20.0	-1.1
75.0	246.0	4.690	40.44	2.0	0.1
80.0	262.4	4.690	40.44	0.0	0.0
85.0	278.8	4.740	40.53	10.0	0.5
90.0	295.2	4.940	40.89	40.0	2.2
95.0	311.6	4.900	40.82	-8.0	-0.4
100.0	328.0	4.620	40.32	-56.0	-3.1
105.0	344.4	4.490	40.08	-26.0	-1.4
110.0	360.8	4.750	40.55	52.0	2.9
115.0	377.2	5.090	41.16	68.0	3.7
120.0	393.6	5.170	41.31	16.0	0.9
125.0	410.0	4.950	40.91	-44.0	-2.4
130.0	426.4	4.970	40.95	4.0	0.2
135.0	442.8	4.780	40.60	-38.0	-2.1
140.0	459.2	5.140	41.25	72.0	4.0
141.0	462.5	4.360	39.85	-780.0	-42.8

TEMPERATURE, DEG C

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DEPTH, METERS



LOCATION: WALLA WALLA AMS, OREGON

6N/33E-23AB

HOLE NAME: CAMBLLW

DATE MEASURED: 2/2/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	18.190	64.74	0.0	0.0
20.0	65.6	18.170	64.71	-2.0	-0.1
30.0	98.4	18.820	65.88	65.0	3.6
40.0	131.2	18.320	64.98	-50.0	-2.7
50.0	164.0	18.940	66.09	62.0	3.4
55.0	180.4	19.090	66.36	30.0	1.6
60.0	196.8	19.090	66.36	0.0	0.0
65.0	213.2	19.140	66.45	10.0	0.5
70.0	229.6	19.240	66.63	20.0	1.1
75.0	246.0	19.280	66.70	8.0	0.4
80.0	262.4	19.380	66.88	20.0	1.1
85.0	278.8	19.500	67.10	24.0	1.3
90.0	295.2	19.620	67.32	24.0	1.3
95.0	311.6	19.770	67.59	30.0	1.6
100.0	328.0	19.930	67.87	32.0	1.8
105.0	344.4	20.060	68.11	26.0	1.4
110.0	360.8	20.210	68.38	30.0	1.6
115.0	377.2	20.340	68.61	26.0	1.4
120.0	393.6	20.460	68.83	24.0	1.3
125.0	410.0	20.600	69.08	28.0	1.5
130.0	426.4	20.740	69.33	28.0	1.5
135.0	442.8	20.870	69.57	26.0	1.4
140.0	459.2	21.000	69.80	26.0	1.4
145.0	475.6	21.130	70.03	26.0	1.4
150.0	492.0	21.230	70.21	20.0	1.1
155.0	508.4	21.360	70.45	26.0	1.4
160.0	524.8	21.490	70.68	26.0	1.4
165.0	541.2	21.640	70.95	30.0	1.6
170.0	557.6	21.860	71.35	44.0	2.4
175.0	574.0	22.080	71.74	44.0	2.4
180.0	590.4	22.260	72.07	36.0	2.0
185.0	606.8	22.600	72.68	68.0	3.7
190.0	623.2	23.340	74.01	148.0	8.1
195.0	639.6	23.980	75.16	128.0	7.0
200.0	656.0	24.430	75.97	90.0	4.9
205.0	672.4	24.660	76.39	46.0	2.5
210.0	688.8	24.860	76.75	40.0	2.2
215.0	705.2	25.100	77.18	48.0	2.6
220.0	721.6	25.340	77.61	48.0	2.6
225.0	738.0	25.550	77.99	42.0	2.3
230.0	754.4	25.740	78.33	38.0	2.1

