

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

OPEN-FILE REPORT O-78-4
GEOTHERMAL GRADIENT DATA

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1978

INTRODUCTION

As part of its continuing assessment of Oregon's geothermal energy resources, the Department of Geology and Mineral Industries has a program of measuring geothermal gradients in water wells, mineral exploration holes, and oil wells drilled by others. This report contains geothermal gradient data, in tabular and graphic form, collected between December 1976 and December 1977.

Previous reports in this series contain similar data collected between 1972 and 1976 (Bowen, 1975; Hull, 1975; Hull and others, 1976; and Hull and others, 1977).

In the tables, temperatures and depths are given in both metric and English units, and gradients are listed in units of degrees Celsius per kilometer of depth and degrees Fahrenheit per 100 ft of depth. Graphs for each well are plotted in degrees Celsius versus depth in meters.

The quality of these data is extremely variable, and this report includes wells for which no useful linear gradients were obtained. The measurements were made primarily in the Deschutes-Umatilla Plateau (Columbia Plateau), Cascade Range, and northern Willamette Valley physiographic provinces.

Individual well locations are shown on Plate 1; well numbers on the tables and graphs represent location by township, range, and section. The quarter section and quarter-quarter section location of each well are represented by designations of A, B, C, and D for the northeast, northwest, southwest, and southeast quarter or quarter-quarter section respectively. The first letter designates the quarter section, and the second letter represents the quarter-quarter section; e.g., hole 6N/35E-31BD is located in the SE 1/4 of the NW 1/4 of sec. 31, T. 6 N., R. 35 E.

Included in this report are data, not previously released, from seven heat-flow holes in the Cascade Range and Blue Mountains, drilled by the Department in the fall of 1976, as well as temperature data from deep oil wells in the Willamette Valley, drilled over a period of several years. Although the bottom hole temperature data for the oil wells may not strictly represent equilibrium values, they represent a useful check on regional gradient patterns obtained by measurements in shallow water wells and mineral exploration holes.

Funds for some of the work involved in the data collection were provided by U.S. Department of Energy Contract EG-77-C-06-1040.

ACKNOWLEDGMENTS

The access to various wells was made possible through the courtesies of numerous individual landowners and mining companies. Information contained in this report represents a continuation of a project initiated by Richard G. Bowen. David Klanderman was involved in collection of data from many of the wells.

REFERENCES

- Bowen, R.G., 1975, Geothermal gradient data: Oregon Department of Geology and Mineral Industries Open-File Report O-75-3, 114 p. (contains data collected between 1970 and 1974).
- Hull, D.A., 1975, Geothermal gradient data, Vale area, Malheur County, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-75-4, 18 p. (contains data collected between October 1974 and June 1975).
- Hull, D.A., Bowen, R.G., Blackwell, D.D., and Peterson, N.V., 1976, Geothermal gradient data, Brothers fault zone, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-76-2, 25 p. (contains data from holes drilled by the Department in the summer of 1975).
- Hull, D.A., Blackwell, D.D., Bowen, R.G., Peterson, N.V., and Black, G.L., 1977, Geothermal gradient data: Oregon Department of Geology and Mineral Industries Open-File Report O-77-2, 134 p. (contains data collected by the Department between September 1975 and December 1976).

LOCATION: PENDLETON AMS, OREGON
 6N/35E-31BD
 HOLE NUMBER: KEYS
 DATE MEASURED: 3/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.370	52.47	0.0	0.0
15.0	49.2	12.050	53.69	136.0	7.5
20.0	65.6	11.980	53.56	-14.0	-0.8
25.0	82.0	12.080	53.74	20.0	1.1
30.0	98.4	12.140	53.85	12.0	0.7
35.0	114.8	12.210	53.98	14.0	0.8
40.0	131.2	12.290	54.12	16.0	0.9
45.0	147.6	12.380	54.28	18.0	1.0
50.0	164.0	12.480	54.46	20.0	1.1
55.0	180.4	12.600	54.68	24.0	1.3
60.0	196.8	12.720	54.90	24.0	1.3
65.0	213.2	12.800	55.04	16.0	0.9
70.0	229.6	12.890	55.20	18.0	1.0
75.0	246.0	12.920	55.26	6.0	0.3
80.0	262.4	12.950	55.31	6.0	0.3
85.0	278.8	13.020	55.44	14.0	0.8
90.0	295.2	13.150	55.67	26.0	1.4
95.0	311.6	13.270	55.89	24.0	1.3
100.0	328.0	13.450	56.21	36.0	2.0
105.0	344.4	13.640	56.55	38.0	2.1
110.0	360.8	13.860	56.95	44.0	2.4
115.0	377.2	14.040	57.27	36.0	2.0
120.0	393.6	14.170	57.51	26.0	1.4
125.0	410.0	14.330	57.79	32.0	1.8
130.0	426.4	14.470	58.05	28.0	1.5
135.0	442.8	14.610	58.30	28.0	1.5
140.0	459.2	14.750	58.55	28.0	1.5
145.0	475.6	14.920	58.86	34.0	1.9
150.0	492.0	15.080	59.14	32.0	1.8
155.0	508.4	15.250	59.45	34.0	1.9
160.0	524.8	15.410	59.74	32.0	1.8
165.0	541.2	15.590	60.06	36.0	2.0
170.0	557.6	15.750	60.35	32.0	1.8
175.0	574.0	15.900	60.62	30.0	1.6
180.0	590.4	16.110	61.00	42.0	2.3
185.0	606.8	16.410	61.54	60.0	3.3
190.0	623.2	16.740	62.13	66.0	3.6
195.0	639.6	17.230	63.01	98.0	5.4
200.0	656.0	17.310	63.16	16.0	0.9

LOCATION: PENDLETON AMS, OREGON

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6N/35E-31BD

HOLE NUMBER: KEYS

DATE MEASURED: 3/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
205.0	672.4	17.350	63.23	8.0	0.4
210.0	688.8	17.360	63.25	8.0	0.1
215.0	705.2	17.370	63.27	8.0	0.1
220.0	721.6	17.390	63.30	4.0	0.2
225.0	738.0	17.680	63.82	58.0	3.2
230.0	754.4	18.150	64.67	94.0	5.2
235.0	770.8	18.360	65.05	42.0	2.3
240.0	787.2	18.570	65.43	42.0	2.3
245.0	803.6	18.720	65.70	30.0	1.6
250.0	820.0	18.930	66.07	42.0	2.3
255.0	836.4	19.120	66.42	38.0	2.1
260.0	852.8	19.260	66.67	28.0	1.5
265.0	869.2	19.400	66.92	28.0	1.5
270.0	885.6	19.540	67.17	28.0	1.5
275.0	902.0	19.660	67.39	24.0	1.3
280.0	918.4	19.780	67.60	24.0	1.3
285.0	934.8	19.880	67.78	20.0	1.1
290.0	951.2	19.940	67.89	12.0	0.7

LOCATION: PENDLETON AMS, OREGON
 6N/35E-35DD
 HOLE NUMBER: ELIZABET
 DATE MEASURED: 3/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
12.5	41.0	9.700	49.46	0.0	0.0
15.0	49.2	9.450	49.01	-100.0	-5.5
17.5	57.4	9.440	48.99	-4.0	-0.2
20.0	65.6	9.460	49.03	8.0	0.4
22.5	73.8	9.470	49.05	4.0	0.2
25.0	82.0	9.490	49.08	8.0	0.4
27.5	90.2	9.570	49.23	32.0	1.8
30.0	98.4	9.630	49.33	24.0	1.3

LOCATION: PENDLETON AMS, OREGON
 5N/27E-21AB
 HOLE NUMBER: MORROW
 DATE MEASURED: 9/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.210	55.78	0.0	0.0
12.5	41.0	13.540	56.37	132.0	7.2
15.0	49.2	13.900	57.02	144.0	7.9
17.5	57.4	14.270	57.69	148.0	8.1
20.0	65.6	14.650	58.37	152.0	8.3
22.5	73.8	15.120	59.22	188.0	10.3
25.0	82.0	15.630	60.13	204.0	11.2
27.5	90.2	16.180	61.12	220.0	12.1
30.0	98.4	16.670	62.01	196.0	10.8
32.5	106.6	16.670	62.01	0.0	0.0
35.0	114.8	16.710	62.08	16.0	0.9
37.5	123.0	16.760	62.17	20.0	1.1
40.0	131.2	16.810	62.26	20.0	1.1
42.5	139.4	16.850	62.33	16.0	0.9
45.0	147.6	16.900	62.42	20.0	1.1
50.0	164.0	16.960	62.53	12.0	0.7
55.0	180.4	17.030	62.65	14.0	0.8
60.0	196.8	17.070	62.73	8.0	0.4
65.0	213.2	17.110	62.80	8.0	0.4
70.0	229.6	17.120	62.82	2.0	0.1

LOCATION: PENDLETON AMS, OREGON
 5N/28E-22BC
 HOLE NUMBER: RIVERBEN
 DATE MEASURED: 2/ 3/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	15.130	59.23	0.0	0.0
20.0	65.6	15.190	59.34	12.0	0.7
25.0	82.0	15.360	59.65	34.0	1.9
30.0	98.4	15.450	59.81	18.0	1.0
35.0	114.8	15.540	59.97	18.0	1.0
40.0	131.2	15.620	60.12	16.0	0.9
45.0	147.6	15.900	60.62	56.0	3.1
50.0	164.0	15.910	60.64	2.0	0.1
55.0	180.4	15.910	60.64	0.0	0.0
60.0	196.8	15.920	60.66	2.0	0.1
65.0	213.2	15.920	60.66	0.0	0.0
70.0	229.6	15.920	60.66	0.0	0.0
75.0	246.0	15.920	60.66	0.0	0.0
80.0	262.4	15.920	60.66	0.0	0.0

LOCATION: PENDLETON AMS, OREGON
 4N/25E-10AC
 HOLE NUMBER: BOARDMAN
 DATE MEASURED: 10/ 4/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	17.680	63.82	0.0	0.0
25.0	82.0	17.020	62.64	-132.0	-7.2
30.0	98.4	17.160	62.89	28.0	1.5
35.0	114.8	17.270	63.09	22.0	1.2
40.0	131.2	17.430	63.37	32.0	1.8
45.0	147.6	17.550	63.59	24.0	1.3
50.0	164.0	17.590	63.66	8.0	0.4
55.0	180.4	17.610	63.70	4.0	0.2
60.0	196.8	17.640	63.75	6.0	0.3
65.0	213.2	17.630	63.73	-2.0	-0.1
70.0	229.6	17.650	63.77	4.0	0.2
75.0	246.0	17.710	63.88	12.0	0.7
80.0	262.4	18.020	64.44	62.0	3.4
85.0	278.8	18.490	65.28	94.0	5.2
90.0	295.2	18.550	65.39	12.0	0.7
95.0	311.6	18.580	65.44	6.0	0.3
100.0	328.0	18.590	65.46	2.0	0.1
105.0	344.4	18.590	65.46	0.0	0.0
110.0	360.8	18.590	65.46	0.0	0.0
115.0	377.2	18.590	65.46	0.0	0.0
120.0	393.6	18.600	65.48	2.0	0.1
125.0	410.0	18.670	65.61	14.0	0.8
130.0	426.4	18.770	65.79	20.0	1.1
135.0	442.8	18.930	66.07	32.0	1.8
140.0	459.2	19.300	66.74	74.0	4.1
145.0	475.6	19.510	67.12	42.0	2.3
150.0	492.0	20.050	68.09	108.0	5.9
155.0	508.4	20.340	68.61	58.0	3.2

LOCATION: PENDLETON AMS, OREGON
 4N/37E-26CD
 HOLE NUMBER: TOLGATE
 DATE MEASURED: 2/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
40.0	131.2	4.670	40.41	0.0	0.0
50.0	164.0	4.630	40.33	-4.0	-0.2
60.0	196.8	4.610	40.30	-2.0	-0.1
70.0	229.6	4.630	40.33	2.0	0.1
75.0	246.0	4.630	40.33	0.0	0.0
80.0	262.4	4.630	40.33	0.0	0.0
85.0	278.8	4.630	40.33	0.0	0.0
90.0	295.2	4.630	40.33	0.0	0.0
95.0	311.6	4.640	40.35	2.0	0.1
100.0	328.0	4.670	40.41	6.0	0.3
105.0	344.4	4.730	40.51	12.0	0.7

LOCATION: VANCOUVER AMS, OREGON
 3N/ 4W-36CA
 HOLE NUMBER: KELLY
 DATE MEASURED: 8/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	9.640	49.35	0.0	0.0
15.0	49.2	9.590	49.26	-10.0	-0.5
20.0	65.6	9.540	49.17	-10.0	-0.5
25.0	82.0	9.500	49.10	-8.0	-0.4
30.0	98.4	9.460	49.03	-8.0	-0.4
35.0	114.8	9.430	48.97	-6.0	-0.3
40.0	131.2	9.400	48.92	-6.0	-0.3
45.0	147.6	9.390	48.90	-2.0	-0.1
50.0	164.0	9.380	48.88	-2.0	-0.1
55.0	180.4	9.390	48.90	2.0	0.1
60.0	196.8	9.470	49.05	16.0	0.9
65.0	213.2	9.470	49.05	0.0	0.0
70.0	229.6	9.510	49.12	8.0	0.4
75.0	246.0	9.570	49.23	12.0	0.7
80.0	262.4	9.640	49.35	14.0	0.8
85.0	278.8	9.710	49.48	14.0	0.8
90.0	295.2	9.800	49.64	18.0	1.0
95.0	311.6	9.880	49.78	16.0	0.9
100.0	328.0	9.970	49.95	18.0	1.0
105.0	344.4	10.090	50.16	24.0	1.3
110.0	360.8	10.220	50.40	26.0	1.4
115.0	377.2	10.350	50.63	26.0	1.4

LOCATION: PENDLETON AMS, OREGON

3N/12E-32CD

HOLE NUMBER: MEMALSEP

DATE MEASURED: 6/28/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.150	53.87	0.0	0.0
20.0	65.6	12.240	54.03	9.0	0.5
30.0	98.4	12.790	55.02	55.0	3.0
35.0	114.8	13.050	55.49	52.0	2.9
37.5	123.0	13.210	55.78	64.0	3.5
40.0	131.2	13.330	55.99	48.0	2.6
42.5	139.4	13.490	56.28	64.0	3.5
45.0	147.6	13.590	56.46	40.0	2.2
47.5	155.8	13.740	56.73	60.0	3.3
50.0	164.0	13.830	56.89	36.0	2.0
52.5	172.2	14.010	57.22	72.0	4.0
55.0	180.4	14.180	57.52	68.0	3.7
57.5	188.6	14.320	57.78	56.0	3.1
60.0	196.8	14.430	57.97	44.0	2.4
62.5	205.0	14.580	58.24	60.0	3.3
65.0	213.2	14.660	58.39	32.0	1.8
67.5	221.4	14.860	58.75	80.0	4.4

LOCATION: THE DALLES AMS, OREGON

3N/10E-33CA

HOLE NUMBER: CARTER

DATE MEASURED: 7/27/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.520	47.34	0.0	0.0
20.0	65.6	8.800	47.84	28.0	1.5
30.0	98.4	9.290	48.72	49.0	2.7
35.0	114.8	9.310	48.76	4.0	0.2
40.0	131.2	9.320	48.78	2.0	0.1
45.0	147.6	9.330	48.79	2.0	0.1
50.0	164.0	9.330	48.79	0.0	0.0
55.0	180.4	9.330	48.79	0.0	0.0
60.0	196.8	9.310	48.76	-4.0	-0.2
65.0	213.2	9.320	48.78	2.0	0.1
70.0	229.6	9.340	48.81	4.0	0.2
75.0	246.0	9.360	48.85	4.0	0.2
80.0	262.4	9.360	48.85	0.0	0.0

LOCATION: PENDLETON AMS, OREGON
 3N/30E- 6CBA
 HOLE NUMBER: STAGE
 DATE MEASURED: 12/12/76

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
25.0	82.0	16.770	62.19	0.0	0.0
30.0	98.4	16.840	62.31	14.0	0.8
35.0	114.8	16.960	62.53	24.0	1.3
40.0	131.2	17.130	62.83	34.0	1.9
45.0	147.6	17.330	63.19	40.0	2.2
50.0	164.0	17.510	63.52	36.0	2.0
55.0	180.4	17.750	63.95	48.0	2.6
60.0	196.8	18.040	64.47	58.0	3.2
65.0	213.2	18.430	65.17	78.0	4.3
70.0	229.6	18.850	65.93	84.0	4.6
75.0	246.0	19.280	66.70	86.0	4.7
80.0	262.4	19.840	67.71	112.0	6.1
85.0	278.8	20.450	68.81	122.0	6.7
90.0	295.2	21.090	69.96	128.0	7.0
95.0	311.6	21.950	71.51	172.0	9.4
100.0	328.0	22.460	72.43	102.0	5.6
105.0	344.4	22.520	72.54	12.0	0.7
110.0	360.8	22.590	72.66	14.0	0.8
115.0	377.2	22.630	72.73	8.0	0.4
120.0	393.6	22.660	72.79	6.0	0.3
125.0	410.0	22.720	72.90	12.0	0.7
130.0	426.4	22.740	72.93	4.0	0.2
135.0	442.8	22.780	73.00	8.0	0.4
140.0	459.2	22.800	73.04	4.0	0.2
145.0	475.6	22.850	73.13	10.0	0.5
150.0	492.0	22.860	73.15	2.0	0.1
155.0	508.4	22.890	73.20	6.0	0.3
160.0	524.8	22.930	73.27	8.0	0.4
165.0	541.2	22.970	73.35	8.0	0.4
170.0	557.6	22.990	73.38	4.0	0.2
175.0	574.0	23.020	73.44	6.0	0.3
180.0	590.4	23.040	73.47	4.0	0.2
185.0	606.8	23.060	73.51	4.0	0.2
190.0	623.2	23.070	73.53	2.0	0.1
195.0	639.6	23.070	73.53	0.0	0.0
200.0	656.0	23.100	73.58	6.0	0.3
205.0	672.4	23.200	73.76	20.0	1.1
210.0	688.8	23.210	73.78	2.0	0.1
215.0	705.2	23.220	73.80	2.0	0.1

LOCATION: PENDLETON AMS, OREGON
 3N/30E- 6CBA
 HOLE NUMBER: STAGE
 DATE MEASURED: 12/12/76

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DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
220.0	721.6	23.230	73.81	2.0	0.1
225.0	738.0	23.230	73.81	0.0	0.0
230.0	754.4	23.240	73.83	2.0	0.1
235.0	770.8	23.220	73.80	-4.0	-0.2
240.0	787.2	23.440	74.19	44.0	2.4
245.0	803.6	23.480	74.26	8.0	0.4
250.0	820.0	23.510	74.32	6.0	0.3
255.0	836.4	23.520	74.34	2.0	0.1
260.0	852.8	23.520	74.34	0.0	0.0
265.0	869.2	23.520	74.34	0.0	0.0
270.0	885.6	23.510	74.32	-2.0	-0.1
275.0	902.0	23.510	74.32	0.0	0.0
280.0	918.4	23.500	74.30	-2.0	-0.1
285.0	934.8	23.470	74.25	-6.0	-0.3
290.0	951.2	23.410	74.14	-12.0	-0.7
295.0	967.6	23.380	74.08	-6.0	-0.3
300.0	984.0	23.350	74.03	-6.0	-0.3
305.0	1000.4	23.350	74.03	0.0	0.0
310.0	1016.8	23.380	74.08	6.0	0.3

LOCATION: VANCOUVER AMS, OREGON
 2N/ 4W-15CC
 HOLE NUMBER: CHRYSLER
 DATE MEASURED: 8/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.510	50.92	0.0	0.0
15.0	49.2	9.830	49.69	-136.0	-7.5
20.0	65.6	9.600	49.28	-46.0	-2.5
25.0	82.0	9.590	49.26	-2.0	-0.1
30.0	98.4	9.540	49.17	-10.0	-0.5
35.0	114.8	9.520	49.14	-4.0	-0.2
40.0	131.2	9.520	49.14	0.0	0.0
45.0	147.6	9.530	49.15	2.0	0.1
50.0	164.0	9.540	49.17	2.0	0.1
55.0	180.4	9.560	49.21	4.0	0.2
60.0	196.8	9.590	49.26	6.0	0.3
65.0	213.2	9.640	49.35	10.0	0.5
70.0	229.6	9.710	49.48	14.0	0.8
75.0	246.0	9.780	49.60	14.0	0.8

LOCATION: VANCOUVER AMS, OREGON

2N/ 1W-32BB

HOLE NUMBER: PELTZ

DATE MEASURED: 7/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	9.880	49.78	0.0	0.0
30.0	98.4	10.000	50.00	12.0	0.7
40.0	131.2	9.790	49.62	-21.0	-1.2
50.0	164.0	9.750	49.55	-4.0	-0.2
60.0	196.8	9.730	49.51	-2.0	-0.1
70.0	229.6	9.780	49.60	5.0	0.3
75.0	246.0	9.900	49.82	24.0	1.3
80.0	262.4	9.920	49.86	4.0	0.2
85.0	278.8	9.940	49.89	4.0	0.2
90.0	295.2	10.140	50.25	40.0	2.2
95.0	311.6	10.260	50.47	24.0	1.3
100.0	328.0	10.500	50.90	48.0	2.6
105.0	344.4	10.540	50.97	8.0	0.4
110.0	360.8	10.530	50.95	-2.0	-0.1
115.0	377.2	10.540	50.97	2.0	0.1
120.0	393.6	10.560	51.01	4.0	0.2
125.0	410.0	10.620	51.12	12.0	0.7
130.0	426.4	10.690	51.24	14.0	0.8
135.0	442.8	10.760	51.37	14.0	0.8
140.0	459.2	10.850	51.53	18.0	1.0
145.0	475.6	10.910	51.64	12.0	0.7
150.0	492.0	11.010	51.82	20.0	1.1
155.0	508.4	11.230	52.21	44.0	2.4
160.0	524.8	11.280	52.30	10.0	0.5

LOCATION: THE DALLES AMS, OREGON

2N/10E-18AA

HOLE NUMBER: YORK HL

DATE MEASURED: 7/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	9.120	48.42	0.0	0.0
20.0	65.6	9.410	48.94	29.0	1.6
30.0	98.4	9.610	49.30	20.0	1.1
40.0	131.2	9.710	49.48	10.0	0.5
50.0	164.0	9.820	49.68	11.0	0.6

LOCATION: THE DALLES AMS, OREGON

2N/11E- 5DA

HOLE NUMBER: HOODRMTN

DATE MEASURED: 6/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
40.0	131.2	10.830	51.49	0.0	0.0
50.0	164.0	10.800	51.44	-3.0	-0.2
60.0	196.8	10.940	51.69	14.0	0.8

LOCATION: THE DALLES AMS, OREGON
 2N/11E-20AB
 HOLE NUMBER: HAUNT
 DATE MEASURED: 6/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	9.840	49.71	0.0	0.0
20.0	65.6	10.120	50.22	28.0	1.5
30.0	98.4	10.270	50.49	15.0	0.8
40.0	131.2	10.450	50.81	18.0	1.0
50.0	164.0	10.670	51.21	22.0	1.2
60.0	196.8	10.750	51.35	8.0	0.4
70.0	229.6	11.020	51.84	27.0	1.5
80.0	262.4	11.220	52.20	20.0	1.1
90.0	295.2	11.490	52.68	27.0	1.5
100.0	328.0	11.770	53.19	28.0	1.5
110.0	360.8	12.050	53.69	28.0	1.5
120.0	393.6	12.290	54.12	24.0	1.3

LOCATION: THE DALLES AMS, OREGON
 2N/12E-30C
 HOLE NUMBER: ROWENACK
 DATE MEASURED: 8/1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	8.020	46.44	0.0	0.0
20.0	65.6	8.210	46.78	38.0	2.1
30.0	98.4	8.840	47.91	63.0	3.5
35.0	114.8	9.120	48.42	56.0	3.1
45.0	147.6	10.340	50.61	122.0	6.7
50.0	164.0	11.080	51.94	148.0	8.1
55.0	180.4	11.100	51.98	4.0	0.2
60.0	196.8	11.130	52.03	6.0	0.3
65.0	213.2	11.180	52.12	10.0	0.5
70.0	229.6	11.210	52.18	6.0	0.3
75.0	246.0	11.240	52.23	6.0	0.3
80.0	262.4	11.280	52.30	8.0	0.4
85.0	278.8	11.320	52.38	8.0	0.4
90.0	295.2	11.420	52.56	20.0	1.1
95.0	311.6	11.450	52.61	6.0	0.3
100.0	328.0	11.480	52.66	6.0	0.3
105.0	344.4	11.530	52.75	10.0	0.5
110.0	360.8	11.680	53.02	30.0	1.6
115.0	377.2	11.770	53.19	18.0	1.0
120.0	393.6	11.830	53.29	12.0	0.7
125.0	410.0	11.860	53.35	6.0	0.3
130.0	426.4	11.970	53.55	22.0	1.2
135.0	442.8	11.960	53.53	-2.0	-0.1
140.0	459.2	11.920	53.46	-8.0	-0.4
145.0	475.6	11.980	53.56	12.0	0.7

LOCATION: THE DALLES AMS, OREGON
 2N/12E- 58A
 HOLE NUMBER: BERTHOLD
 DATE MEASURED: 6/28/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
50.0	164.0	12.650	54.77	0.0	0.0
100.0	328.0	13.530	56.35	17.6	1.0
130.0	426.4	14.710	58.48	39.3	2.2
140.0	459.2	14.790	58.62	8.0	0.4
145.0	475.6	14.840	58.71	10.0	0.5
150.0	492.0	14.890	58.80	10.0	0.5
155.0	508.4	14.980	58.96	18.0	1.0
160.0	524.8	15.040	59.07	12.0	0.7
165.0	541.2	15.110	59.20	14.0	0.8
170.0	557.6	15.170	59.31	12.0	0.7
175.0	574.0	15.270	59.49	20.0	1.1
180.0	590.4	15.390	59.70	24.0	1.3
185.0	606.8	15.450	59.81	12.0	0.7

LOCATION: THE DALLES AMS, OREGON
 2N/12E- 68B
 HOLE NUMBER: WILSON B
 DATE MEASURED: 6/28/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.860	53.35	0.0	0.0
15.0	49.2	12.050	53.69	38.0	2.1
20.0	65.6	12.210	53.98	32.0	1.8
25.0	82.0	12.340	54.21	26.0	1.4
30.0	98.4	12.470	54.45	26.0	1.4
35.0	114.8	12.600	54.68	26.0	1.4
40.0	131.2	12.730	54.91	26.0	1.4
45.0	147.6	12.880	55.18	30.0	1.6
50.0	164.0	13.040	55.47	32.0	1.8
55.0	180.4	13.240	55.83	40.0	2.2
60.0	196.8	13.310	55.96	14.0	0.8
65.0	213.2	13.450	56.21	28.0	1.5
70.0	229.6	13.610	56.50	32.0	1.8
75.0	246.0	13.790	56.82	36.0	2.0
80.0	262.4	13.970	57.15	36.0	2.0
85.0	278.8	14.350	57.83	76.0	4.2
90.0	295.2	14.650	58.37	60.0	3.3
93.5	306.7	14.880	58.78	65.7	3.6

LOCATION: THE DALLES AMS, OREGON
 2N/12E-16CBA
 HOLE NUMBER: 7 MI HLL
 DATE MEASURED: 8/ 2/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.870	53.37	0.0	0.0
20.0	65.6	12.330	54.19	46.0	20.00
30.0	98.4	12.740	54.93	41.0	20.20
40.0	131.2	13.190	55.74	45.0	20.50
50.0	164.0	13.650	56.57	46.0	20.60
60.0	196.8	14.170	57.51	52.0	20.90
70.0	229.6	14.600	58.28	43.0	20.40
80.0	262.4	15.100	59.18	50.0	20.70
90.0	295.2	15.710	60.28	61.0	23.30
100.0	328.0	16.080	60.94	37.0	20.00
110.0	360.8	16.430	61.57	35.0	1.90
120.0	393.6	16.640	61.95	21.0	1.20
130.0	426.4	17.040	62.67	40.0	20.20
140.0	459.2	17.310	63.16	27.0	1.50
150.0	492.0	17.570	63.63	26.0	1.40
160.0	524.8	18.080	64.54	51.0	20.00
165.0	541.2	18.290	64.92	42.0	20.00
170.0	557.6	18.450	65.21	32.0	1.00
175.0	574.0	18.610	65.50	32.0	1.00
180.0	590.4	18.760	65.77	30.0	1.60
185.0	606.8	18.880	65.98	24.0	1.00

LOCATION: THE DALLES AMS, OREGON
 2N/13E-31CD
 HOLE NUMBER: MONTGOMRY
 DATE MEASURED: 8/ 3/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.810	53.26	0.0	0.0
20.0	65.6	12.290	54.12	48.0	20.00
30.0	98.4	12.660	54.79	37.0	20.00
40.0	131.2	12.920	55.26	26.0	1.40
50.0	164.0	13.110	55.60	19.0	1.00
60.0	196.8	13.440	56.19	33.0	1.00
70.0	229.6	13.920	57.06	48.0	20.60
80.0	262.4	14.110	57.40	19.0	1.00
90.0	295.2	14.860	58.75	75.0	4.10
100.0	328.0	15.400	59.72	54.0	20.00
110.0	360.8	15.820	60.48	42.0	20.00
120.0	393.6	16.230	61.21	41.0	20.20
130.0	426.4	16.830	62.29	60.0	20.00
140.0	459.2	17.260	63.07	43.0	20.40
150.0	492.0	17.730	63.91	47.0	20.60
160.0	524.8	18.310	64.96	58.0	20.20
170.0	557.6	18.650	65.57	34.0	1.00
175.0	574.0	18.810	65.86	32.0	1.00

LOCATION: THE DALLES AMS, OREGON
 2N/14E-31DA
 HOLE NUMBER: WATERS
 DATE MEASURED: 7/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	14.090	57.36	0.0	0.0
35.0	114.8	14.120	57.42	6.0	0.3
40.0	131.2	14.220	57.60	20.0	1.1
45.0	147.6	14.200	57.56	-4.0	-0.2
50.0	164.0	14.220	57.60	4.0	0.2
55.0	180.4	14.270	57.69	10.0	0.5
60.0	196.8	14.260	57.67	-2.0	-0.1
65.0	213.2	14.300	57.74	8.0	0.4
70.0	229.6	14.330	57.79	6.0	0.3
75.0	246.0	14.390	57.90	12.0	0.7
80.0	262.4	14.410	57.94	4.0	0.2
85.0	278.8	14.400	57.92	-2.0	-0.1
90.0	295.2	14.450	58.01	10.0	0.5
95.0	311.6	14.500	58.10	10.0	0.5
100.0	328.0	14.490	58.08	-2.0	-0.1
104.0	341.1	14.660	58.39	42.5	2.3

LOCATION: PENDLETON AMS, OREGON
 2N/26E-32CC
 HOLE NUMBER: GRIEB
 DATE MEASURED: 2/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
100.0	328.0	19.400	67.06	0.0	0.0
105.0	344.4	19.600	67.42	40.0	2.2
110.0	360.8	19.850	67.73	34.0	1.9
115.0	377.2	20.110	68.20	52.0	2.9
120.0	393.6	20.150	68.27	8.0	0.4
125.0	410.0	20.160	68.29	2.0	0.1
130.0	426.4	20.180	68.32	4.0	0.2
135.0	442.8	20.190	68.34	2.0	0.1
140.0	459.2	20.210	68.38	4.0	0.2
145.0	475.6	20.220	68.40	2.0	0.1
150.0	492.0	20.230	68.41	2.0	0.1
155.0	508.4	20.230	68.41	0.0	0.0
160.0	524.8	20.230	68.41	0.0	0.0
165.0	541.2	20.220	68.40	-2.0	-0.1
170.0	557.6	20.550	68.99	66.0	3.6
175.0	574.0	20.790	69.42	48.0	2.6
180.0	590.4	20.970	69.75	36.0	2.0
185.0	606.8	21.130	70.03	32.0	1.8
190.0	623.2	21.270	70.29	28.0	1.5
195.0	639.6	21.280	70.30	2.0	0.1
200.0	656.0	21.280	70.30	0.0	0.0
205.0	672.4	21.280	70.30	0.0	0.0
210.0	688.8	21.290	70.32	2.0	0.1
215.0	705.2	21.300	70.34	2.0	0.1
220.0	721.6	21.450	70.61	30.0	1.6
225.0	738.0	21.440	70.59	-2.0	-0.1
230.0	754.4	21.430	70.57	-2.0	-0.1
235.0	770.8	21.440	70.59	2.0	0.1
240.0	787.2	21.450	70.61	2.0	0.1
245.0	803.6	21.450	70.61	0.0	0.0
250.0	820.0	21.510	70.72	12.0	0.7
255.0	836.4	21.500	70.70	-2.0	-0.1
260.0	852.8	21.900	71.42	80.0	4.4
265.0	869.2	21.840	71.31	-12.0	-0.7
270.0	885.6	21.830	71.29	-2.0	-0.1
275.0	902.0	21.840	71.31	2.0	0.1
280.0	918.4	21.850	71.33	2.0	0.1
285.0	934.8	21.850	71.33	0.0	0.0
290.0	951.2	21.850	71.33	0.0	0.0

LOCATION: PENDLETON AMS, OREGON
 2N/26E-32CC
 HOLE NUMBER: GRIEB
 DATE MEASURED: 2/24/77

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DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
295.0	967.6	21.850	71.33	0.0	0.0
300.0	984.0	21.860	71.35	2.0	0.1
305.0	1000.4	21.860	71.35	0.0	0.0
310.0	1016.8	21.860	71.35	0.0	0.0

LOCATION: GRANGEVILLE AMS, OREGON

2N/40E-8CBA

HOLE NUMBER: EDMUND

DATE MEASURED: 8/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	10.960	51.73	0.0	0.0
30.0	98.4	11.090	51.96	13.0	0.7
40.0	131.2	11.260	52.27	17.0	0.9
50.0	164.0	11.600	52.88	34.0	1.9
60.0	196.8	11.990	53.58	39.0	2.1
70.0	229.6	12.220	54.00	23.0	1.3
80.0	262.4	12.580	54.64	36.0	2.0
90.0	295.2	12.790	55.02	21.0	1.2
100.0	328.0	13.150	55.67	36.0	2.0
110.0	360.8	13.490	56.28	34.0	1.9
120.0	393.6	13.950	57.11	46.0	2.5
130.0	426.4	14.270	57.69	32.0	1.8
140.0	459.2	14.660	58.39	39.0	2.1
150.0	492.0	15.110	59.20	45.0	2.5
160.0	524.8	15.530	59.95	42.0	2.3
170.0	557.6	15.760	60.37	23.0	1.3
180.0	590.4	16.210	61.18	45.0	2.5
185.0	606.8	16.640	61.95	86.0	4.7
190.0	623.2	16.710	62.08	14.0	0.8
195.0	639.6	16.810	62.26	20.0	1.1

LOCATION: GRANGEVILLE AMS, OREGON

2N/40E-27CA

HOLE NUMBER: HUFFMAN

DATE MEASURED: 8/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	8.680	47.62	0.0	0.0
30.0	98.4	8.860	47.95	18.0	1.0
35.0	114.8	8.940	48.09	16.0	0.9
40.0	131.2	9.120	48.42	36.0	2.0
45.0	147.6	9.320	48.78	40.0	2.2
50.0	164.0	9.530	49.15	42.0	2.3
55.0	180.4	9.760	49.57	46.0	2.5

LOCATION: VANCOUVER AMS, OREGON
 1N/ 1W-25BC
 HOLE NUMBER: THMPSNRD
 DATE MEASURED: 7/29/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
50.0	164.0	9.590	49.26	0.0	0.0
60.0	196.8	9.570	49.23	-2.0	-0.1
65.0	213.2	9.590	49.26	4.0	0.2
70.0	229.6	9.600	49.28	2.0	0.1
75.0	246.0	9.780	49.60	36.0	2.0
80.0	262.4	9.810	49.66	6.0	0.3
85.0	278.8	9.880	49.78	14.0	0.8
90.0	295.2	9.970	49.95	18.0	1.0
95.0	311.6	10.070	50.13	20.0	1.1
100.0	328.0	10.170	50.31	20.0	1.1
105.0	344.4	10.260	50.47	18.0	1.0
110.0	360.8	10.340	50.61	16.0	0.9
115.0	377.2	10.410	50.74	14.0	0.8
120.0	393.6	10.490	50.88	16.0	0.9
125.0	410.0	10.600	51.08	22.0	1.2
130.0	426.4	10.700	51.26	20.0	1.1
135.0	442.8	10.800	51.44	20.0	1.1
140.0	459.2	10.860	51.55	12.0	0.7
145.0	475.6	10.920	51.66	12.0	0.7
150.0	492.0	11.000	51.80	16.0	0.9

LOCATION: VANCOUVER AMS, OREGON
 1N/ 2E-16AB
 HOLE NUMBER: PORTAIR
 DATE MEASURED: 6/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.760	53.17	0.0	0.0
12.5	41.0	11.750	53.15	-4.0	-0.7
15.0	49.2	11.720	53.10	-12.0	-0.7
17.5	57.4	11.670	53.01	-20.0	-1.1
20.0	65.6	11.640	52.95	-12.0	-0.7
22.5	73.8	11.620	52.92	-8.0	-0.4
25.0	82.0	11.590	52.86	-12.0	-0.7
27.5	90.2	11.560	52.81	-12.0	-0.7
30.0	98.4	11.560	52.81	0.0	0.0
32.5	106.6	11.570	52.83	2.0	0.1
35.0	114.8	11.550	52.79	8.0	0.4
37.5	123.0	11.580	52.84	6.0	0.3
40.0	131.2	11.600	52.88	8.0	0.4
42.5	139.4	11.640	52.95	16.0	0.9
45.0	147.6	11.670	53.01	12.0	0.7
47.5	155.8	11.710	53.08	16.0	0.9
50.0	164.0	11.770	53.19	24.0	1.3
52.5	172.2	11.840	53.31	28.0	1.5
55.0	180.4	11.930	53.47	36.0	2.0
57.5	188.6	12.010	53.62	32.0	1.8
60.0	196.8	12.120	53.82	44.0	2.4
65.0	213.2	12.350	54.23	46.0	2.5
70.0	229.6	12.600	54.68	50.0	2.7
75.0	246.0	12.850	55.13	50.0	2.7
80.0	262.4	13.020	55.44	34.0	1.9
85.0	278.8	13.140	55.65	24.0	1.3
90.0	295.2	13.160	55.69	4.0	0.7
95.0	311.6	13.160	55.69	0.0	0.0
100.0	328.0	13.160	55.69	0.0	0.0
104.5	342.8	13.200	55.76	8.9	0.5

LOCATION: VANCOUVER AMS, OREGON
 1N/ 2E-24DA
 HOLE NUMBER: 158THAVE
 DATE MEASURED: 7/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	12.680	54.82	0.0	0.0
10.0	32.8	12.230	54.01	-90.0	-4.9
15.0	49.2	12.300	54.14	14.0	0.8
20.0	65.6	12.040	53.67	-52.0	-2.9
25.0	82.0	11.880	53.38	-32.0	-1.8
30.0	98.4	11.790	53.22	-18.0	-1.0
35.0	114.8	11.700	53.06	-18.0	-1.0
40.0	131.2	11.650	52.97	-10.0	-0.5
45.0	147.6	11.650	52.97	0.0	0.0
50.0	164.0	11.680	53.02	6.0	0.3
55.0	180.4	11.740	53.13	12.0	0.7
60.0	196.8	11.830	53.29	18.0	1.0
65.0	213.2	11.920	53.46	18.0	1.0
70.0	229.6	12.050	53.69	26.0	1.4
75.0	246.0	12.170	53.91	24.0	1.3
80.0	262.4	12.320	54.18	30.0	1.6
85.0	278.8	12.480	54.46	32.0	1.8
90.0	295.2	12.620	54.72	28.0	1.5
95.0	311.6	12.750	54.95	26.0	1.4

LOCATION: VANCOUVER AMS, OREGON
 1N/ 2E-29DA
 HOLE NUMBER: 79-THOMP
 DATE MEASURED: 10/13/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
55.0	180.4	11.730	53.11	0.0	0.0
60.0	196.8	11.420	52.56	-62.0	-3.4
65.0	213.2	11.270	52.29	-30.0	-1.6
70.0	229.6	11.140	52.05	-26.0	-1.4
75.0	246.0	11.040	51.87	-20.0	-1.1
80.0	262.4	10.970	51.75	-14.0	-0.8
85.0	278.8	10.920	51.66	-10.0	-0.5
90.0	295.2	10.900	51.62	-4.0	-0.2
95.0	311.6	10.900	51.62	0.0	0.0
100.0	328.0	10.920	51.66	4.0	0.2
105.0	344.4	10.940	51.69	4.0	0.2
110.0	360.8	10.980	51.76	8.0	0.4
115.0	377.2	11.030	51.85	10.0	0.5
120.0	393.6	11.090	51.96	12.0	0.7
125.0	410.0	11.180	52.12	18.0	1.0
130.0	426.4	11.260	52.27	16.0	0.9
135.0	442.8	11.320	52.38	12.0	0.7
140.0	459.2	11.370	52.47	10.0	0.5
145.0	475.6	11.460	52.63	18.0	1.0
150.0	492.0	11.550	52.79	18.0	1.0
155.0	508.4	11.660	52.99	22.0	1.2
160.0	524.8	11.750	53.15	18.0	1.0
165.0	541.2	11.890	53.40	28.0	1.5
170.0	557.6	12.040	53.67	30.0	1.6
175.0	574.0	12.210	53.98	34.0	1.9
180.0	590.4	12.370	54.27	32.0	1.8
185.0	606.8	12.510	54.52	28.0	1.5
190.0	623.2	12.680	54.82	34.0	1.9
195.0	639.6	12.840	55.11	32.0	1.8
200.0	656.0	13.010	55.42	34.0	1.9
205.0	672.4	13.170	55.71	32.0	1.8
210.0	688.8	13.320	55.98	30.0	1.6
215.0	705.2	13.490	56.28	34.0	1.9
220.0	721.6	13.670	56.61	36.0	2.0
225.0	738.0	13.820	56.88	30.0	1.6
230.0	754.4	13.980	57.16	32.0	1.8
235.0	770.8	14.100	57.38	24.0	1.3
240.0	787.2	14.210	57.58	22.0	1.2
245.0	803.6	14.310	57.76	20.0	1.1

LOCATION: VANCOUVER AMS, OREGON
 1N/ 3E-33AD
 HOLE NUMBER: PWB-WW
 DATE MEASURED: 10/12/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
55.0	180.4	11.950	53.51	0.0	0.0
60.0	196.8	11.990	53.58	0.0	0.4
65.0	213.2	12.050	53.69	12.0	0.7
70.0	229.6	12.130	53.83	16.0	0.9
75.0	246.0	12.200	53.96	14.0	0.8
80.0	262.4	12.280	54.10	16.0	0.9
85.0	278.8	12.370	54.27	18.0	1.0
90.0	295.2	12.470	54.45	20.0	1.1
95.0	311.6	12.580	54.64	22.0	1.2
100.0	328.0	12.700	54.86	24.0	1.3
105.0	344.4	12.870	55.17	34.0	1.9
110.0	360.8	12.990	55.38	24.0	1.3
115.0	377.2	13.050	55.49	12.0	0.7
120.0	393.6	13.120	55.62	14.0	0.8
125.0	410.0	13.190	55.74	14.0	0.8
130.0	426.4	13.320	55.98	26.0	1.4
135.0	442.8	13.530	56.35	42.0	2.3
140.0	459.2	13.810	56.86	56.0	3.1
145.0	475.6	14.080	57.34	54.0	3.0
150.0	492.0	14.260	57.67	36.0	2.0
155.0	508.4	14.410	57.94	30.0	1.6
160.0	524.8	14.600	58.28	38.0	2.1
165.0	541.2	14.800	58.64	40.0	2.2
170.0	557.6	14.800	58.64	0.0	0.0
175.0	574.0	14.810	58.66	2.0	0.1
180.0	590.4	15.260	59.47	90.0	4.9
185.0	606.8	15.530	59.95	54.0	3.0
190.0	623.2	15.830	60.49	60.0	3.3
195.0	639.6	16.020	60.84	38.0	2.1
200.0	656.0	16.190	61.14	34.0	1.9
205.0	672.4	16.360	61.45	34.0	1.9
210.0	688.8	16.540	61.77	36.0	2.0
215.0	705.2	16.670	62.01	26.0	1.4
220.0	721.6	16.890	62.40	44.0	2.4
225.0	738.0	17.130	62.83	48.0	2.6
230.0	754.4	17.340	63.21	42.0	2.3
235.0	770.8	17.520	63.54	36.0	2.0
240.0	787.2	17.700	63.86	36.0	2.0
245.0	803.6	17.890	64.20	38.0	2.1

LOCATION: VANCOUVER AMS, OREGON
 1N/ 3E-33AD
 HOLE NUMBER: PWB-44
 DATE MEASURED: 10/12/77

PAGE 2

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
250.0	820.0	18.090	64.56	40.0	2.2
255.0	836.4	18.270	64.89	36.0	2.0
260.0	852.8	18.450	65.21	36.0	2.0
265.0	869.2	18.620	65.52	34.0	1.9
270.0	885.6	18.800	65.84	36.0	2.0
275.0	902.0	18.970	66.15	34.0	1.9
280.0	918.4	19.140	66.45	34.0	1.9
285.0	934.8	19.310	66.76	34.0	1.9
290.0	951.2	19.470	67.05	32.0	1.8
295.0	967.6	19.630	67.33	32.0	1.8
300.0	984.0	19.780	67.60	30.0	1.6
305.0	1000.4	19.940	67.89	32.0	1.8
310.0	1016.8	20.080	68.14	28.0	1.5
315.0	1033.2	20.210	68.38	26.0	1.4
320.0	1049.6	20.360	68.65	30.0	1.6
325.0	1066.0	20.540	68.97	36.0	2.0
330.0	1082.4	20.830	69.49	58.0	3.2

LOCATION: VANCOUVER AMS, OREGON
 1N/ 3E-36BA
 HOLE NUMBER: TRIDLCTY
 DATE MEASURED: 11/ 4/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
55.0	180.4	11.060	51.91	0.0	0.0
60.0	196.8	11.060	51.91	0.0	0.0
65.0	213.2	11.060	51.91	0.0	0.0
70.0	229.6	11.060	51.91	0.0	0.0
75.0	246.0	11.050	51.89	-2.0	-0.1
80.0	262.4	11.050	51.89	0.0	0.0
85.0	278.8	11.050	51.89	0.0	0.0
90.0	295.2	11.050	51.89	0.0	0.0
95.0	311.6	11.050	51.89	0.0	0.0
100.0	328.0	11.050	51.89	0.0	0.0
105.0	344.4	11.050	51.89	0.0	0.0
110.0	360.8	11.050	51.89	0.0	0.0
115.0	377.2	11.060	51.91	2.0	0.1
120.0	393.6	11.060	51.91	0.0	0.0
125.0	410.0	11.080	51.94	4.0	0.2
130.0	426.4	11.190	52.14	22.0	1.2
135.0	442.8	11.710	53.08	104.0	5.7
140.0	459.2	12.220	54.00	102.0	5.6
145.0	475.6	12.770	54.99	110.0	6.0
150.0	492.0	13.300	55.94	105.0	5.8
155.0	508.4	13.660	56.59	72.0	4.0
160.0	524.8	14.000	57.20	68.0	3.7
165.0	541.2	14.370	57.87	74.0	4.1