LOCATION: WALLA WALLA AMS, OREGON PAGE 2

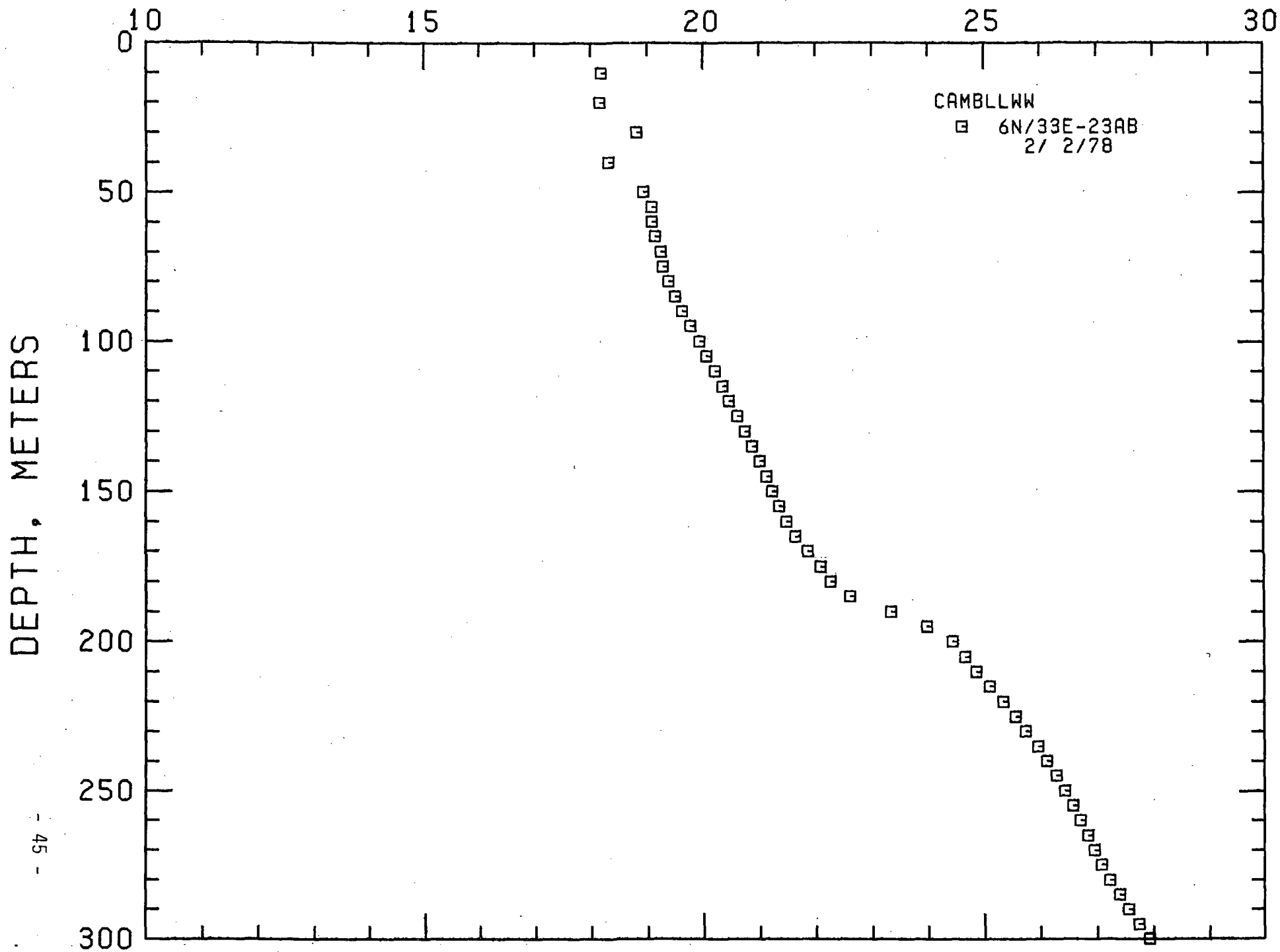
6N/33E-23AB

HOLE NAME: CAMBLWW

DATE MEASURED: 2/ 2/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
235.0	770.8	25.950	78.71	42.0	2.3
240.0	787.2	26.120	79.02	34.0	1.9
245.0	803.6	26.290	79.32	34.0	1.9
250.0	820.0	26.430	79.57	28.0	1.5
255.0	836.4	26.580	79.84	30.0	1.6
260.0	852.8	26.710	80.08	26.0	1.4
265.0	869.2	26.840	80.31	26.0	1.4
270.0	885.6	26.960	80.53	24.0	1.3
275.0	902.0	27.080	80.74	24.0	1.3
280.0	918.4	27.230	81.01	30.0	1.6
285.0	934.8	27.410	81.34	36.0	2.0
290.0	951.2	27.570	81.63	32.0	1.8
295.0	967.6	27.750	81.95	36.0	2.0
300.0	984.0	27.930	82.27	36.0	2.0
305.0	1000.4	28.100	82.58	34.0	1.9
310.0	1016.8	28.260	82.87	32.0	1.8
315.0	1033.2	28.400	83.12	28.0	1.5
320.0	1049.6	28.550	83.39	30.0	1.6
323.0	1059.4	28.690	83.64	46.7	2.6

TEMPERATURE, DEG C



LOCATION: SALEM AMS, OREGON

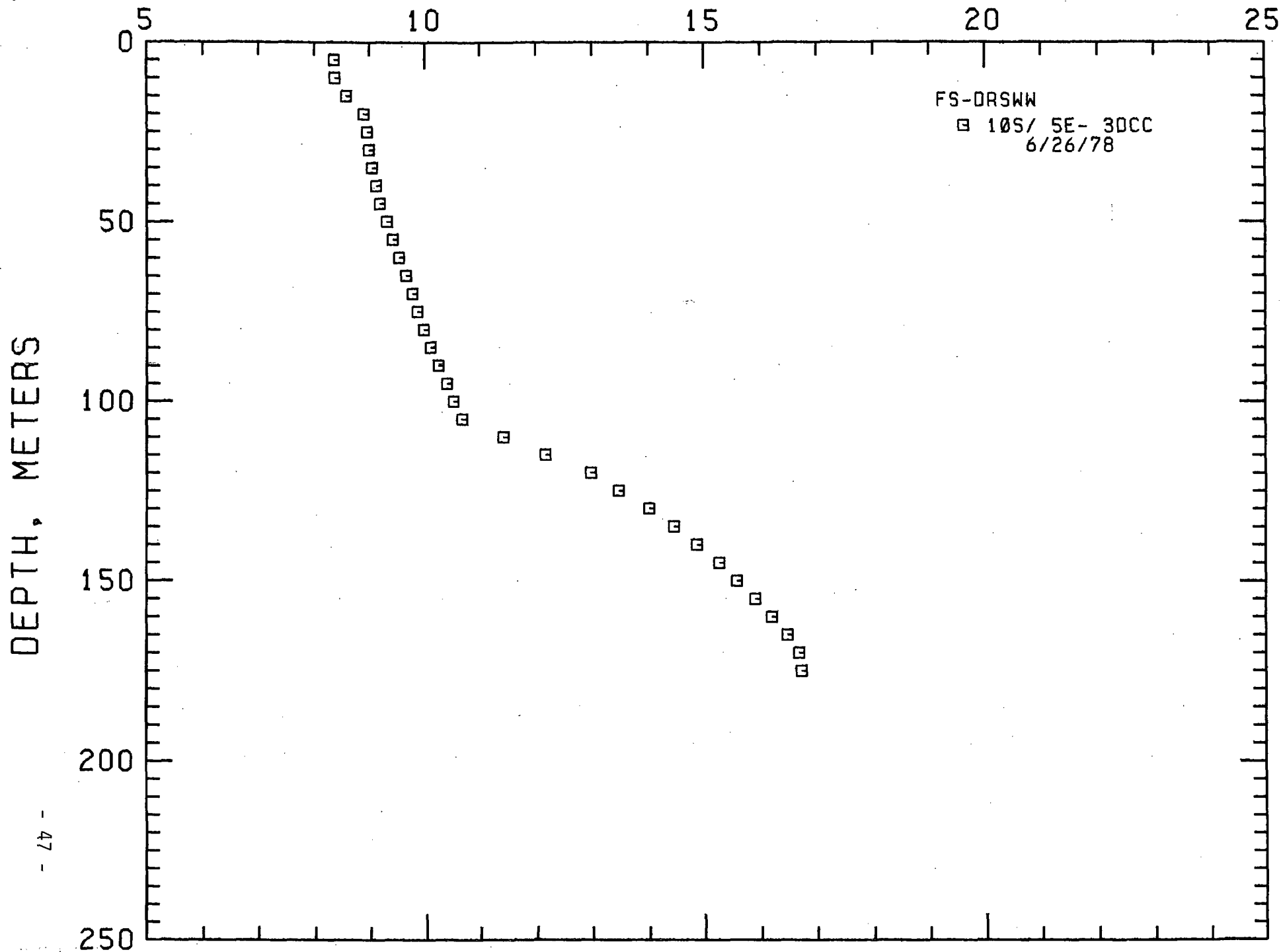
10S/ SE- 3DCC

HOLE NAME: FS-DRSWW

DATE MEASURED: 6/26/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	8.370	47.07	0.0	0.0
10.0	32.8	8.380	47.08	2.0	0.1
15.0	49.2	8.590	47.46	42.0	2.3
20.0	65.6	8.900	48.02	62.0	3.4
25.0	82.0	8.950	48.11	10.0	0.5
30.0	98.4	8.990	48.18	8.0	0.4
35.0	114.8	9.040	48.27	10.0	0.5
40.0	131.2	9.110	48.40	14.0	0.8
45.0	147.6	9.180	48.52	14.0	0.8
50.0	164.0	9.310	48.76	26.0	1.4
55.0	180.4	9.410	48.94	20.0	1.1
60.0	196.8	9.530	49.15	24.0	1.3
65.0	213.2	9.650	49.37	24.0	1.3
70.0	229.6	9.760	49.57	22.0	1.2
75.0	246.0	9.860	49.75	20.0	1.1
80.0	262.4	9.970	49.95	22.0	1.2
85.0	278.8	10.100	50.18	26.0	1.4
90.0	295.2	10.250	50.45	30.0	1.6
95.0	311.6	10.390	50.70	28.0	1.5
100.0	328.0	10.520	50.94	26.0	1.4
105.0	344.4	10.680	51.22	32.0	1.8
110.0	360.8	11.410	52.54	146.0	8.0
115.0	377.2	12.170	53.91	152.0	8.3
120.0	393.6	12.960	55.33	158.0	8.7
125.0	410.0	13.460	56.23	100.0	5.5
130.0	426.4	14.010	57.22	110.0	6.0
135.0	442.8	14.450	58.01	88.0	4.8
140.0	459.2	14.860	58.75	82.0	4.5
145.0	475.6	15.260	59.47	80.0	4.4
150.0	492.0	15.570	60.03	62.0	3.4
155.0	508.4	15.900	60.62	66.0	3.6
160.0	524.8	16.200	61.16	60.0	3.3
165.0	541.2	16.470	61.65	54.0	3.0
170.0	557.6	16.680	62.02	42.0	2.3
175.0	574.0	16.730	62.11	10.0	0.5

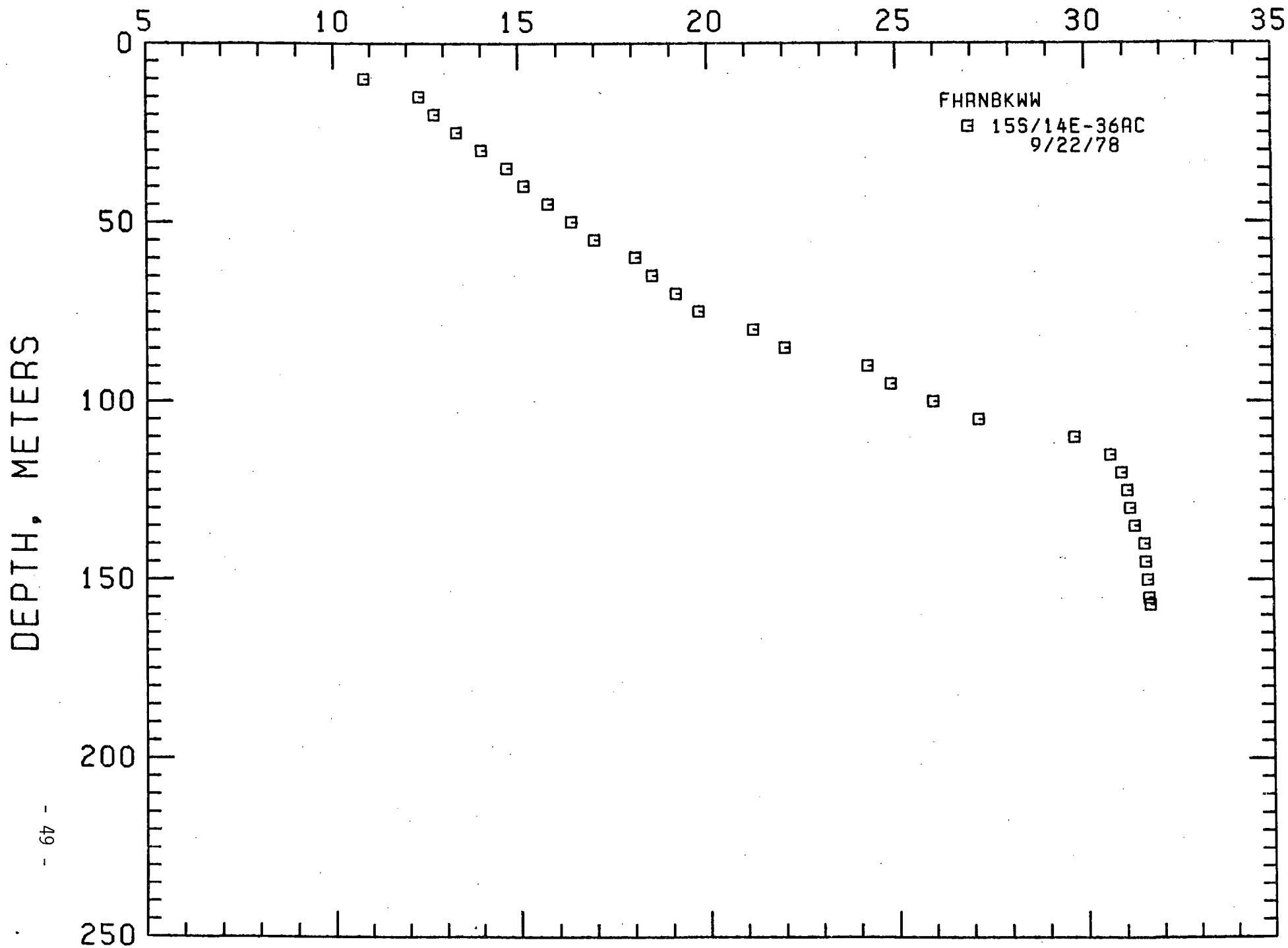
TEMPERATURE, DEG C



LOCATION: BEND AMS, OREGON
 15S/14E-36AC
 HOLE NAME: FHRNBKJW
 DATE MEASURED: 9/22/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.840	51.51	0.0	0.0
15.0	49.2	12.340	54.21	300.0	16.5
20.0	65.6	12.740	54.93	80.0	4.4
25.0	82.0	13.370	56.07	126.0	6.9
30.0	98.4	14.020	57.24	130.0	7.1
35.0	114.8	14.680	58.42	132.0	7.2
40.0	131.2	15.130	59.23	90.0	4.9
45.0	147.6	15.760	60.37	126.0	6.9
50.0	164.0	16.390	61.50	126.0	6.9
55.0	180.4	16.990	62.58	120.0	6.6
60.0	196.8	18.050	64.51	214.0	11.7
65.0	213.2	18.500	65.30	88.0	4.8
70.0	229.6	19.150	66.47	130.0	7.1
75.0	246.0	19.750	67.55	120.0	6.6
80.0	262.4	21.190	70.14	288.0	15.8
85.0	278.8	22.030	71.65	168.0	9.2
90.0	295.2	24.210	75.58	436.0	23.9
95.0	311.6	24.840	76.71	126.0	6.9
100.0	328.0	25.960	78.73	224.0	12.3
105.0	344.4	27.170	80.91	242.0	13.3
110.0	360.8	29.680	85.42	502.0	27.5
115.0	377.2	30.630	87.13	190.0	10.4
120.0	393.6	30.920	87.66	58.0	3.2
125.0	410.0	31.070	87.93	30.0	1.6
130.0	426.4	31.140	88.05	14.0	0.8
135.0	442.8	31.260	88.27	24.0	1.3
140.0	459.2	31.520	88.74	52.0	2.9
145.0	475.6	31.560	88.81	8.0	0.4
150.0	492.0	31.600	88.88	8.0	0.4
155.0	508.4	31.640	88.95	8.0	0.4
157.0	515.0	31.670	89.01	15.0	0.8