LOCATION: THE DALLES AMS, OREGON
 1N/ 9E- 1AC
 HOLE NUMBER: PNCHBWL
 DATE MEASURED: 6/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.190	52.14	0.0	0.0
30.0	98.4	13.150	55.67	196.0	10.8
35.0	114.8	14.070	57.33	184.0	10.1
40.0	131.2	16.370	61.47	460.0	25.2
45.0	147.6	19.350	66.83	596.0	32.7
50.0	164.0	23.750	74.75	880.0	48.3
55.0	180.4	24.370	75.87	124.0	6.8
60.0	196.8	24.370	75.87	0.0	0.0
65.0	213.2	24.380	75.88	2.0	0.1
70.0	229.6	24.380	75.88	0.0	0.0
75.0	246.0	24.370	75.87	-2.0	-0.1
80.0	262.4	24.410	75.94	0.0	0.4
85.0	278.8	24.420	75.96	2.0	0.1
90.0	295.2	24.420	75.96	0.0	0.0
95.0	311.6	24.470	76.05	10.0	0.5
100.0	328.0	24.470	76.05	0.0	0.0
105.0	344.4	24.510	76.12	8.0	0.4
110.0	360.8	24.590	76.26	16.0	0.9
115.0	377.2	22.090	71.76	-500.0	-27.4
120.0	393.6	22.060	71.71	-6.0	-0.3
125.0	410.0	22.060	71.71	0.0	0.0
130.0	426.4	22.060	71.71	0.0	0.0
135.0	442.8	22.080	71.74	4.0	0.2
140.0	459.2	22.090	71.76	2.0	0.1
145.0	475.6	22.080	71.74	-2.0	-0.1
150.0	492.0	22.070	71.73	-2.0	-0.1
155.0	508.4	22.050	71.69	-4.0	-0.2
160.0	524.8	22.050	71.69	0.0	0.0
165.0	541.2	22.050	71.69	0.0	0.0
170.0	557.6	22.050	71.69	0.0	0.0
175.0	574.0	22.050	71.69	0.0	0.0

LOCATION: THE DALLES AMS, OREGON

1N/13E- 1CB

HOLE NUMBER: DALLEST

DATE MEASURED: 7/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
25.0	82.0	14.180	57.52	0.0	0.0
30.0	98.4	14.600	58.28	84.0	4.6
35.0	114.8	15.220	59.40	124.0	6.8
40.0	131.2	15.250	59.45	6.0	0.3
45.0	147.6	15.280	59.50	6.0	0.3
50.0	164.0	15.490	59.88	42.0	2.3
55.0	180.4	15.640	60.15	30.0	1.6
60.0	196.8	15.790	60.42	30.0	1.6
65.0	213.2	15.790	60.42	0.0	0.0
70.0	229.6	15.800	60.44	2.0	0.1
75.0	246.0	15.820	60.48	4.0	0.2
80.0	262.4	15.820	60.48	0.0	0.0
85.0	278.8	15.850	60.53	6.0	0.3
90.0	295.2	15.870	60.57	4.0	0.2
95.0	311.6	15.860	60.55	-2.0	-0.1
100.0	328.0	15.910	60.64	10.0	0.5
105.0	344.4	15.980	60.76	14.0	0.8
110.0	360.8	16.000	60.80	4.0	0.2
115.0	377.2	16.030	60.85	6.0	0.3
120.0	393.6	16.100	60.98	14.0	0.8
125.0	410.0	16.150	61.07	10.0	0.5
130.0	426.4	16.170	61.11	4.0	0.2

LOCATION: PENDLETON AMS, OREGON

1N/30E-27BB

HOLE NUMBER: FIX

DATE MEASURED: 11/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
75.0	246.0	13.190	55.74	0.0	0.0
80.0	262.4	14.580	58.24	278.0	15.3
85.0	278.8	14.580	58.24	0.0	0.0
90.0	295.2	14.600	58.28	4.0	0.2
95.0	311.6	14.610	58.30	2.0	0.1
100.0	328.0	14.610	58.30	0.0	0.0
105.0	344.4	14.650	58.37	8.0	0.4
110.0	360.8	14.670	58.41	4.0	0.2
115.0	377.2	14.700	58.46	6.0	0.3
120.0	393.6	14.730	58.51	6.0	0.3
125.0	410.0	14.760	58.57	6.0	0.3
130.0	426.4	14.770	58.59	2.0	0.1
135.0	442.8	14.810	58.66	8.0	0.4
140.0	459.2	14.830	58.69	4.0	0.2
145.0	475.6	14.870	58.77	8.0	0.4
150.0	492.0	14.910	58.84	8.0	0.4
155.0	508.4	14.940	58.89	6.0	0.3
160.0	524.8	15.040	59.07	20.0	1.1
165.0	541.2	15.050	59.09	2.0	0.1
170.0	557.6	15.060	59.11	2.0	0.1
175.0	574.0	15.050	59.09	-2.0	-0.1

LOCATION: PENDLETON AMS, OREGON

1N/38E-24AC

HOLE NUMBER: BAYLINK

DATE MEASURED: 7/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
45.0	147.6	9.600	49.28	0.0	0.0
50.0	164.0	9.510	49.12	-18.0	-1.0
55.0	180.4	9.430	48.97	-16.0	-0.9
60.0	196.8	9.360	48.85	-14.0	-0.8
65.0	213.2	9.310	48.76	-10.0	-0.5
70.0	229.6	9.250	48.65	-12.0	-0.7

LOCATION: GRANGEVILLE AMS, OREGON

1N/39E-23CC

HOLE NUMBER: WSTNSKOW

DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	11.260	52.27	0.0	0.0
7.5	24.6	11.370	52.47	44.0	2.4
10.0	32.8	11.440	52.59	28.0	1.5
12.5	41.0	11.500	52.70	24.0	1.3
15.0	49.2	11.540	52.77	16.0	0.9
17.5	57.4	11.660	52.99	48.0	2.6
20.0	65.6	11.680	53.02	8.0	0.4
22.5	73.8	11.780	53.20	40.0	2.2
25.0	82.0	11.800	53.24	8.0	0.4
27.5	90.2	11.860	53.35	24.0	1.3
30.0	98.4	11.890	53.40	12.0	0.7
32.5	106.6	11.940	53.49	20.0	1.1
35.0	114.8	11.960	53.53	8.0	0.4
37.5	123.0	11.980	53.56	8.0	0.4
40.0	131.2	11.990	53.58	4.0	0.2
42.5	139.4	12.010	53.62	8.0	0.4

LOCATION: VANCOUVER AMS, OREGON

1S/ 2E- 2BD

HOLE NUMBER: DDHS

DATE MEASURED: 7/18/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
40.0	131.2	11.950	53.51	0.0	0.0
45.0	147.6	11.630	52.93	-64.0	-3.5
50.0	164.0	11.360	52.45	-54.0	-3.0
55.0	180.4	11.160	52.09	-40.0	-2.2
60.0	196.8	10.990	51.78	-34.0	-1.9
65.0	213.2	10.870	51.57	-24.0	-1.3
70.0	229.6	10.760	51.37	-22.0	-1.2
75.0	246.0	10.730	51.31	-6.0	-0.3
80.0	262.4	10.720	51.30	-2.0	-0.1
85.0	278.8	10.700	51.26	-4.0	-0.2
90.0	295.2	10.700	51.26	0.0	0.0
95.0	311.6	10.700	51.26	0.0	0.0
100.0	328.0	10.740	51.33	8.0	0.4

LOCATION: VANCOUVER AMS, OREGON
 1S/ 3E-33DB
 HOLE NUMBER: DMSCS WD
 DATE MEASURED: 6/21/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	10.860	51.55	0.0	0.0
40.0	131.2	10.900	51.62	4.0	0.2
50.0	164.0	11.540	52.77	64.0	3.5
55.0	180.4	11.600	52.88	12.0	0.7
60.0	196.8	11.770	53.19	34.0	1.9
65.0	213.2	11.830	53.29	12.0	0.7
70.0	229.6	11.880	53.38	10.0	0.5
75.0	246.0	11.950	53.51	14.0	0.8

LOCATION: THE DALLES AMS, OREGON
 1S/13E-34AC
 HOLE NUMBER: 15 MI CK
 DATE MEASURED: 6/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	16.360	61.45	0.0	0.0
15.0	49.2	16.360	61.45	0.0	0.0
20.0	65.6	16.360	61.45	0.0	0.0
25.0	82.0	16.360	61.45	0.0	0.0
30.0	98.4	16.370	61.47	2.0	0.1
35.0	114.8	16.370	61.47	0.0	0.0
40.0	131.2	16.380	61.48	2.0	0.1
45.0	147.6	16.380	61.48	0.0	0.0
50.0	164.0	16.380	61.48	0.0	0.0
55.0	180.4	16.390	61.50	2.0	0.1
60.0	196.8	16.400	61.52	2.0	0.1
65.0	213.2	16.400	61.52	0.0	0.0
70.0	229.6	16.400	61.52	0.0	0.0
75.0	246.0	16.410	61.54	2.0	0.1
80.0	262.4	16.410	61.54	0.0	0.0
85.0	278.8	16.410	61.54	0.0	0.0
90.0	295.2	16.420	61.56	2.0	0.1
95.0	311.6	16.420	61.56	0.0	0.0
100.0	328.0	16.420	61.56	0.0	0.0
105.0	344.4	16.430	61.57	2.0	0.1
110.0	360.8	16.430	61.57	0.0	0.0
115.0	377.2	16.430	61.57	0.0	0.0
120.0	393.6	16.430	61.57	0.0	0.0
125.0	410.0	16.430	61.57	0.0	0.0
130.0	426.4	16.460	61.63	6.0	0.3
135.0	442.8	16.470	61.65	2.0	0.1
140.0	459.2	16.440	61.59	-6.0	-0.3
145.0	475.6	16.550	61.79	22.0	1.2
150.0	492.0	16.570	61.83	4.0	0.2
155.0	508.4	16.610	61.90	8.0	0.4
160.0	524.8	16.650	61.97	8.0	0.4
165.0	541.2	16.630	61.93	-4.0	-0.2
170.0	557.6	16.630	61.93	0.0	0.0

LOCATION: PENDLETON AMS, OREGON
 19/24E-35AA
 HOLE NUMBER: PADBERG
 DATE MEASURED: 2/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
45.0	147.6	16.960	62.53	0.0	0.0
50.0	164.0	15.610	60.10	-270.0	-14.8
55.0	180.4	15.090	59.16	-104.0	-5.7
60.0	196.8	15.150	59.27	12.0	0.7
65.0	213.2	15.290	59.52	28.0	1.5
70.0	229.6	15.410	59.74	24.0	1.3
75.0	246.0	15.530	59.95	24.0	1.3
80.0	262.4	15.630	60.13	20.0	1.1
85.0	278.8	15.700	60.26	14.0	0.8
90.0	295.2	15.740	60.33	8.0	0.4
95.0	311.6	15.860	60.55	24.0	1.3
100.0	328.0	16.060	60.91	40.0	2.2
105.0	344.4	16.250	61.25	38.0	2.1
110.0	360.8	16.450	61.61	40.0	2.2
115.0	377.2	16.640	61.95	38.0	2.1
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	17.170	62.91	32.0	1.8
135.0	442.8	17.270	63.09	20.0	1.1
140.0	459.2	17.390	63.30	24.0	1.3

LOCATION: PENDLETON AMS, OREGON
 15/32E-29AD
 HOLE NUMBER: WILSON
 DATE MEASURED: 2/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	13.830	56.89	0.0	0.0
30.0	98.4	13.890	57.00	6.0	0.3
40.0	131.2	13.970	57.15	8.0	0.4
50.0	164.0	14.090	57.36	12.0	0.7
60.0	196.8	14.290	57.72	20.0	1.1
70.0	229.6	14.510	58.12	22.0	1.2
75.0	246.0	14.580	58.24	14.0	0.8
80.0	262.4	14.690	58.44	22.0	1.2
85.0	278.8	14.810	58.66	24.0	1.3
90.0	295.2	14.960	58.93	30.0	1.6
95.0	311.6	15.140	59.25	36.0	2.0
100.0	328.0	15.230	59.41	18.0	1.0
105.0	344.4	15.320	59.58	18.0	1.0
110.0	360.8	15.440	59.79	24.0	1.3
115.0	377.2	15.560	60.01	24.0	1.3
120.0	393.6	15.980	60.76	84.0	4.6
125.0	410.0	16.060	60.91	16.0	0.9
130.0	426.4	16.090	60.96	6.0	0.3
135.0	442.8	16.140	61.05	10.0	0.5
140.0	459.2	16.200	61.16	12.0	0.7
145.0	475.6	16.270	61.29	14.0	0.8
150.0	492.0	16.340	61.41	14.0	0.8
155.0	508.4	16.430	61.57	18.0	1.0
160.0	524.8	16.530	61.75	20.0	1.1
165.0	541.2	16.610	61.90	16.0	0.9
170.0	557.6	16.710	62.08	20.0	1.1
175.0	574.0	16.820	62.28	22.0	1.2
180.0	590.4	16.920	62.46	20.0	1.1
185.0	606.8	17.260	63.07	68.0	3.7
190.0	623.2	17.350	63.23	18.0	1.0
195.0	639.6	17.450	63.41	20.0	1.1
200.0	656.0	17.560	63.61	22.0	1.2
205.0	672.4	17.680	63.82	24.0	1.3
210.0	688.8	17.710	63.88	6.0	0.3

LOCATION: VANCOUVER AMS, OREGON
 25/ 4E-16CD
 HOLE NUMBER: SANDY
 DATE MEASURED: 7/28/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	9.770	49.59	0.0	0.0
25.0	82.0	9.740	49.53	-6.0	-0.3
30.0	98.4	9.900	49.82	32.0	1.8
35.0	114.8	9.980	49.96	16.0	0.9
40.0	131.2	10.120	50.22	28.0	1.5
45.0	147.6	10.270	50.49	30.0	1.6
50.0	164.0	10.760	51.37	98.0	5.4
55.0	180.4	10.910	51.64	30.0	1.6
60.0	196.8	11.050	51.89	28.0	1.5
65.0	213.2	11.440	52.59	78.0	4.3
70.0	229.6	11.450	52.61	2.0	0.1
75.0	246.0	11.510	52.72	12.0	0.7

LOCATION: VANCOUVER AMS, OREGON
 25/ 4E-18AD
 HOLE NUMBER: TICKLECK
 DATE MEASURED: 6/21/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
55.0	180.4	10.940	51.69	0.0	0.0
60.0	196.8	10.950	51.71	2.0	0.1
65.0	213.2	10.980	51.76	6.0	0.3
66.5	218.1	11.010	51.82	20.0	1.1

LOCATION: THE DALLES AMS, OREGON
 25/ 7E- 7BD
 HOLE NUMBER: ASCHOFFB
 DATE MEASURED: 6/23/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	5.510	41.92	0.0	0.0
10.0	32.8	5.560	42.01	20.0	1.1
12.5	41.0	5.570	42.03	4.0	0.2
15.0	49.2	5.570	42.03	0.0	0.0
17.5	57.4	5.530	41.95	-16.0	-0.9
20.0	65.6	5.510	41.92	-8.0	-0.4
22.5	73.8	5.480	41.86	-12.0	-0.7
25.0	82.0	5.490	41.88	4.0	0.2
27.5	90.2	5.460	41.83	-12.0	-0.7
30.0	98.4	5.470	41.85	4.0	0.2
32.5	106.6	5.470	41.85	0.0	0.0
35.0	114.8	5.410	41.74	-24.0	-1.3

LOCATION: THE DALLES AMS, OREGON
 29/12E- 3BA
 HOLE NUMBER: STELZER
 DATE MEASURED: 7/13/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.170	50.31	0.0	0.0
20.0	65.6	11.220	52.20	105.0	5.80
30.0	98.4	11.490	52.68	27.0	1.50
40.0	131.2	12.000	53.74	59.0	3.20
50.0	154.0	12.400	54.32	32.0	1.60
60.0	196.8	12.780	55.00	38.0	2.10
70.0	229.6	13.650	56.57	87.0	4.80
80.0	262.4	14.110	57.40	46.0	2.50
90.0	295.2	14.680	58.42	57.0	3.10
100.0	328.0	15.030	59.05	35.0	1.90
110.0	360.8	15.600	60.22	66.0	3.60
120.0	393.6	16.160	61.09	48.0	2.60
130.0	426.4	17.360	63.25	120.0	6.60
140.0	459.2	18.060	64.51	70.0	3.80
150.0	492.0	18.580	65.44	52.0	2.90
160.0	524.8	19.250	66.65	67.0	3.70
170.0	557.6	19.970	67.95	72.0	4.00
180.0	590.4	20.620	69.12	65.0	3.60
190.0	623.2	21.240	70.23	62.0	3.40
200.0	656.0	21.570	70.83	33.0	1.80
205.0	672.4	23.210	73.78	328.0	18.00
210.0	688.8	23.760	74.77	110.0	6.00
215.0	705.2	23.810	74.86	10.0	0.50
220.0	721.6	23.840	74.91	6.0	0.30
225.0	738.0	23.870	74.97	6.0	0.30
230.0	754.4	24.010	75.22	28.0	1.50
235.0	770.8	24.190	75.54	36.0	2.00
240.0	787.2	24.360	75.85	34.0	1.90
245.0	803.6	24.570	76.23	42.0	2.30
250.0	820.0	24.830	76.69	52.0	2.90
255.0	836.4	25.050	77.09	44.0	2.40
260.0	852.8	25.270	77.49	44.0	2.40
265.0	869.2	25.470	77.85	40.0	2.20
270.0	885.6	25.680	78.22	42.0	2.30
275.0	902.0	25.880	78.58	40.0	2.20
285.0	934.8	26.280	79.30	40.0	2.20
295.0	967.6	26.570	79.83	29.0	1.60

LOCATION: THE DALLES AMS, OREGON

25/12E-27DC

HOLE NUMBER: FRI-MAR

DATE MEASURED: 7/15/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.120	50.22	0.0	0.0
15.0	49.2	10.710	51.28	118.0	6.5
20.0	65.6	10.920	51.66	42.0	2.3
25.0	82.0	11.340	52.41	84.0	4.6
30.0	98.4	11.980	53.56	128.0	7.0
35.0	114.8	12.450	54.41	94.0	5.2
40.0	131.2	12.730	54.91	56.0	3.1
45.0	147.6	13.230	55.81	100.0	5.5
50.0	164.0	13.720	56.70	98.0	5.4
55.0	180.4	14.200	57.56	96.0	5.3
60.0	196.8	14.660	58.39	92.0	5.0
65.0	213.2	15.060	59.11	80.0	4.4

LOCATION: THE DALLES AMS, OREGON

25/13E-36CD

HOLE NUMBER: TYGH RDG

DATE MEASURED: 7/11/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.420	50.76	0.0	0.0
20.0	65.6	10.900	51.62	48.0	2.6
30.0	98.4	11.200	52.16	30.0	1.6
35.0	114.8	11.330	52.39	26.0	1.4
40.0	131.2	11.420	52.56	18.0	1.0
45.0	147.6	11.530	52.75	22.0	1.2

LOCATION: THE DALLES AMS, OREGON

25/15E-3BB

HOLE NUMBER: CLAUSON

DATE MEASURED: 7/12/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.000	50.00	0.0	0.0
20.0	65.6	10.470	50.85	47.0	2.6
25.0	82.0	10.640	51.15	34.0	1.9
30.0	98.4	10.810	51.46	34.0	1.9
35.0	114.8	10.920	51.66	22.0	1.2
40.0	131.2	11.130	52.03	42.0	2.3
45.0	147.6	11.290	52.32	32.0	1.8
50.0	164.0	11.470	52.65	36.0	2.0
55.0	180.4	11.650	52.97	36.0	2.0
60.0	196.8	11.690	53.04	8.0	0.4
65.0	213.2	11.730	53.11	8.0	0.4
70.0	229.6	11.780	53.20	10.0	0.5
75.0	246.0	11.810	53.26	6.0	0.3

LOCATION: THE DALLES AMS, OREGON
 25/21E-36AA
 HOLE NUMBER: WOLF HOL
 DATE MEASURED: 6/ 6/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.750	53.15	0.0	0.0
20.0	65.6	11.990	53.58	24.0	1.3
30.0	98.4	12.230	54.01	24.0	1.3
40.0	131.2	12.350	54.23	12.0	0.7
50.0	164.0	12.560	54.61	21.0	1.2
60.0	196.8	12.680	54.82	12.0	0.7
70.0	229.6	12.830	55.09	15.0	0.8
80.0	262.4	12.990	55.38	16.0	0.9
90.0	295.2	13.180	55.72	19.0	1.0
95.0	311.6	13.610	56.50	06.0	4.7
100.0	328.0	13.700	56.66	18.0	1.0
105.0	344.4	13.930	57.07	46.0	2.5
110.0	360.8	13.980	57.16	10.0	0.5
115.0	377.2	14.030	57.25	10.0	0.5
120.0	393.6	14.090	57.36	12.0	0.7
125.0	410.0	14.150	57.47	12.0	0.7
130.0	426.4	14.220	57.60	14.0	0.8
135.0	442.8	14.320	57.78	20.0	1.1
140.0	459.2	14.420	57.96	20.0	1.1
145.0	475.6	14.550	58.19	26.0	1.4
150.0	492.0	14.610	58.30	12.0	0.7
155.0	508.4	14.650	58.37	8.0	0.4
160.0	524.8	14.750	58.55	20.0	1.1
165.0	541.2	14.870	58.77	24.0	1.3
170.0	557.6	14.960	58.93	18.0	1.0
175.0	574.0	15.060	59.11	20.0	1.1
180.0	590.4	15.220	59.40	32.0	1.8
185.0	606.8	15.330	59.59	22.0	1.2
190.0	623.2	15.430	59.77	20.0	1.1
195.0	639.6	15.560	60.01	26.0	1.4
200.0	656.0	15.680	60.22	24.0	1.3
205.0	672.4	15.820	60.48	28.0	1.5
210.0	688.8	15.990	60.78	34.0	1.9
215.0	705.2	16.100	60.98	22.0	1.2
220.0	721.6	16.340	61.41	48.0	2.6
225.0	738.0	16.470	61.65	26.0	1.4
230.0	754.4	16.610	61.90	28.0	1.5
235.0	770.8	16.770	62.19	32.0	1.8
240.0	787.2	16.900	62.42	26.0	1.4

LOCATION: THE DALLES AMS, OREGON

PAGE 2

2S/21E-36AA

HOLE NUMBER: WOLF HOL

DATE MEASURED: 6/ 6/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
245.0	803.6	17.010	62.62	22.0	1.2
250.0	820.0	17.040	62.67	6.0	0.3
255.0	836.4	17.220	63.00	36.0	2.0
260.0	852.8	18.540	65.37	264.0	14.5
265.0	869.2	19.690	67.44	230.0	12.6
270.0	885.6	20.500	68.90	162.0	8.9
275.0	902.0	20.920	69.66	84.0	4.6
280.0	918.4	21.340	70.41	84.0	4.6

LOCATION: PENDLETON AMS, OREGON

2S/37E-25DB

HOLE NUMBER: THOMAS

DATE MEASURED: 8/23/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	7.850	46.13	0.0	0.0
30.0	98.4	8.070	46.53	22.0	1.2
40.0	131.2	8.270	46.89	20.0	1.1
50.0	164.0	8.600	47.48	33.0	1.8
60.0	196.8	8.940	48.09	34.0	1.9
70.0	229.6	9.160	48.49	22.0	1.2
80.0	262.4	9.500	49.10	34.0	1.9
90.0	295.2	9.810	49.66	31.0	1.7
100.0	328.0	10.190	50.34	38.0	2.1
110.0	360.8	10.510	50.92	32.0	1.8
120.0	393.6	10.840	51.51	33.0	1.8
130.0	426.4	11.240	52.23	40.0	2.2
140.0	459.2	11.610	52.90	37.0	2.0
145.0	475.6	11.850	53.33	48.0	2.6
150.0	492.0	11.980	53.56	26.0	1.4

LOCATION: PENDLETON AMS, OREGON
 25/38E- 4DC
 HOLE NUMBER: SUDBROCK
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.440	47.19	0.0	0.0
20.0	65.6	9.010	48.22	57.0	3.1
30.0	98.4	9.240	48.63	23.0	1.3
40.0	131.2	9.680	49.42	44.0	2.4
50.0	164.0	9.980	49.96	30.0	1.6
60.0	196.8	10.310	50.56	33.0	1.8
65.0	213.2	10.460	50.83	30.0	1.6
70.0	229.6	10.580	51.04	24.0	1.3
75.0	246.0	10.720	51.30	28.0	1.5
80.0	262.4	10.850	51.53	26.0	1.4
85.0	278.8	11.020	51.84	34.0	1.9
90.0	295.2	11.110	52.00	18.0	1.0
95.0	311.6	11.260	52.27	30.0	1.6
100.0	328.0	11.350	52.43	18.0	1.0
102.5	336.2	11.400	52.52	20.0	1.1

LOCATION: PENDLETON AMS, OREGON
 25/38E- 9AA
 HOLE NUMBER: SUDBROCK
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
17.5	57.4	9.970	49.95	0.0	0.0
20.0	65.6	10.160	50.29	76.0	4.2
22.5	73.8	10.270	50.49	44.0	2.4
25.0	82.0	10.330	50.59	24.0	1.3

LOCATION: PENDLETON AMS, OREGON

29/38E-10AB

HOLE NUMBER: RASMUSSEN

DATE MEASURED: 11/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	12.170	53.91	0.0	0.0
10.0	32.8	11.930	53.56	-38.0	-2.1
15.0	49.2	12.150	53.89	36.0	2.0
20.0	65.6	12.340	54.21	36.0	2.0
25.0	82.0	12.430	54.48	30.0	1.6
30.0	98.4	12.730	54.91	48.0	2.6
35.0	114.8	13.000	55.40	54.0	3.0
40.0	131.2	13.270	55.89	54.0	3.0
45.0	147.6	13.600	56.48	66.0	3.6
50.0	164.0	13.930	57.16	76.0	4.2
55.0	180.4	14.320	57.78	68.0	3.7
60.0	196.8	14.720	58.50	80.0	4.4
65.0	213.2	15.240	59.43	104.0	5.7
70.0	229.6	15.830	60.58	128.0	7.0
75.0	246.0	16.520	61.74	128.0	7.0
80.0	262.4	17.270	63.09	150.0	8.2
85.0	278.8	18.030	64.54	162.0	8.9
90.0	295.2	18.770	65.79	138.0	7.6
95.0	311.6	19.430	67.03	138.0	7.6
100.0	328.0	19.920	67.86	92.0	5.0
105.0	344.4	20.070	68.13	30.0	1.6
110.0	360.8	20.120	68.22	10.0	0.5
115.0	377.2	20.120	68.22	0.0	0.0
120.0	393.6	20.120	68.22	0.0	0.0
125.0	410.0	20.120	68.22	0.0	0.0
130.0	426.4	20.120	68.22	0.0	0.0
135.0	442.8	20.120	68.22	0.0	0.0
140.0	459.2	20.130	68.23	2.0	0.1
145.0	475.6	20.130	68.23	0.0	0.0
150.0	492.0	20.130	68.23	0.0	0.0
155.0	508.4	20.130	68.23	0.0	0.0
160.0	524.8	20.130	68.23	0.0	0.0
165.0	541.2	20.130	68.23	0.0	0.0
170.0	557.6	20.130	68.23	0.0	0.0
175.0	574.0	20.130	68.23	0.0	0.0
180.0	590.4	20.130	68.23	0.0	0.0
185.0	606.8	20.130	68.23	0.0	0.0
190.0	623.2	20.130	68.23	0.0	0.0
195.0	639.6	20.140	68.25	2.0	0.1

LOCATION: PENDLETON AMS, OREGON
 25/38E-10AB
 HOLE NUMBER: RASMUSSEN
 DATE MEASURED: 11/ 9/77

PAGE 2

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
200.0	656.0	20.140	68.25	0.0	0.0
205.0	672.4	20.140	68.25	0.0	0.0
210.0	688.8	20.150	68.27	2.0	0.1
215.0	705.2	20.150	68.27	0.0	0.0
220.0	721.6	20.150	68.29	2.0	0.1
225.0	738.0	20.150	68.29	0.0	0.0
230.0	754.4	20.150	68.29	0.0	0.0
235.0	770.8	20.170	68.31	2.0	0.1
240.0	787.2	20.170	68.31	0.0	0.0
250.0	820.0	20.130	68.32	1.0	0.1
245.0	803.6	20.170	68.31	2.0	0.1
255.0	836.4	20.130	68.32	1.0	0.1
260.0	852.8	20.130	68.34	2.0	0.1
265.0	869.2	20.130	68.34	0.0	0.0
270.0	885.6	20.130	68.34	0.0	0.0
275.0	902.0	20.130	68.34	0.0	0.0
280.0	918.4	20.220	68.36	2.0	0.1
285.0	934.8	20.220	68.36	0.0	0.0
290.0	951.2	20.210	68.38	2.0	0.1
295.0	967.6	20.220	68.40	2.0	0.1
300.0	984.0	20.230	68.41	2.0	0.1

LOCATION: GRANGEVILLE AMS, OREGON
 25/39E-28AC
 HOLE NUMBER: B JONES
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	9.750	49.57	0.0	0.0
12.5	41.0	10.040	50.07	112.0	6.1
15.0	49.2	10.340	50.61	120.0	6.6
17.5	57.4	10.550	51.01	88.0	4.8
20.0	65.6	10.750	51.37	80.0	4.4
22.5	73.8	11.020	51.80	96.0	5.3
25.0	82.0	11.150	52.07	60.0	3.3
27.5	90.2	11.330	52.39	72.0	4.0
30.0	98.4	11.500	52.70	68.0	3.7
32.5	106.6	11.640	52.95	56.0	3.1
35.0	114.8	11.790	53.22	60.0	3.3
37.5	123.0	11.930	53.47	56.0	3.1
40.0	131.2	12.070	53.73	56.0	3.1
42.5	139.4	12.190	53.94	48.0	2.6
45.0	147.6	12.310	54.16	48.0	2.6

LOCATION: VANCOUVER AMS, OREGON
 35/ 4E- 3AD
 HOLE NUMBER: HAGARSRN
 DATE MEASURED: 7/27/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
12.5	41.0	11.330	52.39	0.0	0.0
15.0	49.2	11.330	52.39	0.0	0.0
17.5	57.4	11.210	52.18	-48.0	-2.6
20.0	65.6	11.140	52.05	-28.0	-1.5
25.0	82.0	11.130	52.03	-2.0	-0.1
27.5	90.2	11.130	52.03	0.0	0.0
30.0	98.4	11.130	52.03	0.0	0.0
32.5	106.6	11.140	52.05	4.0	0.2
35.0	114.8	11.140	52.05	0.0	0.0
37.5	123.0	11.130	52.03	-4.0	-0.2
40.0	131.2	11.120	52.02	-4.0	-0.2
42.5	139.4	11.100	51.98	-8.0	-0.4
45.0	147.6	11.100	51.98	0.0	0.0
47.5	155.8	11.110	52.00	4.0	0.2
50.0	164.0	11.110	52.00	0.0	0.0
52.5	172.2	11.120	52.02	4.0	0.2
55.0	180.4	11.130	52.03	4.0	0.2
57.5	188.6	11.150	52.07	8.0	0.4
60.0	196.8	11.170	52.11	8.0	0.4
65.0	213.2	11.190	52.14	4.0	0.2
70.0	229.6	11.240	52.23	10.0	0.5
75.0	246.0	11.330	52.39	18.0	1.0
80.0	262.4	11.600	52.88	54.0	3.0
85.0	278.8	11.860	53.35	52.0	2.9
90.0	295.2	12.170	53.91	62.0	3.4

LOCATION: THE DALLES AMS, OREGON
3S/2-3E/23AA

HOLE NUMBER: CR-38

DATE MEASURED: 2/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
0.0	16.4	6.390	43.50	.0	.0
10.0	32.8	5.780	42.40	-122.0	-6.7
15.0	49.2	5.530	41.95	-50.0	-2.7
20.0	65.6	5.240	41.43	-58.0	-3.2
25.0	82.0	5.000	41.00	-48.0	-2.6
30.0	98.4	4.950	40.91	-10.0	-.5
35.0	114.8	4.950	40.91	.0	.0
40.0	131.2	4.950	40.91	.0	.0
45.0	147.6	5.110	41.20	32.0	1.8
50.0	164.0	5.170	41.31	12.0	.7
55.0	180.4	5.190	41.34	4.0	.2
60.0	196.8	5.290	41.52	20.0	1.1
65.0	213.2	5.480	41.86	38.0	2.1
70.0	229.6	5.800	42.44	64.0	3.5
75.0	246.0	6.990	44.58	238.0	13.1
80.0	262.4	7.060	44.71	14.0	.8
82.5	270.6	7.200	44.96	56.0	3.1

LOCATION: THE DALLES AMS, OREGON

3S/ 3E-24BBD

HOLE NUMBER: SKI-BOWL

DATE MEASURED: 5/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
0.0	0.0	7.030	44.65	0.0	0.0
5.0	16.4	7.360	45.25	66.0	3.6
10.0	32.8	7.660	45.79	60.0	3.3
15.0	49.2	7.830	46.09	34.0	1.9
20.0	65.6	8.030	46.45	40.0	2.2
25.0	82.0	8.150	46.67	24.0	1.3
30.0	98.4	8.230	46.81	16.0	0.9
35.0	114.8	8.230	46.81	0.0	0.0
40.0	131.2	8.300	46.94	14.0	0.8
45.0	147.6	8.350	47.03	10.0	0.5
50.0	164.0	8.380	47.08	6.0	0.3
55.0	180.4	8.380	47.08	0.0	0.0
60.0	196.8	8.400	47.12	4.0	0.2

LOCATION : THE DALLES AMS, OREGON.
 3S/ 8E/16CD
 WELL NUMBER: CR-LH
 DATE MEASURED: 2/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	8.130	46.63	.0	.0
10.0	32.8	8.540	47.37	32.0	4.5
15.0	49.2	8.110	46.60	-36.0	-4.7
20.0	65.6	8.000	46.40	-22.0	-1.2
25.0	82.0	8.000	46.40	.0	.0
30.0	98.4	8.070	46.53	14.0	.8
35.0	114.8	8.120	46.62	10.0	.5
40.0	131.2	8.170	46.71	10.0	.5
45.0	147.6	8.250	46.85	16.0	.9
50.0	164.0	8.340	47.01	18.0	1.0
55.0	180.4	8.450	47.21	22.0	1.2
60.0	196.8	8.560	47.41	22.0	1.2
65.0	213.2	8.730	47.71	34.0	1.9
70.0	229.6	8.870	47.97	28.0	1.5
75.0	246.0	9.030	48.25	32.0	1.8
80.0	262.4	9.190	48.54	32.0	1.8
85.0	278.8	9.300	48.74	22.0	1.2
90.0	295.2	9.400	48.92	20.0	1.1
95.0	311.6	9.530	49.15	26.0	1.4
100.0	328.0	9.650	49.37	24.0	1.3
105.0	344.4	9.780	49.60	26.0	1.4
110.0	360.8	9.910	49.84	26.0	1.4
115.0	377.2	10.040	50.07	26.0	1.4
120.0	393.6	10.160	50.29	24.0	1.3
125.0	410.0	10.210	50.38	10.0	.5

LOCATION: THE DALLES AMS, OREGON
 39/14E- 7DC
 HOLE NUMBER: TYGH RDG
 DATE MEASURED: 7/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.000	51.80	0.0	0.0
15.0	49.2	11.190	52.14	38.0	2.1
20.0	65.6	11.290	52.32	20.0	1.1
25.0	82.0	11.410	52.54	24.0	1.3
30.0	98.4	11.500	52.70	18.0	1.0
35.0	114.8	11.670	53.01	34.0	1.9
40.0	131.2	11.760	53.17	18.0	1.0
45.0	147.6	11.910	53.44	30.0	1.6
50.0	164.0	12.030	53.65	24.0	1.3
55.0	180.4	12.160	53.89	26.0	1.4
60.0	196.8	12.280	54.10	24.0	1.3
65.0	213.2	12.380	54.28	20.0	1.1

LOCATION: PENDLETON AMS, OREGON
 39/38E- 3DC
 HOLE NUMBER: ISLCTYCM
 DATE MEASURED: 8/23/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	10.210	50.38	0.0	0.0
10.0	32.8	10.230	50.41	8.0	0.4
12.5	41.0	10.300	50.54	28.0	1.5
15.0	49.2	10.350	50.63	20.0	1.1
17.5	57.4	10.430	50.77	32.0	1.8
20.0	65.6	10.480	50.86	20.0	1.1
22.5	73.8	10.510	50.92	12.0	0.7
25.0	82.0	10.530	50.95	8.0	0.4
27.5	90.2	10.550	50.99	8.0	0.4
30.0	98.4	10.560	51.01	4.0	0.2
32.5	106.6	10.580	51.04	8.0	0.4
35.0	114.8	10.600	51.08	8.0	0.4
37.5	123.0	10.620	51.12	8.0	0.4
40.0	131.2	10.650	51.17	12.0	0.7
42.5	139.4	10.670	51.21	8.0	0.4
45.0	147.6	10.700	51.26	12.0	0.7
50.0	164.0	10.760	51.37	12.0	0.7
55.0	180.4	10.810	51.46	10.0	0.5
60.0	196.8	10.910	51.64	20.0	1.1
65.0	213.2	11.010	51.82	20.0	1.1
70.0	229.6	11.160	52.09	30.0	1.6
75.0	246.0	11.300	52.34	28.0	1.5
80.0	262.4	11.460	52.63	32.0	1.8
85.0	278.8	11.710	53.08	50.0	2.7
90.0	295.2	11.810	53.26	20.0	1.1

LOCATION: PENDLETON AMS, OREGON
 3S/38E- 4BD
 HOLE NUMBER: HIGHDEPT
 DATE MEASURED: 8/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	15.670	60.21	0.0	0.0
7.5	24.6	12.280	54.10	-1356.0	-74.4
10.0	32.8	12.210	53.98	-28.0	-1.5
12.5	41.0	12.120	53.82	-36.0	-2.0
15.0	49.2	11.960	53.53	-64.0	-3.5
17.5	57.4	11.870	53.37	-36.0	-2.0
20.0	65.6	11.760	53.17	-44.0	-2.4
22.5	73.8	11.690	53.04	-28.0	-1.5
25.0	82.0	11.670	53.01	-8.0	-0.4
27.5	90.2	11.630	52.93	-16.0	-0.9
30.0	98.4	11.650	52.97	8.0	0.4
32.5	106.6	11.670	53.01	8.0	0.4
35.0	114.8	11.670	53.01	0.0	0.0
37.5	123.0	11.660	52.99	-4.0	-0.2
40.0	131.2	11.660	52.99	0.0	0.0
42.5	139.4	11.670	53.01	4.0	0.2
45.0	147.6	11.670	53.01	0.0	0.0
50.0	164.0	11.670	53.01	0.0	0.0
55.0	180.4	11.670	53.01	0.0	0.0
60.0	196.8	11.670	53.01	0.0	0.0
65.0	213.2	11.670	53.01	0.0	0.0
70.0	229.6	11.670	53.01	0.0	0.0
75.0	246.0	11.670	53.01	0.0	0.0

LOCATION: GRANGEVILLE AMS, OREGON
 3S/39E- 2CD
 HOLE NUMBER: HAMMAN
 DATE MEASURED: 8/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	10.370	50.67	0.0	0.0
7.5	24.6	10.380	50.68	4.0	0.2
10.0	32.8	10.370	50.67	-4.0	-0.2
12.5	41.0	10.410	50.74	16.0	0.9
15.0	49.2	10.450	50.81	16.0	0.9
17.5	57.4	10.470	50.85	8.0	0.4
20.0	65.6	10.480	50.86	4.0	0.2
22.5	73.8	10.550	50.99	28.0	1.5
25.0	82.0	10.570	51.03	8.0	0.4
27.5	90.2	10.620	51.12	20.0	1.1
30.0	98.4	10.660	51.19	16.0	0.9
32.5	106.6	10.700	51.26	16.0	0.9
35.0	114.8	10.740	51.33	16.0	0.9
37.5	123.0	10.790	51.42	20.0	1.1
40.0	131.2	10.850	51.53	24.0	1.3
42.5	139.4	10.890	51.60	16.0	0.9
45.0	147.6	10.950	51.71	24.0	1.3
50.0	164.0	11.060	51.91	22.0	1.2
55.0	180.4	11.170	52.11	22.0	1.2
60.0	196.8	11.330	52.39	32.0	1.8
65.0	213.2	11.490	52.68	32.0	1.8
70.0	229.6	11.510	52.90	24.0	1.3
75.0	246.0	11.700	53.06	18.0	1.0
80.0	262.4	11.780	53.20	16.0	0.9
85.0	278.8	11.850	53.33	14.0	0.8

LOCATION: GRANGEVILLE AMS, OREGON
 3S/40E-14CB 1
 HOLE NUMBER: COVE 1
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
22.5	73.8	10.870	51.57	0.0	0.0
25.0	82.0	10.910	51.64	16.0	0.9
27.5	90.2	10.980	51.76	28.0	1.5
30.0	98.4	11.040	51.87	24.0	1.3
32.5	106.6	11.100	51.98	24.0	1.3
35.0	114.8	11.180	52.12	32.0	1.8
37.5	123.0	11.260	52.27	32.0	1.8
40.0	131.2	11.310	52.36	20.0	1.1
42.5	139.4	11.350	52.43	16.0	0.9
45.0	147.6	11.380	52.48	12.0	0.7

LOCATION: GRANGEVILLE AMS, OREGON
 35/40E-14CB 2
 HOLE NUMBER: COVE 2
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.040	51.87	0.0	0.0
22.5	73.8	11.070	51.93	12.0	0.7
25.0	82.0	11.130	52.03	24.0	1.3
27.5	90.2	11.200	52.16	28.0	1.5
30.0	98.4	11.340	52.41	56.0	3.1
32.5	106.6	11.390	52.50	20.0	1.1
35.0	114.8	11.400	52.52	4.0	0.2
37.5	123.0	11.430	52.57	12.0	0.7
40.0	131.2	11.450	52.61	8.0	0.4
42.5	139.4	11.510	52.72	24.0	1.3
45.0	147.6	11.520	52.74	4.0	0.2
50.0	164.0	11.540	52.77	4.0	0.2
55.0	180.4	11.780	53.20	48.0	2.6
60.0	196.8	12.470	54.45	138.0	7.6
65.0	213.2	12.620	54.72	30.0	1.6
70.0	229.6	12.970	55.35	70.0	3.8
75.0	246.0	13.260	55.87	58.0	3.2
80.0	262.4	13.670	56.61	82.0	4.5
85.0	278.8	14.140	57.45	94.0	5.2
90.0	295.2	14.530	58.15	78.0	4.3
95.0	311.6	14.860	58.75	66.0	3.6
100.0	328.0	15.170	59.31	62.0	3.4
105.0	344.4	15.350	59.63	36.0	2.0

LOCATION: THE DALLES AMS, OREGON
 45/12E-10DD
 HOLE NUMBER: TRAENOR
 DATE MEASURED: 6/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.890	53.40	0.0	0.0
20.0	65.6	11.490	52.68	-40.0	-2.2
30.0	98.4	12.350	54.23	86.0	4.7
40.0	131.2	13.200	55.76	85.0	4.7
50.0	164.0	13.560	56.41	36.0	2.0
60.0	196.8	13.940	57.09	38.0	2.1
65.0	213.2	14.000	57.20	12.0	0.7
70.0	229.6	14.000	57.20	0.0	0.0
75.0	246.0	14.020	57.24	4.0	0.2
80.0	262.4	14.130	57.43	22.0	1.2
85.0	278.8	14.130	57.43	0.0	0.0
90.0	295.2	14.330	57.79	40.0	2.2

LOCATION: THE DALLES AMS, OREGON
 4S/12E-17BC
 HOLE NUMBER: 3 MI CK
 DATE MEASURED: 6/17/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
35.0	114.8	11.740	53.13	0.0	0.0
40.0	131.2	11.760	53.17	4.0	0.2
45.0	147.6	11.770	53.19	2.0	0.1
50.0	164.0	11.800	53.24	6.0	0.3
55.0	180.4	11.820	53.28	4.0	0.2
60.0	196.8	11.850	53.33	6.0	0.3
65.0	213.2	11.880	53.38	6.0	0.3
70.0	229.6	11.910	53.44	6.0	0.3
75.0	246.0	11.940	53.49	6.0	0.3
80.0	262.4	11.980	53.56	8.0	0.4
85.0	278.8	12.020	53.64	8.0	0.4
90.0	295.2	12.070	53.73	10.0	0.5
95.0	311.6	12.130	53.83	12.0	0.7
100.0	328.0	12.180	53.92	10.0	0.5
105.0	344.4	12.240	54.03	12.0	0.7
110.0	360.8	12.280	54.10	8.0	0.4
115.0	377.2	12.290	54.12	2.0	0.1
120.0	393.6	12.410	54.34	24.0	1.3
125.0	410.0	12.500	54.50	18.0	1.0
130.0	426.4	12.570	54.63	14.0	0.8
135.0	442.8	12.670	54.81	20.0	1.1
140.0	459.2	12.750	54.95	16.0	0.9
145.0	475.6	12.770	54.99	4.0	0.2
150.0	492.0	12.820	55.08	10.0	0.5

LOCATION: THE DALLES AMS, OREGON
 4S/12E-17CC
 HOLE NUMBER: OBERMEIR
 DATE MEASURED: 6/17/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	11.240	52.23	0.0	0.0
50.0	164.0	11.340	52.41	5.0	0.3
70.0	229.6	11.450	52.61	5.5	0.3
90.0	295.2	11.560	52.81	5.5	0.3
110.0	360.8	11.760	53.17	10.0	0.5
130.0	426.4	12.120	53.82	18.0	1.0
135.0	442.8	12.140	53.85	4.0	0.2
140.0	459.2	12.250	54.05	22.0	1.2
145.0	475.6	12.350	54.23	20.0	1.1
150.0	492.0	12.390	54.30	8.0	0.4
155.0	508.4	12.630	54.73	48.0	2.6
160.0	524.8	12.830	55.09	40.0	2.2
165.0	541.2	12.940	55.29	22.0	1.2
170.0	557.6	14.070	57.33	226.0	12.4
175.0	574.0	14.090	57.36	4.0	0.2
180.0	590.4	14.130	57.43	8.0	0.4
184.0	603.5	14.480	58.06	87.5	4.8

LOCATION: THE DALLES AMS, OREGON

45/13E- 1CA

HOLE NUMBER: ASHLEY 1

DATE MEASURED: 6/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.570	51.03	0.0	0.0
12.5	41.0	10.990	51.78	168.0	9.2
15.0	49.2	11.530	52.75	216.0	11.9
17.5	57.4	12.270	54.09	296.0	16.2
20.0	65.6	12.970	55.35	280.0	15.4
22.5	73.8	13.070	55.53	40.0	2.2
25.0	82.0	13.130	55.63	24.0	1.3
27.5	90.2	13.230	55.81	40.0	2.2
30.0	98.4	13.460	56.23	92.0	5.0
32.5	106.6	13.760	56.77	120.0	6.6
35.0	114.8	13.890	57.00	52.0	2.9
37.5	123.0	14.010	57.22	48.0	2.6
40.0	131.2	14.240	57.63	92.0	5.0
42.5	139.4	14.610	58.30	148.0	8.1
45.0	147.6	14.850	58.73	96.0	5.3
47.5	155.8	14.880	58.78	12.0	0.7
50.0	164.0	14.920	58.86	16.0	0.9
52.5	172.2	14.970	58.95	20.0	1.1
55.0	180.4	15.070	59.13	40.0	2.2
57.5	188.6	15.110	59.20	16.0	0.9
60.0	196.8	15.160	59.29	20.0	1.1
65.0	213.2	15.270	59.49	22.0	1.2
70.0	229.6	15.390	59.70	24.0	1.3
75.0	246.0	16.340	61.41	190.0	10.4