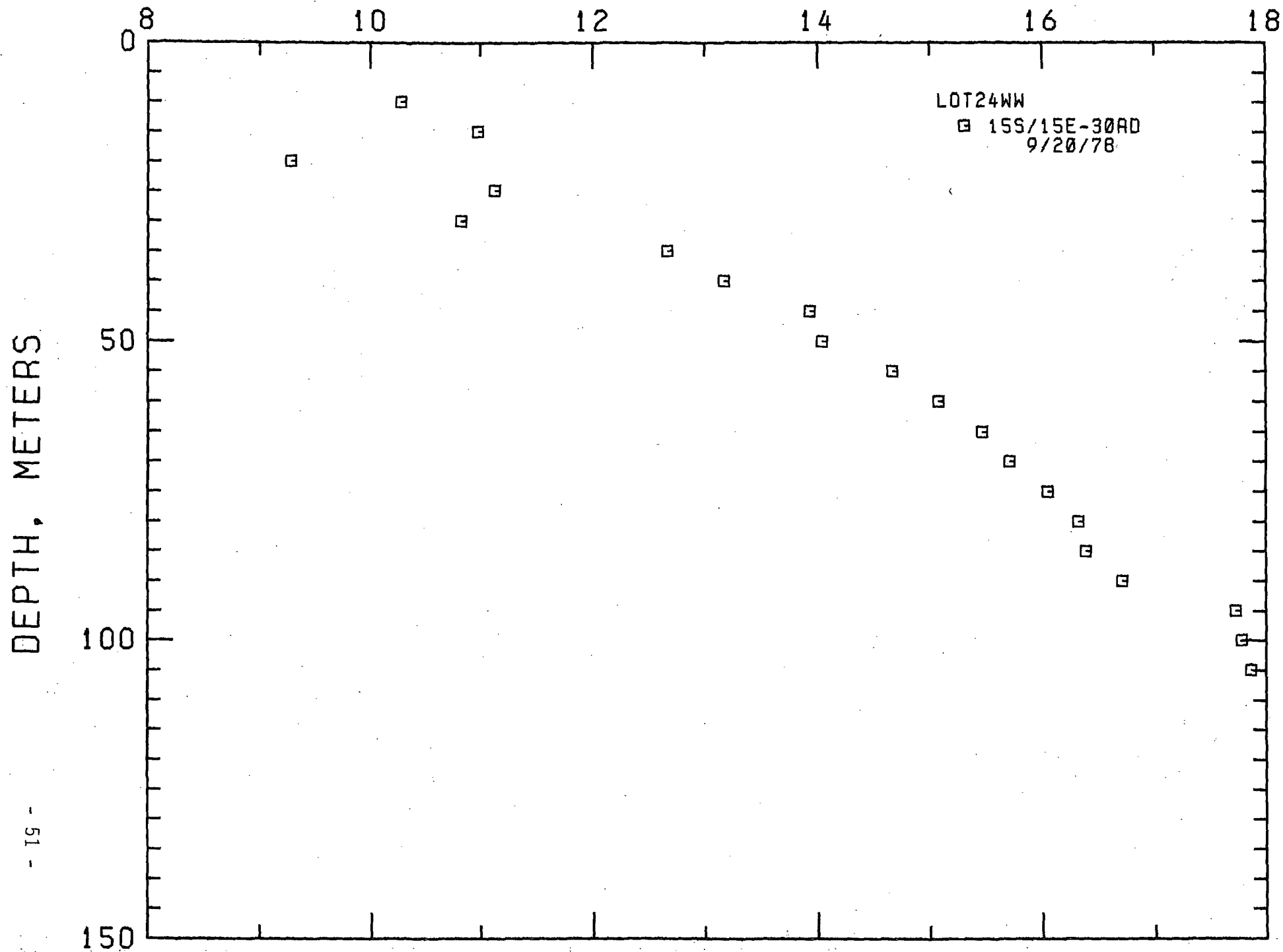
TEMPERATURE, DEG C



LOCATION: BEND AMS, OREGON
 15S/15E-30AD
 HOLE NAME: LOT24WJ
 DATE MEASURED: 9/20/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.280	50.50	0.0	0.0
15.0	49.2	10.980	51.76	140.0	7.7
20.0	65.6	9.280	48.70	-340.0	-18.7
25.0	82.0	11.130	52.03	370.0	20.3
30.0	98.4	10.830	51.49	-60.0	-3.3
35.0	114.8	12.670	54.81	368.0	20.3
40.0	131.2	13.170	55.71	100.0	5.5
45.0	147.6	13.930	57.07	152.0	8.3
50.0	164.0	14.040	57.27	22.0	1.2
55.0	180.4	14.670	58.41	126.0	6.9
60.0	196.8	15.080	59.14	82.0	4.5
65.0	213.2	15.470	59.85	78.0	4.3
70.0	229.6	15.710	60.28	48.0	2.6
75.0	246.0	16.050	60.89	68.0	3.7
80.0	262.4	16.320	61.38	54.0	3.0
85.0	278.8	16.390	61.50	14.0	0.8
90.0	295.2	16.710	62.08	64.0	3.5
95.0	311.6	17.730	63.91	204.0	11.2
100.0	328.0	17.780	64.00	10.0	0.5
105.0	344.4	17.870	64.17	18.0	1.0

TEMPERATURE, DEG C

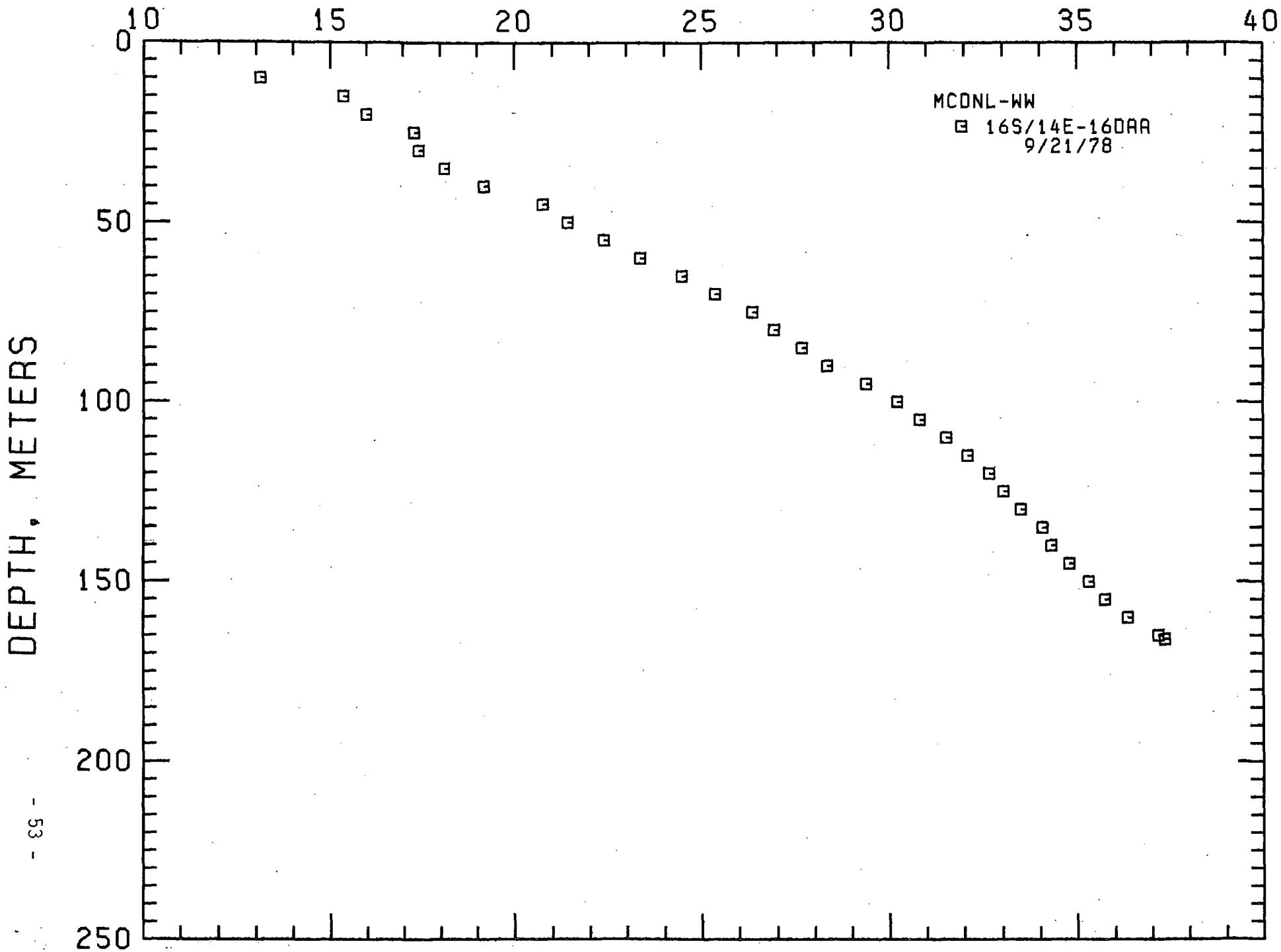


LOCATION: BEND AMS, OREGON
16S/14E-16DAA

HOLE NAME: MCDNL-WW
DATE MEASURED: 9/21/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.120	55.62	0.0	0.0
15.0	49.2	15.360	59.65	448.0	24.6
20.0	65.6	16.000	60.80	128.0	7.0
25.0	82.0	17.300	63.14	260.0	14.3
30.0	98.4	17.430	63.37	26.0	1.4
35.0	114.8	18.130	64.63	140.0	7.7
40.0	131.2	19.190	66.54	212.0	11.6
45.0	147.6	20.750	69.35	312.0	17.1
50.0	164.0	21.410	70.54	132.0	7.2
55.0	180.4	22.400	72.32	198.0	10.9
60.0	196.8	23.350	74.03	190.0	10.4
65.0	213.2	24.460	76.03	222.0	12.2
70.0	229.6	25.360	77.65	180.0	9.9
75.0	246.0	26.340	79.41	196.0	10.8
80.0	262.4	26.920	80.46	116.0	6.4
85.0	278.8	27.680	81.82	152.0	8.3
90.0	295.2	28.350	83.03	134.0	7.4
95.0	311.6	29.380	84.88	206.0	11.3
100.0	328.0	30.230	86.41	170.0	9.0
105.0	344.4	30.820	87.48	118.0	6.5
110.0	360.8	31.530	88.75	142.0	7.8
115.0	377.2	32.100	89.78	114.0	6.3
120.0	393.6	32.670	90.81	114.0	6.3
125.0	410.0	33.040	91.47	74.0	4.1
130.0	426.4	33.510	92.32	94.0	5.2
135.0	442.8	34.090	93.36	116.0	6.4
140.0	459.2	34.320	93.78	46.0	2.5
145.0	475.6	34.800	94.64	96.0	5.0
150.0	492.0	35.320	95.58	104.0	5.7
155.0	508.4	35.740	96.33	84.0	4.6
160.0	524.8	36.370	97.47	126.0	6.9
165.0	541.2	37.180	98.92	162.0	8.9
166.0	544.5	37.360	99.25	180.0	9.9

TEMPERATURE, DEG C



DEPTH, METERS

LOCATION: CRESCENT AMS. OREGON

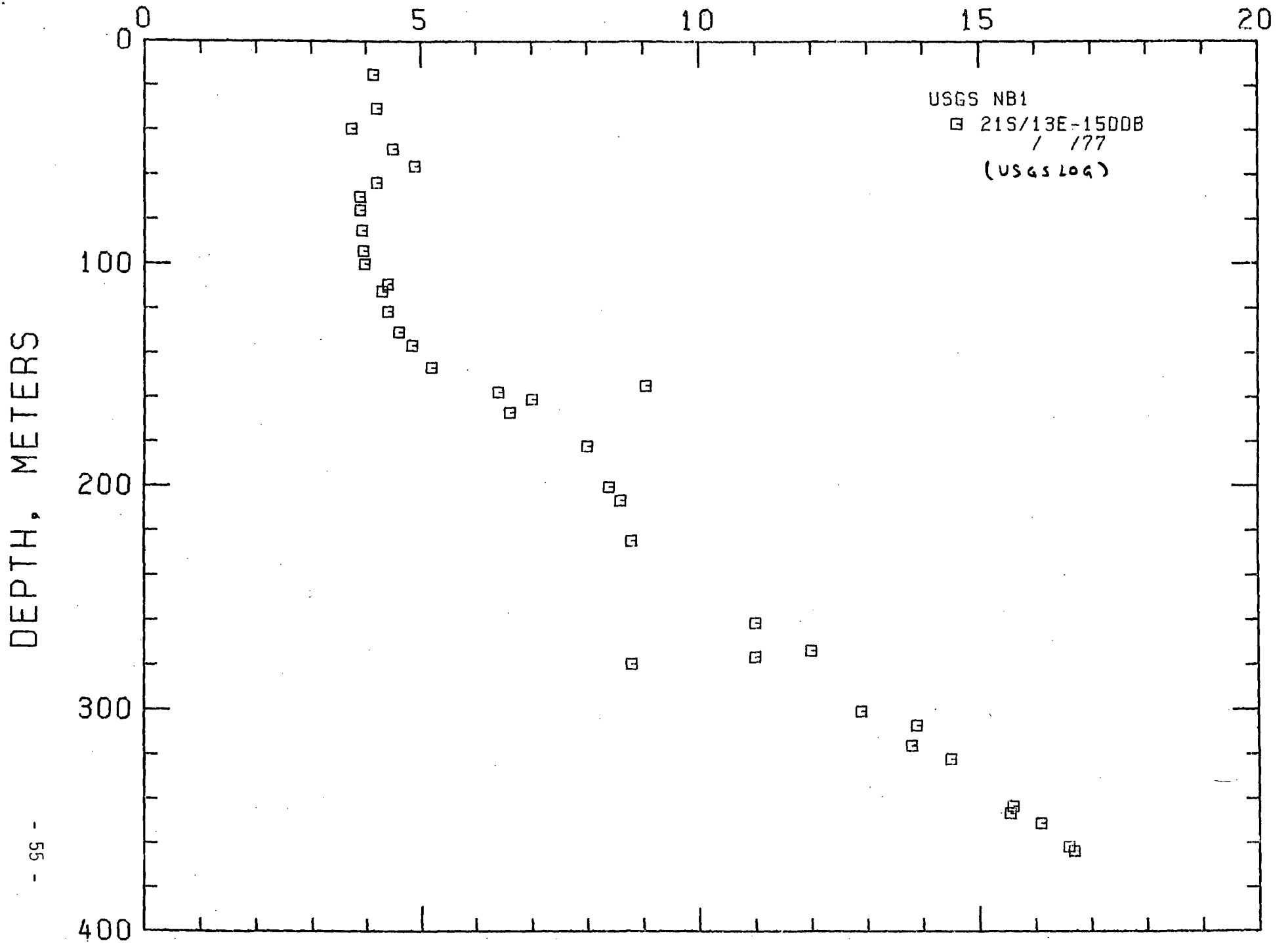
21S/13E-15DD8

HOLE NAME: USGS-NR1

DATE MEASURED: 0/0/77 (USGS LOG)