LOCATION: THE DALLES AMS, OREGON
 4S/13E-24CA
 HOLE NUMBER: HOOPER
 DATE MEASURED: 6/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
40.0	131.2	12.010	53.62	0.0	0.0
45.0	147.6	11.940	53.49	-14.0	-0.8
50.0	164.0	11.880	53.38	-12.0	-0.7
55.0	180.4	11.840	53.31	-8.0	-0.4
60.0	196.8	11.780	53.20	-12.0	-0.7
65.0	213.2	11.710	53.08	-14.0	-0.8
70.0	229.6	11.680	53.02	-6.0	-0.3
75.0	246.0	11.640	52.95	-8.0	-0.4
80.0	262.4	11.200	52.16	-88.0	-4.8
85.0	278.8	11.180	52.12	-4.0	-0.2
90.0	295.2	11.170	52.11	-2.0	-0.1
95.0	311.6	11.150	52.07	-4.0	-0.2
100.0	328.0	11.110	52.00	-8.0	-0.4
105.0	344.4	11.100	51.98	-2.0	-0.1
110.0	360.8	11.100	51.98	0.0	0.0
115.0	377.2	11.100	51.98	0.0	0.0
120.0	393.6	11.100	51.98	0.0	0.0
125.0	410.0	11.100	51.98	0.0	0.0
130.0	426.4	11.100	51.98	0.0	0.0
135.0	442.8	11.150	52.07	10.0	0.5
136.0	446.1	11.290	52.32	140.0	7.7

LOCATION: THE DALLES AMS, OREGON
 4S/13E-32DC
 HOLE NUMBER: PAULSON
 DATE MEASURED: 6/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	12.440	54.39	0.0	0.0
30.0	98.4	12.460	54.43	2.0	0.1
40.0	131.2	12.500	54.50	4.0	0.2
50.0	164.0	12.550	54.59	5.0	0.3
60.0	196.8	12.590	54.66	4.0	0.2
70.0	229.6	12.710	54.88	12.0	0.7
75.0	246.0	12.860	55.15	30.0	1.6
80.0	262.4	13.030	55.45	34.0	1.9
85.0	278.8	13.070	55.53	8.0	0.4
90.0	295.2	13.340	56.01	54.0	3.0
95.0	311.6	14.210	57.58	174.0	9.5
100.0	328.0	15.060	59.11	170.0	9.3
105.0	344.4	15.860	60.55	160.0	8.8
110.0	360.8	16.430	61.57	114.0	6.3
115.0	377.2	16.880	62.38	90.0	4.9
120.0	393.6	17.320	63.18	88.0	4.8
125.0	410.0	17.610	63.70	58.0	3.2
130.0	426.4	17.930	64.27	64.0	3.5
135.0	442.8	18.200	64.76	54.0	3.0
140.0	459.2	18.390	65.10	38.0	2.1
144.7	474.6	18.630	65.53	51.1	2.8

LOCATION: THE DALLES AMS, OREGON
 4S/14E-19AD
 HOLE NUMBER: CHASTAIN
 DATE MEASURED: 6/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
60.0	196.8	11.690	53.04	0.0	0.0
65.0	213.2	11.690	53.04	0.0	0.0
70.0	229.6	11.690	53.04	0.0	0.0
75.0	246.0	11.680	53.02	-2.0	-0.1
80.0	262.4	11.680	53.02	0.0	0.0
85.0	278.8	11.710	53.08	6.0	0.3
90.0	295.2	11.680	53.02	-6.0	-0.3
95.0	311.6	11.670	53.01	-2.0	-0.1
100.0	328.0	11.680	53.02	2.0	0.1

LOCATION: THE DALLES AMS, OREGON
 4S/14E-33CB
 HOLE NUMBER: BLMMALPN
 DATE MEASURED: 7/11/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	16.340	61.41	0.0	0.0
25.0	82.0	16.460	61.63	24.0	1.3
30.0	98.4	16.600	61.88	28.0	1.5
35.0	114.8	16.650	61.97	10.0	0.5
40.0	131.2	16.810	62.26	32.0	1.8
45.0	147.6	17.020	62.64	42.0	2.3
50.0	164.0	17.200	62.96	36.0	2.0
55.0	180.4	17.420	63.36	44.0	2.4
60.0	196.8	17.790	64.02	74.0	4.1
65.0	213.2	18.190	64.74	80.0	4.4
70.0	229.6	18.350	65.03	32.0	1.8

LOCATION: PENDLETON AMS, OREGON
 4S/28E-21DBA
 HOLE NUMBER: BM-PDA
 DATE MEASURED: 2/15/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	9.150	48.47	0.0	0.0
20.0	65.6	9.130	48.43	-4.0	-0.2
25.0	82.0	9.150	48.47	4.0	0.2
30.0	98.4	9.220	48.56	10.0	0.5
35.0	114.8	9.280	48.70	16.0	0.9
40.0	131.2	9.360	48.85	16.0	0.9
45.0	147.6	9.490	49.06	24.0	1.3
50.0	164.0	9.620	49.28	24.0	1.3
55.0	180.4	9.730	49.51	26.0	1.4
60.0	196.8	9.930	49.80	32.0	1.8
65.0	213.2	10.090	50.16	40.0	2.2
70.0	229.6	10.270	50.43	36.0	2.0
75.0	246.0	10.440	50.73	34.0	1.9
80.0	262.4	10.610	51.10	34.0	1.9
85.0	278.8	10.780	51.42	36.0	2.0
90.0	295.2	10.930	51.75	38.0	2.1
95.0	311.6	11.160	52.03	36.0	2.0
100.0	328.0	11.390	52.43	36.0	2.0
105.0	344.4	11.530	52.75	36.0	2.0
110.0	360.8	11.710	53.06	36.0	2.0
115.0	377.2	11.930	53.42	38.0	2.1
120.0	393.6	12.090	53.75	36.0	2.0
125.0	410.0	12.230	54.09	36.0	2.0
129.0	423.1	12.440	54.33	42.0	2.3

LOCATION: GRANGEVILLE AMS, OREGON
 4S/40E-18BA
 HOLE NUMBER: UNIONCTY
 DATE MEASURED: 8/23/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	17.040	62.67	0.0	0.0
15.0	49.2	17.800	64.04	152.0	8.3
20.0	65.6	18.790	65.82	198.0	10.9
25.0	82.0	19.770	67.59	196.0	10.8
30.0	98.4	20.780	69.40	202.0	11.1
35.0	114.8	21.470	70.65	138.0	7.6
40.0	131.2	21.580	70.84	22.0	1.2
45.0	147.6	21.590	70.86	2.0	0.1
50.0	164.0	21.600	70.88	2.0	0.1
55.0	180.4	21.610	70.90	2.0	0.1
60.0	196.8	21.610	70.90	0.0	0.0
65.0	213.2	21.610	70.90	0.0	0.0
70.0	229.6	21.610	70.90	0.0	0.0
75.0	246.0	21.620	70.92	2.0	0.1
80.0	262.4	21.640	70.95	4.0	0.2
85.0	278.8	21.700	71.06	12.0	0.7
90.0	295.2	21.740	71.13	8.0	0.4
95.0	311.6	21.760	71.17	4.0	0.2
100.0	328.0	21.770	71.19	2.0	0.1
105.0	344.4	21.810	71.26	8.0	0.4
110.0	360.8	21.850	71.33	8.0	0.4
115.0	377.2	21.870	71.37	4.0	0.2
120.0	393.6	21.880	71.38	2.0	0.1
125.0	410.0	21.910	71.44	6.0	0.3
130.0	426.4	21.950	71.51	8.0	0.4
135.0	442.8	22.020	71.64	14.0	0.8
140.0	459.2	22.050	71.69	6.0	0.3
145.0	475.6	22.100	71.78	10.0	0.5
150.0	492.0	22.140	71.85	8.0	0.4
155.0	508.4	22.180	71.92	8.0	0.4
160.0	524.8	22.230	72.01	10.0	0.5
165.0	541.2	22.260	72.07	6.0	0.3
170.0	557.6	22.310	72.16	10.0	0.5
175.0	574.0	22.330	72.19	4.0	0.2
180.0	590.4	22.380	72.28	10.0	0.5
185.0	606.8	22.430	72.37	10.0	0.5
190.0	623.2	22.470	72.45	8.0	0.4
195.0	639.6	22.490	72.48	4.0	0.2
200.0	656.0	22.510	72.52	4.0	0.2

LOCATION: GRANGEVILLE AMS, OREGON PAGE 2
 45/40E-188A
 HOLE NUMBER: UNIONCTY
 DATE MEASURED: 8/23/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
205.0	672.4	22.530	72.55	4.0	0.2
210.0	688.8	22.550	72.59	4.0	0.2
215.0	705.2	22.560	72.61	2.0	0.1
220.0	721.6	22.600	72.68	8.0	0.4
225.0	738.0	22.620	72.72	4.0	0.2
230.0	754.4	22.630	72.73	2.0	0.1
235.0	770.8	22.630	72.73	0.0	0.0
240.0	787.2	22.640	72.75	2.0	0.1
245.0	803.6	22.660	72.79	4.0	0.2
250.0	820.0	22.680	72.82	4.0	0.2
255.0	836.4	22.690	72.84	2.0	0.1
260.0	852.8	22.720	72.90	6.0	0.3
265.0	869.2	22.730	72.91	2.0	0.1
270.0	885.6	22.740	72.93	2.0	0.1
275.0	902.0	22.760	72.97	4.0	0.2
280.0	918.4	22.770	72.99	2.0	0.1
285.0	934.8	22.770	72.99	0.0	0.0
290.0	951.2	22.780	73.00	2.0	0.1
295.0	967.6	22.780	73.00	0.0	0.0
300.0	984.0	22.780	73.00	0.0	0.0
305.0	1000.4	22.780	73.00	0.0	0.0
310.0	1016.8	22.790	73.02	2.0	0.1

LOCATION: GRANGEVILLE AMS, OREGON
 4S/40E-18CD
 HOLE NUMBER: UNIONGRN
 DATE MEASURED: 8/24/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	12.120	53.82	0.0	0.0
7.5	24.6	12.050	53.69	-28.0	-1.5
10.0	32.8	12.050	53.69	0.0	0.0
12.5	41.0	12.130	53.83	32.0	1.8
15.0	49.2	12.270	54.09	56.0	3.1
17.5	57.4	12.450	54.41	72.0	4.0
20.0	65.6	12.600	54.68	60.0	3.3
22.5	73.8	12.740	54.93	56.0	3.1
25.0	82.0	12.990	55.38	100.0	5.5
27.5	90.2	13.200	55.76	84.0	4.6
30.0	98.4	13.350	56.03	60.0	3.3
32.5	106.6	13.450	56.21	40.0	2.2
35.0	114.8	13.550	56.39	40.0	2.2
37.5	123.0	13.660	56.59	44.0	2.4
40.0	131.2	13.850	56.93	76.0	4.2
42.5	139.4	14.090	57.36	96.0	5.3
45.0	147.6	14.320	57.78	92.0	5.0
50.0	164.0	14.660	58.39	68.0	3.7
55.0	180.4	14.990	58.98	66.0	3.6
60.0	196.8	15.080	59.14	18.0	1.0
65.0	213.2	15.610	60.10	105.0	5.8
70.0	229.6	15.910	60.64	60.0	3.3
75.0	246.0	16.200	61.16	58.0	3.2

LOCATION: THE DALLES AMS, OREGON
 5S/11E-14DD
 HOLE NUMBER: WHITE R
 DATE MEASURED: 6/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
100.0	328.0	10.900	51.62	0.0	0.0
120.0	393.6	10.900	51.62	0.0	0.0
140.0	459.2	11.020	51.84	6.0	0.3
160.0	524.8	11.220	52.20	10.0	0.5
180.0	590.4	11.500	52.70	14.0	0.8
200.0	656.0	11.950	53.51	22.5	1.2
220.0	721.6	12.210	53.98	13.0	0.7
240.0	787.2	12.980	55.36	38.5	2.1
245.0	803.6	13.050	55.49	14.0	0.8

LOCATION: THE DALLES AMS, OREGON
 SS/12E- 8BB
 HOLE NUMBER: SMOCK PR
 DATE MEASURED: 6/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
20.0	65.6	11.980	53.56	0.0	0.0
25.0	82.0	11.880	53.38	-20.0	-1.1
30.0	98.4	11.750	53.15	-26.0	-1.4
35.0	114.8	11.670	53.01	-16.0	-0.9

LOCATION: THE DALLES AMS, OREGON
 SS/12E-31AA
 HOLE NUMBER: PNGR SE
 DATE MEASURED: 6/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
20.0	65.6	14.830	58.69	0.0	0.0
40.0	131.2	14.450	58.01	-19.0	-1.0
50.0	196.8	14.580	58.24	6.5	0.4
70.0	229.6	14.600	58.28	2.0	0.1
80.0	262.4	14.610	58.30	1.0	0.1
90.0	295.2	14.740	58.53	13.0	0.7
95.0	311.6	14.700	58.46	-8.0	-0.4
100.0	328.0	14.740	58.53	8.0	0.4
105.0	344.4	14.760	58.57	4.0	0.2
107.5	352.6	14.880	58.78	48.0	2.6

LOCATION: THE DALLES AMS, OREGON
 SS/16E-20CB
 HOLE NUMBER: WARD RNH
 DATE MEASURED: 6/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
10.0	32.8	11.770	53.19	0.0	0.0
20.0	65.6	11.660	52.99	-11.0	-0.6
30.0	98.4	12.500	54.50	84.0	4.6
40.0	131.2	12.810	55.06	31.0	1.7
50.0	164.0	13.160	55.69	35.0	1.9
60.0	196.8	13.520	56.34	36.0	2.0
70.0	229.6	13.890	57.00	37.0	2.0
80.0	262.4	14.210	57.58	32.0	1.8
90.0	295.2	14.730	58.51	52.0	2.9
100.0	328.0	15.330	59.59	60.0	3.3
105.0	344.4	15.590	60.06	52.0	2.9
110.0	360.8	15.840	60.51	50.0	2.7
115.0	377.2	16.080	60.94	48.0	2.6
120.0	393.6	16.370	61.47	58.0	3.2

LOCATION: THE DALLES AMS, OREGON

55/16E-33DC

HOLE NUMBER: SNODGRAS

DATE MEASURED: 6/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.860	53.35	0.0	0.0
30.0	98.4	12.320	54.18	46.0	2.5
35.0	114.8	12.750	54.95	86.0	4.7
37.5	123.0	12.780	55.00	12.0	0.7
40.0	131.2	12.820	55.08	16.0	0.9
42.5	139.4	12.880	55.18	24.0	1.3
45.0	147.6	12.910	55.24	12.0	0.7
47.5	155.8	13.070	55.53	64.0	3.5

LOCATION: VANCOUVER AMS, OREGON

65/ 4W-31ACD

HOLE NUMBER: OW B1

DATE MEASURED: 6/ 1/60

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
0.0	0.0	10.700	51.26	0.0	0.0
565.0	1853.2	26.100	78.98	27.3	1.5
1684.0	5523.5	50.000	122.00	21.4	1.2

LOCATION: THE DALLES AMS, OREGON

65/ 7E- 4DC

HOLE NUMBER: CP-LKH

DATE MEASURED: 7/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	8.400	47.12	0.0	0.0
7.5	24.6	8.130	46.63	-108.0	-5.9
10.0	32.8	8.020	46.44	-44.0	-2.4
12.5	41.0	7.900	46.22	-48.0	-2.6
15.0	49.2	7.820	46.08	-32.0	-1.8
17.5	57.4	7.770	45.99	-20.0	-1.1
20.0	65.6	7.700	45.86	-28.0	-1.5
22.5	73.8	7.670	45.81	-12.0	-0.7
25.0	82.0	7.550	45.59	-48.0	-2.6
27.5	90.2	7.530	45.55	-8.0	-0.4
30.0	98.4	7.530	45.55	0.0	0.0
32.5	106.6	7.540	45.57	4.0	0.2
35.0	114.8	7.550	45.59	4.0	0.2
37.5	123.0	7.570	45.63	8.0	0.4

LOCATION: THE DALLES AMS, OREGON
 6S/ 7E-21CD
 HOLE NUMBER: AUST HSE
 DATE MEASURED: 6/29/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	10.690	51.24	0.0	0.0
10.0	32.8	11.150	52.07	184.0	10.1
12.5	41.0	11.530	52.75	152.0	8.3
15.0	49.2	12.410	54.34	352.0	19.3
17.5	57.4	13.280	55.90	348.0	19.1
20.0	65.6	13.770	56.79	196.0	10.8
22.5	73.8	14.160	57.49	156.0	8.6
25.0	82.0	14.940	58.89	312.0	17.1
27.5	90.2	15.900	60.62	334.0	21.1
30.0	98.4	16.260	61.27	144.0	7.9
32.5	106.5	16.720	62.10	184.0	10.1
35.0	114.8	17.140	62.85	162.0	9.2
37.5	123.0	17.350	63.23	84.0	4.5
40.0	131.2	17.870	64.17	202.0	11.4

LOCATION: THE DALLES AMS, OREGON
 6S/14E-13DD
 HOLE NUMBER: CRITRN 1
 DATE MEASURED: 6/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.430	52.57	0.0	0.0
20.0	65.6	11.620	52.92	19.0	1.0
30.0	98.4	11.790	53.22	17.0	0.9
40.0	131.2	11.970	53.55	18.0	1.0
50.0	164.0	12.240	54.03	27.0	1.5
60.0	196.8	12.550	54.59	31.0	1.7
70.0	229.6	12.870	55.17	32.0	1.8
80.0	262.4	13.210	55.78	34.0	1.9
90.0	295.2	13.600	56.48	39.0	2.1
100.0	328.0	14.110	57.40	51.0	2.8
110.0	360.8	14.720	58.50	61.0	3.3
115.0	377.2	14.760	58.57	8.0	0.4
120.0	393.6	14.900	58.82	28.0	1.5

LOCATION: THE DALLES AMS, OREGON
 6S/15E- 5BA
 HOLE NUMBER: MCLEOD R
 DATE MEASURED: 6/15/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
35.0	114.8	12.820	55.08	0.0	0.0
40.0	131.2	12.990	55.38	34.0	1.9
45.0	147.6	13.360	56.05	74.0	4.1
50.0	164.0	13.610	56.50	50.0	2.7
55.0	180.4	13.770	56.79	32.0	1.8
60.0	196.8	13.960	57.13	38.0	2.1
65.0	213.2	14.160	57.49	40.0	2.2
70.0	229.6	14.360	57.85	40.0	2.2

LOCATION: GRANGEVILLE AMS, OREGON
 6S/48E-21CA
 HOLE NUMBER: ID-43P
 DATE MEASURED: 5/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
10.0	32.8	12.010	53.62	0.0	0.0
15.0	49.2	12.050	53.69	8.0	0.4
20.0	65.6	11.990	53.58	-12.0	-0.7
25.0	82.0	11.890	53.40	-20.0	-1.1
30.0	98.4	11.790	53.22	-20.0	-1.1
35.0	114.8	11.980	53.56	38.0	2.1
40.0	131.2	12.110	53.80	26.0	1.4
45.0	147.6	12.160	53.89	10.0	0.5
50.0	164.0	12.300	54.14	28.0	1.5
55.0	180.4	12.480	54.46	36.0	2.0
60.0	196.8	12.610	54.70	26.0	1.4
65.0	213.2	12.770	54.99	32.0	1.8
70.0	229.6	12.950	55.31	36.0	2.0
75.0	246.0	13.130	55.63	36.0	2.0
80.0	262.4	13.290	55.92	32.0	1.8
85.0	278.8	13.500	56.30	42.0	2.3
90.0	295.2	13.630	56.53	26.0	1.4
95.0	311.6	13.750	56.75	24.0	1.3
100.0	328.0	14.010	57.22	52.0	2.9
105.0	344.4	14.170	57.51	32.0	1.8
110.0	360.8	14.290	57.72	24.0	1.3
115.0	377.2	14.280	57.70	-2.0	-0.1
120.0	393.6	14.540	58.17	52.0	2.9
125.0	410.0	14.590	58.26	10.0	0.5
130.0	426.4	14.760	58.57	34.0	1.9
135.0	442.8	14.840	58.71	16.0	0.9
140.0	459.2	14.940	58.89	20.0	1.1
145.0	475.6	15.060	59.11	24.0	1.3
150.0	492.0	15.210	59.38	30.0	1.6
155.0	508.4	15.440	59.79	46.0	2.5
160.0	524.8	15.640	60.15	40.0	2.2
165.0	541.2	15.810	60.46	34.0	1.9
170.0	557.6	15.870	60.57	12.0	0.7

LOCATION: SALEM AMS, OREGON
 7S/ 1E-11ACA
 HOLE NUMBER: OW W1
 DATE MEASURED: 7/ /62

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
0.0	0.0	9.800	49.64	0.0	0.0
354.0	1161.1	32.200	89.96	63.3	3.5
2379.0	7803.1	71.700	161.06	19.5	1.1

LOCATION: SALEM AMS, OREGON
 7S/ 1E-32CC
 HOLE NUMBER: PUNJAMEN
 DATE MEASURED: 8/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
65.0	213.2	11.370	52.47	0.0	0.0
70.0	229.6	11.500	52.70	26.0	1.4
75.0	246.0	11.680	53.02	36.0	2.0
80.0	262.4	11.830	53.29	30.0	1.6
85.0	278.8	12.110	53.80	56.0	3.1
90.0	295.2	12.420	54.36	62.0	3.4
95.0	311.6	12.620	54.72	40.0	2.2
100.0	328.0	12.810	55.06	38.0	2.1
105.0	344.4	12.980	55.36	34.0	1.9
110.0	360.8	13.140	55.65	32.0	1.8
115.0	377.2	13.320	55.98	36.0	2.0
120.0	393.6	13.440	56.19	24.0	1.3
125.0	410.0	13.600	56.48	32.0	1.8

LOCATION: CANYON CITY AMS, OREGON
 79/38E-35CC
 HOLE NUMBER: J KERNS
 DATE MEASURED: 6/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	8.640	47.55	0.0	0.0
10.0	32.8	8.760	47.77	48.0	2.6
15.0	49.2	8.980	48.16	44.0	2.4
20.0	65.6	9.000	48.20	4.0	0.2
25.0	82.0	9.010	48.22	2.0	0.1
30.0	98.4	9.040	48.27	6.0	0.3
35.0	114.8	9.110	48.40	14.0	0.8
40.0	131.2	9.860	49.75	150.0	8.2
45.0	147.6	10.010	50.02	30.0	1.6
50.0	164.0	10.050	50.09	8.0	0.4
55.0	180.4	10.070	50.13	4.0	0.2
60.0	196.8	10.080	50.14	2.0	0.1
65.0	213.2	10.100	50.18	4.0	0.2
70.0	229.6	10.120	50.22	4.0	0.2
75.0	246.0	10.110	50.20	-2.0	-0.1
80.0	262.4	10.120	50.22	2.0	0.1
85.0	278.8	10.130	50.23	2.0	0.1
90.0	295.2	10.140	50.25	2.0	0.1
95.0	311.6	10.150	50.27	2.0	0.1
100.0	328.0	10.510	51.10	92.0	5.0
105.0	344.4	11.240	52.23	126.0	7.0
110.0	360.8	11.700	53.06	90.0	5.0
115.0	377.2	11.960	53.53	52.0	2.9

LOCATION: SALEM AMS, OREGON
 85/ SE-31CC
 HOLE NUMBER: CDR CK
 DATE MEASURED: 10/26/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	6.380	43.48	0.0	0.0
15.0	49.2	6.280	43.30	-20.0	-1.1
20.0	65.6	6.390	43.50	22.0	1.0
25.0	82.0	6.600	43.88	42.0	2.0
30.0	98.4	7.060	44.71	92.0	5.0
35.0	114.8	7.310	45.16	50.0	2.7
40.0	131.2	7.470	45.45	32.0	1.8
45.0	147.6	7.610	45.70	28.0	1.5
50.0	164.0	7.750	45.95	28.0	1.5
55.0	180.4	7.890	46.20	28.0	1.5
60.0	196.8	8.030	46.45	28.0	1.5
65.0	213.2	8.150	46.67	24.0	1.3
70.0	229.6	8.260	46.87	22.0	1.2
75.0	246.0	8.400	47.12	22.0	1.2
80.0	262.4	8.540	47.37	28.0	1.5
85.0	278.8	8.690	47.64	30.0	1.6
90.0	295.2	8.830	47.89	28.0	1.5
95.0	311.6	8.970	48.15	28.0	1.5
100.0	328.0	9.100	48.38	26.0	1.4
105.0	344.4	9.250	48.65	30.0	1.6
110.0	360.8	9.450	49.01	40.0	2.2
115.0	377.2	9.610	49.30	32.0	1.8
120.0	393.6	9.860	49.75	50.0	2.7
125.0	410.0	10.010	50.02	30.0	1.6
130.0	426.4	10.080	50.14	14.0	0.8
135.0	442.8	10.220	50.40	28.0	1.5
140.0	459.2	10.380	50.68	32.0	1.8
145.0	475.6	10.560	51.01	36.0	2.0
150.0	492.0	10.720	51.30	32.0	1.8
155.0	508.4	10.890	51.60	34.0	1.9
160.0	524.8	11.070	51.93	36.0	2.0
165.0	541.2	11.230	52.21	32.0	1.8
170.0	557.6	11.400	52.52	34.0	1.9
175.0	574.0	11.570	52.83	34.0	1.9
180.0	590.4	11.770	53.19	40.0	2.2
185.0	606.8	11.910	53.44	28.0	1.5
190.0	623.2	12.110	53.80	40.0	2.2
195.0	639.6	12.280	54.10	34.0	1.9
200.0	656.0	12.460	54.43	36.0	2.0

LOCATION: SALEM AMS, OREGON
 BS/ SE-31CC
 HOLE NUMBER: CDR CK
 DATE MEASURED: 10/26/77

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DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
205.0	672.4	12.610	54.70	30.0	1.6
210.0	688.8	12.770	54.99	32.0	1.8
215.0	705.2	12.930	55.27	32.0	1.8
220.0	721.6	13.080	55.54	30.0	1.6
225.0	738.0	13.240	55.83	32.0	1.8
230.0	754.4	13.390	56.10	30.0	1.6
235.0	770.8	13.550	56.39	32.0	1.8
240.0	787.2	13.720	56.70	34.0	1.9
245.0	803.6	13.890	57.00	34.0	1.9
250.0	820.0	14.040	57.27	30.0	1.6
255.0	836.4	14.220	57.60	36.0	2.0
260.0	852.8	14.370	57.87	30.0	1.6
265.0	869.2	14.560	58.21	38.0	2.1
270.0	885.6	14.740	58.53	36.0	2.0
275.0	902.0	14.850	58.73	22.0	1.2
280.0	918.4	14.990	58.98	28.0	1.5
285.0	934.8	15.150	59.27	32.0	1.8
290.0	951.2	15.320	59.58	34.0	1.9
295.0	967.6	15.500	59.90	36.0	2.0
300.0	984.0	15.680	60.22	36.0	2.0
305.0	1000.4	15.850	60.53	34.0	1.9
310.0	1016.8	16.000	60.80	30.0	1.6
315.0	1033.2	16.180	61.12	36.0	2.0
320.0	1049.6	16.340	61.41	32.0	1.8
325.0	1066.0	16.500	61.70	32.0	1.8
330.0	1082.4	16.660	61.99	32.0	1.8
335.0	1098.8	16.900	62.42	48.0	2.6
340.0	1115.2	17.040	62.67	28.0	1.5
345.0	1131.6	17.180	62.92	28.0	1.5

LOCATION: SALEM AMS, OREGON
 9S/11W- 8CCD
 HOLE NUMBER: DEPOEBAY
 DATE MEASURED: 8/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	10.690	51.24	0.0	0.0
10.0	32.8	10.590	51.06	-20.0	-1.1
15.0	49.2	10.670	51.21	16.0	0.9
20.0	65.6	10.770	51.39	20.0	1.1
25.0	82.0	10.860	51.55	18.0	1.0
30.0	98.4	10.960	51.73	20.0	1.1
35.0	114.8	11.040	51.87	16.0	0.9
40.0	131.2	11.130	52.03	18.0	1.0
45.0	147.6	11.220	52.20	18.0	1.0
50.0	164.0	11.330	52.39	22.0	1.2
55.0	180.4	11.430	52.57	20.0	1.1
60.0	196.8	11.560	52.81	26.0	1.4
65.0	213.2	11.680	53.02	24.0	1.3
70.0	229.6	11.800	53.24	24.0	1.3
75.0	246.0	11.910	53.44	22.0	1.2
80.0	262.4	11.980	53.56	14.0	0.8
85.0	278.8	12.230	54.01	50.0	2.7
90.0	295.2	12.380	54.28	30.0	1.6

LOCATION: SALEM AMS, OREGON
 9S/11W-17BBA
 HOLE NUMBER: DEPOEBAY
 DATE MEASURED: 8/25/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	10.890	51.60	0.0	0.0
15.0	49.2	11.030	51.85	28.0	1.5
20.0	65.6	11.130	52.03	20.0	1.1
25.0	82.0	11.230	52.21	20.0	1.1
30.0	98.4	11.300	52.34	14.0	0.8
35.0	114.8	11.380	52.48	16.0	0.9
40.0	131.2	11.450	52.61	14.0	0.8
45.0	147.6	11.500	52.70	10.0	0.5
50.0	164.0	11.570	52.83	14.0	0.8
55.0	180.4	11.630	52.93	12.0	0.7
60.0	196.8	11.700	53.06	14.0	0.8
65.0	213.2	11.770	53.19	14.0	0.8
70.0	229.6	11.950	53.51	36.0	2.0
75.0	246.0	12.080	53.74	26.0	1.4
80.0	262.4	12.200	53.96	24.0	1.3
85.0	278.8	12.310	54.16	22.0	1.2
90.0	295.2	12.420	54.36	22.0	1.2
95.0	311.6	12.520	54.54	20.0	1.1

LOCATION: BEND AMS, OREGON
 95/14E-23BB
 HOLE NUMBER: CHAMPION
 DATE MEASURED: 7/13/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	14.650	58.37	0.0	0.0
17.5	57.4	14.650	58.37	0.0	0.0
20.0	65.6	14.670	58.41	8.0	0.4
22.5	73.8	14.680	58.42	4.0	0.2
25.0	82.0	14.750	58.55	28.0	1.5
27.5	90.2	14.840	58.71	36.0	2.0
30.0	98.4	14.900	58.82	24.0	1.3
32.5	106.6	14.930	58.87	12.0	0.7
35.0	114.8	15.010	59.02	32.0	1.8
37.5	123.0	15.050	59.09	16.0	0.9
40.0	131.2	15.110	59.20	24.0	1.3
42.5	139.4	15.240	59.43	52.0	2.9
45.0	147.6	15.260	59.47	8.0	0.4
47.5	155.8	15.310	59.56	20.0	1.1
50.0	164.0	15.340	59.61	12.0	0.7
52.5	172.2	15.380	59.68	16.0	0.9
55.0	180.4	15.410	59.74	12.0	0.7
57.5	188.6	15.440	59.79	12.0	0.7
60.0	196.8	15.450	59.81	4.0	0.2
65.0	213.2	15.840	60.51	78.0	4.3
70.0	229.6	16.010	60.82	34.0	1.9
75.0	246.0	16.390	61.50	76.0	4.2
80.0	262.4	16.700	62.06	62.0	3.4

LOCATION: BEND AMS, OREGON
 95/17E- 6CAD
 HOLE NUMBER: MORSS
 DATE MEASURED: 8/ 4/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.370	52.47	0.0	0.0
20.0	65.6	12.040	53.67	67.0	3.7
30.0	98.4	12.790	55.02	75.0	4.1
35.0	114.8	12.820	55.08	6.0	0.3
40.0	131.2	12.890	55.20	14.0	0.8
45.0	147.6	12.940	55.29	10.0	0.5
50.0	164.0	13.170	55.71	46.0	2.5
55.0	180.4	13.360	56.05	38.0	2.1
60.0	196.8	13.540	56.37	36.0	2.0
65.0	213.2	13.730	56.71	38.0	2.1
70.0	229.6	13.770	56.79	8.0	0.4
75.0	246.0	14.030	57.25	52.0	2.9
80.0	262.4	14.160	57.49	26.0	1.4
85.0	278.8	14.350	57.83	38.0	2.1
90.0	295.2	14.570	58.23	44.0	2.4
95.0	311.6	14.810	58.66	48.0	2.6
100.0	328.0	14.970	58.95	32.0	1.8
105.0	344.4	15.150	59.27	36.0	2.0
110.0	360.8	15.380	59.68	46.0	2.5
115.0	377.2	15.580	60.04	40.0	2.2
120.0	393.6	15.650	60.17	14.0	0.8

LOCATION: BAKER AMS, OREGON
 9S/40E-19DB
 HOLE NUMBER: BAKERCTY
 DATE MEASURED: 8/26/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
60.0	196.8	18.010	64.42	0.0	0.0
65.0	213.2	18.380	65.08	74.0	4.1
70.0	229.6	18.520	65.34	28.0	1.5
75.0	246.0	18.690	65.64	34.0	1.9
80.0	262.4	18.850	65.93	32.0	1.8
85.0	278.8	19.040	66.27	38.0	2.1
90.0	295.2	19.160	66.49	24.0	1.3
95.0	311.6	19.170	66.51	2.0	0.1
100.0	328.0	19.190	66.54	4.0	0.2
105.0	344.4	19.220	66.60	6.0	0.3
110.0	360.8	19.260	66.67	8.0	0.4
115.0	377.2	19.290	66.72	6.0	0.3
120.0	393.6	19.320	66.78	6.0	0.3
125.0	410.0	19.330	66.79	2.0	0.1
130.0	426.4	19.350	66.83	4.0	0.2
135.0	442.8	19.390	66.90	8.0	0.4
140.0	459.2	19.410	66.94	4.0	0.2
145.0	475.6	19.430	66.97	4.0	0.2
150.0	492.0	19.460	67.03	6.0	0.3
155.0	508.4	19.470	67.05	2.0	0.1
160.0	524.8	19.490	67.08	4.0	0.2
165.0	541.2	19.500	67.10	2.0	0.1
170.0	557.6	19.520	67.14	4.0	0.2
175.0	574.0	20.120	68.22	120.0	6.6
180.0	590.4	20.190	68.34	14.0	0.8
185.0	606.8	20.190	68.34	0.0	0.0
190.0	623.2	20.200	68.36	2.0	0.1

LOCATION: BAKER AMS, OREGON
 9S/40E-20CA 1
 HOLE NUMBER: BAKERGLF
 DATE MEASURED: 8/19/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	12.010	53.62	0.0	0.0
35.0	114.8	12.120	53.82	22.0	1.2
40.0	131.2	12.340	54.21	44.0	2.4
45.0	147.6	12.380	54.28	8.0	0.4
50.0	164.0	12.410	54.34	6.0	0.3
55.0	180.4	12.540	54.57	26.0	1.4
60.0	196.8	12.730	54.91	38.0	2.1
65.0	213.2	12.930	55.27	40.0	2.2
70.0	229.6	13.170	55.71	48.0	2.6
75.0	246.0	13.610	56.50	88.0	4.8
80.0	262.4	13.800	56.84	38.0	2.1

LOCATION: BAKER AMS, OREGON
 9S/40E-20CA 2
 HOLE NUMBER: BAKERGLF
 DATE MEASURED: 9/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
30.0	98.4	12.800	55.04	0.0	0.0
35.0	114.8	12.790	55.02	-2.0	-0.1
40.0	131.2	12.800	55.04	2.0	0.1
45.0	147.6	12.820	55.08	4.0	0.2
50.0	164.0	12.910	55.24	18.0	1.0
55.0	180.4	12.950	55.33	10.0	0.5
60.0	196.8	12.990	55.38	6.0	0.3
65.0	213.2	13.010	55.42	4.0	0.2
70.0	229.6	13.060	55.51	10.0	0.5
75.0	246.0	13.080	55.54	4.0	0.2
80.0	262.4	13.110	55.60	6.0	0.3
85.0	278.8	13.140	55.65	6.0	0.3
90.0	295.2	13.150	55.67	2.0	0.1
95.0	311.6	13.190	55.74	8.0	0.4
100.0	328.0	13.170	55.71	-4.0	-0.2
105.0	344.4	13.210	55.78	8.0	0.4

LOCATION: SALEM AMS, OREGON
 10S/ 3W-10D
 HOLE NUMBER: OW M1
 DATE MEASURED: 8/27/62

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.700	53.06	0.0	0.0
155.6	510.4	28.300	82.94	122.4	6.7
1498.2	4914.1	58.300	136.94	22.3	1.2

LOCATION: SALEM AMS, OREGON
 11S/ 5W-21AB
 HOLE NUMBER: HARRIS
 DATE MEASURED: 8/22/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.050	51.89	0.0	0.0
15.0	49.2	11.150	52.07	20.0	1.1
20.0	65.6	11.370	52.47	44.0	2.4
25.0	82.0	11.620	52.92	50.0	2.7
30.0	98.4	11.710	53.08	18.0	1.0
35.0	114.8	11.830	53.29	24.0	1.3
40.0	131.2	11.960	53.53	26.0	1.4
45.0	147.6	12.090	53.76	26.0	1.4
50.0	164.0	12.230	54.01	28.0	1.5
55.0	180.4	12.360	54.25	26.0	1.4
60.0	196.8	12.490	54.48	26.0	1.4
64.0	209.9	12.610	54.70	30.0	1.6
70.0	229.6	12.700	54.86	15.0	0.8

LOCATION: SALEM AMS, OREGON
 11S/ 1W-32BBB
 HOLE NUMBER: OW LCD
 DATE MEASURED: 12/11/58

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
0.0	0.0	10.700	51.26	0.0	0.0
1347.0	4418.2	36.100	96.98	18.9	1.0
1345.0	4411.6	36.100	96.98	0.0	-0.0

LOCATION: BEND AMS, OREGON
 11S/13E-24AA
 HOLE NUMBER: SCHNEIDR
 DATE MEASURED: 7/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
40.0	131.2	12.660	54.79	0.0	0.0
50.0	164.0	12.830	55.09	17.0	0.9
60.0	196.8	13.000	55.40	17.0	0.9
70.0	229.6	13.950	57.11	95.0	5.2
80.0	262.4	14.320	57.78	37.0	2.0
90.0	295.2	14.610	58.30	29.0	1.6
95.0	311.6	15.050	59.09	88.0	4.8
100.0	328.0	15.160	59.29	22.0	1.2
105.0	344.4	15.400	59.72	48.0	2.6
110.0	360.8	15.770	60.39	74.0	4.1
115.0	377.2	15.970	60.75	40.0	2.2
120.0	393.6	16.140	61.05	34.0	1.9
125.0	410.0	16.320	61.38	36.0	2.0
130.0	426.4	16.520	61.74	40.0	2.2
135.0	442.8	16.700	62.06	36.0	2.0
140.0	459.2	16.880	62.38	36.0	2.0
145.0	475.6	17.120	62.82	48.0	2.6
150.0	492.0	17.380	63.28	52.0	2.9
155.0	508.4	17.680	63.82	60.0	3.3
160.0	524.8	17.990	64.38	62.0	3.4
165.0	541.2	18.270	64.89	56.0	3.1
170.0	557.6	18.560	65.41	58.0	3.2
175.0	574.0	18.830	65.89	54.0	3.0
180.0	590.4	19.100	66.38	54.0	3.0
185.0	606.8	19.350	66.83	50.0	2.7
190.0	623.2	19.640	67.35	58.0	3.2
195.0	639.6	19.810	67.66	34.0	1.9
200.0	656.0	20.010	68.02	40.0	2.2
205.0	672.4	20.300	68.54	58.0	3.2
210.0	688.8	20.580	69.04	56.0	3.1
215.0	705.2	20.900	69.62	64.0	3.5
220.0	721.6	21.200	70.16	60.0	3.3
225.0	738.0	21.530	70.75	66.0	3.6
230.0	754.4	21.820	71.28	58.0	3.2
235.0	770.8	22.070	71.73	50.0	2.7
240.0	787.2	22.340	72.21	54.0	3.0
245.0	803.6	22.610	72.70	54.0	3.0
250.0	820.0	22.760	72.97	30.0	1.6
255.0	836.4	23.130	73.63	74.0	4.1

LOCATION: BEND AMS, OREGON
11S/13E-24AA
HOLE NUMBER: SCHNEIDR
DATE MEASURED: 7/14/77

PAGE 2

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
260.0	852.8	23.400	74.12	54.0	3.0
265.0	869.2	23.670	74.61	54.0	3.0
270.0	885.6	23.920	75.06	50.0	2.7
275.0	902.0	24.170	75.51	50.0	2.7
280.0	918.4	24.370	75.87	40.0	2.2
285.0	934.8	24.570	76.23	40.0	2.2
290.0	951.2	24.710	76.48	28.0	1.5
295.0	967.6	24.920	76.86	42.0	2.3

LOCATION: BEND AMS, OREGON
 11S/13E-24AC
 HOLE NUMBER: SCHNEIDR
 DATE MEASURED: 7/14/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
45.0	147.6	13.300	55.94	0.0	0.0
50.0	164.0	13.320	55.98	4.0	0.2
55.0	180.4	13.490	56.28	34.0	1.9
60.0	196.8	13.530	56.35	8.0	0.4
65.0	213.2	13.680	56.62	30.0	1.6
70.0	229.6	13.840	56.91	32.0	1.8
75.0	246.0	13.870	56.97	6.0	0.3
80.0	262.4	13.900	57.02	6.0	0.3
85.0	278.8	13.920	57.06	4.0	0.2
90.0	295.2	13.940	57.09	4.0	0.2
95.0	311.6	13.960	57.13	4.0	0.2
100.0	328.0	13.990	57.18	6.0	0.3
105.0	344.4	14.020	57.24	6.0	0.3
110.0	360.8	14.050	57.29	6.0	0.3
115.0	377.2	14.080	57.34	6.0	0.3
120.0	393.6	14.120	57.42	8.0	0.4
125.0	410.0	14.180	57.52	12.0	0.7
130.0	426.4	14.230	57.61	10.0	0.5
135.0	442.8	14.250	57.65	4.0	0.2
140.0	459.2	14.270	57.69	4.0	0.2
145.0	475.6	14.300	57.74	6.0	0.3
150.0	492.0	14.350	57.83	10.0	0.5
155.0	508.4	14.440	57.99	18.0	1.0
160.0	524.8	14.560	58.21	24.0	1.3
165.0	541.2	14.970	58.95	82.0	4.5
170.0	557.6	16.180	61.12	242.0	13.3
175.0	574.0	17.000	62.60	164.0	9.0
180.0	590.4	17.470	63.45	94.0	5.2
185.0	606.8	17.900	64.22	86.0	4.7
190.0	623.2	18.220	64.80	64.0	3.5
195.0	639.6	18.510	65.32	58.0	3.2
200.0	656.0	18.780	65.80	54.0	3.0
205.0	672.4	19.060	66.31	56.0	3.1
210.0	688.8	19.330	66.79	54.0	3.0
215.0	705.2	19.590	67.26	52.0	2.9
220.0	721.6	19.860	67.75	54.0	3.0
225.0	738.0	20.140	68.25	56.0	3.1
230.0	754.4	20.420	68.76	56.0	3.1
235.0	770.8	20.680	69.22	52.0	2.9
240.0	787.2	20.890	69.60	42.0	2.3
245.0	803.6	21.120	70.02	46.0	2.5

LOCATION: BEND AMS, OREGON
 11S/15E-22CD
 HOLE NUMBER: HAYCK RN
 DATE MEASURED: 8/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
165.0	541.2	18.790	65.82	0.0	0.0
170.0	557.6	18.870	65.97	16.0	0.9
175.0	574.0	19.070	66.33	40.0	2.2
180.0	590.4	19.190	66.54	24.0	1.3
185.0	606.8	19.640	67.35	90.0	4.9
190.0	623.2	20.100	68.18	92.0	5.0
195.0	639.6	20.330	68.59	46.0	2.5
200.0	656.0	20.610	69.10	56.0	3.1
205.0	672.4	20.800	69.44	38.0	2.1
210.0	688.8	21.150	70.07	70.0	3.8
220.0	721.6	21.710	71.08	56.0	3.1
225.0	738.0	21.930	71.47	44.0	2.4
230.0	754.4	22.120	71.82	38.0	2.1
235.0	770.8	22.720	72.90	120.0	6.6
240.0	787.2	22.910	73.24	38.0	2.1
245.0	803.6	23.050	73.49	28.0	1.5
250.0	820.0	23.470	74.25	84.0	4.6
255.0	836.4	23.860	74.95	78.0	4.3
260.0	852.8	24.370	75.87	102.0	5.6
265.0	869.2	24.920	76.86	110.0	6.0
270.0	885.6	25.250	77.45	66.0	3.6
275.0	902.0	25.450	77.81	40.0	2.2
280.0	918.4	25.590	78.06	28.0	1.5
285.0	934.8	25.750	78.35	32.0	1.8
290.0	951.2	26.030	78.85	56.0	3.1
295.0	967.6	26.290	79.32	52.0	2.9
300.0	984.0	26.440	79.59	30.0	1.6
305.0	1000.4	27.000	80.60	112.0	6.1
310.0	1016.8	27.150	80.87	30.0	1.6
315.0	1033.2	27.330	81.19	36.0	2.0
320.0	1049.6	27.530	81.55	40.0	2.2
325.0	1066.0	27.730	81.91	40.0	2.2
330.0	1082.4	28.080	82.54	70.0	3.8
335.0	1098.8	28.240	82.83	32.0	1.8
340.0	1115.2	28.390	83.10	30.0	1.6
345.0	1131.6	28.750	83.75	72.0	4.0
350.0	1148.0	28.860	83.95	22.0	1.2
355.0	1164.4	29.040	84.27	36.0	2.0
360.0	1180.8	29.360	84.85	64.0	3.5

LOCATION: BEND AMS, OREGON
 119/15E-22CD
 HOLE NUMBER: HAYCK RN
 DATE MEASURED: 8/10/77

PAGE 2

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
365.0	1197.2	29.580	85.24	44.0	2.4
370.0	1213.6	29.850	85.73	54.0	3.0
375.0	1230.0	30.220	86.40	74.0	4.1
380.0	1246.4	30.480	86.86	52.0	2.9
385.0	1262.8	30.680	87.22	40.0	2.2
390.0	1279.2	30.900	87.62	44.0	2.4
395.0	1295.6	31.150	88.07	50.0	2.7
400.0	1312.0	31.360	88.45	42.0	2.3
405.0	1328.4	31.610	88.90	50.0	2.7
410.0	1344.8	31.850	89.33	48.0	2.6
415.0	1361.2	32.110	89.80	52.0	2.9
420.0	1377.6	32.350	90.23	48.0	2.6
425.0	1394.0	32.600	90.68	50.0	2.7
430.0	1410.4	32.740	90.93	28.0	1.5
435.0	1426.8	32.940	91.29	40.0	2.2
440.0	1443.2	33.190	91.74	50.0	2.7
445.0	1459.6	33.450	92.21	52.0	2.9
450.0	1476.0	33.630	92.53	36.0	2.0
270.0	885.6	25.250	77.45	46.6	2.6
275.0	902.0	25.450	77.81	40.0	2.2
280.0	918.4	25.590	78.06	28.0	1.5
285.0	934.8	25.750	78.35	32.0	1.8
290.0	951.2	26.030	78.85	56.0	3.1
295.0	967.6	26.290	79.32	52.0	2.9
300.0	984.0	26.440	79.59	30.0	1.6
305.0	1000.4	27.000	80.60	112.0	6.1
310.0	1016.8	27.150	80.87	30.0	1.6
315.0	1033.2	27.330	81.19	36.0	2.0
320.0	1049.6	27.530	81.55	40.0	2.2
325.0	1066.0	27.730	81.91	40.0	2.2
330.0	1082.4	28.080	82.54	70.0	3.8
335.0	1098.8	28.240	82.83	32.0	1.8
340.0	1115.2	28.390	83.10	30.0	1.6
345.0	1131.6	28.750	83.75	72.0	4.0
350.0	1148.0	28.860	83.95	22.0	1.2
355.0	1164.4	29.040	84.27	36.0	2.0
360.0	1180.8	29.360	84.85	64.0	3.5
365.0	1197.2	29.580	85.24	44.0	2.4
370.0	1213.6	29.850	85.73	54.0	3.0

LOCATION: BEND AMS, OREGON
 119/15E-22CD
 HOLE NUMBER: HAYCK RN
 DATE MEASURED: 8/10/77

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DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL GRADIENT DEG C/KM	GEOHERMAL GRADIENT DEG F/100 FT
375.0	1230.0	30.220	86.40	74.0	4.1
380.0	1246.4	30.480	86.86	52.0	2.9
385.0	1262.8	30.680	87.22	40.0	2.2
390.0	1279.2	30.900	87.62	44.0	2.4
395.0	1295.6	31.150	88.07	50.0	2.7
400.0	1312.0	31.360	88.45	42.0	2.3
405.0	1328.4	31.610	88.90	50.0	2.7
410.0	1344.8	31.850	89.33	48.0	2.6
415.0	1361.2	32.110	89.80	52.0	2.9
420.0	1377.6	32.350	90.23	48.0	2.6
425.0	1394.0	32.600	90.68	50.0	2.7
430.0	1410.4	32.740	90.93	28.0	1.5
435.0	1426.8	32.940	91.29	40.0	2.2
440.0	1443.2	33.190	91.74	50.0	2.7
445.0	1459.6	33.450	92.21	52.0	2.9
450.0	1476.0	33.630	92.53	36.0	2.0
455.0	1492.4	33.900	93.02	54.0	3.0
460.0	1508.8	34.120	93.42	44.0	2.4
465.0	1525.2	34.310	93.76	38.0	2.1
470.0	1541.6	34.560	94.21	50.0	2.7
475.0	1558.0	34.800	94.64	48.0	2.6
480.0	1574.4	34.980	94.96	36.0	2.0
485.0	1590.8	35.210	95.38	46.0	2.5
490.0	1607.2	35.480	95.86	54.0	3.0
495.0	1623.6	35.710	96.28	46.0	2.5
500.0	1640.0	35.950	96.71	48.0	2.6
505.0	1656.4	36.180	97.12	46.0	2.5
510.0	1672.8	36.440	97.59	52.0	2.9
515.0	1689.2	36.670	98.01	46.0	2.5
520.0	1705.6	36.890	98.40	44.0	2.4
525.0	1722.0	37.170	98.91	56.0	3.1
530.0	1738.4	37.400	99.32	46.0	2.5
535.0	1754.8	37.650	99.77	50.0	2.7
540.0	1771.2	37.880	100.18	46.0	2.5
545.0	1787.6	38.080	100.54	40.0	2.2
550.0	1804.0	38.400	101.12	64.0	3.5
555.0	1820.4	38.560	101.41	32.0	1.8
560.0	1836.8	38.770	101.79	42.0	2.3
565.0	1853.2	39.100	102.38	66.0	3.6

LOCATION: BEND AMS, OREGON
 119/15E-22CD
 HOLE NUMBER: HAYCK RN
 DATE MEASURED: 8/10/77

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DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
570.0	1869.6	39.300	102.74	40.0	2.2
575.0	1886.0	39.530	103.15	46.0	2.5
580.0	1902.4	39.780	103.60	50.0	2.7
585.0	1918.8	40.030	104.05	50.0	2.7
590.0	1935.2	40.290	104.52	52.0	2.9
595.0	1951.6	40.540	104.97	50.0	2.7
600.0	1968.0	40.950	105.71	82.0	4.5
605.0	1984.4	40.950	105.71	0.0	0.0
610.0	2000.8	41.110	106.00	32.0	1.8
615.0	2017.2	41.340	106.41	46.0	2.5
620.0	2033.6	41.560	106.81	44.0	2.4
625.0	2050.0	41.680	107.02	24.0	1.3
630.0	2066.4	41.890	107.40	42.0	2.3
635.0	2082.8	42.110	107.80	44.0	2.4
640.0	2099.2	42.290	108.12	36.0	2.0
645.0	2115.6	42.450	108.41	32.0	1.8
650.0	2132.0	42.610	108.70	32.0	1.8
655.0	2148.4	42.770	108.99	32.0	1.8
660.0	2164.8	42.920	109.26	30.0	1.6
665.0	2181.2	43.030	109.45	22.0	1.2
670.0	2197.6	43.190	109.74	32.0	1.8
675.0	2214.0	43.370	110.07	36.0	2.0
680.0	2230.4	43.510	110.32	28.0	1.5
685.0	2246.8	43.690	110.64	36.0	2.0
690.0	2263.2	43.840	110.91	30.0	1.6
695.0	2279.6	44.010	111.22	34.0	1.9
700.0	2296.0	44.150	111.47	28.0	1.5
705.0	2312.4	44.300	111.74	30.0	1.6
710.0	2328.8	44.460	112.03	32.0	1.8
715.0	2345.2	44.640	112.35	36.0	2.0
720.0	2361.6	44.770	112.59	26.0	1.4
725.0	2378.0	44.920	112.86	30.0	1.6
730.0	2394.4	45.080	113.14	32.0	1.8
735.0	2410.8	45.270	113.49	38.0	2.1
740.0	2427.2	45.430	113.77	32.0	1.8
745.0	2443.6	45.570	114.03	28.0	1.5
750.0	2460.0	45.730	114.31	32.0	1.8
755.0	2476.4	45.870	114.57	28.0	1.5
760.0	2492.8	46.030	114.85	32.0	1.8

LOCATION: BEND AMS, OREGON
 119/15E-22CD
 HOLE NUMBER: HAYCK RN
 DATE MEASURED: 8/10/77

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DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
765.0	2509.2	46.140	115.05	22.0	1.2
770.0	2525.6	46.280	115.30	28.0	1.5
775.0	2542.0	46.420	115.55	28.0	1.5
780.0	2558.4	46.580	115.84	32.0	1.8
785.0	2574.8	46.710	116.08	26.0	1.4
790.0	2591.2	46.890	116.40	36.0	2.0
795.0	2607.6	46.990	116.58	20.0	1.1
800.0	2624.0	47.220	117.00	46.0	2.5
805.0	2640.4	47.380	117.28	32.0	1.8
810.0	2656.8	47.550	117.59	34.0	1.9
815.0	2673.2	47.620	117.72	14.0	0.8
820.0	2689.6	47.720	117.90	20.0	1.1

LOCATION: SALEM AMS, OREGON
 129/ SW-10CA
 HOLE NUMBER: BROOK LN
 DATE MEASURED: 7/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.040	53.67	0.0	0.0
15.0	49.2	12.350	54.23	62.0	3.4
20.0	65.6	12.630	54.73	56.0	3.1
25.0	82.0	12.900	55.22	54.0	3.0
30.0	98.4	13.110	55.60	42.0	2.3
35.0	114.8	13.300	55.94	38.0	2.1
40.0	131.2	13.440	56.19	28.0	1.5
45.0	147.6	13.560	56.41	24.0	1.3
50.0	164.0	13.660	56.59	20.0	1.1
55.0	180.4	13.750	56.75	18.0	1.0
60.0	196.8	13.840	56.91	18.0	1.0
65.0	213.2	13.920	57.06	16.0	0.9
70.0	229.6	14.010	57.22	18.0	1.0
75.0	246.0	14.080	57.34	14.0	0.8
80.0	262.4	14.150	57.47	14.0	0.8
85.0	278.8	14.220	57.60	14.0	0.8
90.0	295.2	14.320	57.78	20.0	1.1
95.0	311.6	14.370	57.87	10.0	0.5
100.0	328.0	14.450	58.01	16.0	0.9

LOCATION: BEND AMS, OREGON
13S/14E-11CA
HOLE NUMBER: MORROW N
DATE MEASURED: 8/ 5/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.010	53.62	0.0	0.0
15.0	49.2	12.310	54.16	60.0	3.3
20.0	65.6	12.750	54.95	88.0	4.8
25.0	82.0	13.270	55.89	104.0	5.7
30.0	98.4	13.330	55.99	12.0	0.7
35.0	114.8	13.470	56.25	28.0	1.5
40.0	131.2	13.660	56.59	38.0	2.1
45.0	147.6	13.820	56.88	32.0	1.8
50.0	164.0	13.920	57.06	20.0	1.1

LOCATION: BEND AMS, OREGON
13S/14E-11CC
HOLE NUMBER: MOR-MID
DATE MEASURED: 8/ 3/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.210	53.98	0.0	0.0
15.0	49.2	12.530	54.55	64.0	3.5
20.0	65.6	12.840	55.11	62.0	3.4
25.0	82.0	12.900	55.22	12.0	0.7
30.0	98.4	12.860	55.15	-8.0	-0.4
35.0	114.8	14.510	58.12	330.0	18.1
40.0	131.2	14.590	58.26	16.0	0.9
45.0	147.6	14.840	58.71	50.0	2.7

LOCATION: BEND AMS, OREGON
13S/14E-11CD
HOLE NUMBER: MORROW S
DATE MEASURED: 8/ 3/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.060	53.71	0.0	0.0
15.0	49.2	12.390	54.30	66.0	3.6
20.0	65.6	13.080	55.54	138.0	7.6
25.0	82.0	13.660	56.59	116.0	6.4
30.0	98.4	14.710	58.48	210.0	11.5
35.0	114.8	14.740	58.53	6.0	0.3
40.0	131.2	14.750	58.55	2.0	0.1
45.0	147.6	14.760	58.57	2.0	0.1

LOCATION: SALEM AMS, OREGON
 155/ 6E-11DC
 HOLE NUMBER: CR-TBP
 DATE MEASURED: 7/26/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.070	46.53	0.0	0.0
12.5	41.0	7.860	46.15	-84.0	-4.6
15.0	49.2	7.820	46.08	-16.0	-0.9
17.5	57.4	7.800	46.04	-8.0	-0.4
20.0	65.6	7.770	45.99	-12.0	-0.7
22.5	73.8	7.740	45.93	-12.0	-0.7
25.0	82.0	7.650	45.77	-36.0	-2.0
27.5	90.2	7.550	45.59	-40.0	-2.2
30.0	98.4	7.470	45.45	-32.0	-1.8
32.5	106.6	7.290	45.12	-72.0	-4.0
35.0	114.8	7.250	45.05	-16.0	-0.9
37.5	123.0	7.260	45.07	4.0	0.3
40.0	131.2	7.280	45.10	8.0	0.4
42.5	139.4	7.310	45.16	12.0	0.7
45.0	147.6	7.350	45.23	16.0	0.9
47.5	155.8	7.400	45.32	20.0	1.1
50.0	164.0	7.480	45.46	32.0	1.8
52.0	170.6	7.520	45.54	20.0	1.1

LOCATION: BEND AMS, OREGON
 155/ 7E-28AA
 HOLE NUMBER: CR-SM
 DATE MEASURED: 7/26/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	5.990	42.78	0.0	0.0
10.0	32.8	5.570	42.03	-168.0	-9.2
12.5	41.0	5.440	41.79	-52.0	-2.9
15.0	49.2	5.400	41.72	-16.0	-0.9
17.5	57.4	5.370	41.67	-12.0	-0.7
20.0	65.6	5.400	41.72	12.0	0.7
22.5	73.8	5.310	41.56	-36.0	-2.0
25.0	82.0	5.210	41.38	-40.0	-2.2
27.5	90.2	5.120	41.22	-36.0	-2.0
30.0	98.4	5.030	41.05	-36.0	-2.0
32.5	106.6	4.970	40.95	-24.0	-1.3
35.0	114.8	4.920	40.85	-20.0	-1.1
37.5	123.0	4.820	40.78	-16.0	-0.9
40.0	131.2	4.760	40.57	-48.0	-2.6
42.5	139.4	4.520	40.14	-96.0	-5.0
45.0	147.6	4.630	40.33	44.0	2.4
47.5	155.8	4.540	40.17	-36.0	-2.0
50.0	164.0	4.490	40.08	-20.0	-1.1
52.5	172.2	4.400	39.92	-36.0	-2.0

LOCATION: BEND AMS, OREGON
 15S/16E-16DA
 HOLE NUMBER: PRSTUDCO
 DATE MEASURED: 7/12/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	13.670	56.61	0.0	0.0
10.0	32.8	13.750	56.75	32.0	1.8
12.5	41.0	13.760	56.77	4.0	0.2
15.0	49.2	13.750	56.75	-4.0	-0.2
17.5	57.4	13.770	56.79	8.0	0.4
20.0	65.6	13.760	56.77	-4.0	-0.2
22.5	73.8	13.750	56.75	-4.0	-0.2
25.0	82.0	13.720	56.70	-12.0	-0.7
27.5	90.2	13.760	56.77	16.0	0.9
30.0	98.4	13.780	56.80	8.0	0.4
32.5	106.6	13.790	56.82	4.0	0.2
35.0	114.8	13.810	56.86	8.0	0.4
37.5	123.0	13.800	56.84	-4.0	-0.2
40.0	131.2	13.810	56.86	4.0	0.2
42.5	139.4	13.850	56.93	16.0	0.9
45.0	147.6	13.870	56.97	8.0	0.4
47.5	155.8	16.390	61.50	1008.0	55.3

LOCATION: SALEM AMS, OREGON
 16S/10W-12DAC
 HOLE NUMBER: OW FM1
 DATE MEASURED: 1/27/56

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	9.600	49.28	0.0	0.0
927.0	3040.6	36.700	98.06	29.9	1.6
2013.0	6602.6	42.800	109.04	5.6	0.3
3889.0	12755.	82.200	179.96	21.0	1.2

LOCATION: BOISE AMS, OREGON
 18S/45E-20CB
 HOLE NUMBER: VALECITY
 DATE MEASURED: 7/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	16.430	61.57	0.0	0.0
10.0	32.8	16.340	61.41	-36.0	-2.0
12.5	41.0	16.340	61.41	0.0	0.0
15.0	49.2	16.360	61.45	8.0	0.4
17.5	57.4	16.390	61.50	12.0	0.7
20.0	65.6	16.460	61.63	28.0	1.5
22.5	73.8	16.460	61.63	0.0	0.0
25.0	82.0	16.450	61.61	-4.0	-0.2
27.5	90.2	16.680	62.02	92.0	5.0
30.0	98.4	16.910	62.44	92.0	5.0
32.5	106.6	17.220	63.00	124.0	6.8
35.0	114.8	17.570	63.63	140.0	7.7
37.5	123.0	17.840	64.11	108.0	5.9
40.0	131.2	18.140	64.65	120.0	6.6

LOCATION: BOISE AMS, OREGON
 18S/45E-30AB
 HOLE NUMBER: VALECITY
 DATE MEASURED: 7/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	12.570	54.63	0.0	0.0
10.0	32.8	12.880	55.18	124.0	6.8
12.5	41.0	13.060	55.51	72.0	4.0
15.0	49.2	13.300	55.94	96.0	5.3
17.5	57.4	13.450	56.21	60.0	3.3
20.0	65.6	13.640	56.55	76.0	4.2
22.5	73.8	13.800	56.84	64.0	3.5
25.0	82.0	14.030	57.25	92.0	5.0
27.5	90.2	14.260	57.67	92.0	5.0
30.0	98.4	14.440	57.99	72.0	4.0
32.5	106.6	14.640	58.35	80.0	4.4
35.0	114.8	14.860	58.75	88.0	4.8
37.5	123.0	15.070	59.13	84.0	4.6
40.0	131.2	15.250	59.45	72.0	4.0
42.5	139.4	15.510	59.92	104.0	5.7
45.0	147.6	15.720	60.30	84.0	4.6
47.5	155.8	15.900	60.62	72.0	4.0
50.0	164.0	16.110	61.00	84.0	4.6
52.5	172.2	16.240	61.23	52.0	2.9
55.0	180.4	16.640	61.95	160.0	8.8

LOCATION: BOISE AMS, OREGON
 18S/46E-21CC
 HOLE NUMBER: LEE
 DATE MEASURED: 7/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
7.5	24.6	15.310	59.56	0.0	0.0
10.0	32.8	15.400	59.72	36.0	2.0
12.5	41.0	15.490	59.88	36.0	2.0
15.0	49.2	15.550	59.99	24.0	1.3
17.5	57.4	15.660	60.19	44.0	2.4
20.0	65.6	15.750	60.35	36.0	2.0
22.5	73.8	15.790	60.42	16.0	0.9
25.0	82.0	15.880	60.58	36.0	2.0
27.5	90.2	16.100	60.98	88.0	4.8
30.0	98.4	16.260	61.27	64.0	3.5
32.5	106.6	16.420	61.56	64.0	3.5
35.0	114.8	16.560	61.81	56.0	3.1
37.5	123.0	16.950	62.51	156.0	8.6
40.0	131.2	17.300	63.14	140.0	7.7
42.5	139.4	17.380	63.28	32.0	1.8
45.0	147.6	17.790	64.02	164.0	9.0

LOCATION: BAKER AMS, OREGON
 18S/47E- 4DC
 HOLE NUMBER: ONTCTYPK
 DATE MEASURED: 8/19/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.550	56.39	0.0	0.0
15.0	49.2	14.120	57.42	114.0	6.3
20.0	65.6	14.340	57.81	44.0	2.4
25.0	82.0	14.570	58.23	46.0	2.5
30.0	98.4	14.880	58.78	62.0	3.4
35.0	114.8	15.140	59.25	52.0	2.9
40.0	131.2	15.470	59.85	66.0	3.6
45.0	147.6	15.810	60.46	68.0	3.7
50.0	164.0	16.200	61.16	78.0	4.3
55.0	180.4	16.590	61.86	78.0	4.3
60.0	196.8	17.020	62.64	86.0	4.7
65.0	213.2	17.450	63.41	86.0	4.7
70.0	229.6	17.870	64.17	84.0	4.6
75.0	246.0	18.300	64.94	86.0	4.7
80.0	262.4	18.750	65.75	90.0	4.9
85.0	278.8	19.170	66.51	84.0	4.6
90.0	295.2	19.600	67.28	86.0	4.7
95.0	311.6	20.050	68.09	90.0	4.9
100.0	328.0	20.480	68.86	86.0	4.7
105.0	344.4	20.930	69.67	90.0	4.9
110.0	360.8	21.380	70.48	90.0	4.9
115.0	377.2	21.830	71.29	90.0	4.9
120.0	393.6	22.260	72.07	86.0	4.7
125.0	410.0	22.720	72.90	92.0	5.0
130.0	426.4	23.180	73.72	92.0	5.0
135.0	442.8	23.640	74.55	92.0	5.0
140.0	459.2	24.090	75.36	90.0	4.9
145.0	475.6	24.520	76.14	86.0	4.7
150.0	492.0	24.950	76.91	86.0	4.7

LOCATION: BOISE AMS, OREGON
 19S/45E- 9DB
 HOLE NUMBER: N HARPER
 DATE MEASURED: 7/ 7/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	15.520	59.94	0.0	0.0
20.0	65.6	15.810	60.46	29.0	1.6
30.0	98.4	16.650	61.97	84.0	4.6
40.0	131.2	17.690	63.84	104.0	5.7
50.0	164.0	18.740	65.73	105.0	5.8
60.0	196.8	19.770	67.59	103.0	5.7
70.0	229.6	20.750	69.35	98.0	5.4
80.0	262.4	21.840	71.31	109.0	6.0
90.0	295.2	22.850	73.13	101.0	5.5
100.0	328.0	24.090	75.36	124.0	6.8
110.0	360.8	25.090	77.16	100.0	5.5
120.0	393.6	26.040	78.87	95.0	5.2
130.0	426.4	27.340	81.21	130.0	7.1
140.0	459.2	28.370	83.07	103.0	5.7
150.0	492.0	29.420	84.96	105.0	5.8
160.0	524.8	30.400	86.72	98.0	5.4
170.0	557.6	31.470	88.65	107.0	5.9
175.0	574.0	32.180	89.92	142.0	7.8
180.0	590.4	32.420	90.36	48.0	2.6
185.0	606.8	32.730	90.91	62.0	3.4
190.0	623.2	33.150	91.67	84.0	4.6
195.0	639.6	33.500	92.30	70.0	3.8
200.0	656.0	34.010	93.22	102.0	5.6
205.0	672.4	34.330	93.79	64.0	3.5

LOCATION: ROSEBURG AMS, OREGON
 20S/10W-27CDB
 HOLE NUMBER: OW GCP
 DATE MEASURED: 10/20/57

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
2.0	6.6	11.100	51.98	0.0	0.0
1361.0	4464.1	48.900	120.02	27.8	1.5
1914.0	6277.9	50.000	122.00	2.0	0.1
2108.0	6914.2	50.000	122.00	0.0	0.0
2593.0	8505.0	60.000	140.00	20.6	1.1
2742.0	8993.8	61.700	143.06	11.4	0.6

LOCATION: MEDFORD AMS, OREGON
 31S/ 6W-23CD
 HOLE NUMBER: SLURBUTT
 DATE MEASURED: 8/12/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	7.110	44.80	0.0	0.0
10.0	32.8	7.000	44.60	-22.0	-1.2
15.0	49.2	7.110	44.80	22.0	1.2
20.0	65.6	7.120	44.82	2.0	0.1
25.0	82.0	7.170	44.91	10.0	0.5
30.0	98.4	7.220	45.00	10.0	0.5
35.0	114.8	7.300	45.14	16.0	0.9
40.0	131.2	7.370	45.27	14.0	0.8
45.0	147.6	7.450	45.41	16.0	0.9
50.0	164.0	7.510	45.52	12.0	0.7
55.0	180.4	7.570	45.63	12.0	0.7
60.0	196.8	7.620	45.72	10.0	0.5
65.0	213.2	7.670	45.81	10.0	0.5
70.0	229.6	7.720	45.90	10.0	0.5
75.0	246.0	7.770	45.99	10.0	0.5
80.0	262.4	7.810	46.06	8.0	0.4
85.0	278.8	7.850	46.13	8.0	0.4
90.0	295.2	7.890	46.20	8.0	0.4
95.0	311.6	7.930	46.27	8.0	0.4
100.0	328.0	7.970	46.35	8.0	0.4
105.0	344.4	8.010	46.42	8.0	0.4
110.0	360.8	8.080	46.54	14.0	0.8
115.0	377.2	8.080	46.54	0.0	0.0
120.0	393.6	8.110	46.60	6.0	0.3
125.0	410.0	8.150	46.67	8.0	0.4
130.0	426.4	8.180	46.72	6.0	0.3
135.0	442.8	8.220	46.80	8.0	0.4
140.0	459.2	8.250	46.85	6.0	0.3
145.0	475.6	8.280	46.90	6.0	0.3
150.0	492.0	8.320	46.98	8.0	0.4
155.0	508.4	8.360	47.05	8.0	0.4
160.0	524.8	8.390	47.10	6.0	0.3
165.0	541.2	8.430	47.17	8.0	0.4
170.0	557.6	8.460	47.23	6.0	0.3

LOCATION: MEDFORD AMS, OREGON
 33S/ 2E-11AC
 HOLE NUMBER: WILDWOOD
 DATE MEASURED: 8/17/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
40.0	131.2	9.310	48.76	0.0	0.0
45.0	147.6	9.230	48.61	-16.0	-0.9
50.0	164.0	9.150	48.47	-16.0	-0.9
55.0	180.4	9.130	48.43	-4.0	-0.2
60.0	196.8	9.130	48.43	0.0	0.0

LOCATION: MEDFORD AMS, OREGON
 33S/ 2E-19DD
 HOLE NUMBER: DMND CK
 DATE MEASURED: 8/18/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	9.500	49.10	0.0	0.0
15.0	49.2	9.220	48.60	-56.0	-3.1
20.0	65.6	8.950	48.11	-54.0	-3.0
25.0	82.0	8.720	47.70	-46.0	-2.5
30.0	98.4	8.710	47.68	-2.0	-0.1
35.0	114.8	8.710	47.68	0.0	0.0
40.0	131.2	8.760	47.77	10.0	0.5
45.0	147.6	8.830	47.89	14.0	0.8

LOCATION: KLAMATH FALLS AMS, ORE
 34S/18E- 8AC
 HOLE NUMBER: RDH
 DATE MEASURED: 11/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
20.0	65.6	11.090	51.96	0.0	0.0
25.0	82.0	11.790	53.22	140.0	7.7
30.0	98.4	12.180	53.92	78.0	4.3
35.0	114.8	12.470	54.45	58.0	3.2
40.0	131.2	12.650	54.77	36.0	2.0
45.0	147.6	12.800	55.04	30.0	1.6
50.0	164.0	13.110	55.60	62.0	3.4
55.0	180.4	13.290	55.92	36.0	2.0
60.0	196.8	13.600	56.48	62.0	3.4
65.0	213.2	14.000	57.20	80.0	4.4
70.0	229.6	14.330	57.79	66.0	3.6

LOCATION: MEDFORD AMS, OREGON
 35S/ 6W-34CD
 HOLE NUMBER: MERLIN
 DATE MEASURED: 8/16/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	11.530	52.75	0.0	0.0
20.0	65.6	12.590	54.66	106.0	5.8
25.0	82.0	12.650	54.77	12.0	0.7
30.0	98.4	12.750	54.95	20.0	1.1
35.0	114.8	12.870	55.17	24.0	1.3
40.0	131.2	12.970	55.35	20.0	1.1
45.0	147.6	13.070	55.53	20.0	1.1
50.0	164.0	13.160	55.69	18.0	1.0
55.0	180.4	13.230	55.81	14.0	0.8
60.0	196.8	13.310	55.96	16.0	0.9
65.0	213.2	13.370	56.07	12.0	0.7
70.0	229.6	13.440	56.19	14.0	0.8
75.0	246.0	13.490	56.28	10.0	0.5
80.0	262.4	13.550	56.39	12.0	0.7
85.0	278.8	13.620	56.52	14.0	0.8
90.0	295.2	13.670	56.61	10.0	0.5
95.0	311.6	13.730	56.71	12.0	0.7
100.0	328.0	13.800	56.84	14.0	0.8
105.0	344.4	13.850	56.93	10.0	0.5
110.0	360.8	13.910	57.04	12.0	0.7
115.0	377.2	13.970	57.15	12.0	0.7
120.0	393.6	14.030	57.25	12.0	0.7
125.0	410.0	14.090	57.36	12.0	0.7
130.0	426.4	14.150	57.47	12.0	0.7
135.0	442.8	14.200	57.56	10.0	0.5
140.0	459.2	14.260	57.67	12.0	0.7
145.0	475.6	14.320	57.78	12.0	0.7
150.0	492.0	14.370	57.87	10.0	0.5

LOCATION: MEDFORD AMS, OREGON
 355/ 2W-28CC
 HOLE NUMBER: SAMS VAL
 DATE MEASURED: 8/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	15.400	59.72	0.0	0.0
15.0	49.2	15.500	59.90	20.0	1.1
20.0	65.6	15.530	59.95	6.0	0.3
25.0	82.0	15.570	60.03	8.0	0.4
30.0	98.4	15.640	60.15	14.0	0.8
35.0	114.8	15.730	60.31	18.0	1.0
40.0	131.2	15.880	60.58	30.0	1.6
45.0	147.6	16.040	60.87	32.0	1.8
50.0	164.0	16.200	61.16	32.0	1.8
55.0	180.4	16.360	61.45	32.0	1.8
60.0	196.8	16.360	61.45	0.0	0.0
65.0	213.2	16.280	61.30	-16.0	-0.9
70.0	229.6	16.260	61.27	-4.0	-0.2
75.0	246.0	16.300	61.34	8.0	0.4
80.0	262.4	16.380	61.48	16.0	0.9
85.0	278.8	16.460	61.63	16.0	0.9
90.0	295.2	16.550	61.79	18.0	1.0
95.0	311.6	16.660	61.99	22.0	1.2
100.0	328.0	16.780	62.20	24.0	1.3
105.0	344.4	16.880	62.38	20.0	1.1
110.0	360.8	16.980	62.56	20.0	1.1
115.0	377.2	17.070	62.73	18.0	1.0
120.0	393.6	17.180	62.92	22.0	1.2
125.0	410.0	17.270	63.09	18.0	1.0
130.0	426.4	17.360	63.25	18.0	1.0
135.0	442.8	17.430	63.37	14.0	0.8
140.0	459.2	17.510	63.52	16.0	0.9
145.0	475.6	17.590	63.66	16.0	0.9
150.0	492.0	17.670	63.81	16.0	0.9
155.0	508.4	17.800	64.04	26.0	1.4
160.0	524.8	17.980	64.36	36.0	2.0
165.0	541.2	18.090	64.56	22.0	1.2

LOCATION: MEDFORD AMS, OREGON
 355/ 2W-30DA
 HOLE NUMBER: SAMS ULF
 DATE MEASURED: 8/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.450	56.21	0.0	0.0
15.0	49.2	14.170	57.51	144.0	7.9
20.0	65.6	14.260	57.67	18.0	1.0
25.0	82.0	14.310	57.76	10.0	0.5
30.0	98.4	14.340	57.81	6.0	0.3
35.0	114.8	14.350	57.83	2.0	0.1
40.0	131.2	14.360	57.85	2.0	0.1
45.0	147.6	14.410	57.94	10.0	0.5
50.0	164.0	14.500	58.10	18.0	1.0
55.0	180.4	14.580	58.24	15.0	0.9
60.0	196.8	14.730	58.51	30.0	1.6
65.0	213.2	14.890	58.80	32.0	1.8
70.0	229.6	15.030	59.05	28.0	1.5
75.0	246.0	15.140	59.25	22.0	1.2
80.0	262.4	15.220	59.40	16.0	0.9
85.0	278.8	15.370	59.67	30.0	1.6

LOCATION: MEDFORD AMS, OREGON
 355/ 1E-13AD
 HOLE NUMBER: RAMBO
 DATE MEASURED: 8/15/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	10.020	50.04	0.0	0.0
10.0	32.8	10.140	50.25	24.0	1.3
15.0	49.2	10.430	50.77	58.0	3.2
20.0	65.6	10.670	51.21	48.0	2.6
25.0	82.0	10.870	51.57	40.0	2.2
30.0	98.4	11.030	51.85	32.0	1.8
35.0	114.8	11.190	52.14	32.0	1.8
40.0	131.2	11.310	52.36	24.0	1.3

LOCATION: MEDFORD AMS, OREGON
 36S/ 2W-31DC
 HOLE NUMBER: WILLOWCK
 DATE MEASURED: 8/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.850	56.93	0.0	0.0
15.0	49.2	13.830	56.89	-4.0	-0.2
20.0	65.6	13.720	56.70	-22.0	-1.2
25.0	82.0	13.700	56.66	-4.0	-0.2
30.0	98.4	13.710	56.68	2.0	0.1
35.0	114.8	13.740	56.73	6.0	0.3
40.0	131.2	13.790	56.82	10.0	0.5
45.0	147.6	13.840	56.91	10.0	0.5
50.0	164.0	13.900	57.02	12.0	0.7
55.0	180.4	13.960	57.13	12.0	0.7
60.0	196.8	14.030	57.25	14.0	0.8
65.0	213.2	14.110	57.40	16.0	0.9
70.0	229.6	14.180	57.52	14.0	0.8
75.0	246.0	14.250	57.65	14.0	0.8
80.0	262.4	14.330	57.79	16.0	0.9
85.0	278.8	14.410	57.94	16.0	0.9
90.0	295.2	14.480	58.06	14.0	0.8
95.0	311.6	14.550	58.19	14.0	0.8
100.0	328.0	14.610	58.30	12.0	0.7
105.0	344.4	14.690	58.44	16.0	0.9
110.0	360.8	14.760	58.57	14.0	0.8
115.0	377.2	14.820	58.68	12.0	0.7
120.0	393.6	14.890	58.80	14.0	0.8
125.0	410.0	14.950	58.91	12.0	0.7
130.0	426.4	15.020	59.04	14.0	0.8
135.0	442.8	15.070	59.13	10.0	0.5
140.0	459.2	15.140	59.25	14.0	0.8
145.0	475.6	15.200	59.36	12.0	0.7
150.0	492.0	15.260	59.47	12.0	0.7

LOCATION: MEDFORD AMS, OREGON
 36S/ 2W-31DD
 HOLE NUMBER: WILLOWCK
 DATE MEASURED: 8/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	14.570	58.23	0.0	0.0
15.0	49.2	14.580	58.24	2.0	0.1
20.0	65.6	14.590	58.26	2.0	0.1
25.0	82.0	14.560	58.21	-6.0	-0.3
30.0	98.4	14.540	58.17	-4.0	-0.2
35.0	114.8	14.530	58.15	-2.0	-0.1
40.0	131.2	14.520	58.14	-2.0	-0.1

LOCATION: MEDFORD AMS, OREGON
36S/ 1E-18CC
HOLE NUMBER: OWENS
DATE MEASURED: 8/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	13.480	56.26	0.0	0.0
10.0	32.8	13.590	56.46	22.0	1.2
15.0	49.2	13.810	56.86	44.0	2.4
20.0	65.6	14.020	57.24	42.0	2.3
25.0	82.0	14.230	57.61	42.0	2.3
30.0	98.4	14.380	57.88	30.0	1.6
35.0	114.8	14.550	58.19	34.0	1.9
40.0	131.2	14.690	58.44	28.0	1.5
45.0	147.6	14.830	58.69	28.0	1.5

LOCATION: KLAMATH FALLS AMS, ORE
 36S/19E-33AD
 HOLE NUMBER: BEARFLT1
 DATE MEASURED: 9/ 1/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
50.0	164.0	4.890	40.80	0.0	0.0
55.0	180.4	4.890	40.80	0.0	0.0
60.0	196.8	4.940	40.89	10.0	0.5
65.0	213.2	5.000	41.00	12.0	0.7
70.0	229.6	5.050	41.09	10.0	0.5
75.0	246.0	5.130	41.23	16.0	0.9
80.0	262.4	5.220	41.40	18.0	1.0
85.0	278.8	5.300	41.54	16.0	0.9
90.0	295.2	5.390	41.70	18.0	1.0
95.0	311.6	5.500	41.90	22.0	1.2
100.0	328.0	5.610	42.10	22.0	1.2
105.0	344.4	5.720	42.30	22.0	1.2
110.0	360.8	5.850	42.53	26.0	1.4
115.0	377.2	5.990	42.78	28.0	1.5
120.0	393.6	6.120	43.02	26.0	1.4
125.0	410.0	6.260	43.27	28.0	1.5
130.0	426.4	6.420	43.56	32.0	1.8
135.0	442.8	6.570	43.83	30.0	1.6
140.0	459.2	6.720	44.10	30.0	1.6
145.0	475.6	6.870	44.37	30.0	1.6
150.0	492.0	7.020	44.64	30.0	1.6
155.0	508.4	7.160	44.89	28.0	1.5
160.0	524.8	7.300	45.14	28.0	1.5
165.0	541.2	7.440	45.39	28.0	1.5
170.0	557.6	7.590	45.66	30.0	1.6
175.0	574.0	7.730	45.91	28.0	1.5
180.0	590.4	7.900	46.22	34.0	1.9
185.0	606.8	8.020	46.44	24.0	1.3
190.0	623.2	8.190	46.74	34.0	1.9
195.0	639.6	8.340	47.01	30.0	1.6
200.0	656.0	8.470	47.25	26.0	1.4
205.0	672.4	8.600	47.48	26.0	1.4
210.0	688.8	8.710	47.68	22.0	1.2
215.0	705.2	8.810	47.86	20.0	1.1
220.0	721.6	8.880	47.98	14.0	0.8
225.0	738.0	8.950	48.11	14.0	0.8
230.0	754.4	9.000	48.20	10.0	0.5
235.0	770.8	9.020	48.24	4.0	0.2
240.0	787.2	8.960	48.13	-12.0	-0.7
245.0	803.6	8.850	47.93	-22.0	-1.2
250.0	820.0	8.800	47.84	-10.0	-0.5
255.0	836.4	8.880	47.98	16.0	0.9
260.0	852.8	9.000	48.20	24.0	1.3
265.0	869.2	9.220	48.60	44.0	2.4

LOCATION: MEDFORD AMS, OREGON
 37S/ 2W-97CB
 HOLE NUMBER: JCKSNVIL
 DATE MEASURED: 8/10/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.010	55.42	0.0	0.0
15.0	49.2	13.280	55.90	54.0	3.0
20.0	65.6	13.580	56.44	60.0	3.3
25.0	82.0	13.730	56.71	30.0	1.6
30.0	98.4	13.800	56.84	14.0	0.8
35.0	114.8	13.890	57.00	18.0	1.0
40.0	131.2	13.990	57.18	20.0	1.1

LOCATION: MEDFORD AMS, OREGON
 375/ 14-58BC
 HOLE NUMBER: PHOEN BL
 DATE MEASURED: 8/ 9/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	13.170	55.71	0.0	0.0
15.0	49.2	13.470	56.25	60.0	3.3
20.0	65.6	13.700	56.66	46.0	2.5
25.0	82.0	13.900	57.02	40.0	2.2
30.0	98.4	14.060	57.31	32.0	1.8
35.0	114.8	14.230	57.61	34.0	1.9
40.0	131.2	14.420	57.96	38.0	2.1
45.0	147.6	14.640	58.35	44.0	2.4
50.0	164.0	14.820	58.68	36.0	2.0
55.0	180.4	15.000	59.00	36.0	2.0
60.0	196.8	15.130	59.23	26.0	1.4
65.0	213.2	15.330	59.59	40.0	2.2
70.0	229.6	15.480	59.86	30.0	1.6
75.0	246.0	15.650	60.17	34.0	1.9
80.0	262.4	15.750	60.35	20.0	1.1
85.0	278.8	15.870	60.57	24.0	1.3
90.0	295.2	15.980	60.76	22.0	1.2
95.0	311.6	16.090	60.96	22.0	1.2
100.0	328.0	16.210	61.18	24.0	1.3
105.0	344.4	16.310	61.36	20.0	1.1
110.0	360.8	16.430	61.57	24.0	1.3
115.0	377.2	16.540	61.77	22.0	1.2
120.0	393.6	16.690	62.04	30.0	1.6
125.0	410.0	16.840	62.31	30.0	1.6
130.0	426.4	16.960	62.53	24.0	1.3
135.0	442.8	17.100	62.78	28.0	1.5
140.0	459.2	17.230	63.01	26.0	1.4
145.0	475.6	17.360	63.25	26.0	1.4
150.0	492.0	17.470	63.45	22.0	1.2
155.0	508.4	17.600	63.68	26.0	1.4
160.0	524.8	17.720	63.90	24.0	1.3
165.0	541.2	17.850	64.13	26.0	1.4
170.0	557.6	17.960	64.33	22.0	1.2
175.0	574.0	18.090	64.56	26.0	1.4
180.0	590.4	18.210	64.78	24.0	1.3
185.0	606.8	18.340	65.01	26.0	1.4
190.0	623.2	18.460	65.23	24.0	1.3
195.0	639.6	18.590	65.46	26.0	1.4
200.0	656.0	18.710	65.68	24.0	1.3
205.0	672.4	18.840	65.91	26.0	1.4
210.0	688.8	19.140	66.45	60.0	3.3
220.0	721.6	19.310	66.76	17.0	0.9

LOCATION: KLAMATH FALLS AMS, ORE
 37S/18E-25AB
 HOLE NUMBER: LUCKLS1
 DATE MEASURED: 8/31/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	6.840	44.31	0.0	0.0
12.5	41.0	7.050	44.69	84.0	4.6
15.0	49.2	7.100	44.78	20.0	1.1
17.5	57.4	7.160	44.89	24.0	1.3
20.0	65.6	7.220	45.00	24.0	1.3
22.5	73.8	7.310	45.16	36.0	2.0
25.0	82.0	7.400	45.32	36.0	2.0
27.5	90.2	7.510	45.52	44.0	2.4
30.0	98.4	7.610	45.70	40.0	2.2
32.5	106.6	7.720	45.90	44.0	2.4
35.0	114.8	7.840	46.11	48.0	2.6
37.5	123.0	7.950	46.31	44.0	2.4
40.0	131.2	8.060	46.51	44.0	2.4
42.5	139.4	8.200	46.76	56.0	3.1
45.0	147.6	8.350	47.03	60.0	3.3
50.0	164.0	8.620	47.52	54.0	3.0
55.0	180.4	8.880	47.98	52.0	2.9
60.0	196.8	9.170	48.51	58.0	3.2
65.0	213.2	9.480	49.06	62.0	3.4
70.0	229.6	11.470	52.65	398.0	21.8
75.0	246.0	12.310	54.16	168.0	9.2

LOCATION: KLAMATH FALLS AMS, OFE
 37S/18E-25AD
 HOLE NUMBER: LUCKYLS2
 DATE MEASURED: 8/31/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
12.5	41.0	6.830	44.29	0.0	0.0
15.0	49.2	6.930	44.47	40.0	2.2
17.5	57.4	6.980	44.56	20.0	1.1
20.0	65.6	7.070	44.73	36.0	2.0
22.5	73.8	7.170	44.91	40.0	2.2
25.0	82.0	7.280	45.10	44.0	2.4
27.5	90.2	7.450	45.41	68.0	3.7
30.0	98.4	7.560	45.61	44.0	2.4
32.5	106.6	7.630	45.73	28.0	1.5
35.0	114.8	7.650	45.77	8.0	0.4
37.5	123.0	7.780	46.00	52.0	2.9
40.0	131.2	7.930	46.27	60.0	3.3
42.5	139.4	8.070	46.53	56.0	3.1
45.0	147.6	8.200	46.76	52.0	2.9
50.0	164.0	8.320	46.98	24.0	1.3
55.0	180.4	8.430	47.17	22.0	1.2
60.0	196.8	8.620	47.52	38.0	2.1
65.0	213.2	8.820	47.88	40.0	2.2
70.0	229.6	9.170	48.51	70.0	3.8
75.0	246.0	9.290	48.72	24.0	1.3
80.0	262.4	9.720	49.50	86.0	4.7
85.0	278.8	9.940	49.89	44.0	2.4
90.0	295.2	10.400	50.72	92.0	5.0
95.0	311.6	10.830	51.49	86.0	4.7
100.0	328.0	11.130	52.03	60.0	3.3
105.0	344.4	11.640	52.95	102.0	5.6
110.0	360.8	12.220	54.00	116.0	6.4
115.0	377.2	12.890	55.20	134.0	7.4
120.0	393.6	13.620	56.52	146.0	8.0
125.0	410.0	14.280	57.70	132.0	7.2

LOCATION: KLAMATH FALLS AMS, ORE
 37S/18E-26DC
 HOLE NUMBER: THOMASCK
 DATE MEASURED: 8/31/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
15.0	49.2	11.240	52.23	0.0	0.0
20.0	65.6	11.510	52.72	54.0	3.0
22.5	73.8	11.930	53.47	168.0	9.2
25.0	82.0	12.070	53.73	56.0	3.1
27.5	90.2	12.110	53.80	16.0	0.9
30.0	98.4	12.200	53.96	36.0	2.0
32.5	106.6	12.500	54.50	120.0	6.6
35.0	114.8	12.720	54.90	88.0	4.8
37.5	123.0	12.930	55.27	84.0	4.6
40.0	131.2	13.170	55.71	96.0	5.3
42.5	139.4	13.500	56.30	132.0	7.2
45.0	147.6	13.760	56.77	104.0	5.7
50.0	164.0	14.190	57.54	86.0	4.7
55.0	180.4	14.640	58.35	90.0	4.9
60.0	196.8	15.190	59.34	110.0	6.0
65.0	213.2	15.750	60.35	112.0	6.1
70.0	229.6	16.290	61.32	108.0	5.9
75.0	246.0	16.820	62.28	106.0	5.8
80.0	262.4	17.320	63.18	100.0	5.5
85.0	278.8	17.890	64.20	114.0	6.3

LOCATION: KLAMATH FALLS AMS, ORE
 37S/19E-30DB
 HOLE NUMBER: WMK-1
 DATE MEASURED: 8/30/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	6.950	44.51	0.0	0.0
15.0	49.2	7.750	45.95	160.0	8.8
20.0	65.6	8.390	47.10	128.0	7.0
25.0	82.0	9.200	48.56	162.0	8.9
27.5	90.2	9.380	48.88	72.0	4.0
30.0	98.4	9.610	49.30	92.0	5.0
32.5	106.6	9.810	49.66	80.0	4.4
35.0	114.8	10.040	50.07	92.0	5.0
37.5	123.0	10.210	50.38	68.0	3.7
40.0	131.2	10.500	50.90	116.0	6.4
42.5	139.4	10.760	51.37	104.0	5.7
45.0	147.6	10.990	51.78	92.0	5.0
50.0	164.0	11.380	52.48	78.0	4.3
55.0	180.4	11.700	53.06	64.0	3.5

LOCATION: MEDFORD AMS, OREGON
 385/ 2E- 7CC
 HOLE NUMBER: LITHIASP
 DATE MEASURED: 8/ 8/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
5.0	16.4	16.180	61.12	0.0	0.0
10.0	32.8	16.230	61.21	10.0	0.5
15.0	49.2	16.360	61.45	26.0	1.4
20.0	65.6	16.510	61.72	30.0	1.6
25.0	82.0	16.690	62.04	36.0	2.0
30.0	98.4	16.950	62.51	52.0	2.9
35.0	114.8	16.880	62.38	-14.0	-0.8
40.0	131.2	17.000	62.60	24.0	1.3
45.0	147.6	17.090	62.76	18.0	1.0
50.0	164.0	17.100	62.78	2.0	0.1
55.0	180.4	17.160	62.89	12.0	0.7
60.0	196.8	17.220	63.00	12.0	0.7
65.0	213.2	17.300	63.14	16.0	0.9
70.0	229.6	17.360	63.25	12.0	0.7
75.0	246.0	17.440	63.39	16.0	0.9
80.0	262.4	17.520	63.54	16.0	0.9
85.0	278.8	17.580	63.64	12.0	0.7
90.0	295.2	17.660	63.79	16.0	0.9
95.0	311.6	17.730	63.91	14.0	0.8
100.0	328.0	17.810	64.06	16.0	0.9
105.0	344.4	17.890	64.20	16.0	0.9
110.0	360.8	17.970	64.35	16.0	0.9
115.0	377.2	18.050	64.49	16.0	0.9
120.0	393.6	18.130	64.63	16.0	0.9
125.0	410.0	18.220	64.80	18.0	1.0
130.0	426.4	18.320	64.98	20.0	1.1

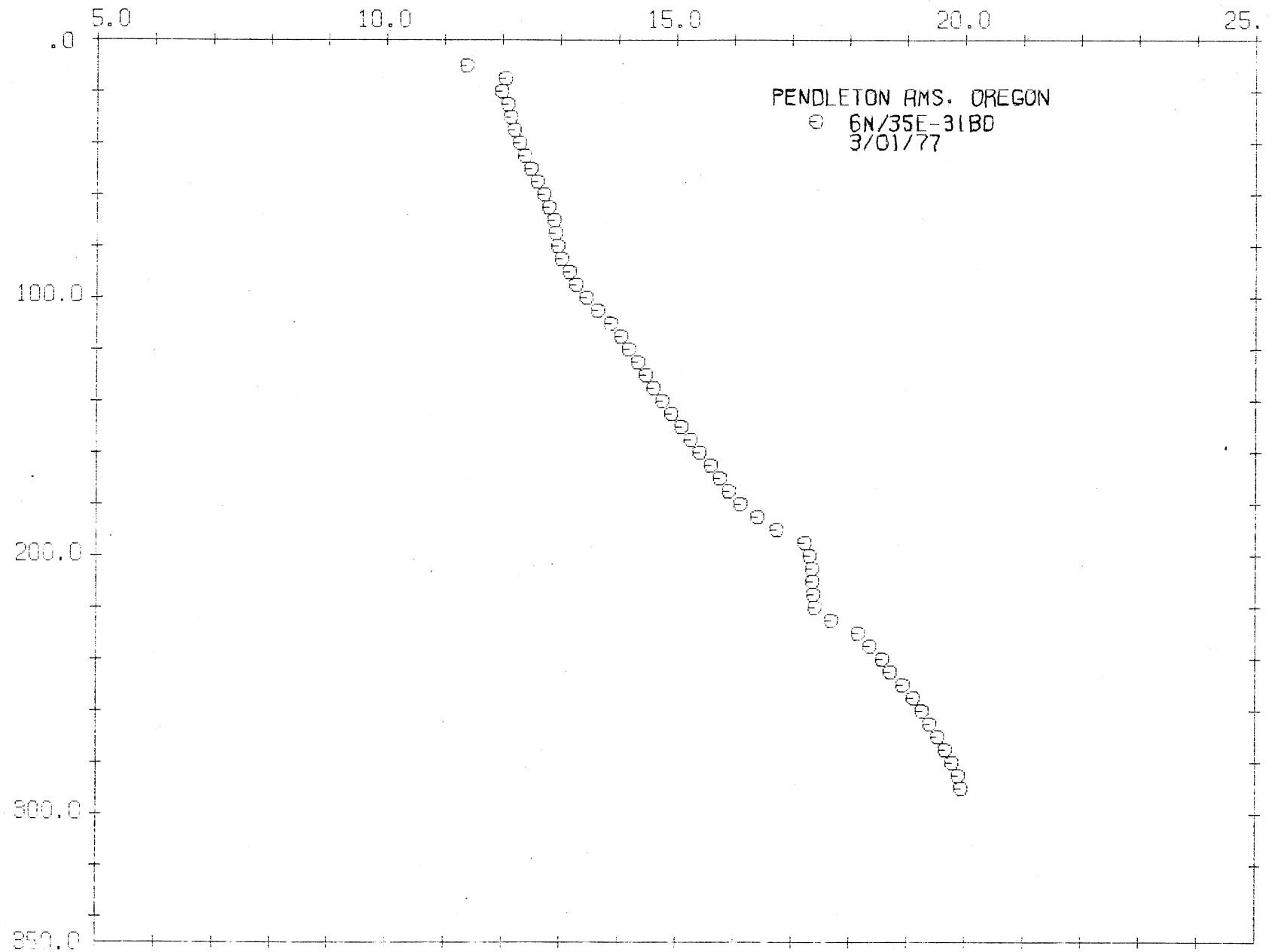
LOCATION: KLAMATH FALLS AMS, ORE
 395/ 9E- 7DA
 HOLE NUMBER: FRHUNSCH
 DATE MEASURED: 8/18/77

DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	12.150	53.87	0.0	0.0
15.0	49.2	14.520	58.14	474.0	26.0
20.0	65.6	15.800	60.44	256.0	14.0
25.0	82.0	19.790	67.62	798.0	43.8
30.0	98.4	20.240	68.43	90.0	4.9
35.0	114.8	21.040	69.87	160.0	8.8
40.0	131.2	21.950	71.51	182.0	10.0
45.0	147.6	22.890	73.20	188.0	10.3
50.0	164.0	23.160	73.69	54.0	3.0

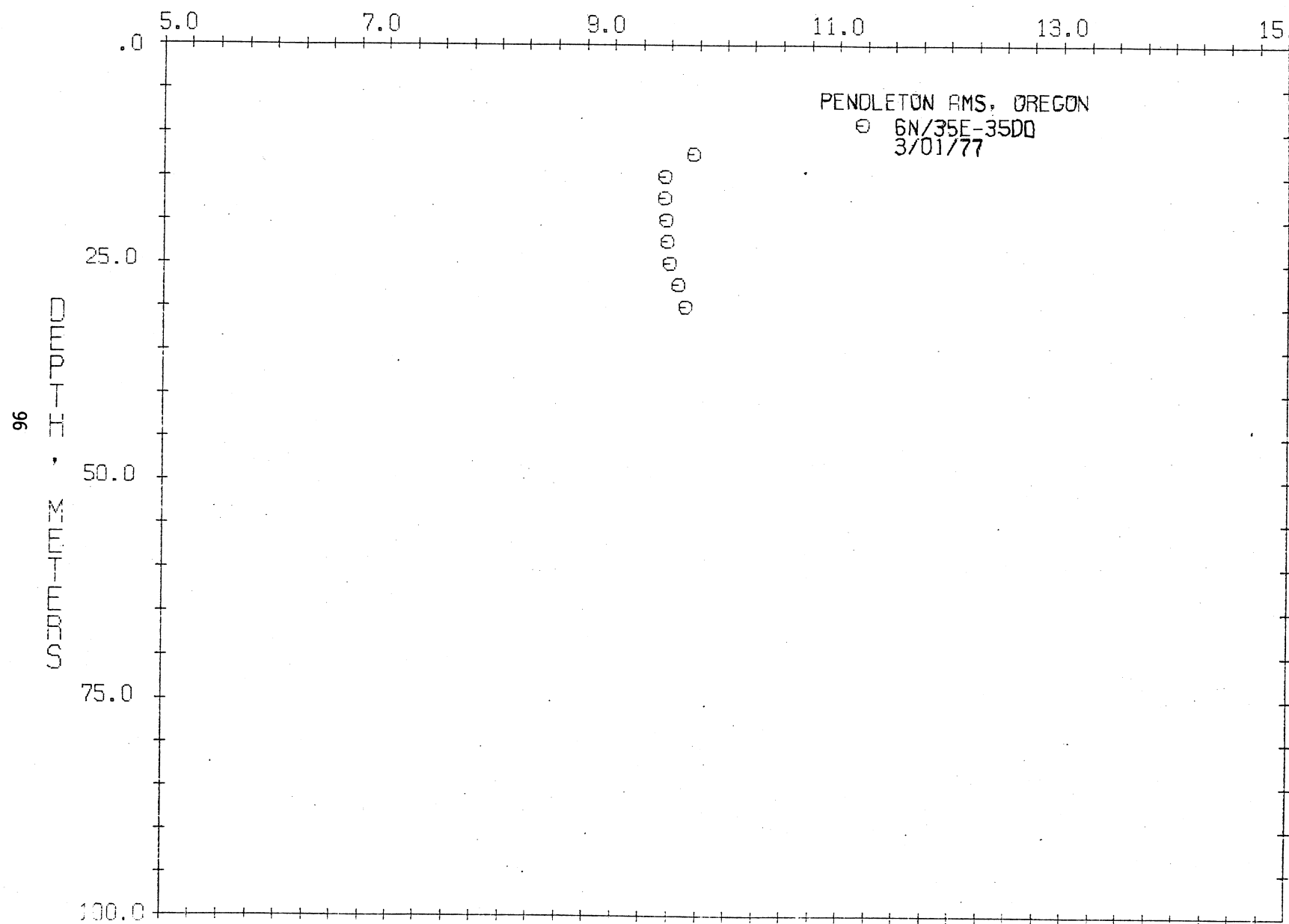
LOCATION: MEDFORD AMS, OREGON
 40S/ 7W-36AB
 HOLE NUMBER: COLESTIN
 DATE MEASURED: 8/11/77

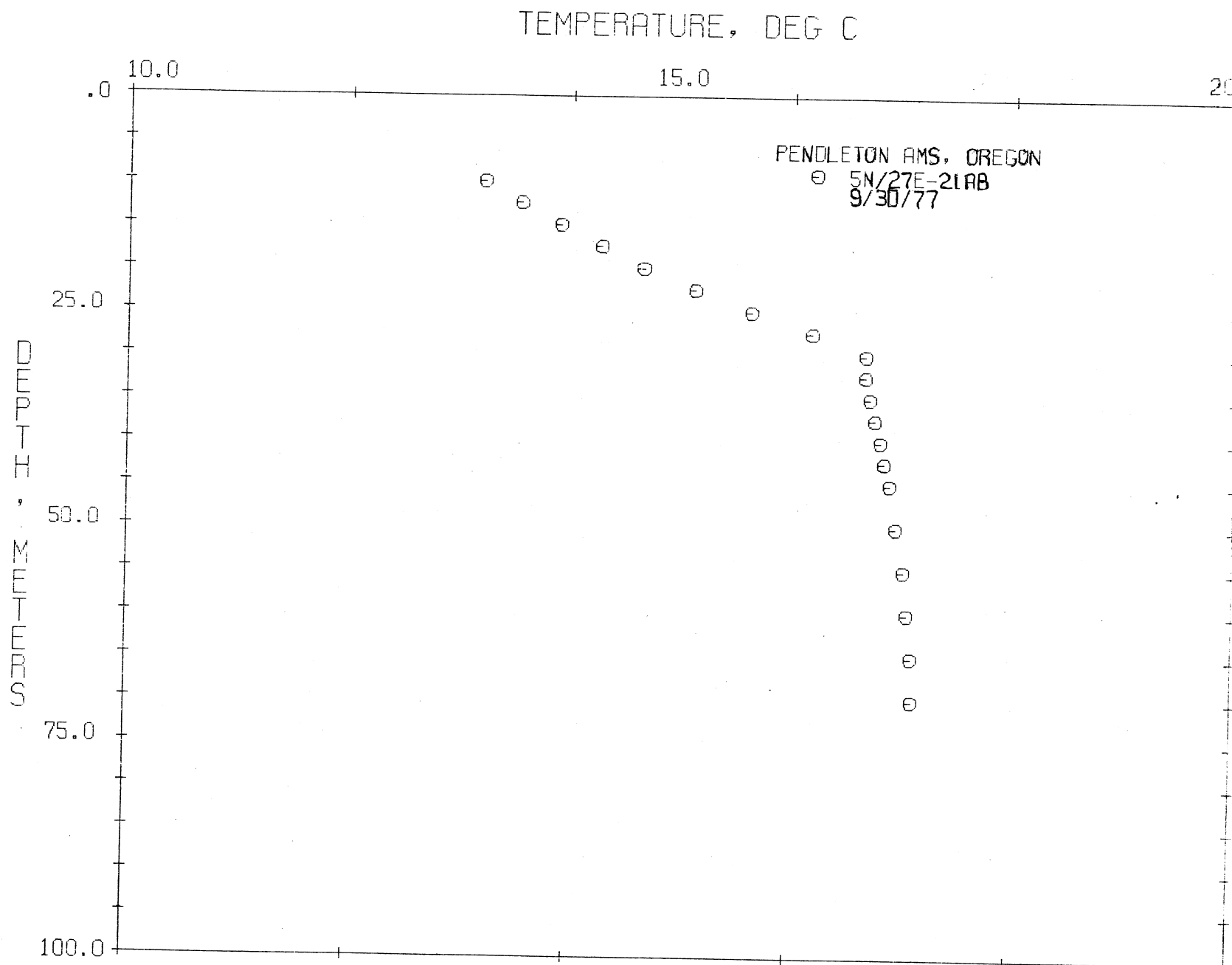
DEPTH METERS	DEPTH FEET	TEMPERATURE		GEOTHERMAL GRADIENT	
		DEG C	DEG F	DEG C/KM	DEG F/100 FT
10.0	32.8	8.840	47.91	0.0	0.0
20.0	65.6	9.200	48.56	36.0	2.0
30.0	98.4	9.320	48.78	12.0	0.7
40.0	131.2	9.700	49.46	38.0	2.1
50.0	164.0	10.020	50.04	32.0	1.8
55.0	180.4	10.190	50.34	34.0	1.9
60.0	196.8	10.750	51.35	112.0	6.1
65.0	213.2	10.800	51.44	10.0	0.5
70.0	229.6	10.880	51.58	16.0	0.9
75.0	246.0	11.000	51.80	24.0	1.3
80.0	262.4	11.120	52.02	24.0	1.3
85.0	278.8	11.280	52.30	32.0	1.8
90.0	295.2	11.450	52.61	34.0	1.9
95.0	311.6	11.620	52.92	34.0	1.9
100.0	328.0	11.780	53.20	32.0	1.8
105.0	344.4	11.920	53.46	28.0	1.6
110.0	360.8	12.070	53.73	30.0	1.6
115.0	377.2	12.220	54.00	30.0	1.6
120.0	393.6	12.350	54.23	26.0	1.4
125.0	410.0	12.470	54.45	24.0	1.3
130.0	426.4	12.550	54.59	16.0	0.9
135.0	442.8	12.630	54.73	16.0	0.9
140.0	459.2	12.770	54.99	28.0	1.5