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.2	49.9	4.150	39.47	0.0	0.0
30.4	99.7	4.200	39.56	3.3	0.2
39.5	129.6	3.750	38.75	-49.3	-2.7
48.6	159.5	4.500	40.10	82.2	4.5
56.2	184.5	4.900	40.82	52.6	2.9
63.0	209.4	4.200	39.55	-92.1	-5.1
69.9	229.3	3.900	39.02	-49.3	-2.7
76.0	249.3	3.900	39.02	0.0	0.0
85.1	279.2	3.930	39.07	3.3	0.2
94.2	309.1	3.950	39.11	2.2	0.1
100.3	329.0	3.980	39.16	4.9	0.3
109.4	359.0	4.400	39.92	46.1	2.5
112.5	368.9	4.300	39.74	-32.9	-1.8
121.6	398.8	4.400	39.92	11.0	0.6
130.7	428.8	4.600	40.28	21.9	1.2
136.8	448.7	4.850	40.73	41.1	2.3
146.9	481.9	5.200	41.36	34.6	1.9
155.0	508.5	9.050	48.29	474.1	26.0
158.1	518.5	6.400	43.52	-871.7	-47.8
161.1	528.5	7.000	44.60	197.4	10.8
167.2	548.4	6.600	43.88	-65.8	-3.6
182.4	598.3	8.000	46.40	92.1	5.1
200.6	658.1	8.400	47.12	21.9	1.2
206.7	678.0	8.600	47.48	32.9	1.8
225.0	737.9	8.800	47.84	11.0	0.6
261.4	857.5	11.000	51.80	60.3	3.3
273.6	897.4	12.000	53.60	82.2	4.5
276.6	907.4	11.000	51.80	-329.0	-18.1
279.7	917.4	8.600	47.84	-723.7	-39.7
301.0	987.1	12.900	55.22	192.7	10.6
307.0	1007.1	13.900	57.02	164.5	9.0
316.2	1037.0	13.800	56.84	-11.0	-0.6
322.2	1056.9	14.500	58.10	115.1	6.3
343.5	1126.7	15.600	60.08	51.7	2.8
346.6	1136.7	15.550	59.99	-16.4	-0.9
351.1	1151.7	16.100	60.98	120.6	6.6
361.8	1186.6	16.600	61.88	47.0	2.6
363.6	1192.5	16.700	62.06	54.9	3.0

TEMPERATURE, DEG C



LOCATION: CRESCENT AMS, OREGON

21S/13E-31CC

HOLE NAME: USGS-NB2

DATE MEASURED: 10/ 6/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	33.330	91.99	0.0	0.0
20.0	65.6	37.740	99.93	882.0	48.4
25.0	82.0	37.640	99.75	-20.0	-1.1
30.0	98.4	38.630	101.53	198.0	10.9
35.0	114.8	39.620	103.32	198.0	10.9
40.0	131.2	40.610	105.10	198.0	10.9
45.0	147.6	37.920	100.26	-538.0	-29.5
50.0	164.0	36.400	97.52	-304.0	-16.7
55.0	180.4	35.300	95.54	-220.0	-12.1
60.0	196.8	34.220	93.60	-216.0	-11.9
65.0	213.2	32.500	90.50	-344.0	-18.9
70.0	229.6	33.150	91.67	130.0	7.1
75.0	246.0	34.160	93.49	202.0	11.1
80.0	262.4	33.380	92.08	-156.0	-8.6
85.0	278.8	31.640	88.95	-348.0	-19.1
90.0	295.2	28.700	83.66	-588.0	-32.3
95.0	311.6	27.050	80.69	-330.0	-18.1
100.0	328.0	25.680	78.22	-274.0	-15.0
105.0	344.4	24.520	76.14	-232.0	-12.7
110.0	360.8	23.690	74.64	-166.0	-9.1
115.0	377.2	23.360	74.05	-66.0	-3.6
120.0	393.6	23.260	73.87	-20.0	-1.1
125.0	410.0	23.630	74.53	74.0	4.1
130.0	426.4	23.930	75.07	60.0	3.3
135.0	442.8	24.200	75.56	54.0	3.0
140.0	459.2	24.710	76.48	102.0	5.6
145.0	475.6	25.150	77.27	88.0	4.8
150.0	492.0	25.450	77.81	60.0	3.3
155.0	508.4	25.560	78.01	22.0	1.2
160.0	524.8	25.700	78.26	28.0	1.5
165.0	541.2	25.750	78.35	10.0	0.5
170.0	557.6	25.700	78.26	-10.0	-0.5
175.0	574.0	25.510	77.92	-38.0	-2.1
180.0	590.4	25.310	77.56	-40.0	-2.2
185.0	606.8	25.410	77.74	20.0	1.1
190.0	623.2	25.040	77.07	-74.0	-4.1
195.0	639.6	24.550	76.19	-98.0	-5.4
200.0	656.0	24.320	75.78	-46.0	-2.5
205.0	672.4	24.190	75.54	-26.0	-1.4
210.0	688.8	23.960	75.13	-46.0	-2.5
215.0	705.2	23.850	74.93	-22.0	-1.2