TEMPERATURE, DEG C

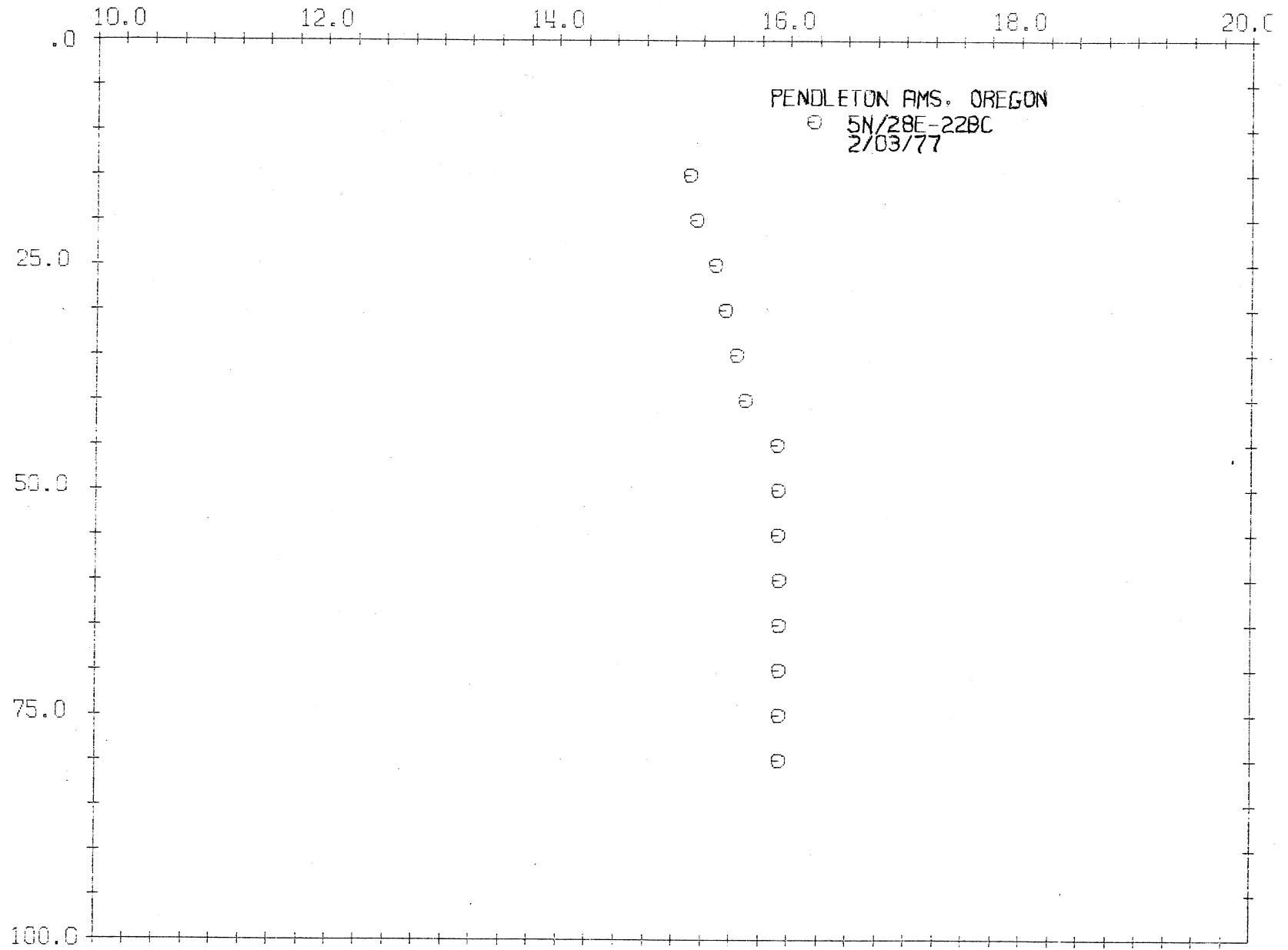


TEMPERATURE, DEG C

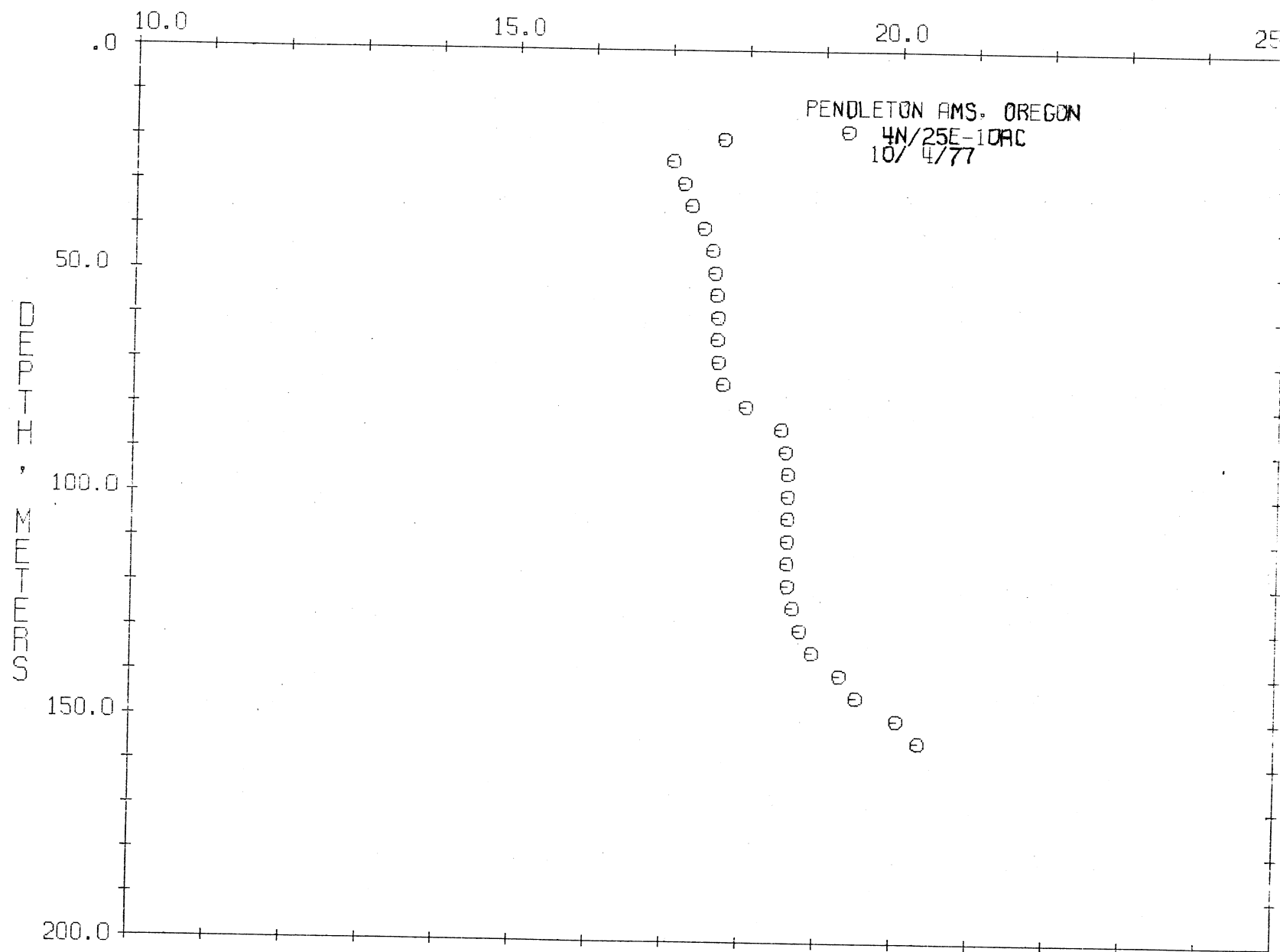




TEMPERATURE, DEG C

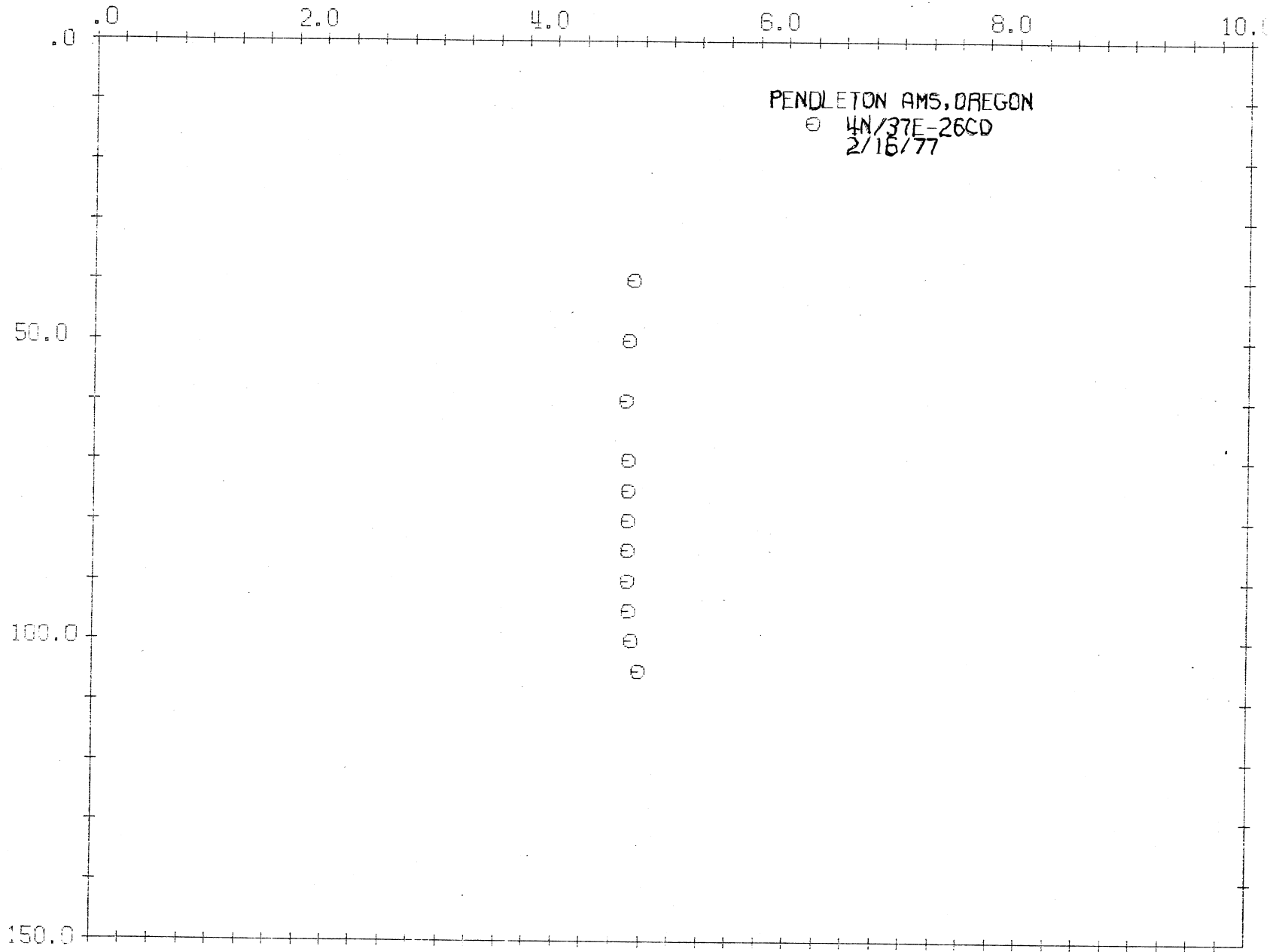


TEMPERATURE, DEG C

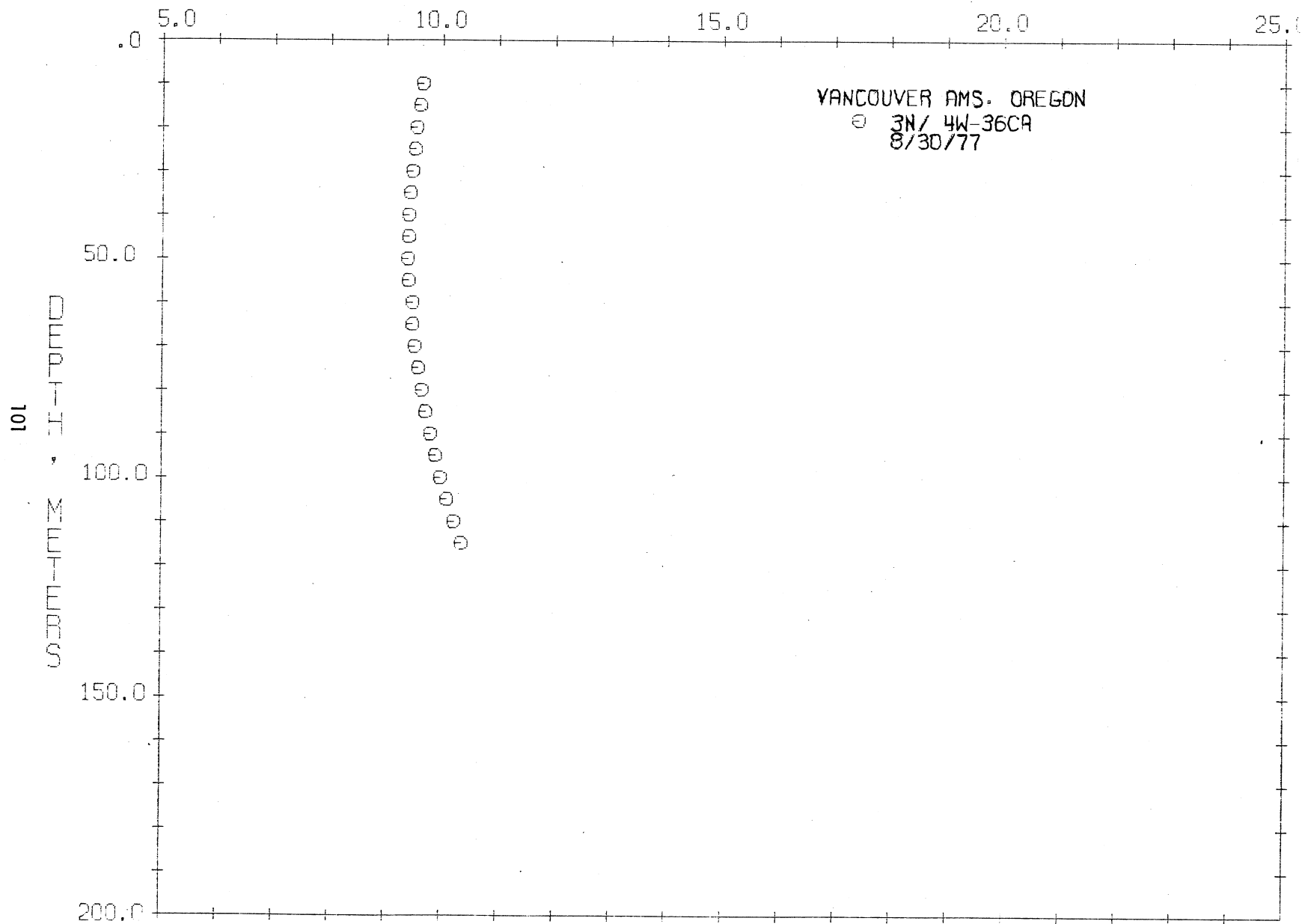


TEMPERATURE, DEG C

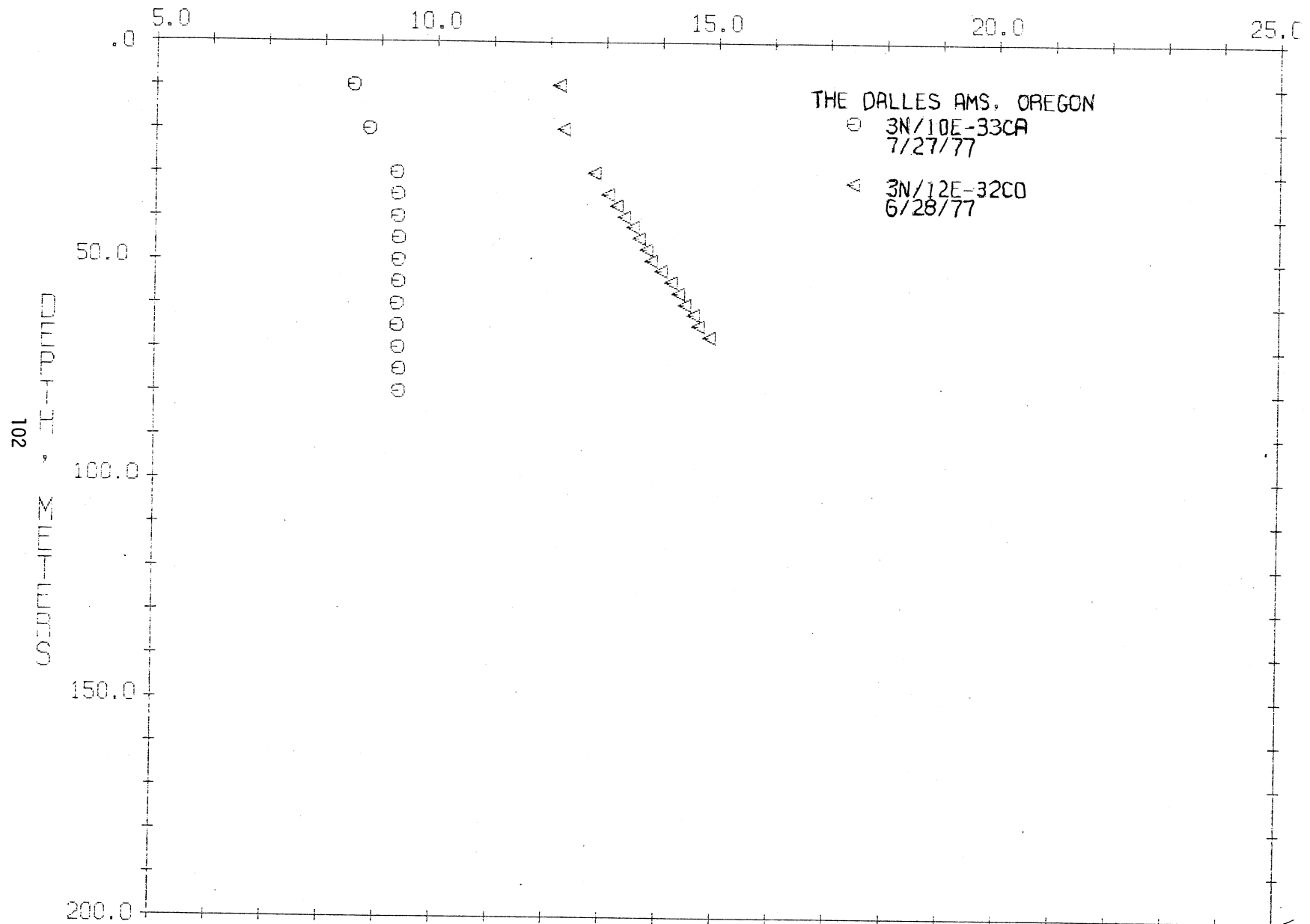
100
DEPTH - METERS



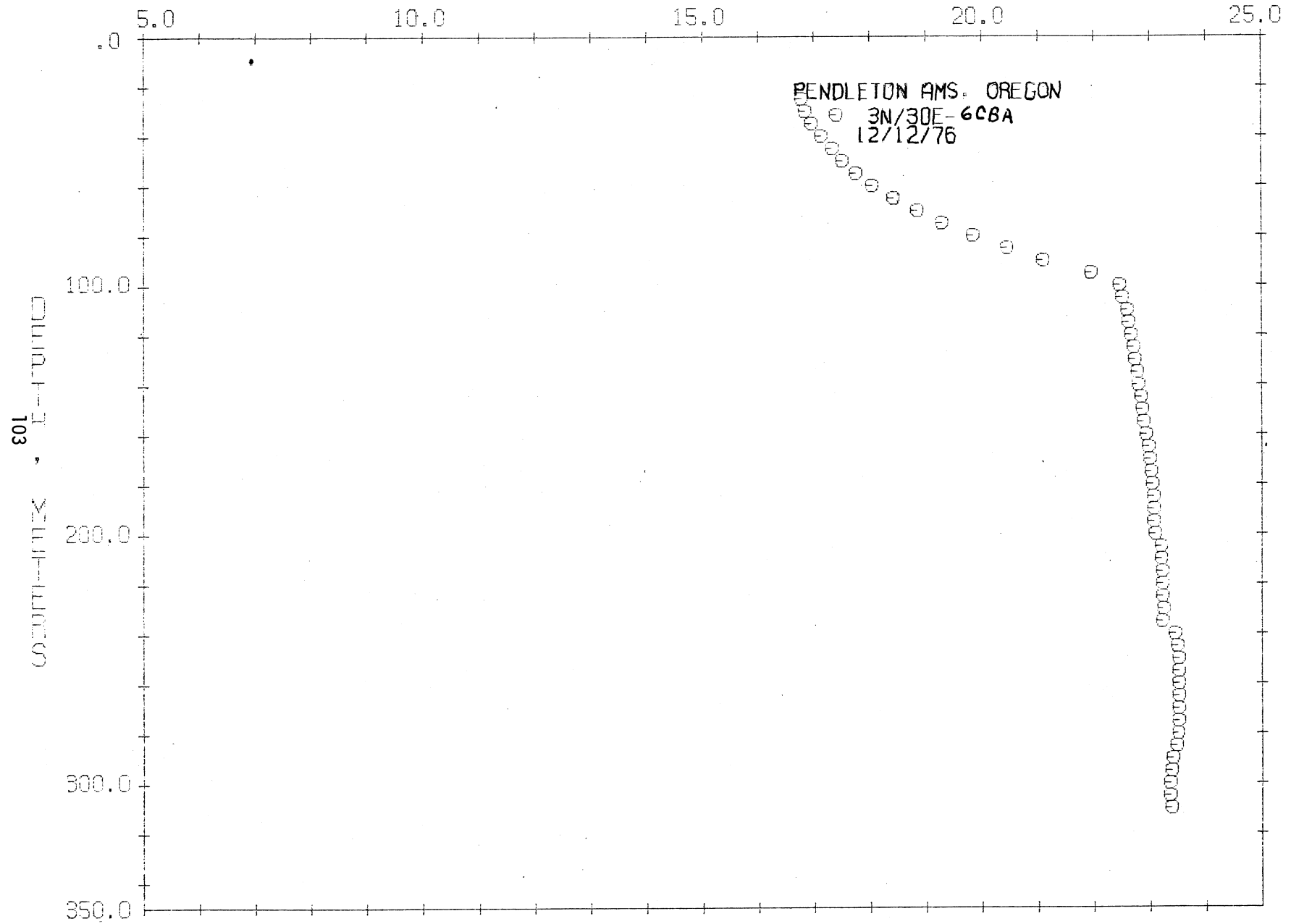
TEMPERATURE, DEG C



TEMPERATURE, DEG C

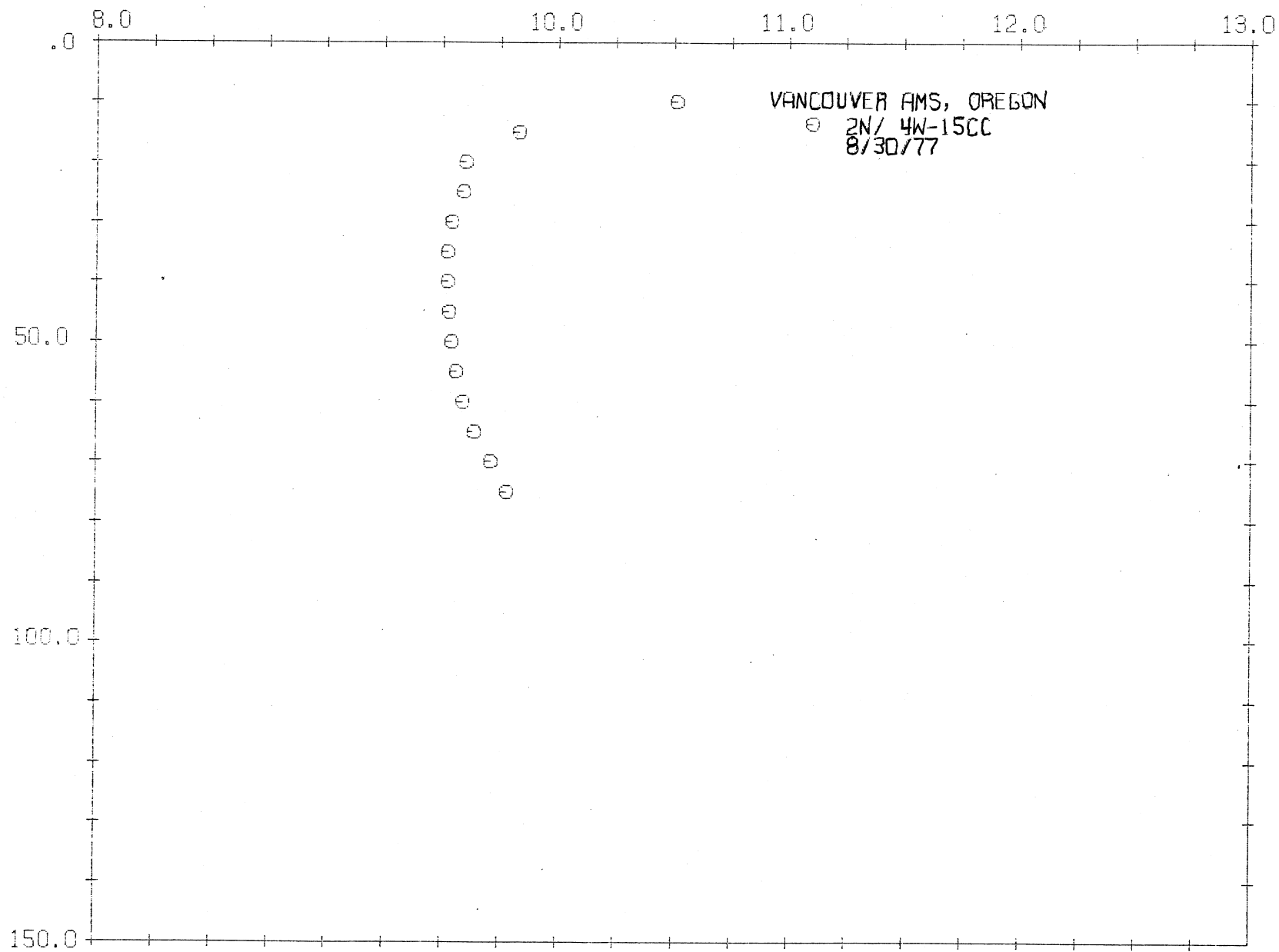


TEMPERATURE, DEG C

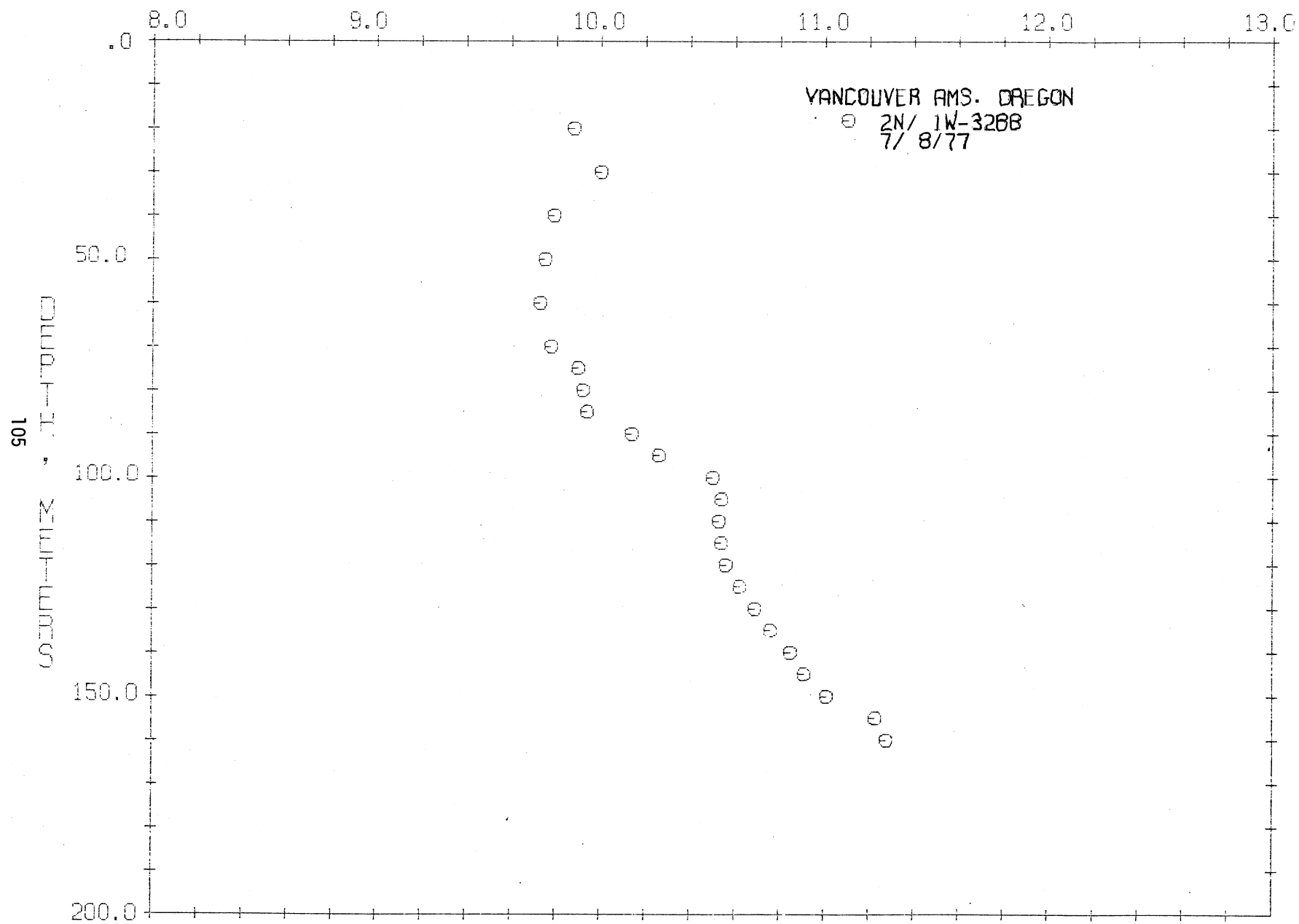


TEMPERATURE, DEG C

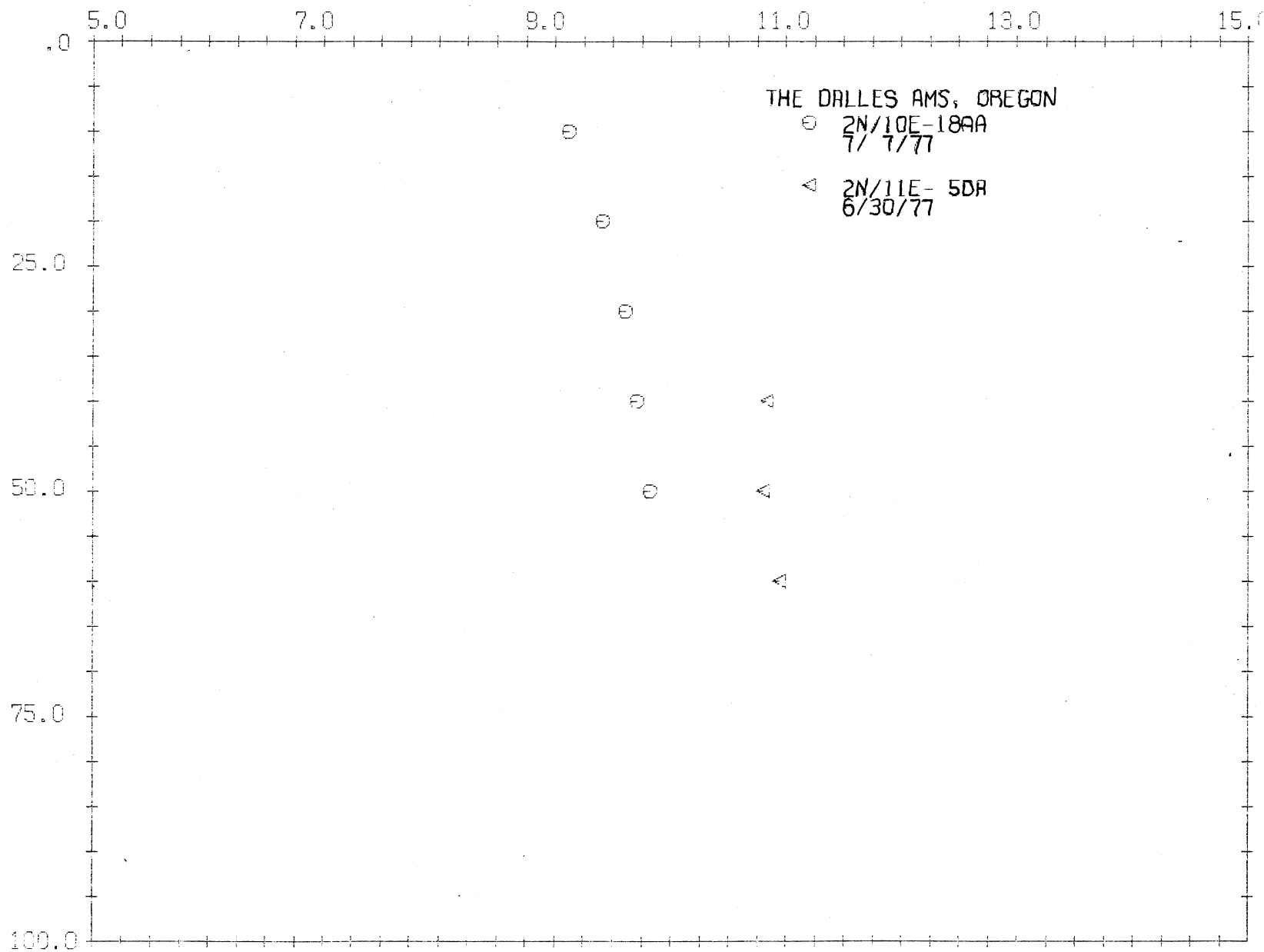
CLOUD-HIT, SECONDS
104



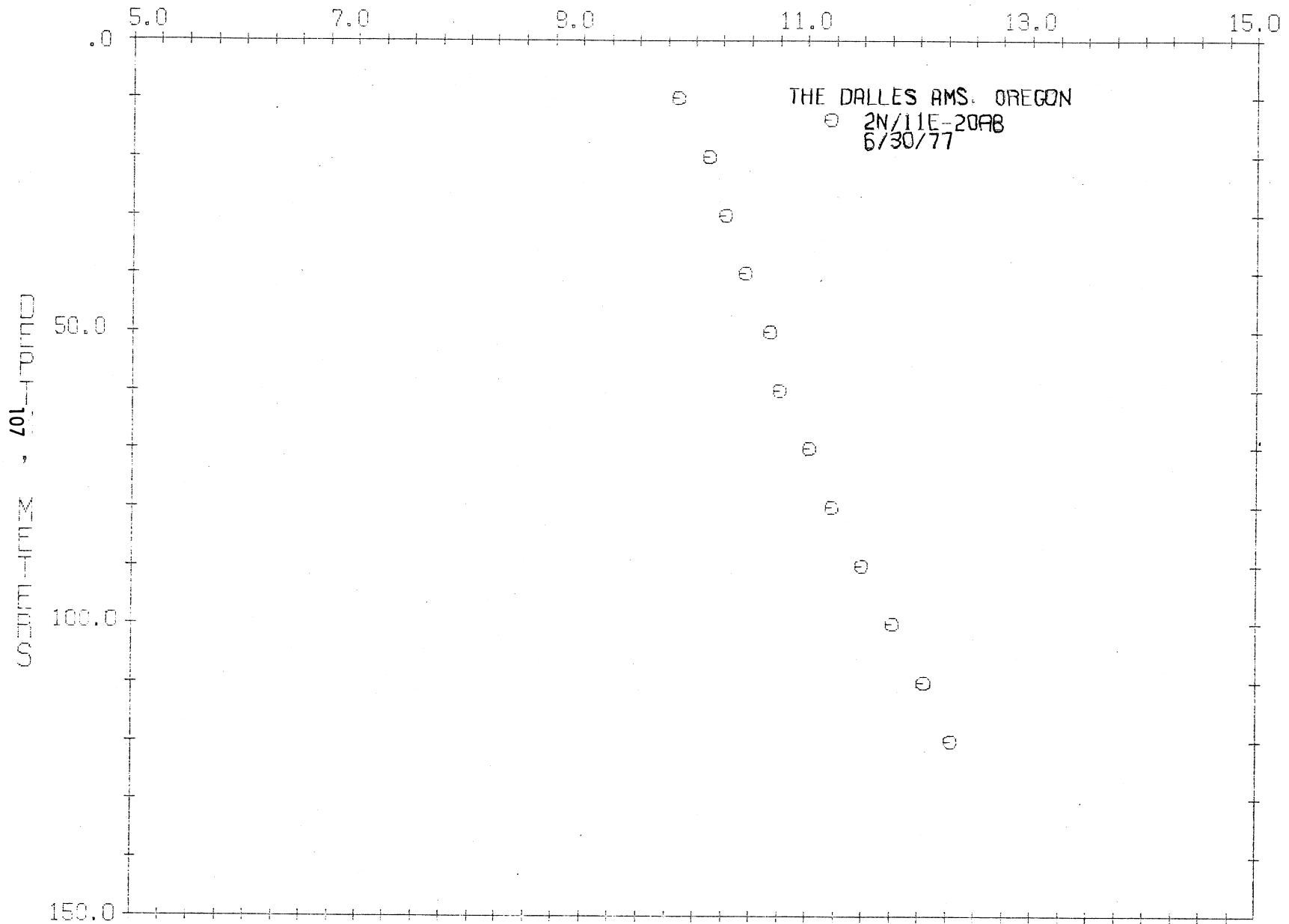
TEMPERATURE, DEG C



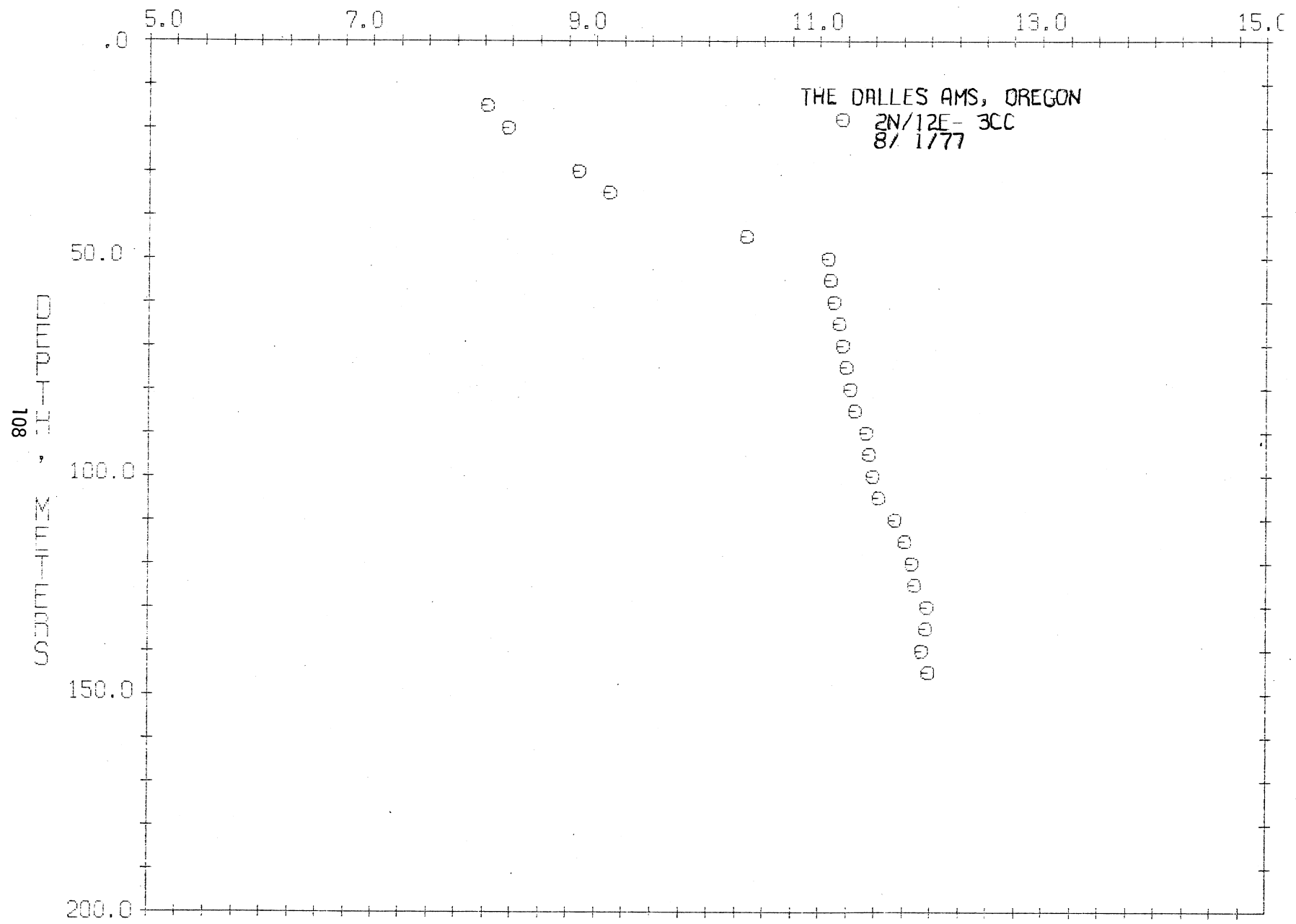
TEMPERATURE, DEG C



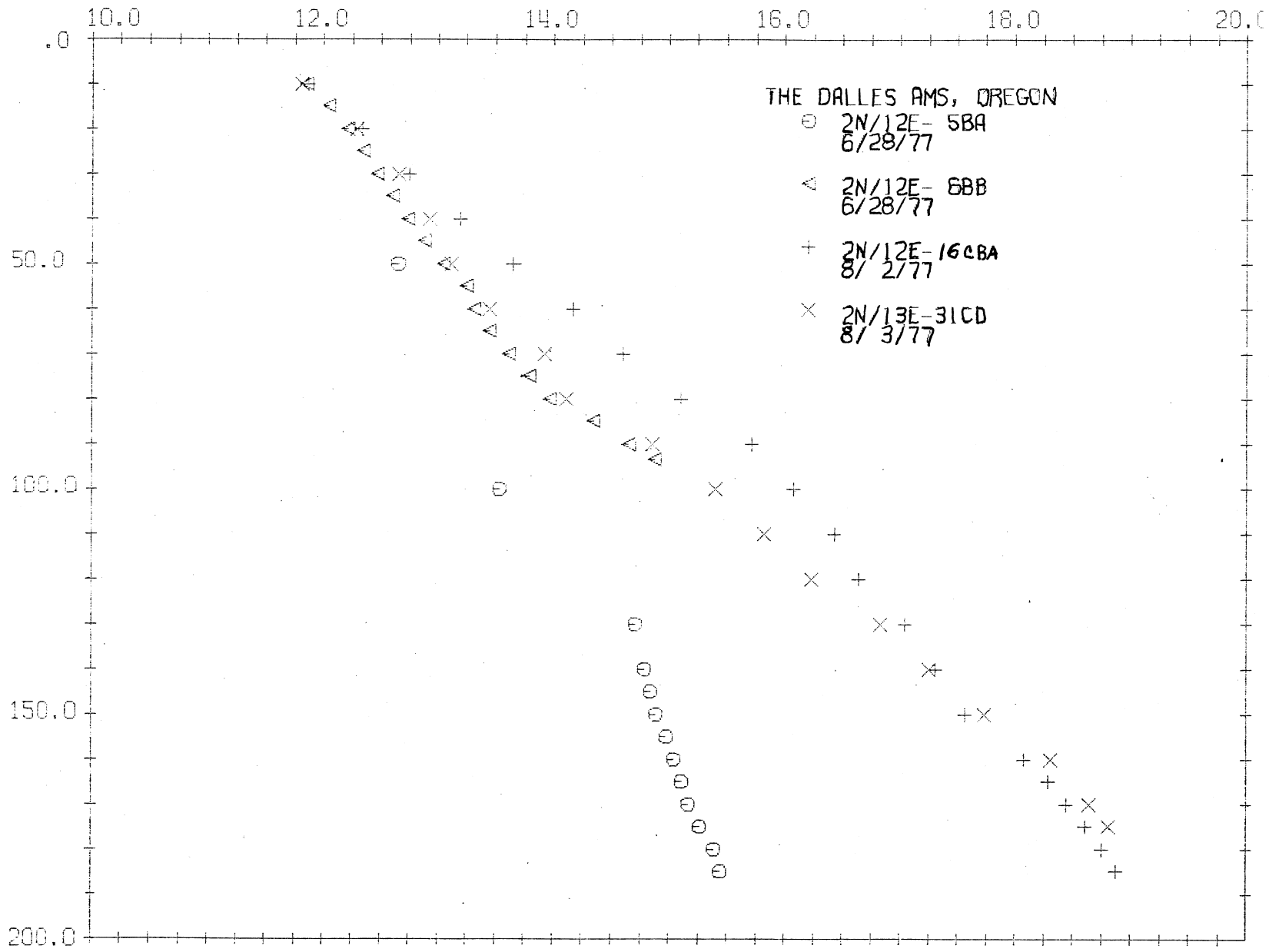
TEMPERATURE, DEG C



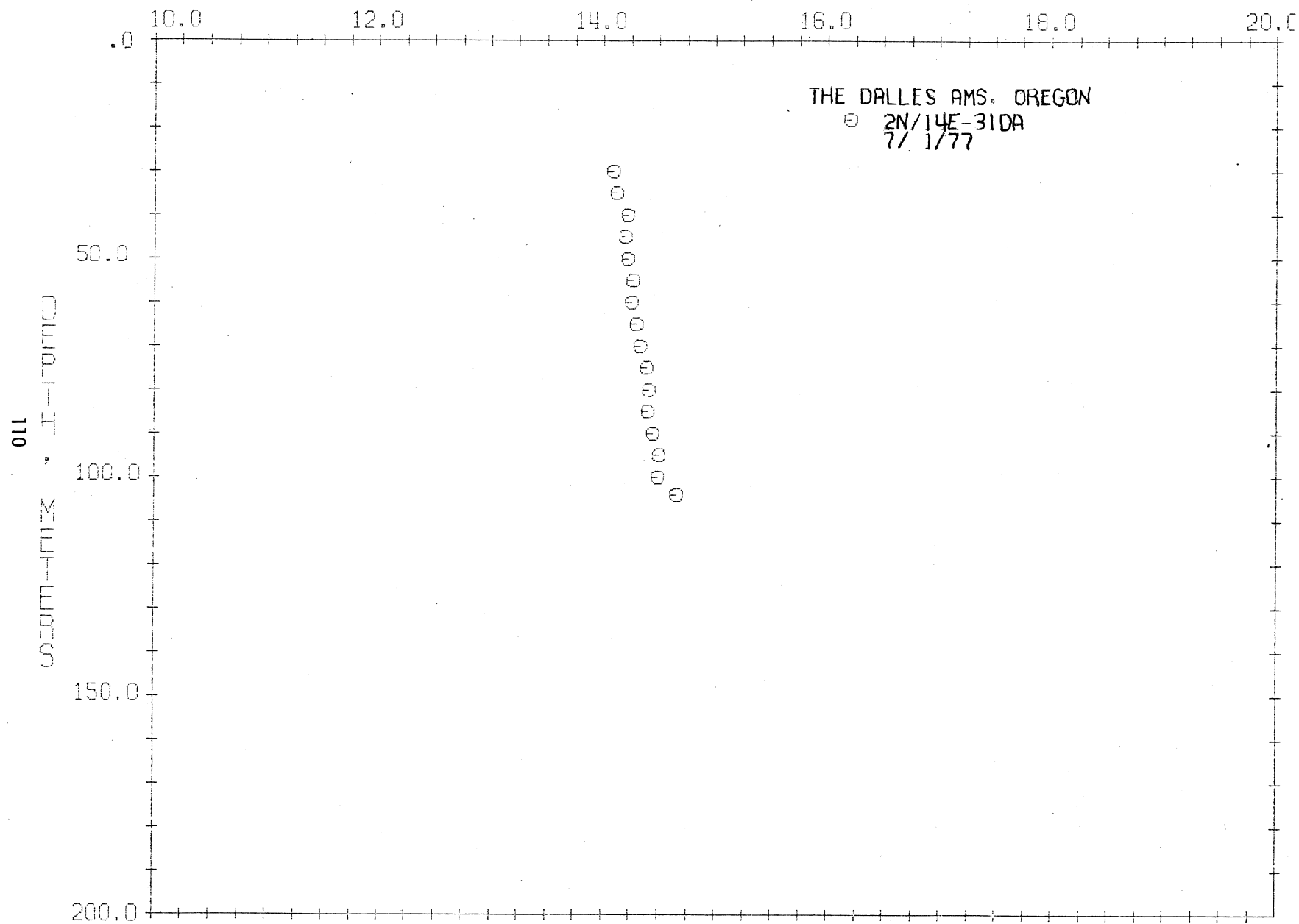
TEMPERATURE, DEG C



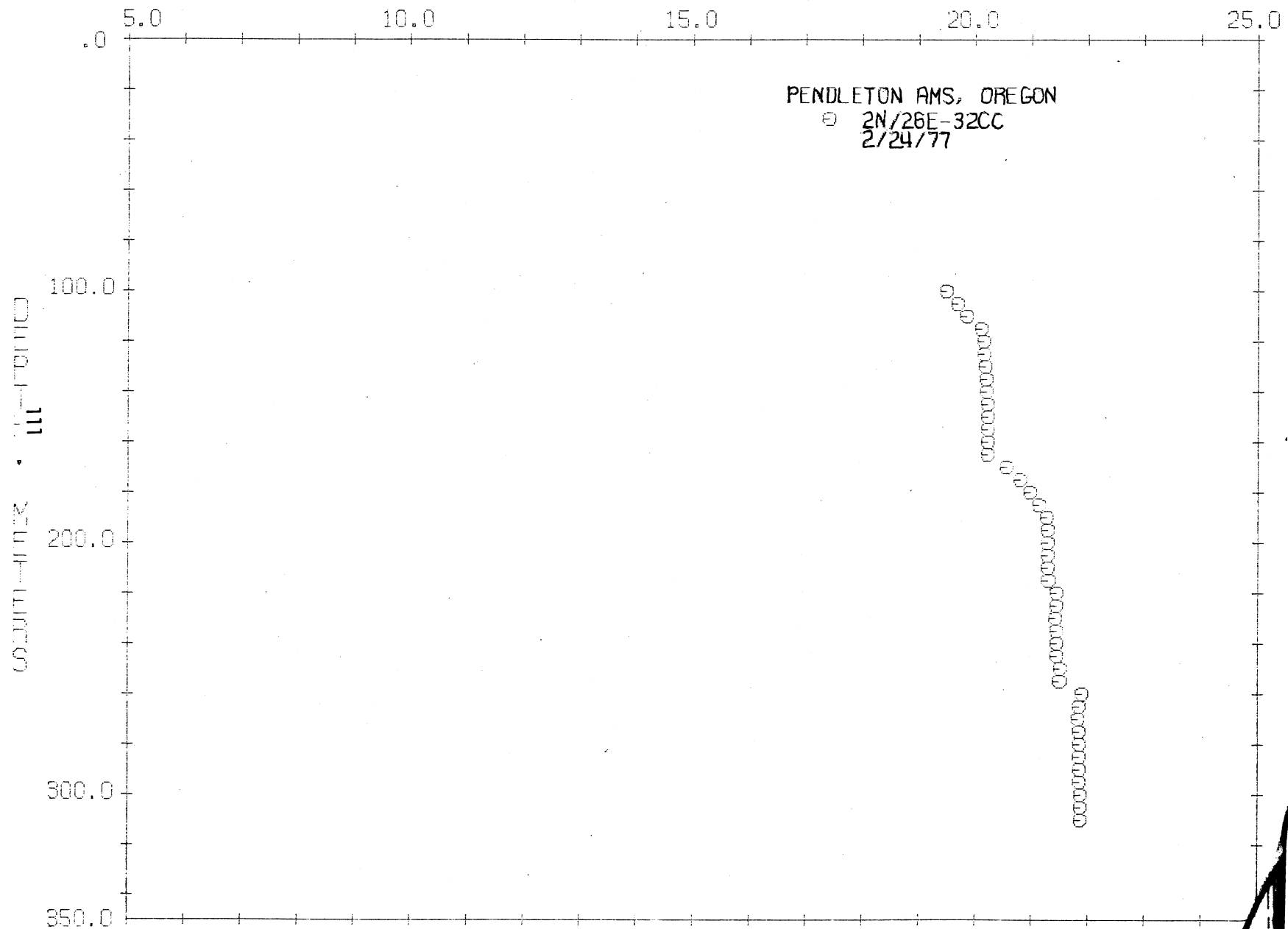
TEMPERATURE, DEG C



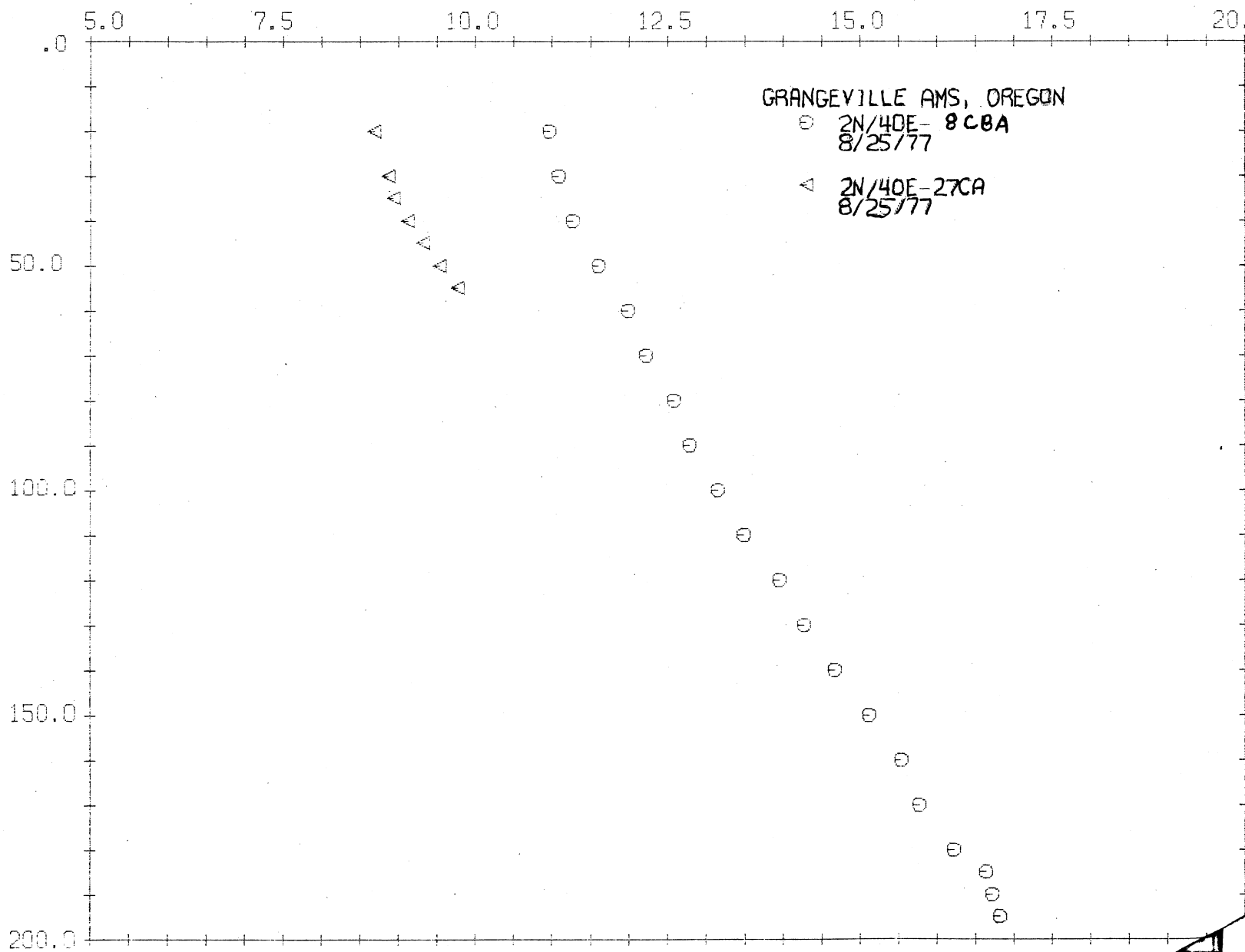
TEMPERATURE, DEG C



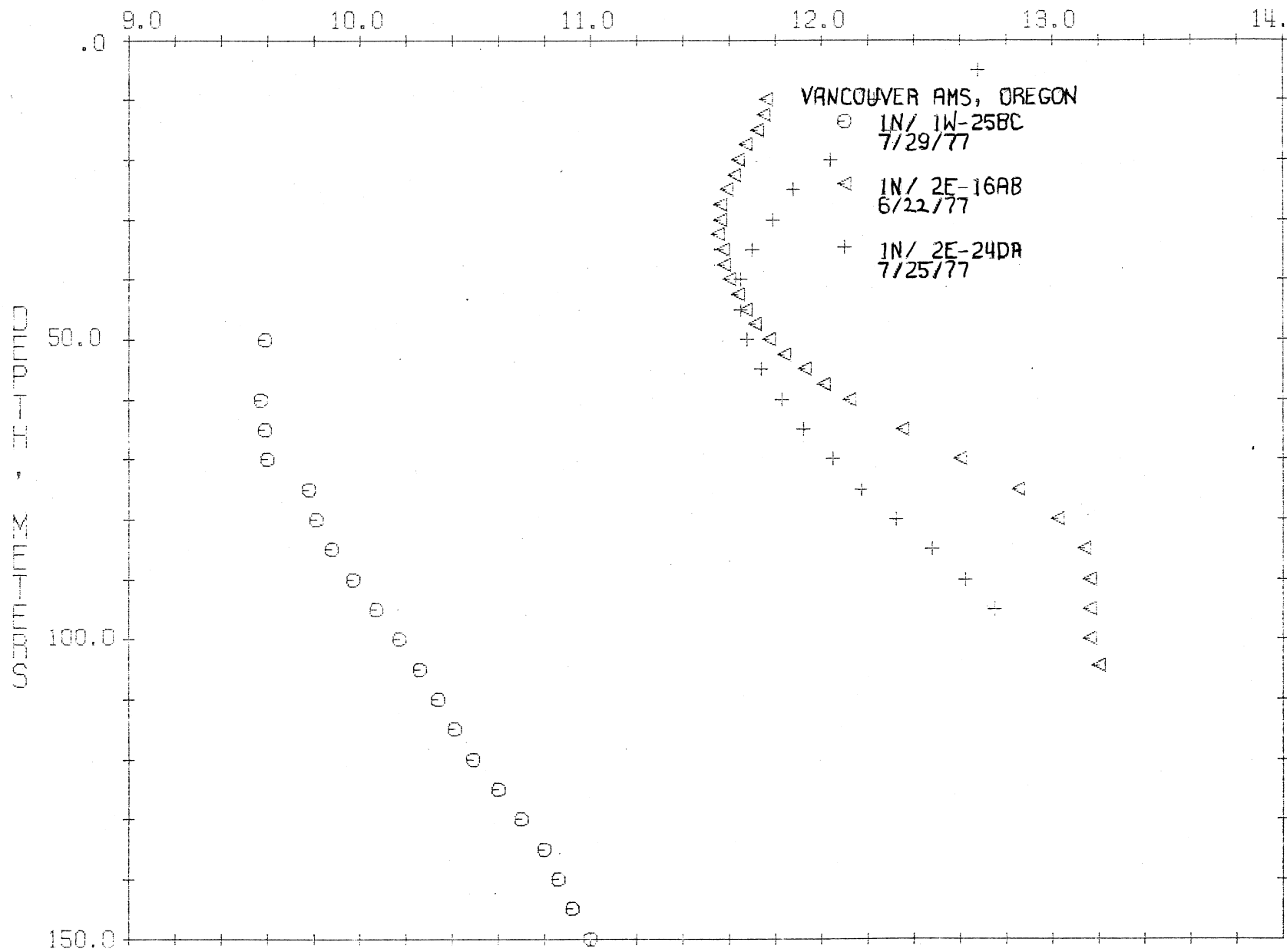
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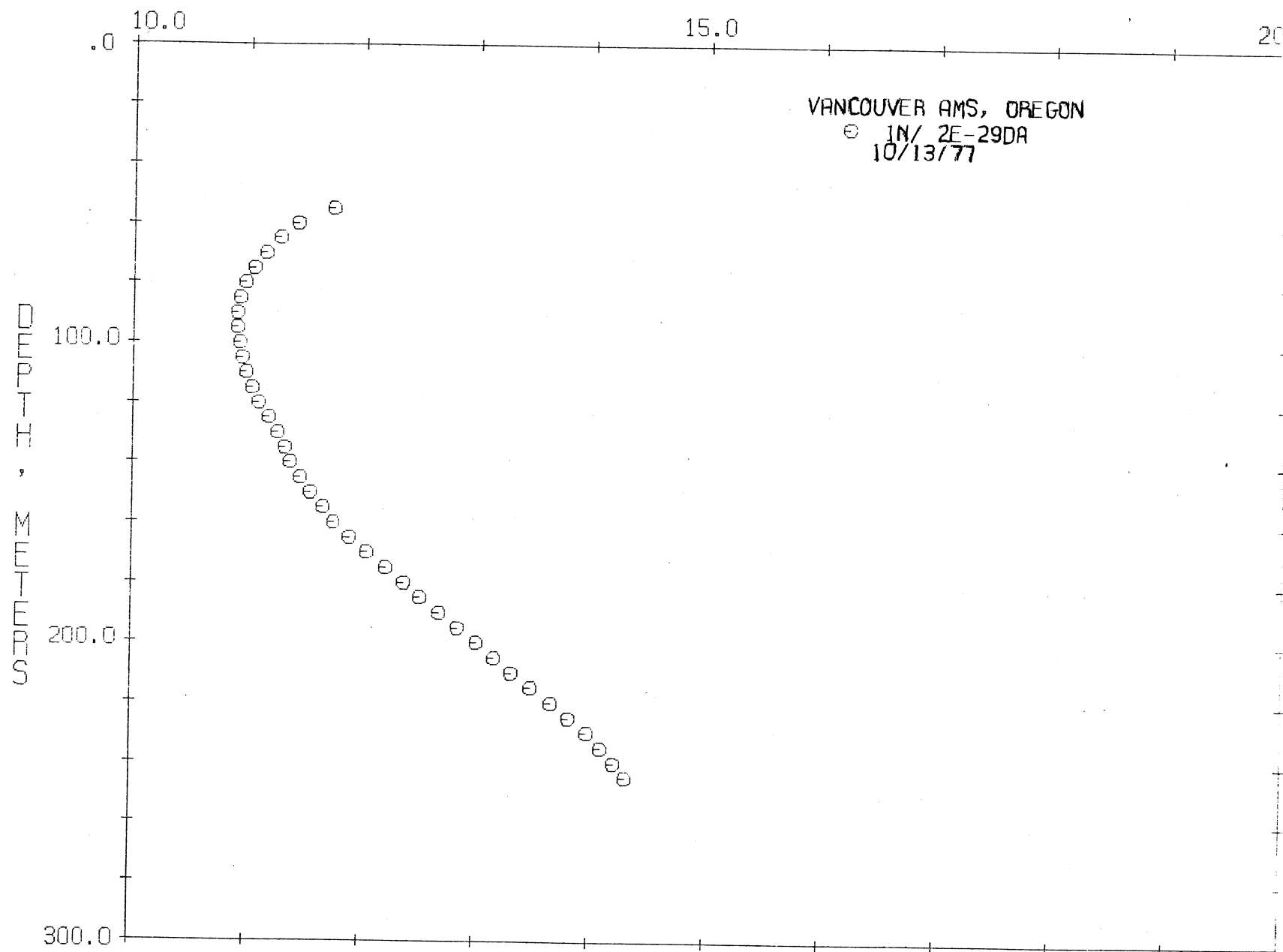
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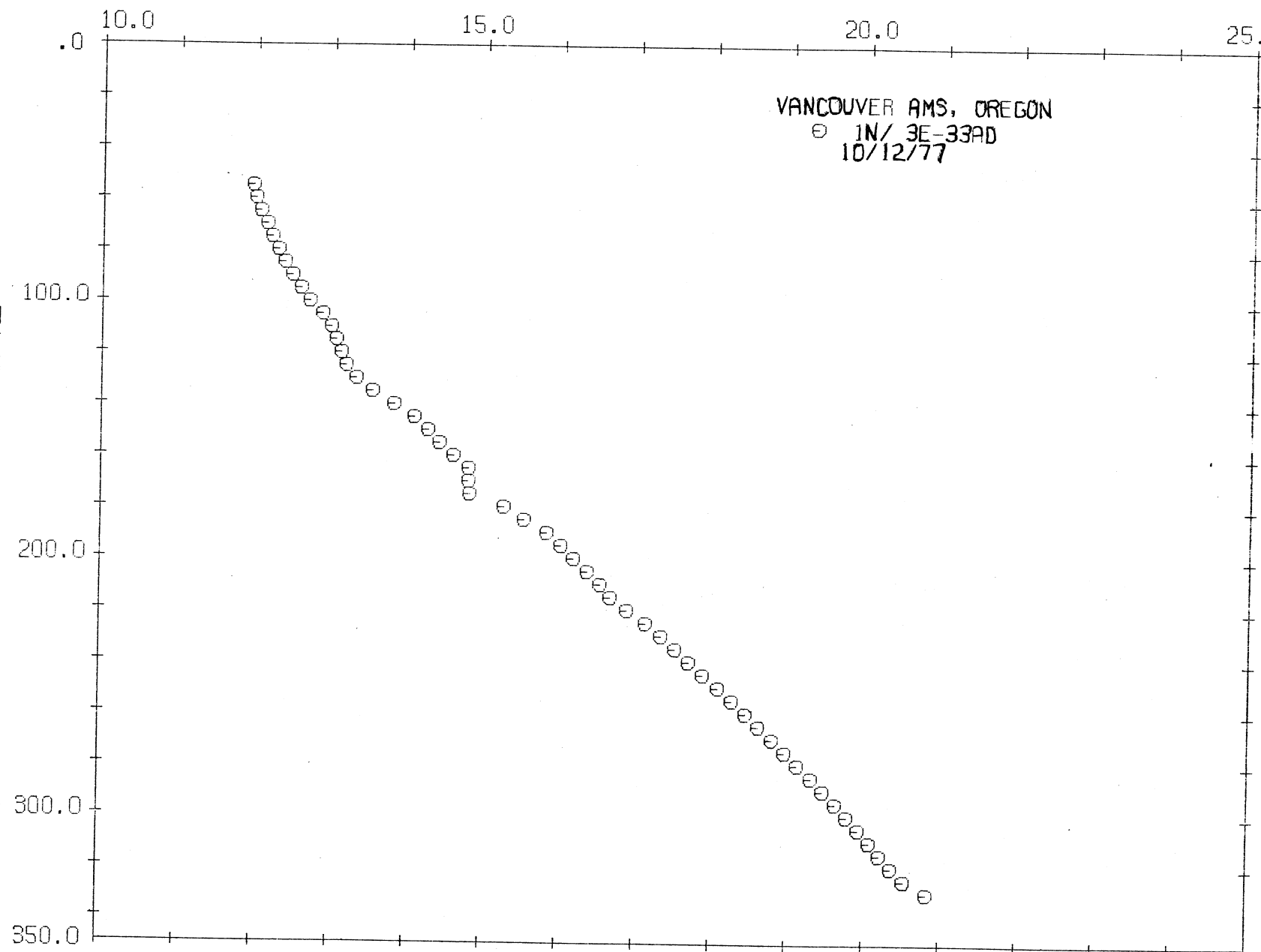
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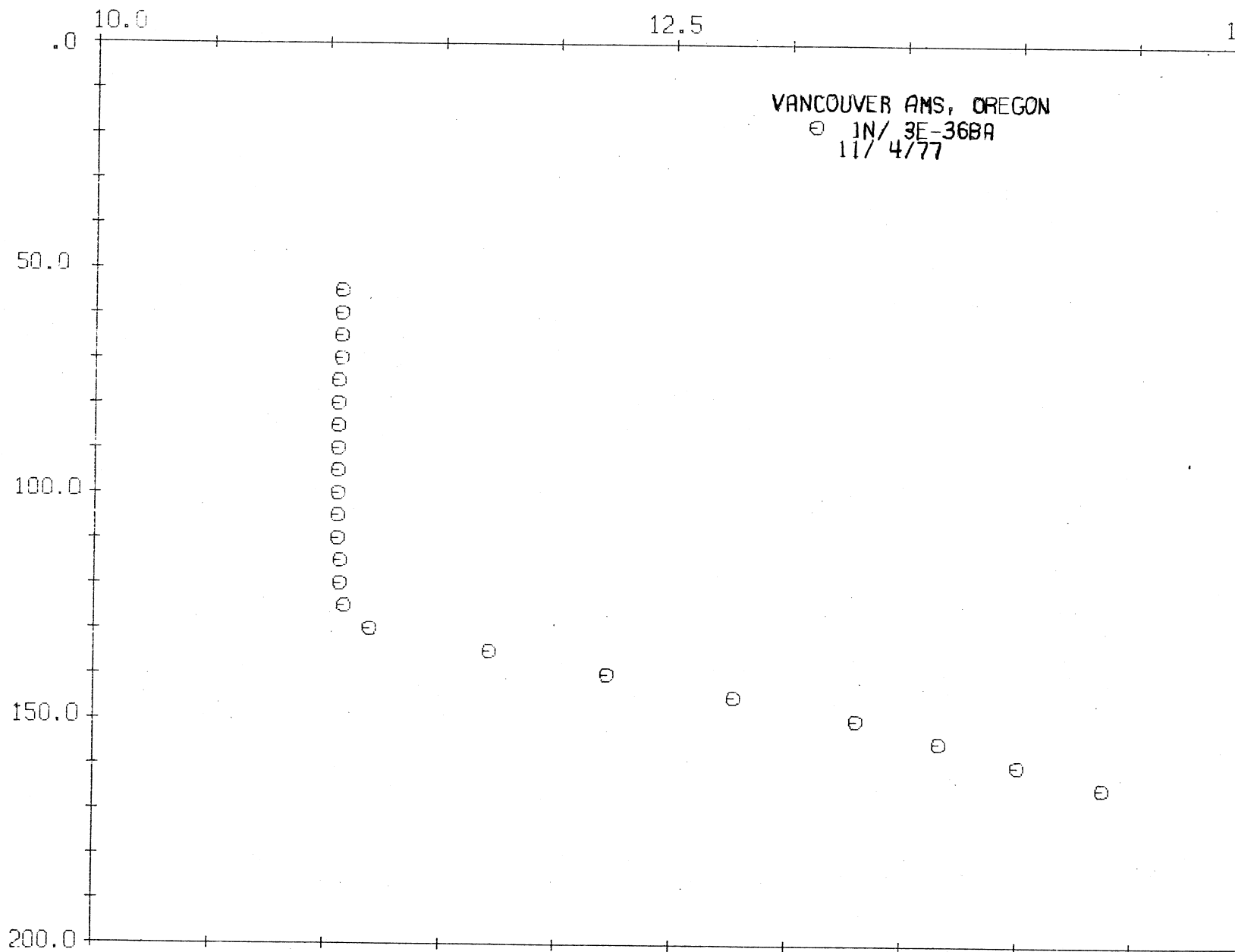
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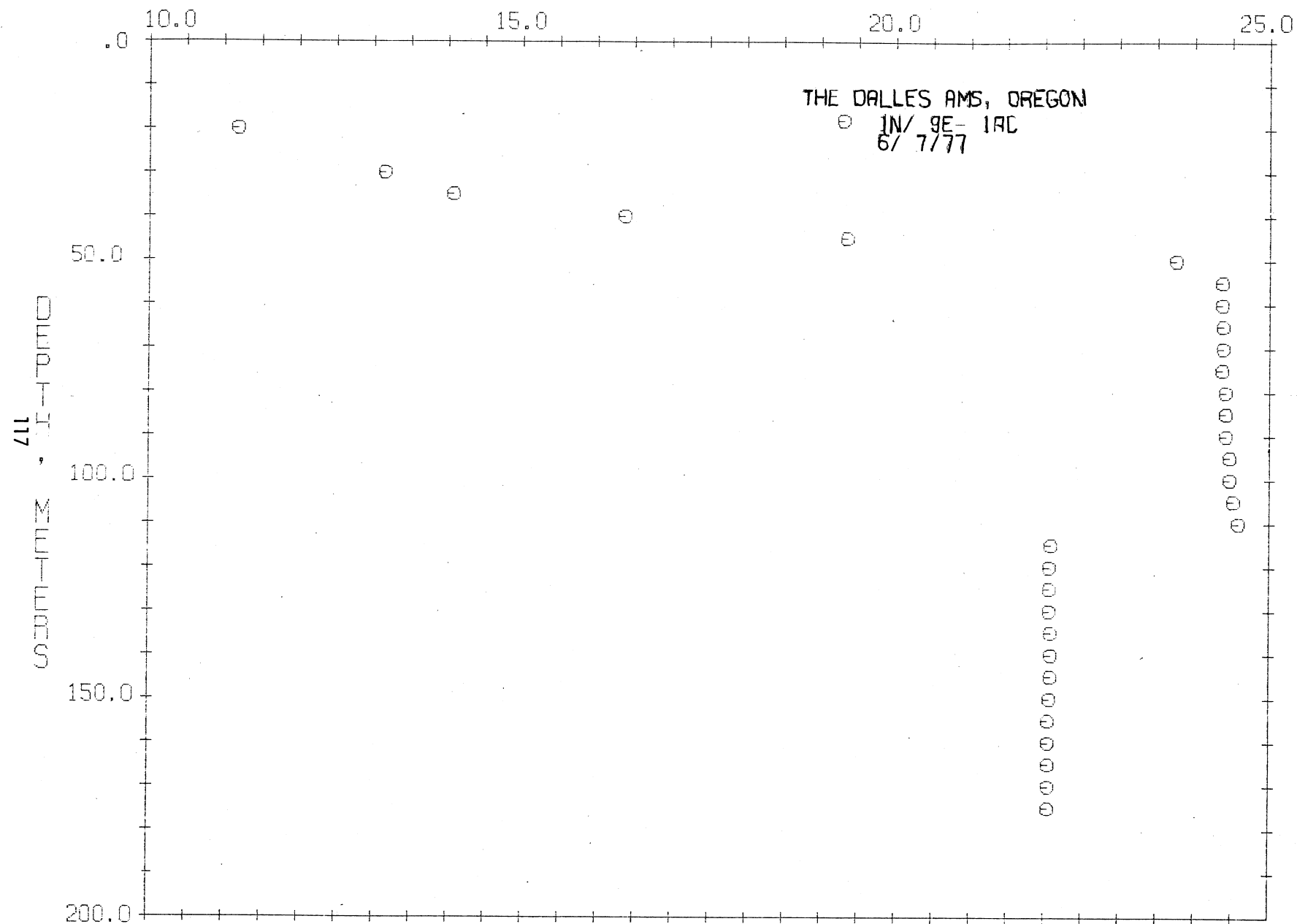
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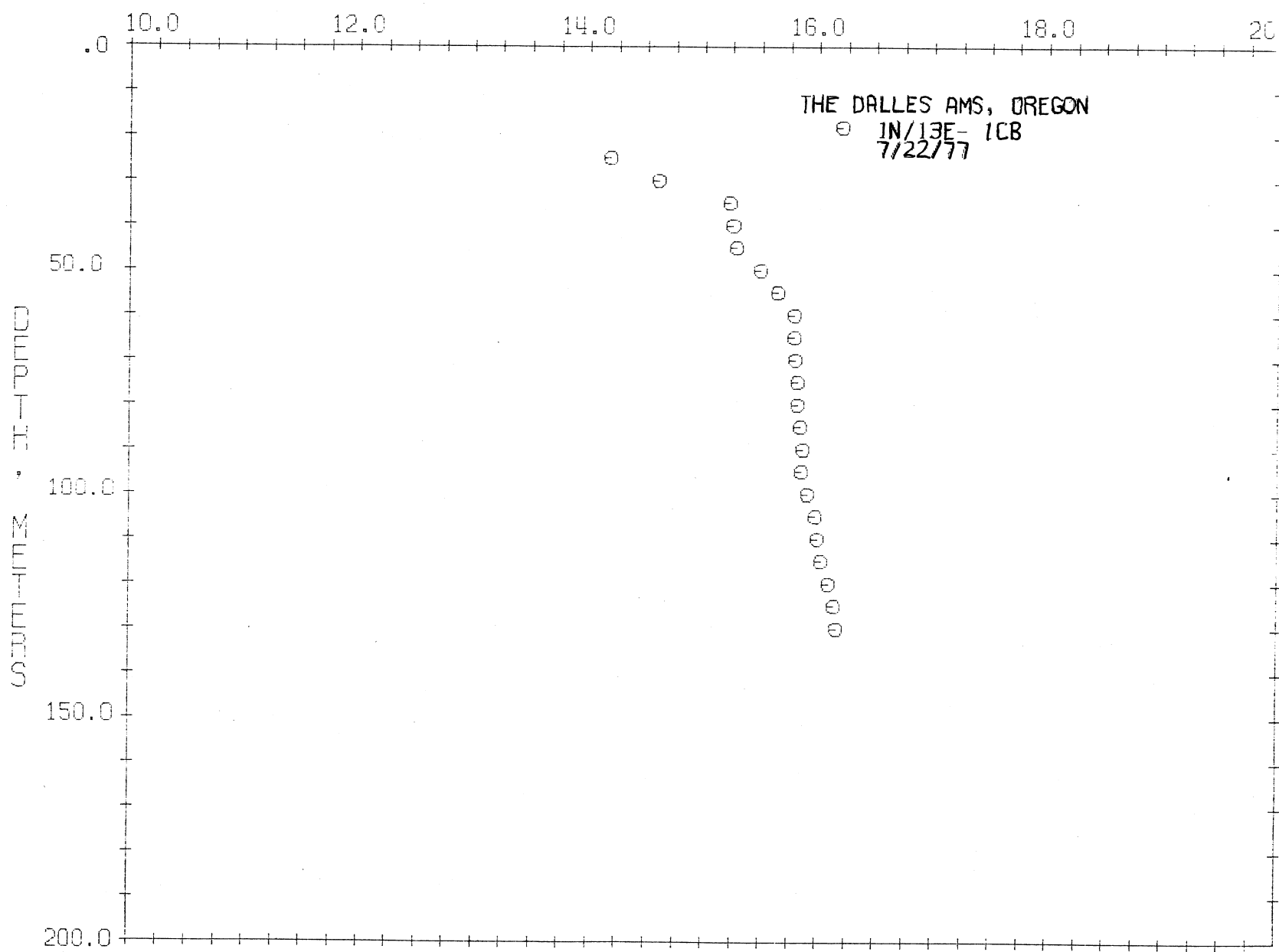
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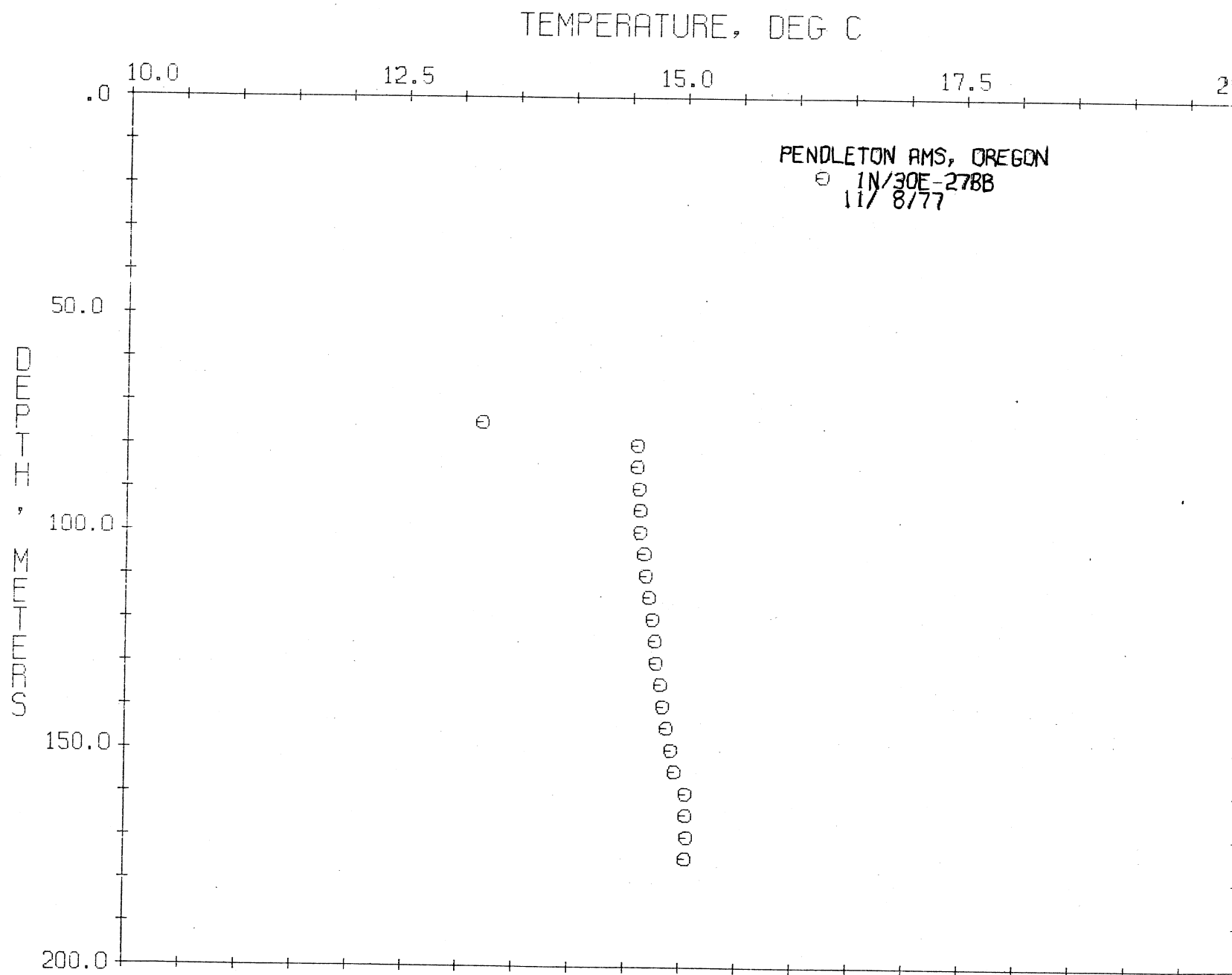


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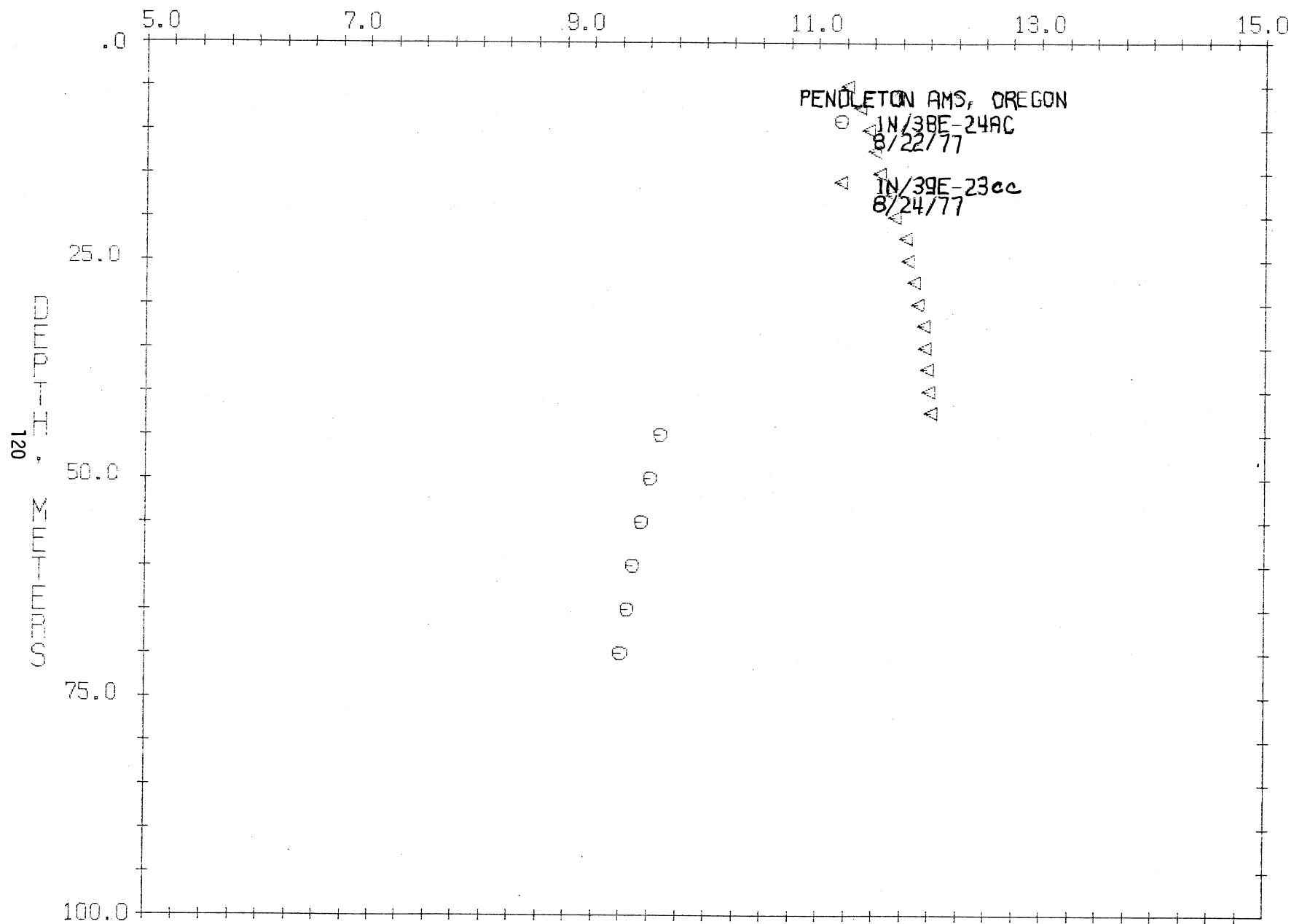


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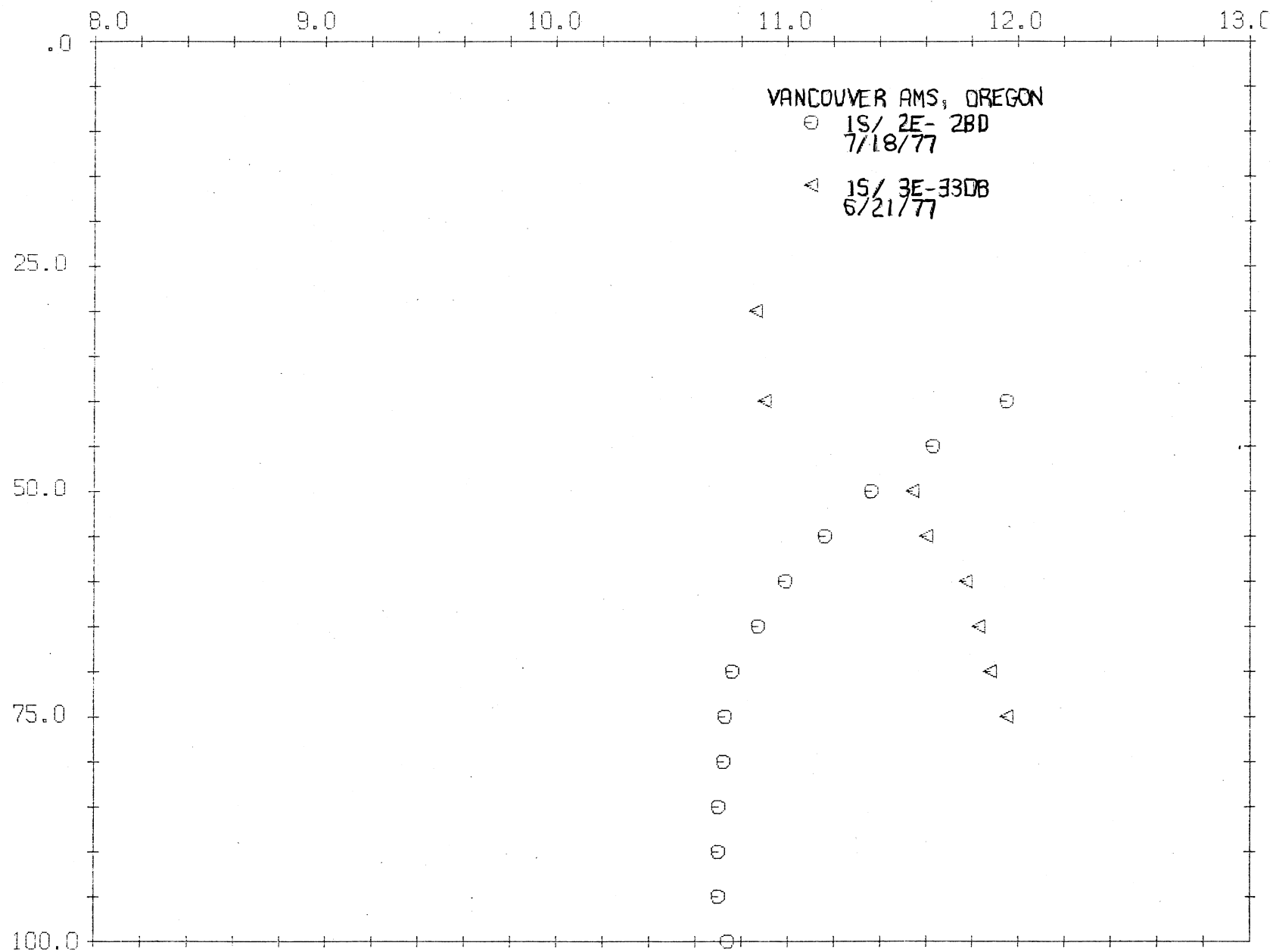


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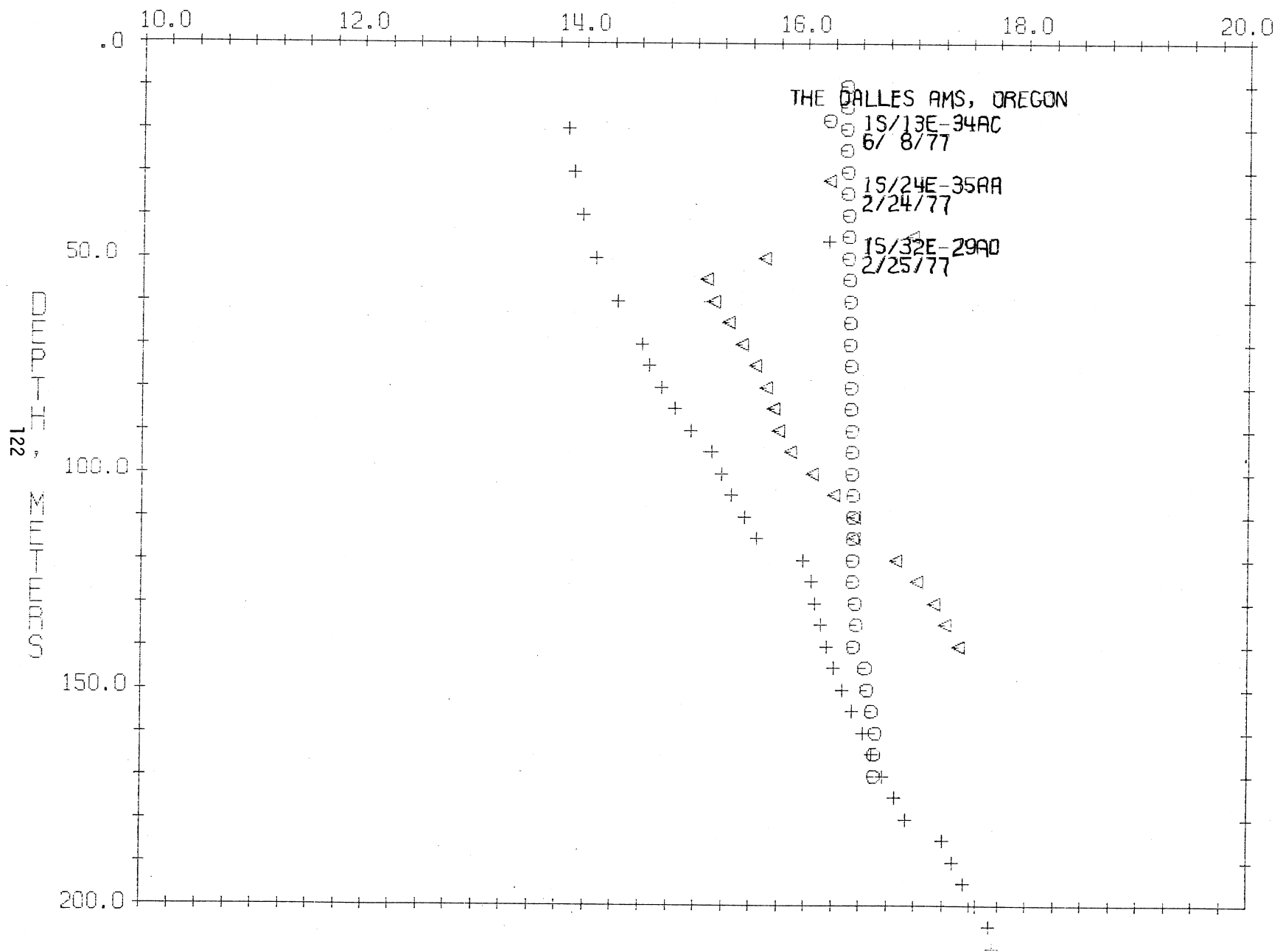


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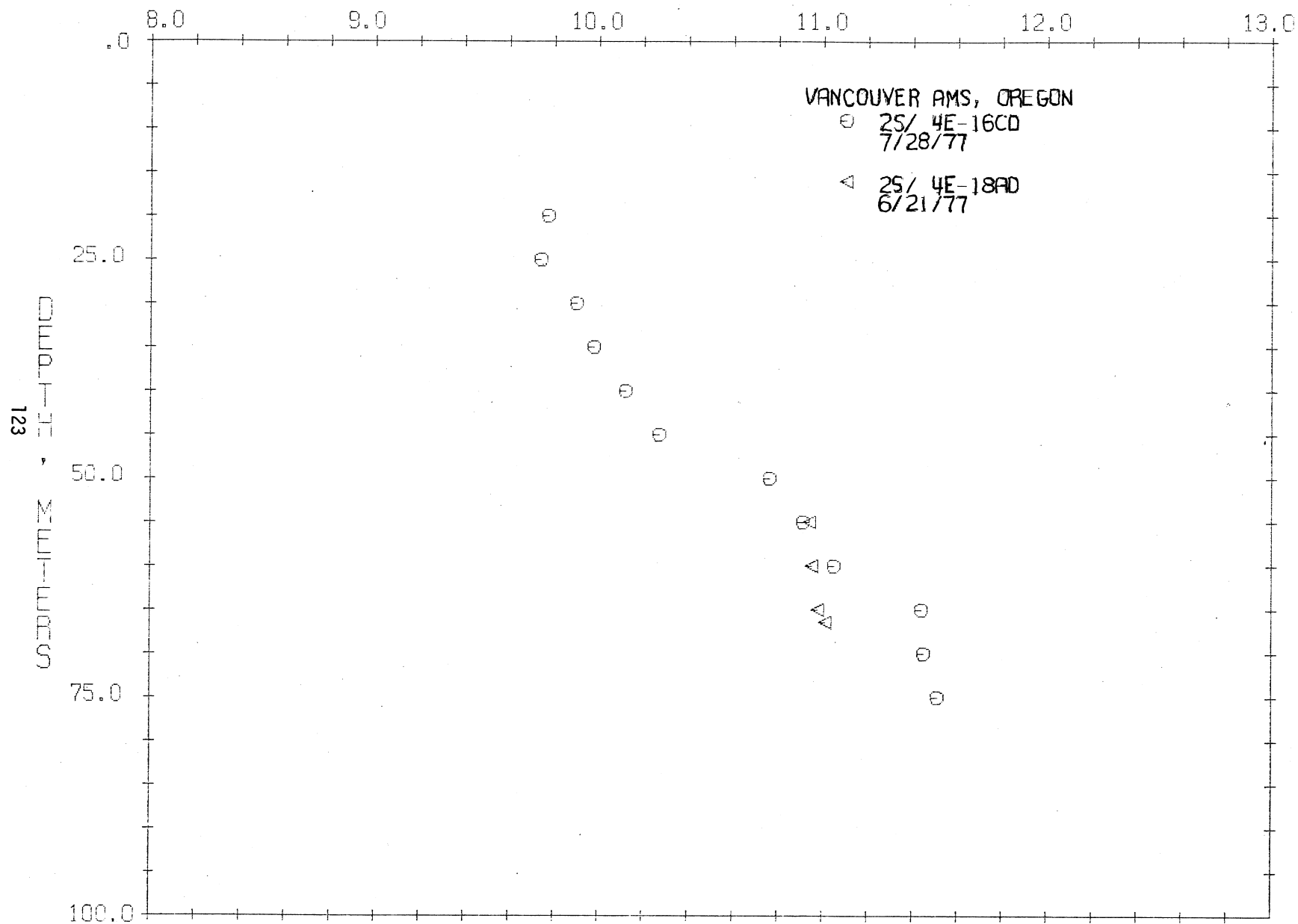
121
QUALITY, PERCENT



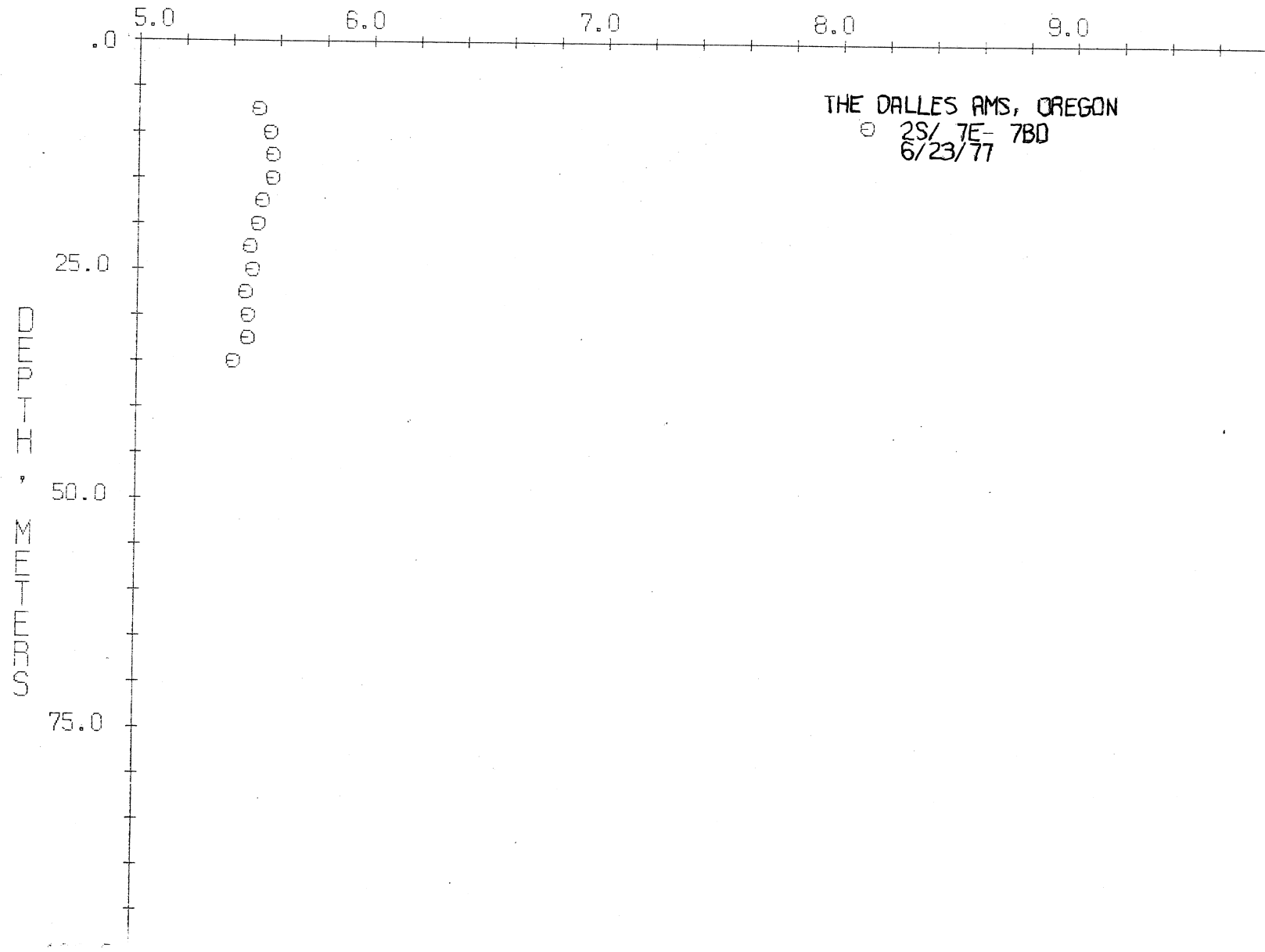
TEMPERATURE, DEG C



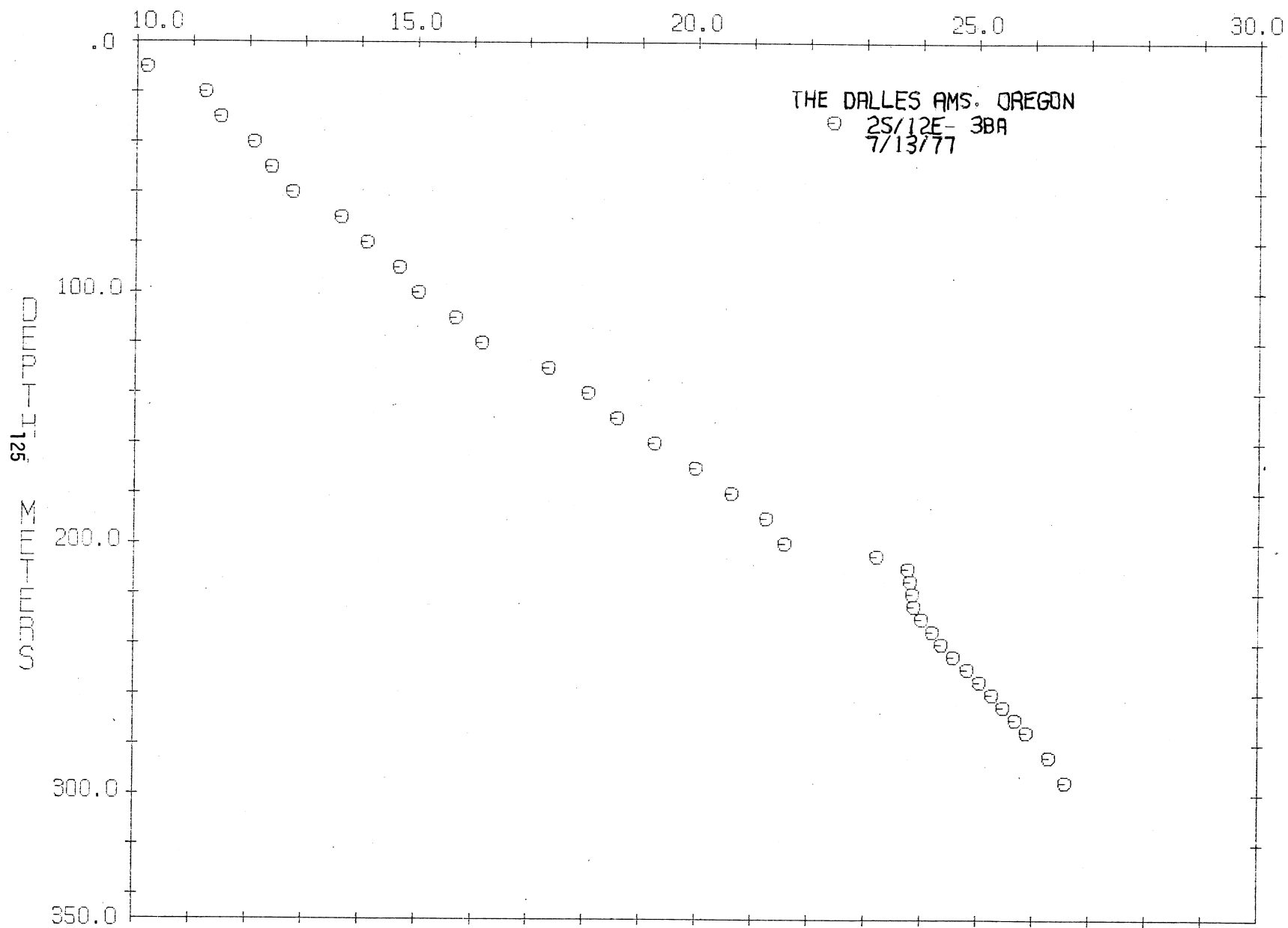
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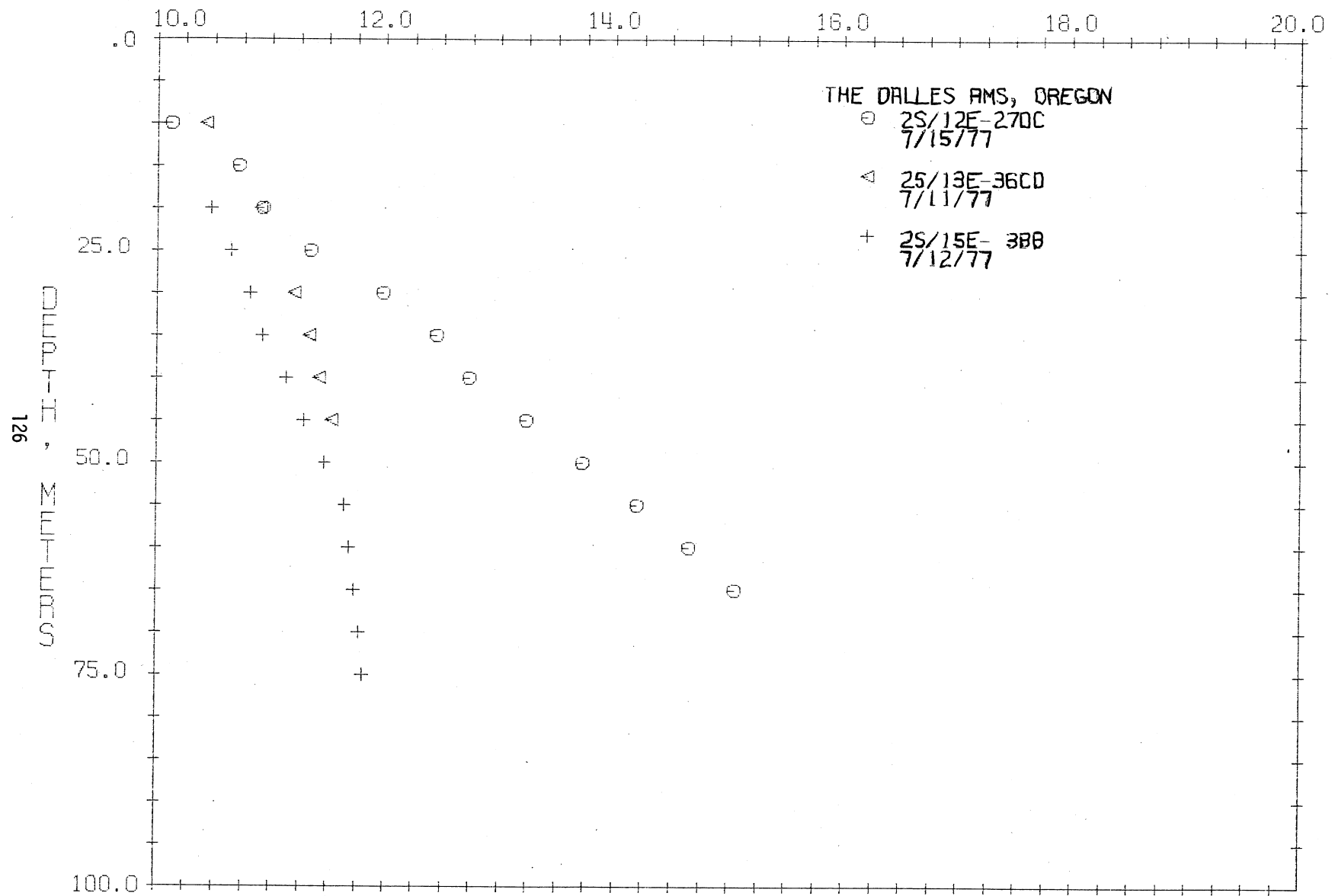
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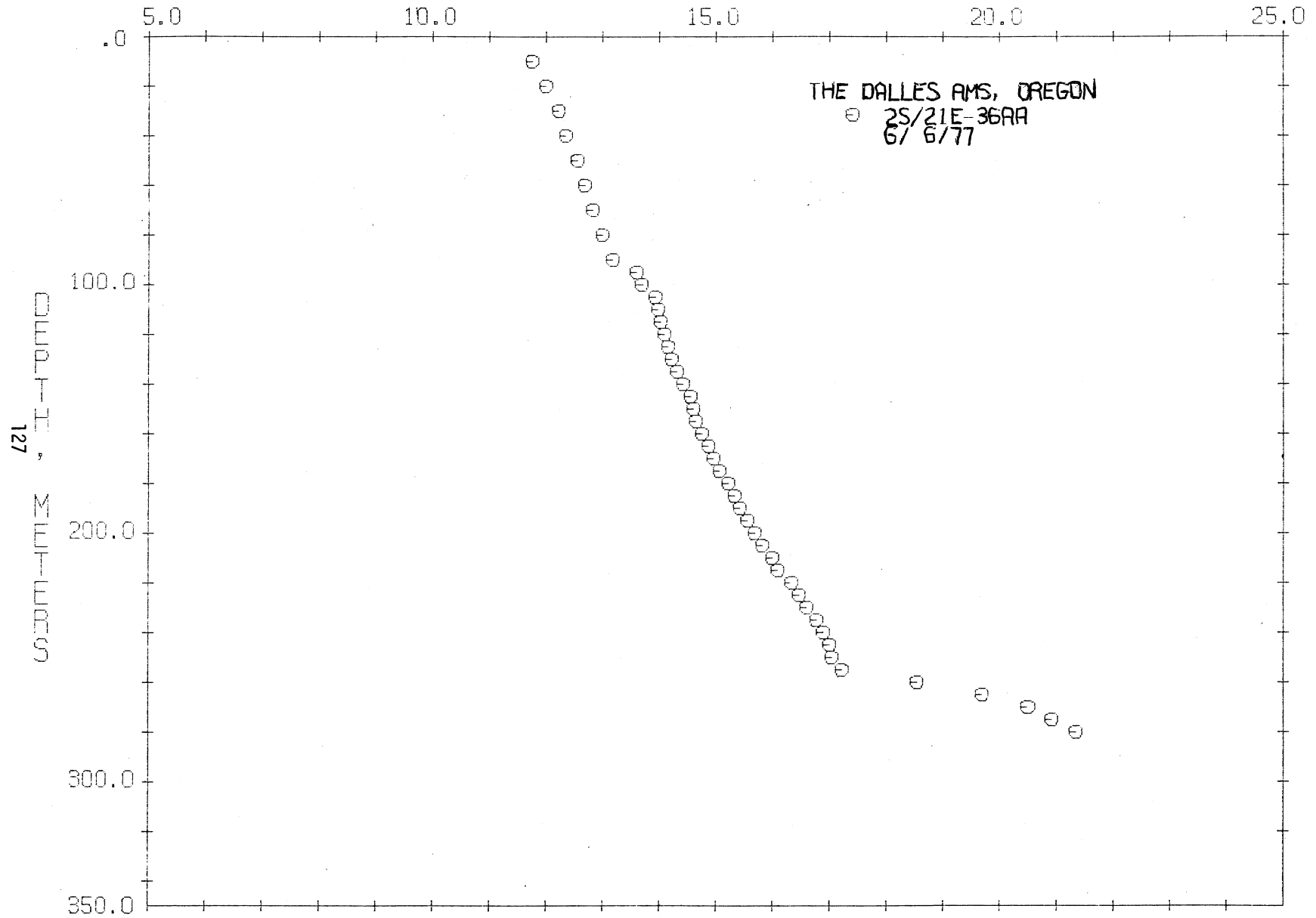
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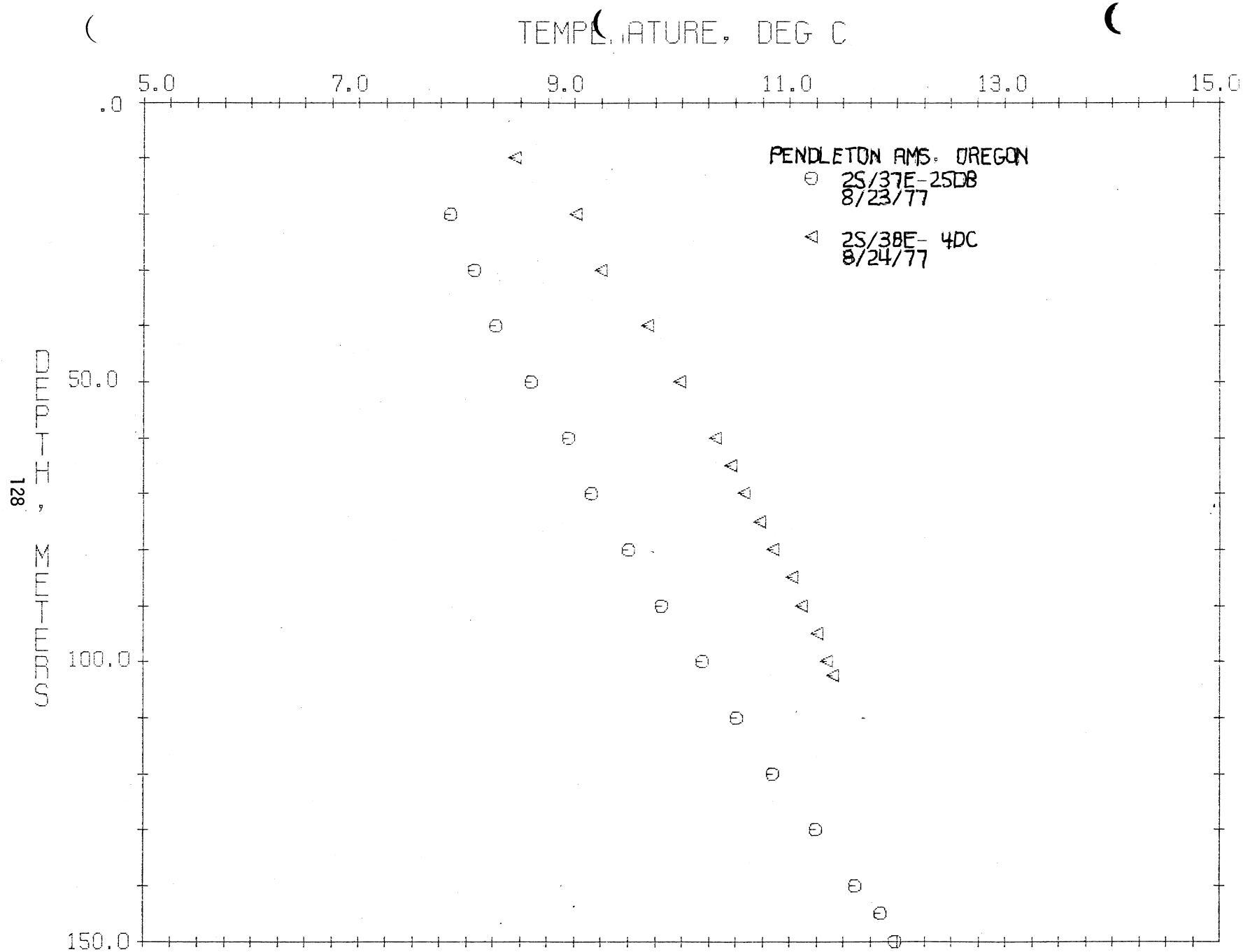


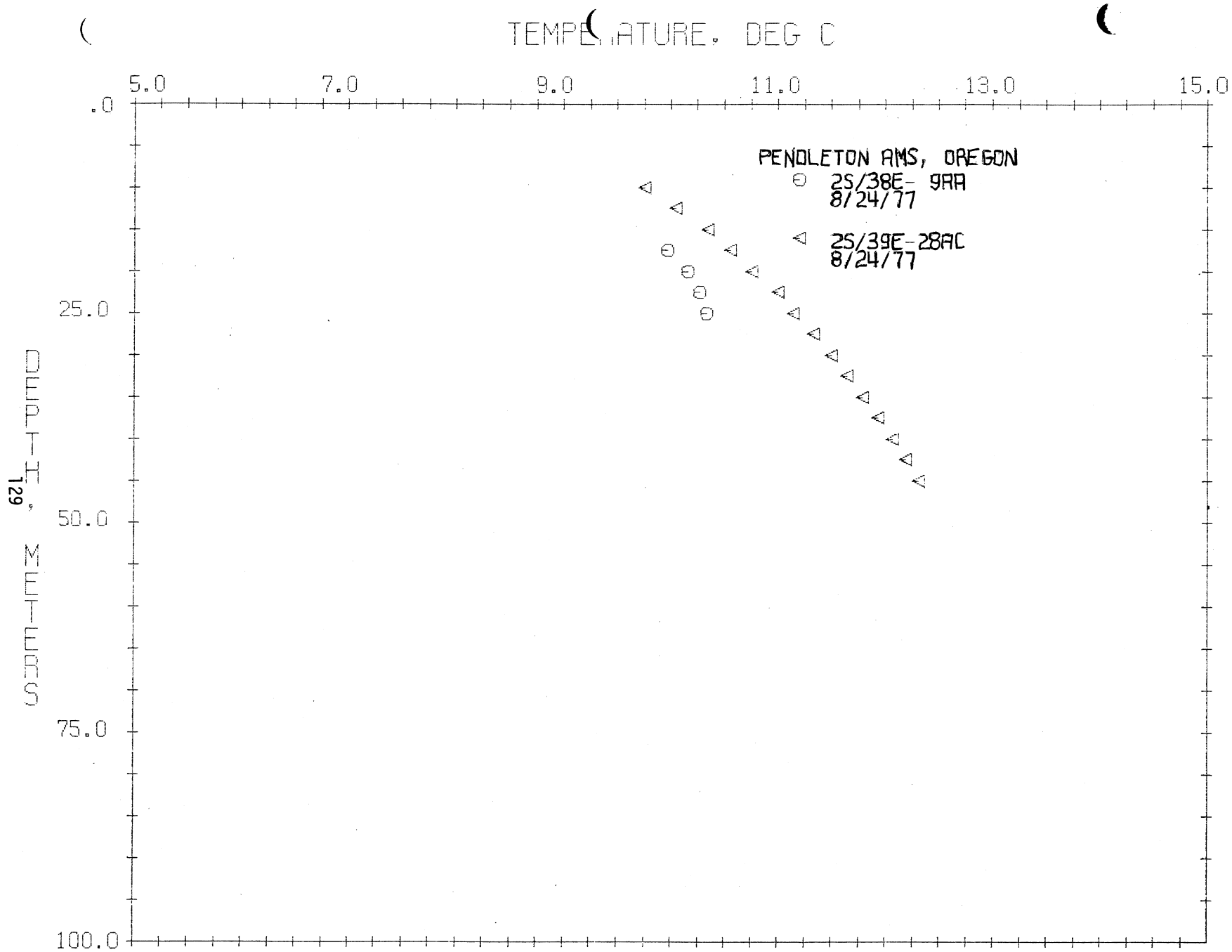
TEMPERATURE, DEG C



TEMPERATURE, DEG C

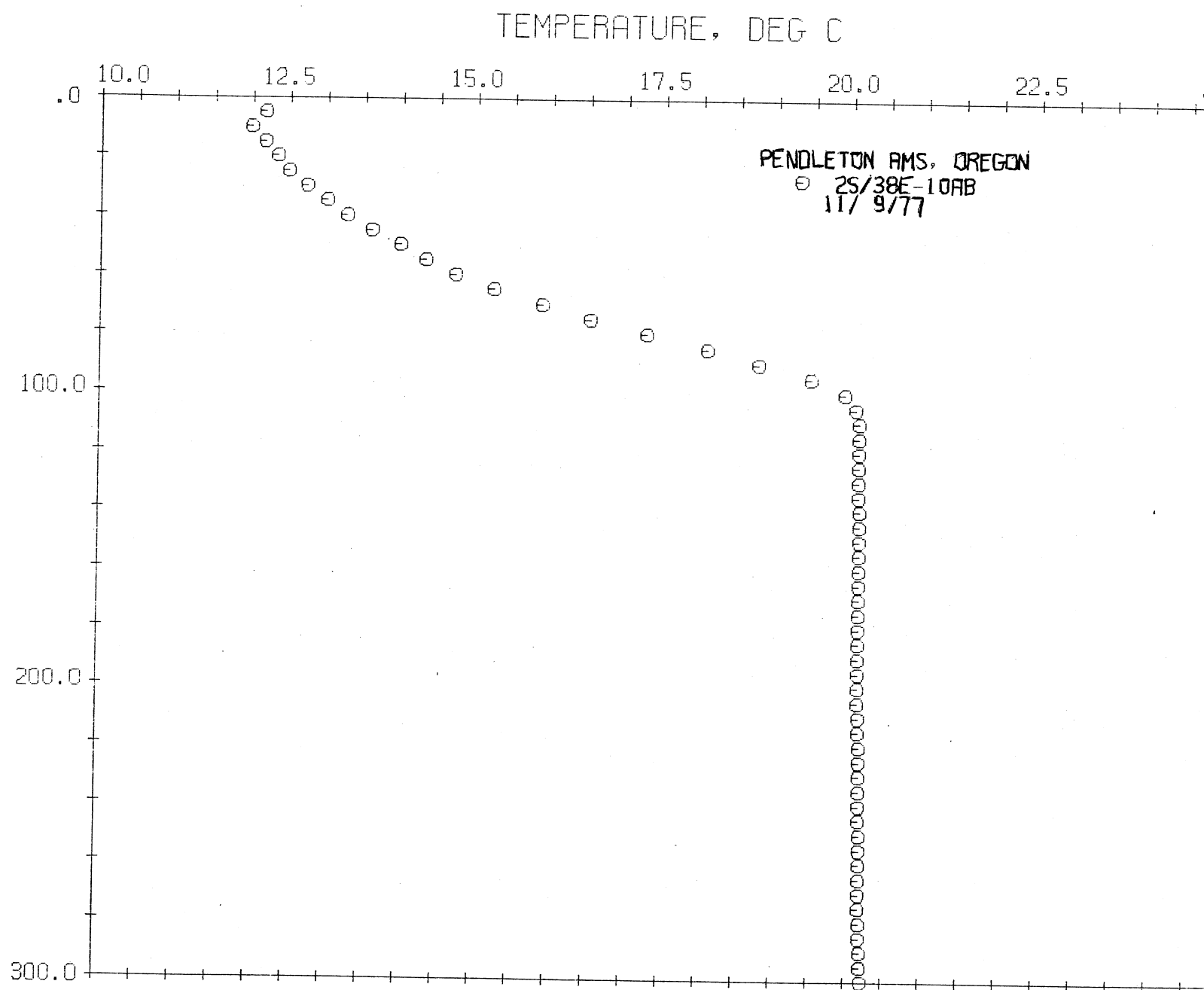


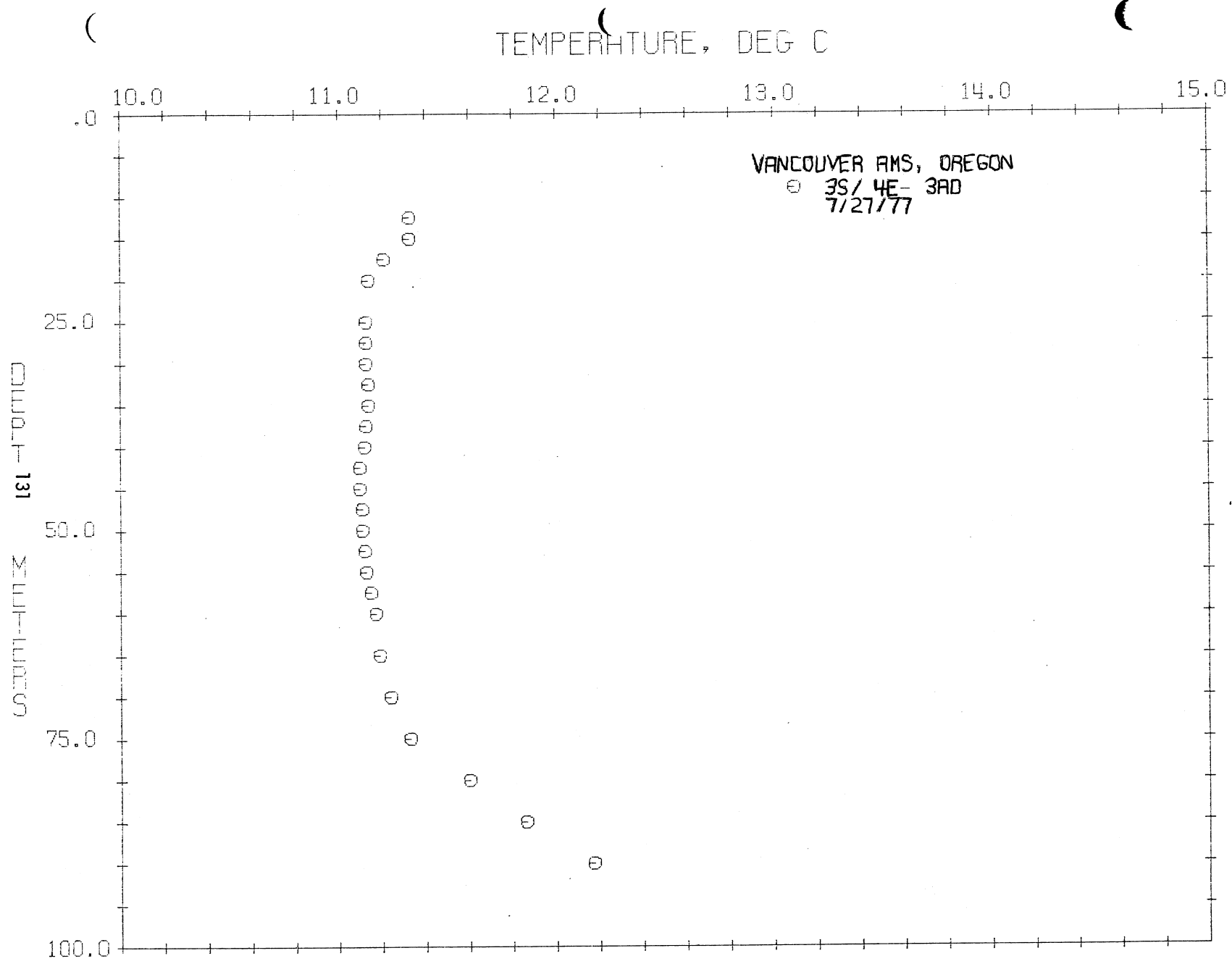


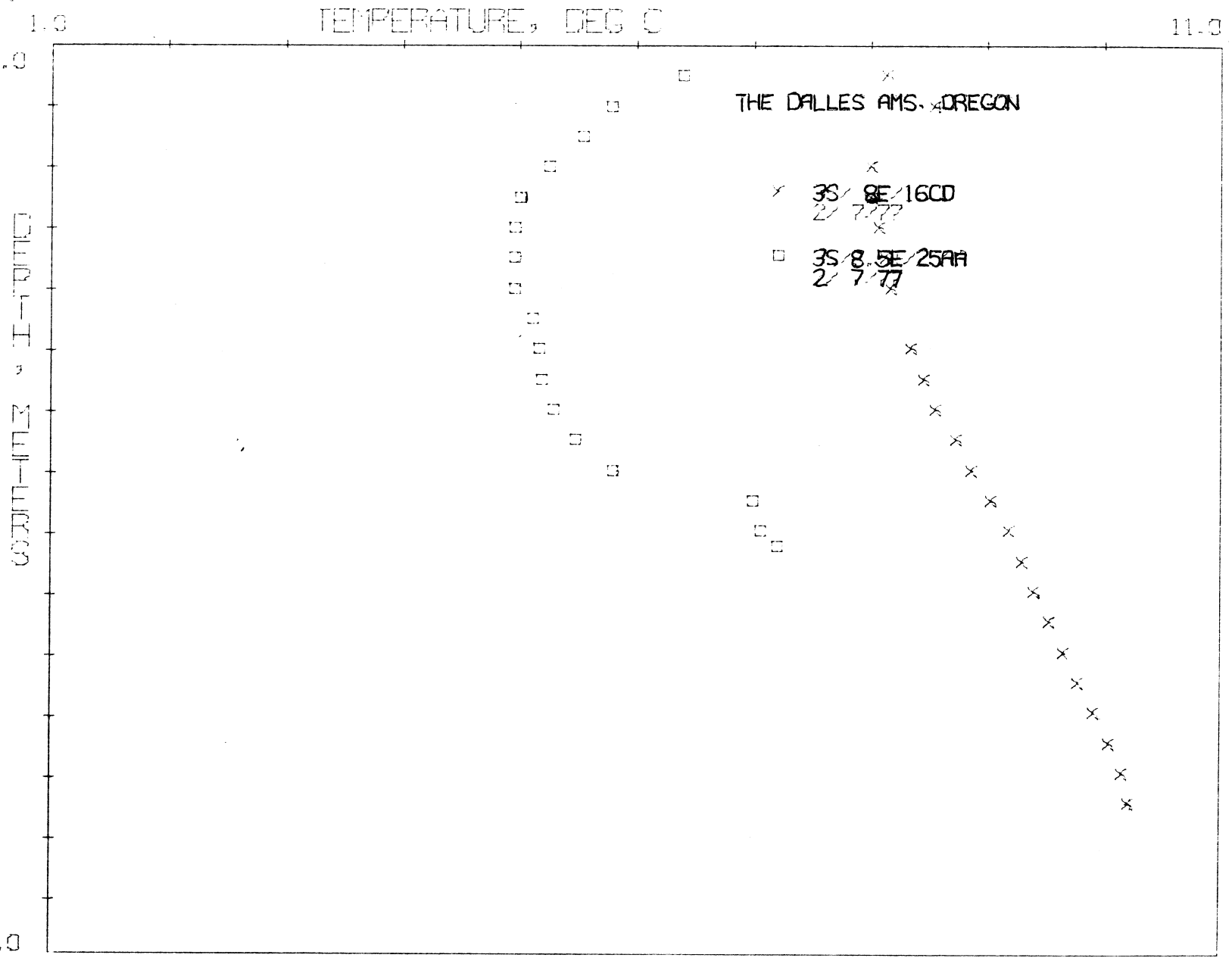


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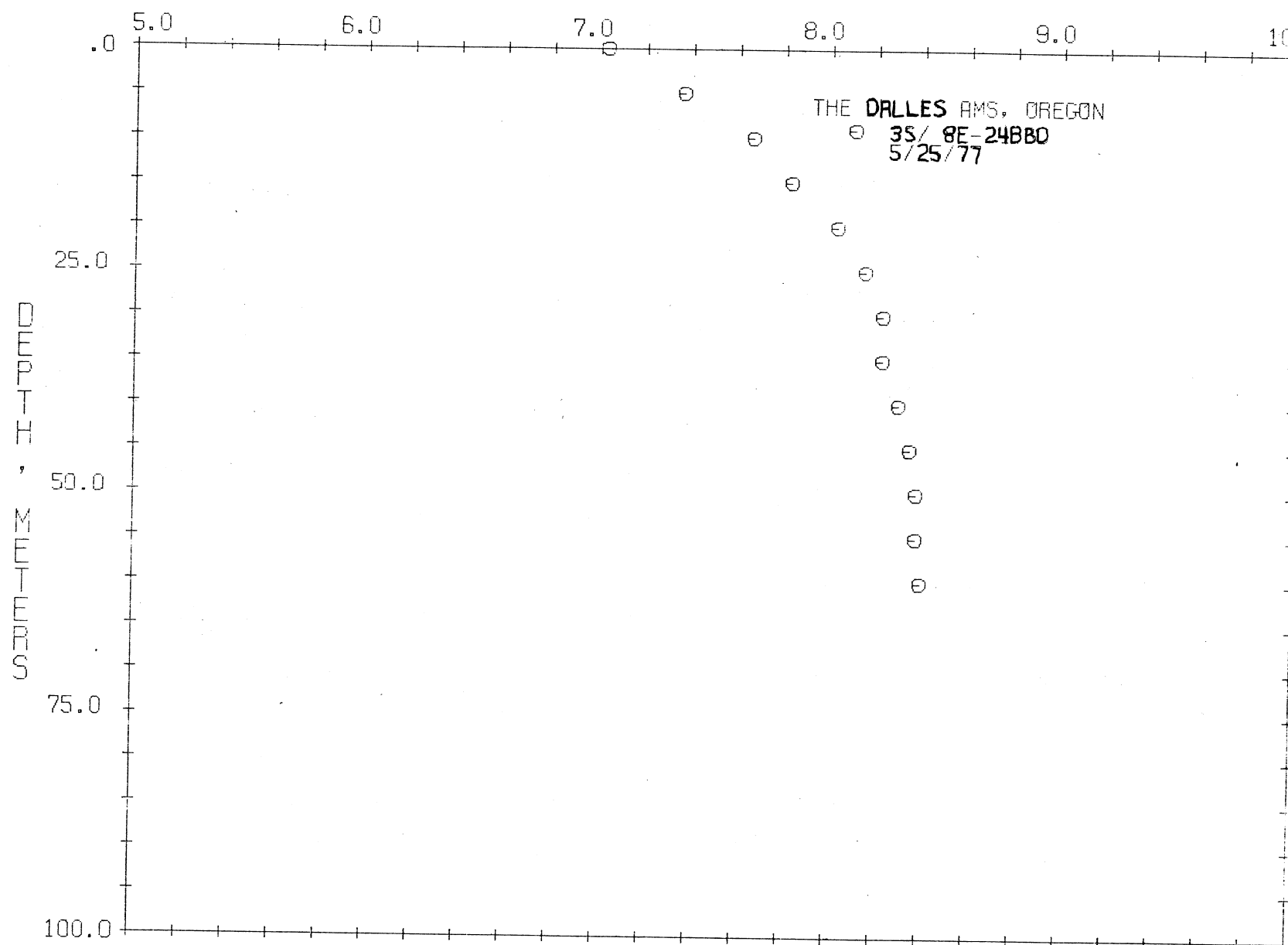
DEPTH, METERS