LOCATION: CRESCENT AMS, OREGON

PAGE 2

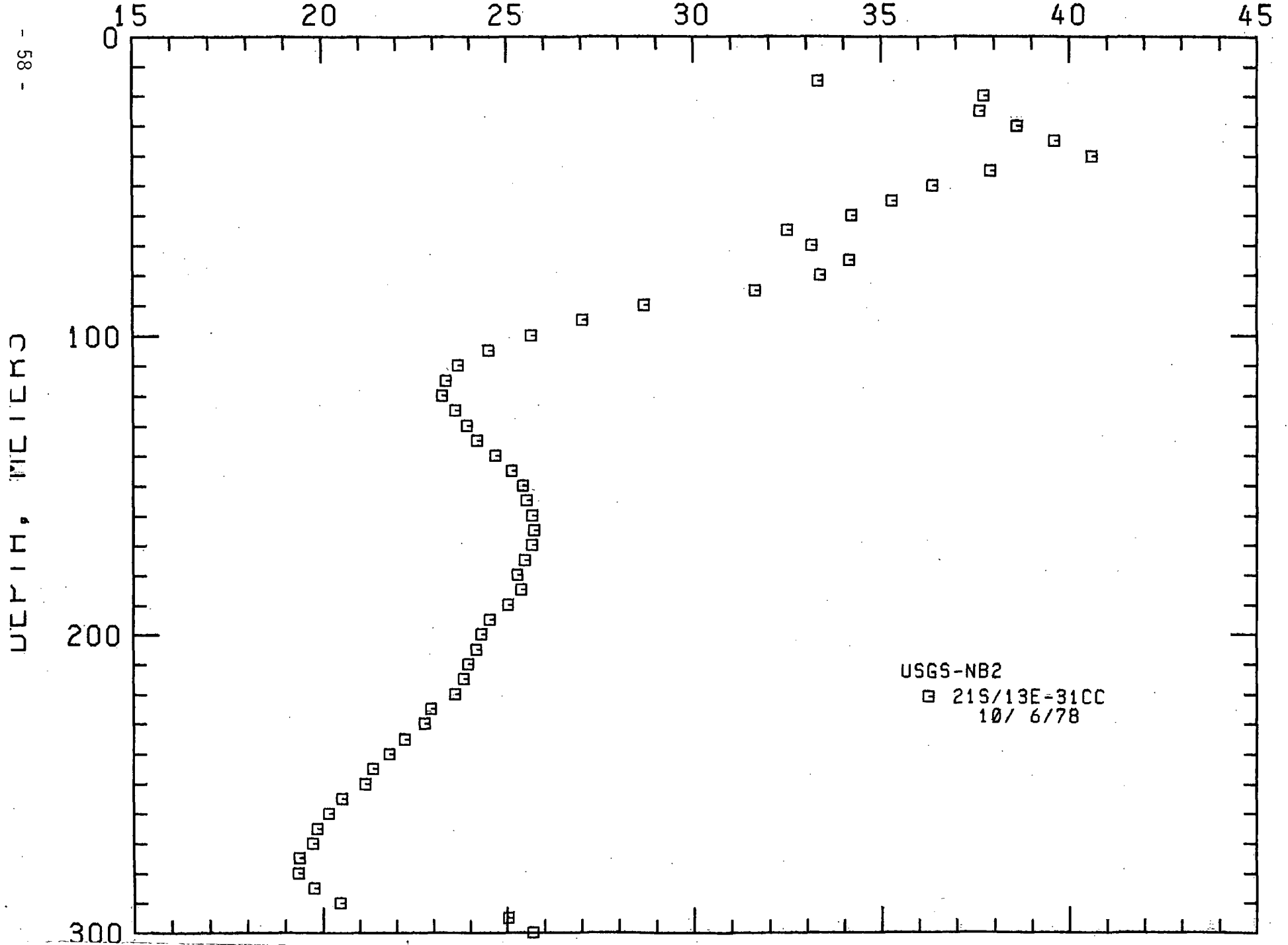
21S/13E-31CC

HOLE NAME: USGS-MB2

DATE MEASURED: 10/ 6/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
220.0	721.6	23.610	74.50	-48.0	-2.6
225.0	738.0	22.960	73.33	-130.0	-7.1
230.0	754.4	22.780	73.00	-36.0	-2.0
235.0	770.8	22.230	72.01	-110.0	-6.0
240.0	787.2	21.820	71.28	-82.0	-4.5
245.0	803.6	21.370	70.47	-90.0	-4.9
250.0	820.0	21.180	70.12	-38.0	-2.1
255.0	836.4	20.540	68.97	-128.0	-7.0
260.0	852.8	20.170	68.31	-74.0	-4.1
265.0	869.2	19.860	67.75	-62.0	-3.4
270.0	885.6	19.750	67.55	-22.0	-1.2
275.0	902.0	19.380	66.88	-74.0	-4.1
280.0	918.4	19.360	66.85	-4.0	-0.2
285.0	934.8	19.760	67.57	80.0	4.4
290.0	951.2	20.460	68.83	140.0	7.7
295.0	967.6	25.050	77.09	918.0	50.4
300.0	984.0	25.700	78.26	130.0	7.1
303.0	993.8	25.720	78.30	6.7	0.4

TEMPERATURE, DEG C



LOCATION: ROSEBURG AMS, OREGON

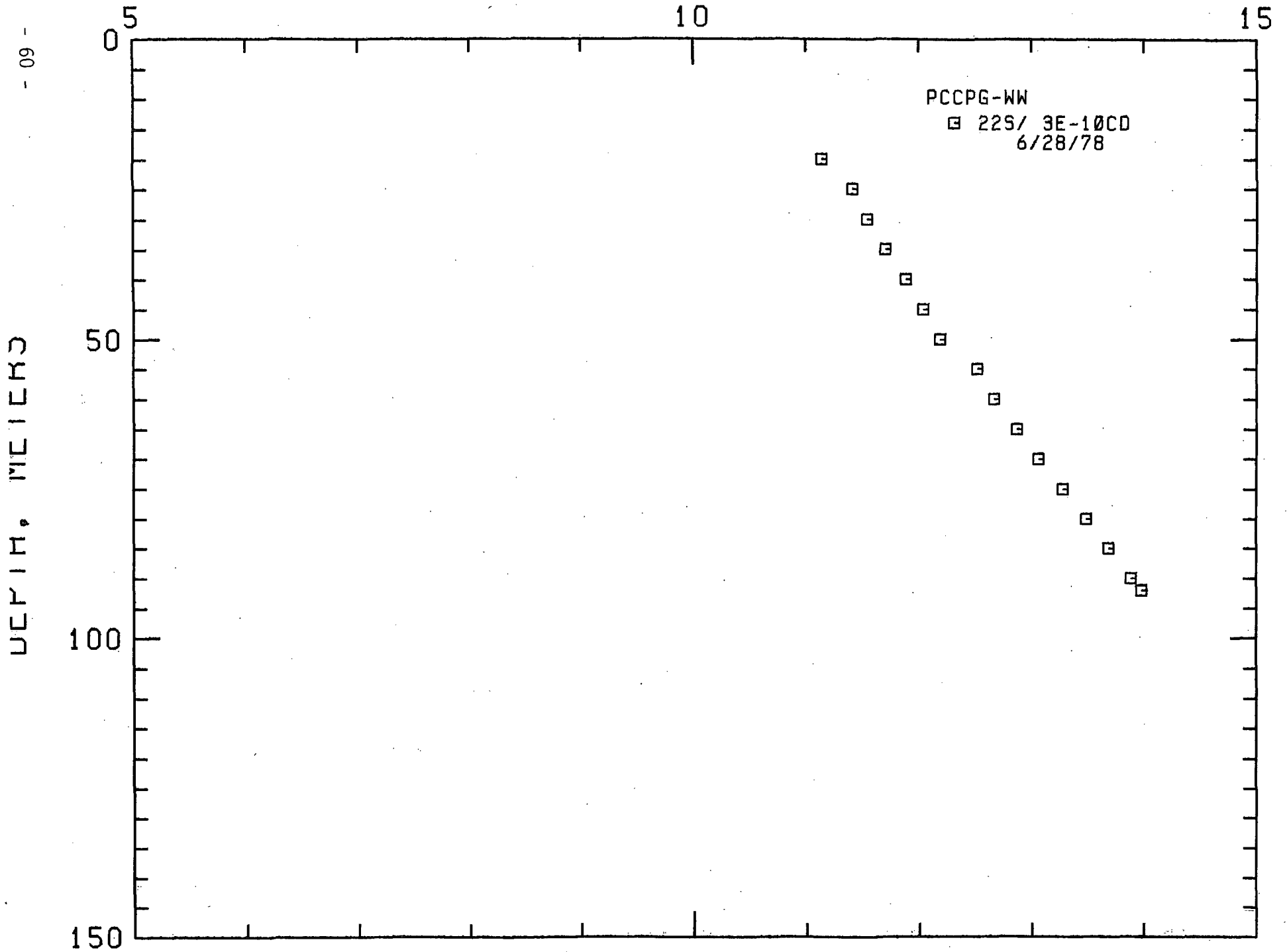
22S/ 3E-10CD

HOLE NAME: PCCPG-WW

DATE MEASURED: 6/28/78

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.140	52.05	0.0	0.0
25.0	82.0	11.410	52.54	54.0	3.0
30.0	98.4	11.540	52.77	26.0	1.4
35.0	114.8	11.710	53.08	34.0	1.9
40.0	131.2	11.890	53.40	36.0	2.0
45.0	147.6	12.040	53.67	30.0	1.6
50.0	164.0	12.190	53.94	30.0	1.6
55.0	180.4	12.520	54.54	66.0	3.6
60.0	196.8	12.670	54.81	30.0	1.6
65.0	213.2	12.870	55.17	40.0	2.2
70.0	229.6	13.060	55.51	38.0	2.1
75.0	246.0	13.280	55.90	44.0	2.4
80.0	262.4	13.490	56.28	42.0	2.3
85.0	278.8	13.690	56.64	40.0	2.2
90.0	295.2	13.890	57.00	40.0	2.2
92.0	301.8	13.980	57.16	45.0	2.5

TEMPERATURE, DEG C



LOCATION: BURNS AMS, OREGON
 23S/29E-10AD
 HOLE NAME: FED-1-10
 DATE MEASURED: 10/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.300	54.14	0.0	0.0
15.0	49.2	12.550	54.59	50.0	2.7
20.0	65.6	12.740	54.93	38.0	2.1
25.0	82.0	12.970	55.35	46.0	2.5
30.0	98.4	13.100	55.58	26.0	1.4
35.0	114.8	13.150	55.67	10.0	0.5
40.0	131.2	13.210	55.78	12.0	0.7
45.0	147.6	13.470	56.25	52.0	2.9
50.0	164.0	13.940	57.09	94.0	5.2
55.0	180.4	17.260	63.07	664.0	36.4
60.0	196.8	16.380	61.48	-176.0	-9.7
65.0	213.2	16.210	61.18	-34.0	-1.9
70.0	229.6	15.720	60.30	-98.0	-5.4
75.0	246.0	15.740	60.33	4.0	0.2
80.0	262.4	15.990	60.78	50.0	2.7
85.0	278.8	15.850	60.53	-28.0	-1.5
90.0	295.2	16.030	60.85	36.0	2.0
95.0	311.6	16.000	60.80	-6.0	-0.3
100.0	328.0	15.880	60.58	-24.0	-1.3
105.0	344.4	15.690	60.24	-38.0	-2.1
110.0	360.8	15.260	59.47	-86.0	-4.7
115.0	377.2	14.910	58.84	-70.0	-3.8
120.0	393.6	14.720	58.50	-38.0	-2.1
125.0	410.0	14.490	58.08	-46.0	-2.5
130.0	426.4	14.020	57.24	-94.0	-5.2
135.0	442.8	13.970	57.15	-10.0	-0.5
140.0	459.2	13.970	57.15	0.0	0.0
145.0	475.6	14.060	57.31	18.0	1.0
150.0	492.0	14.450	58.01	78.0	4.3
155.0	508.4	14.880	58.78	86.0	4.7
160.0	524.8	14.990	58.98	22.0	1.2
165.0	541.2	14.930	58.87	-12.0	-0.7
170.0	557.6	14.840	58.71	-18.0	-1.0
175.0	574.0	14.800	58.64	-8.0	-0.4
180.0	590.4	14.890	58.80	18.0	1.0
185.0	606.8	14.980	58.96	18.0	1.0
190.0	623.2	15.020	59.04	8.0	0.4
195.0	639.6	14.960	58.93	-12.0	-0.7
200.0	656.0	14.910	58.84	-10.0	-0.5
205.0	672.4	14.930	58.87	4.0	0.2
210.0	688.8	15.010	59.02	16.0	0.9

LOCATION: BURNS AMS, OREGON

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23S/29E-10AD

HOLE NAME: FED-1-10

DATE MEASURED: 10/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
215.0	705.2	15.030	59.05	4.0	0.2
220.0	721.6	15.080	59.14	10.0	0.5
225.0	738.0	15.140	59.25	12.0	0.7
230.0	754.4	15.230	59.41	18.0	1.0
235.0	770.8	15.290	59.52	12.0	0.7
240.0	787.2	15.330	59.59	8.0	0.4
245.0	803.6	15.360	59.65	6.0	0.3
250.0	820.0	15.390	59.70	6.0	0.3
255.0	836.4	15.400	59.72	2.0	0.1
260.0	852.8	15.360	59.65	-8.0	-0.4
265.0	869.2	15.350	59.63	-2.0	-0.1
270.0	885.6	15.430	59.77	16.0	0.9
275.0	902.0	15.460	59.83	6.0	0.3
280.0	918.4	15.480	59.86	4.0	0.2
285.0	934.8	15.480	59.86	0.0	0.0
290.0	951.2	15.460	59.83	-4.0	-0.2
295.0	967.6	15.460	59.83	0.0	0.0
300.0	984.0	15.470	59.85	2.0	0.1
305.0	1000.4	15.480	59.86	2.0	0.1
310.0	1016.8	15.470	59.85	-2.0	-0.1
315.0	1033.2	15.420	59.76	-10.0	-0.5
320.0	1049.6	15.400	59.72	-4.0	-0.2
325.0	1066.0	15.490	59.88	18.0	1.0
330.0	1082.4	15.590	60.06	20.0	1.1
335.0	1098.8	15.620	60.12	6.0	0.3
340.0	1115.2	15.650	60.17	6.0	0.3
345.0	1131.6	15.680	60.22	6.0	0.3
350.0	1148.0	15.690	60.24	2.0	0.1
355.0	1164.4	15.690	60.24	0.0	0.0
360.0	1180.8	15.600	60.08	-18.0	-1.0
365.0	1197.2	15.480	59.86	-24.0	-1.3
370.0	1213.6	15.340	59.61	-28.0	-1.5
375.0	1230.0	15.240	59.43	-20.0	-1.1
380.0	1246.4	15.180	59.32	-12.0	-0.7
385.0	1262.8	15.140	59.25	-8.0	-0.4
390.0	1279.2	15.110	59.20	-6.0	-0.3
395.0	1295.6	15.080	59.14	-6.0	-0.3
400.0	1312.0	15.020	59.04	-12.0	-0.7
402.5	1320.2	14.990	58.98	-12.0	-0.7

TEMPERATURE, DEG C