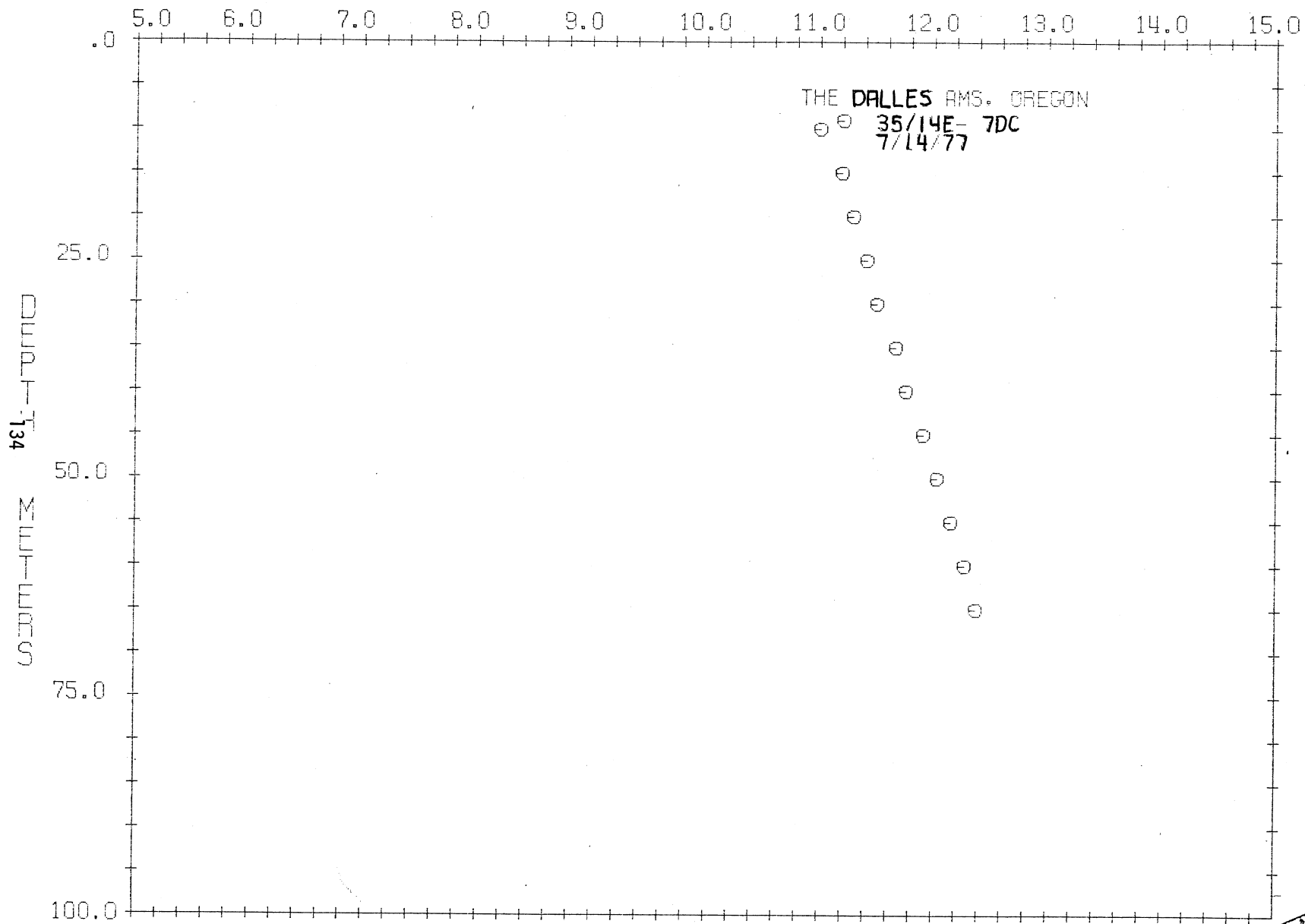




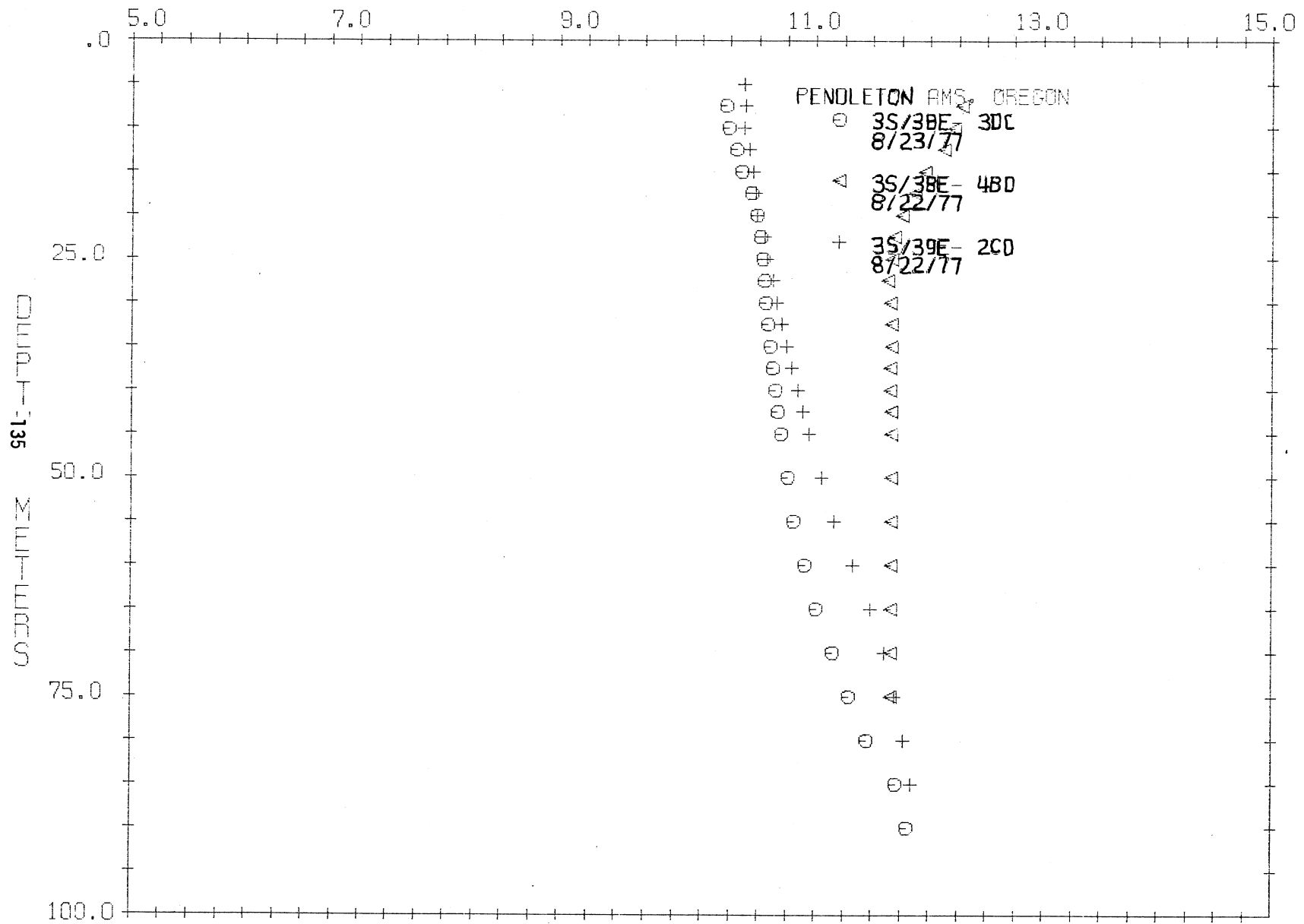
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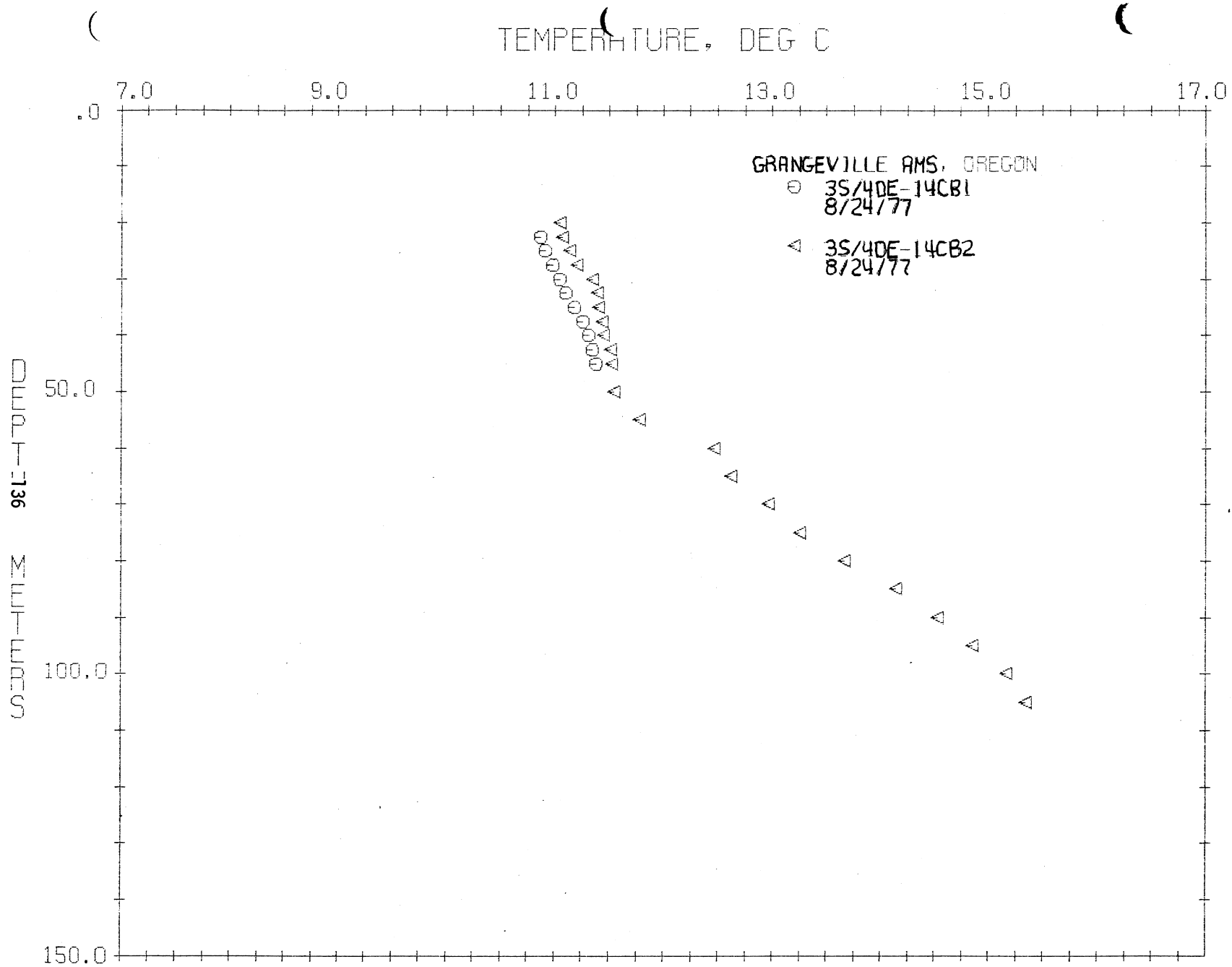


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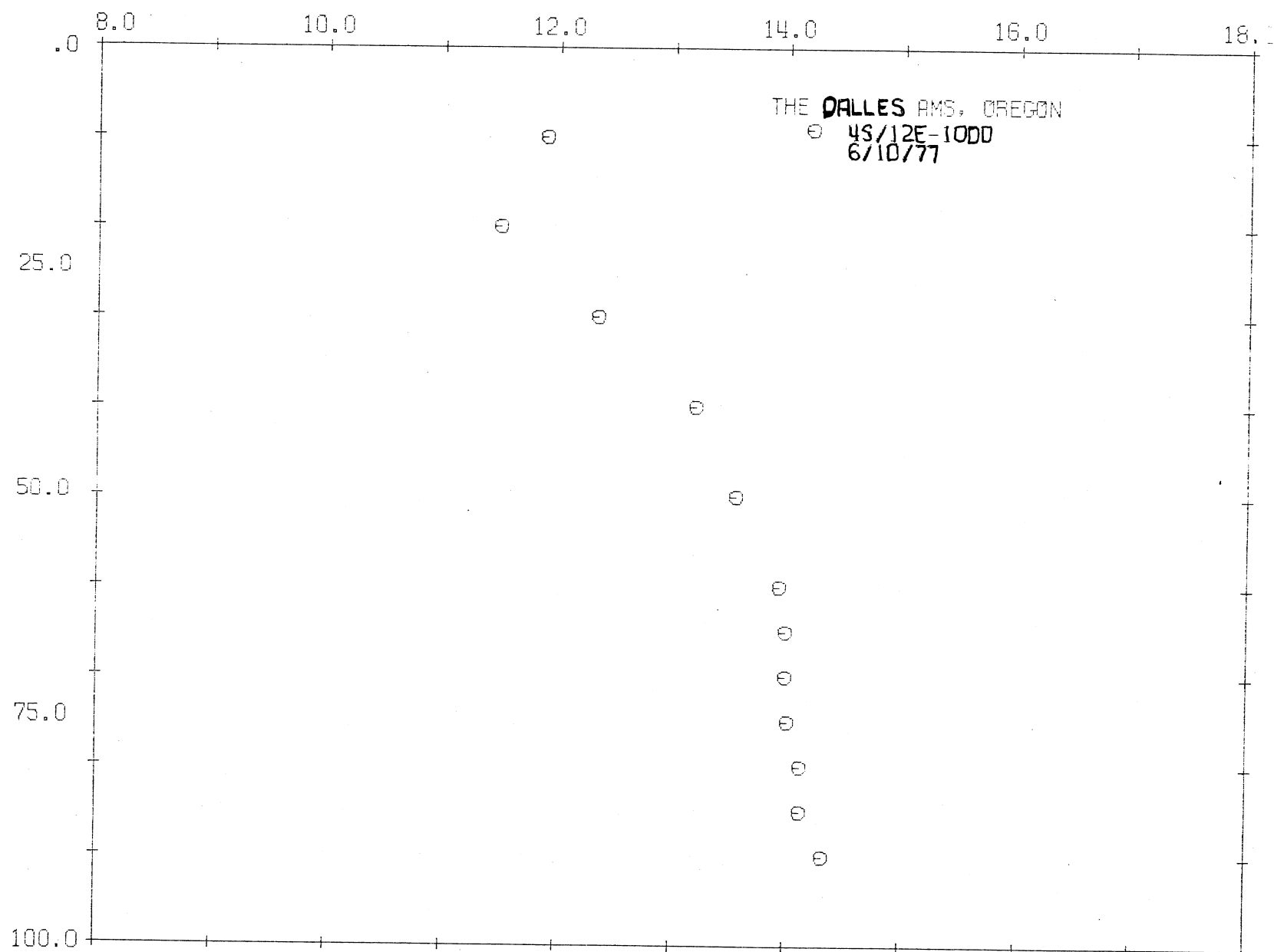


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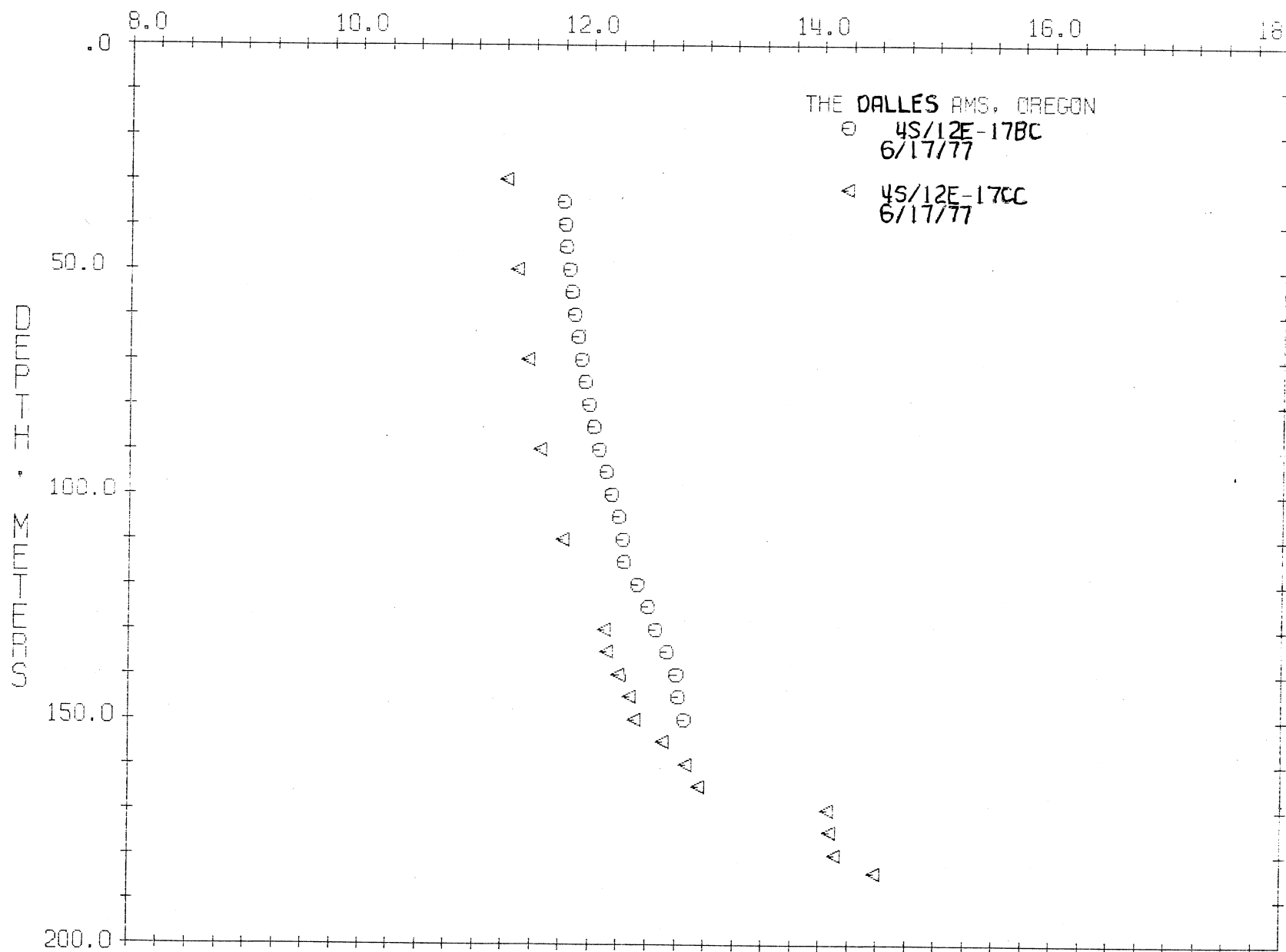


TEMP RATURE, DEG C



DEPTH, METERS

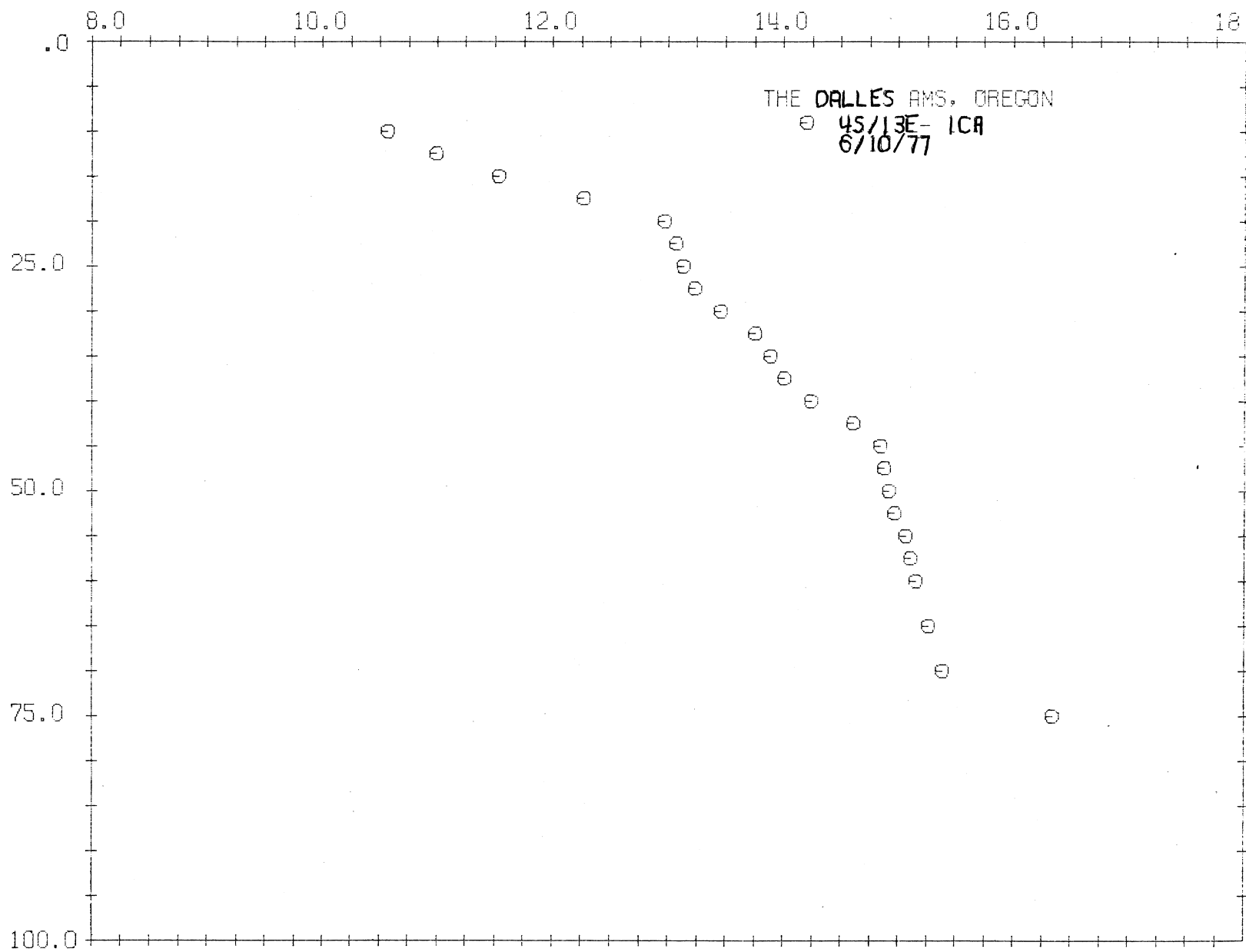
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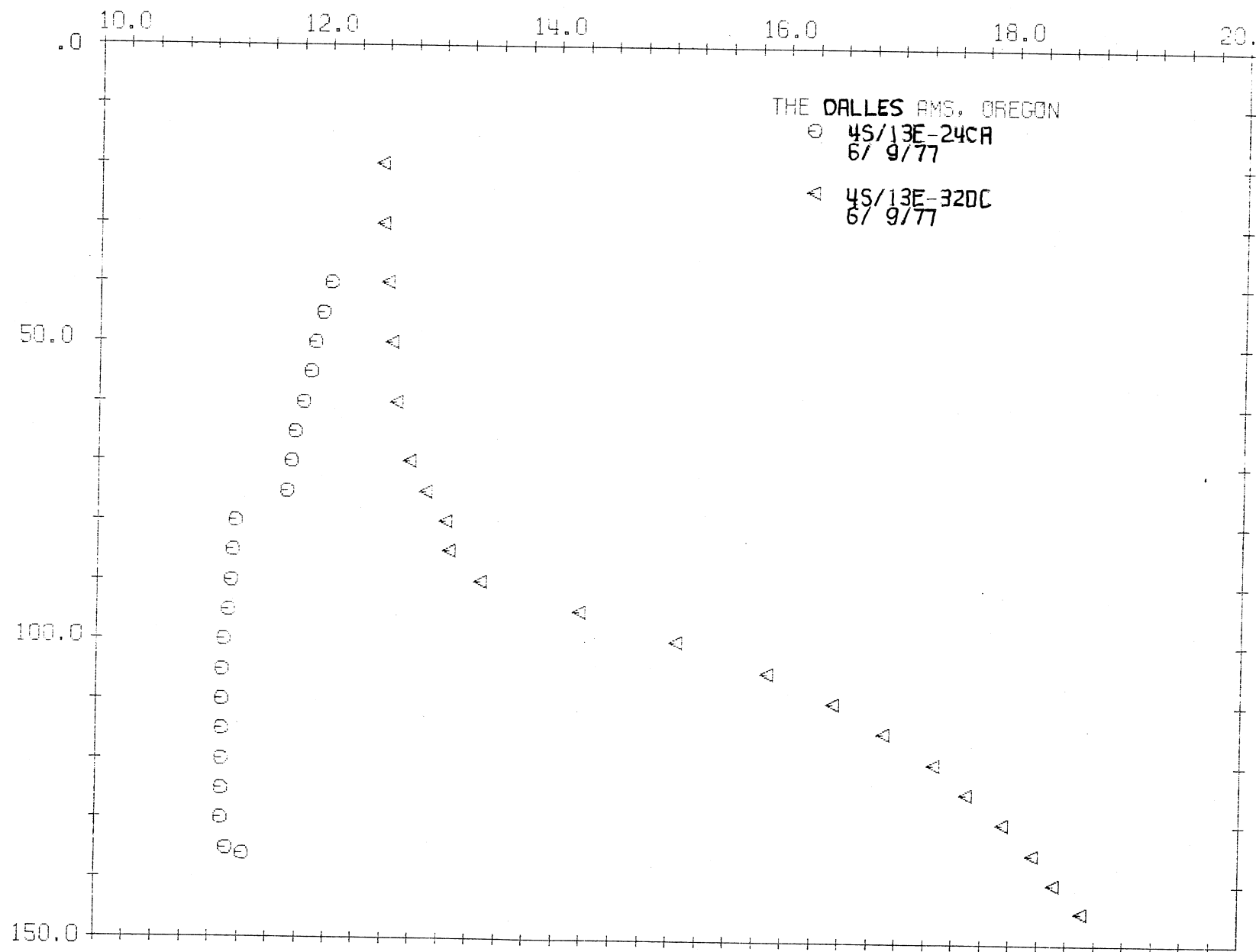
139

DEPTH, METERS

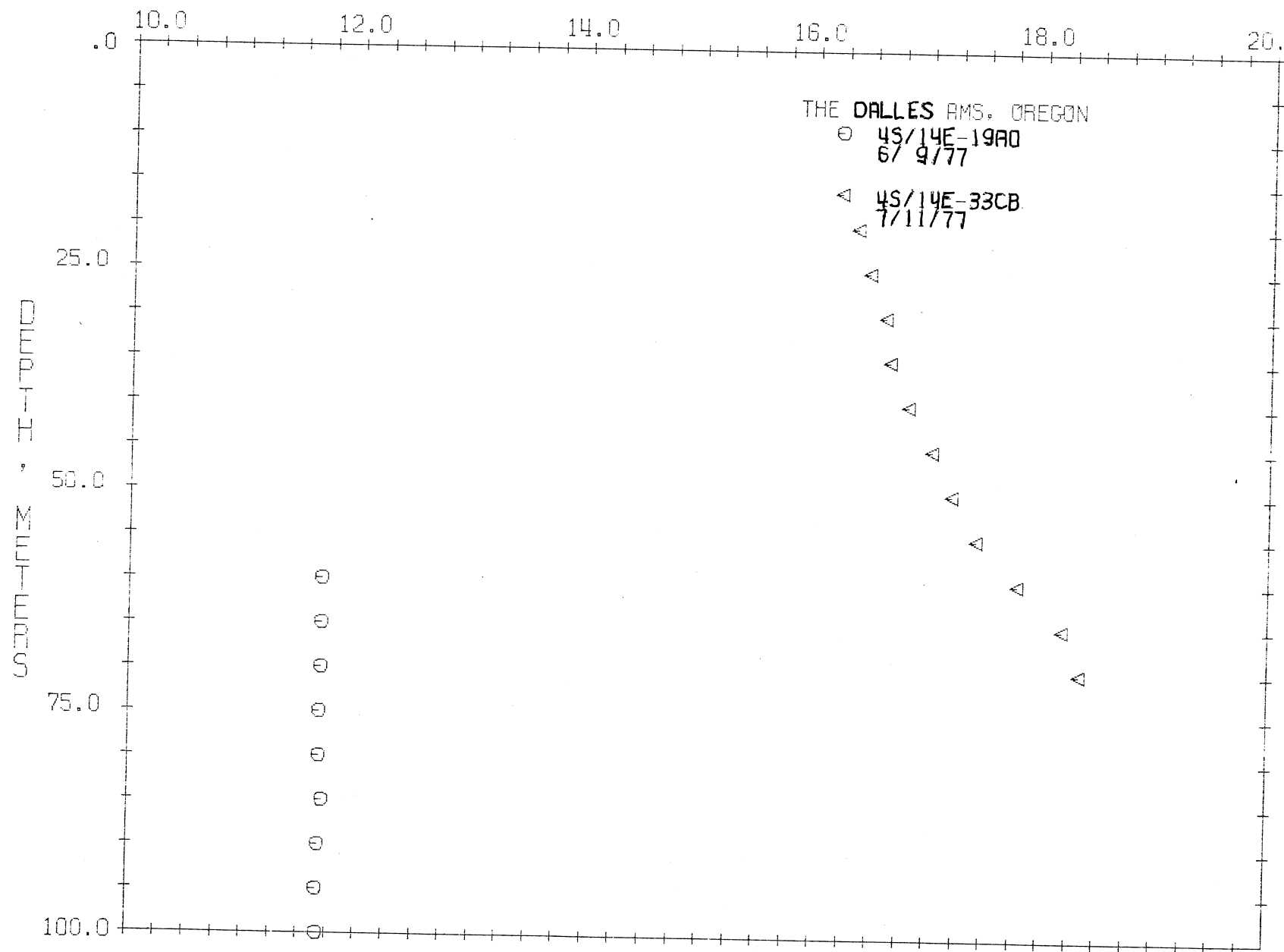
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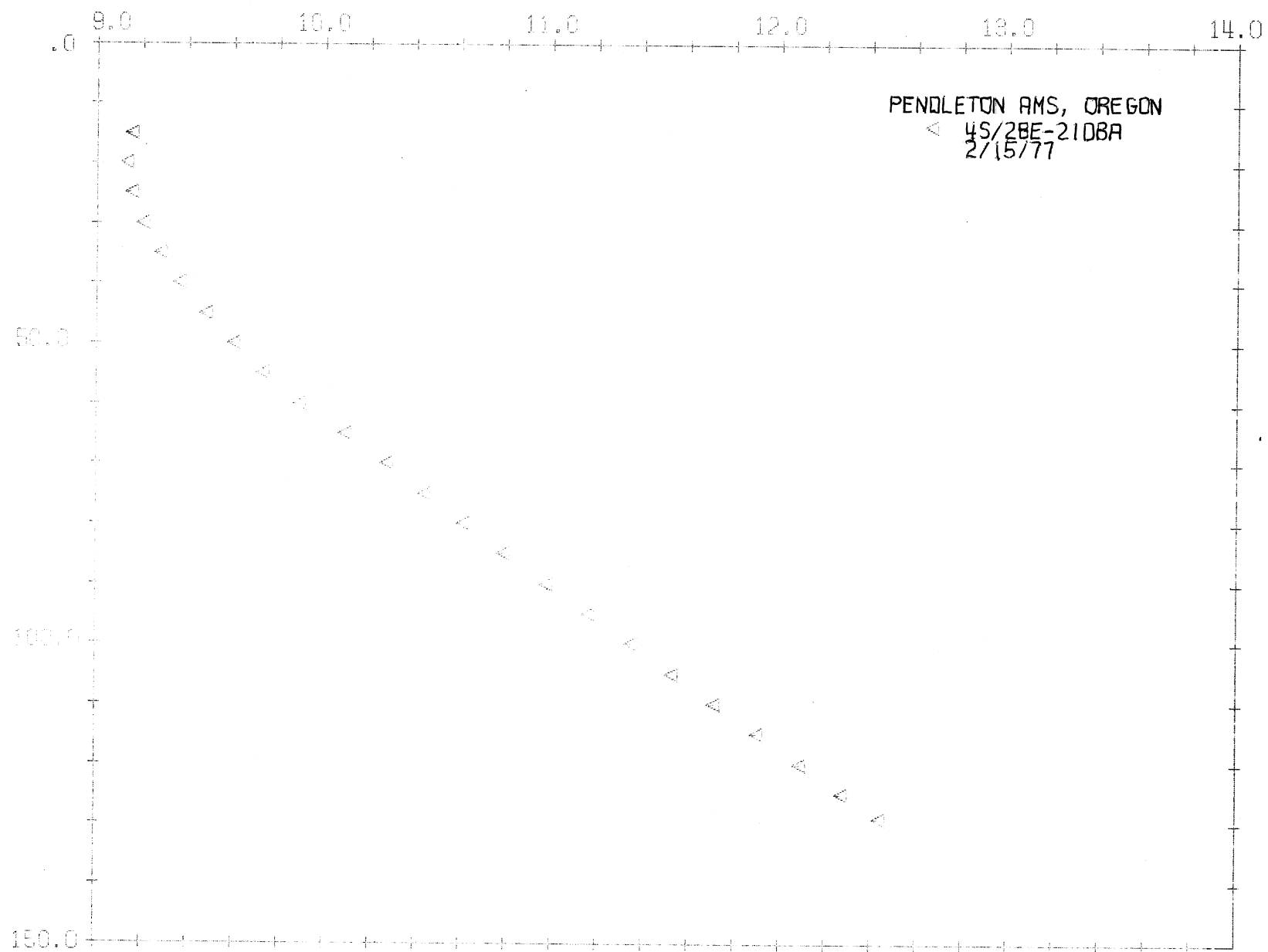
TEMPERATURE, DEG C



TEMPERATURE, DEG C

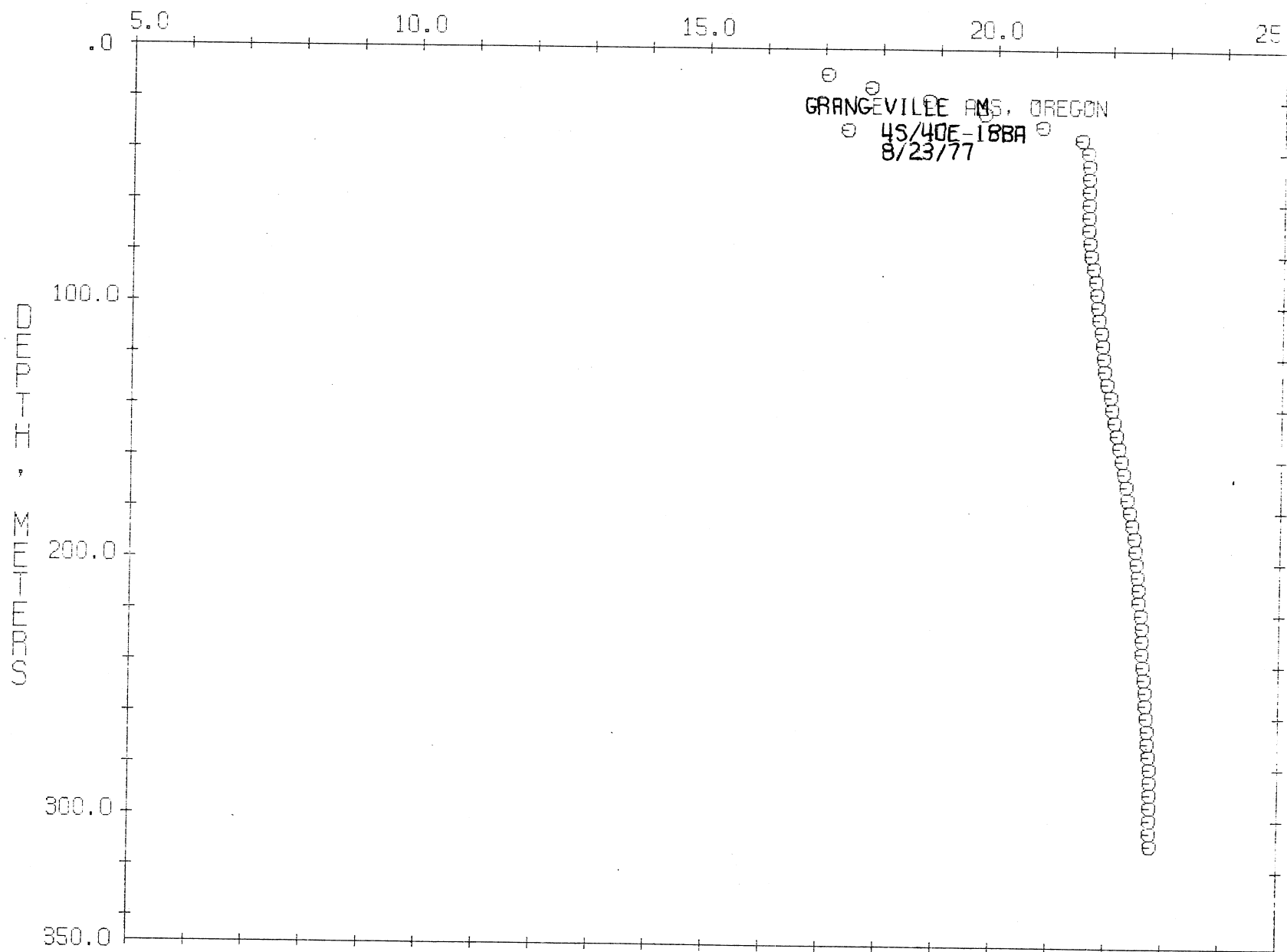


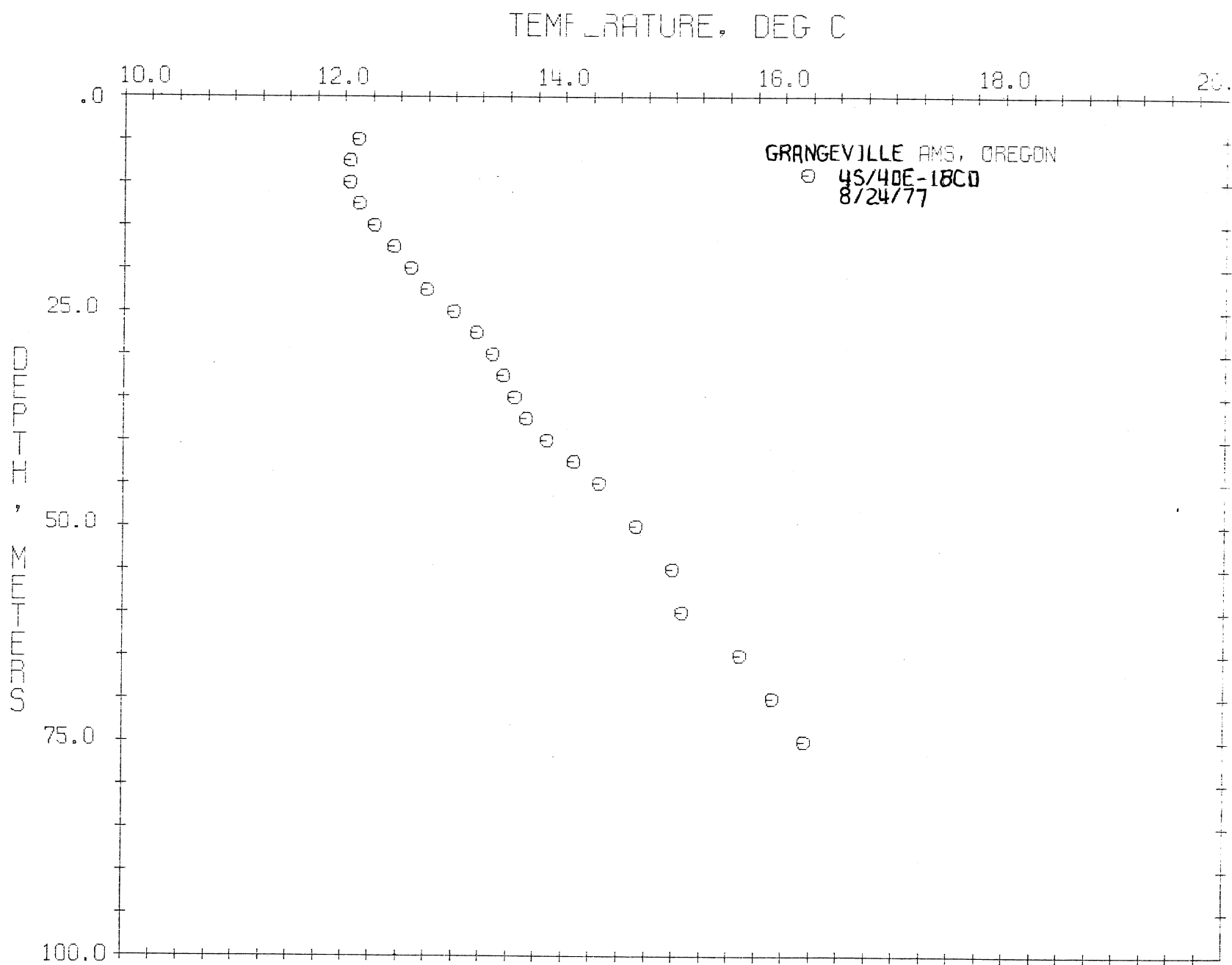
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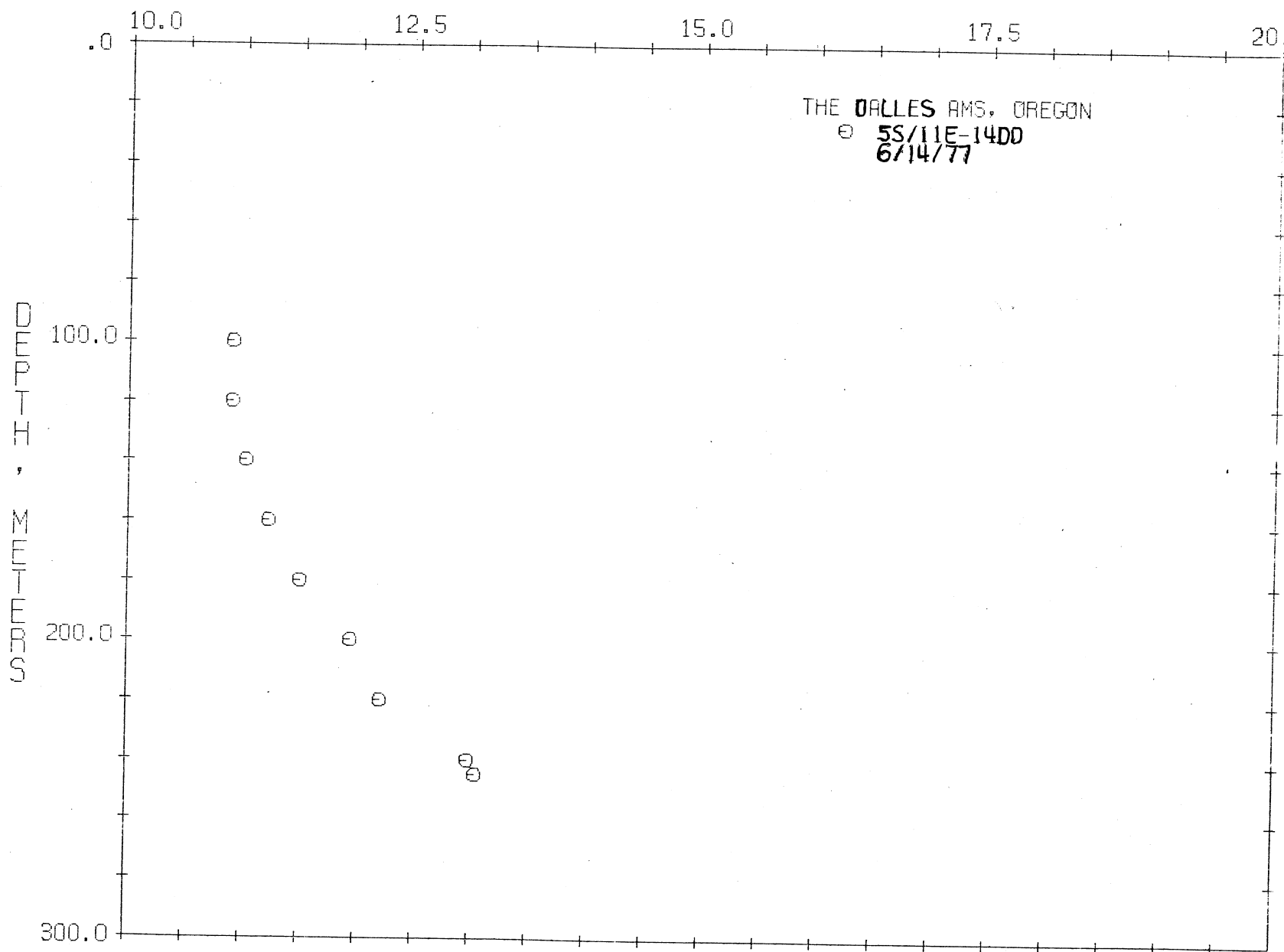
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TEMPERATURE, DEG C



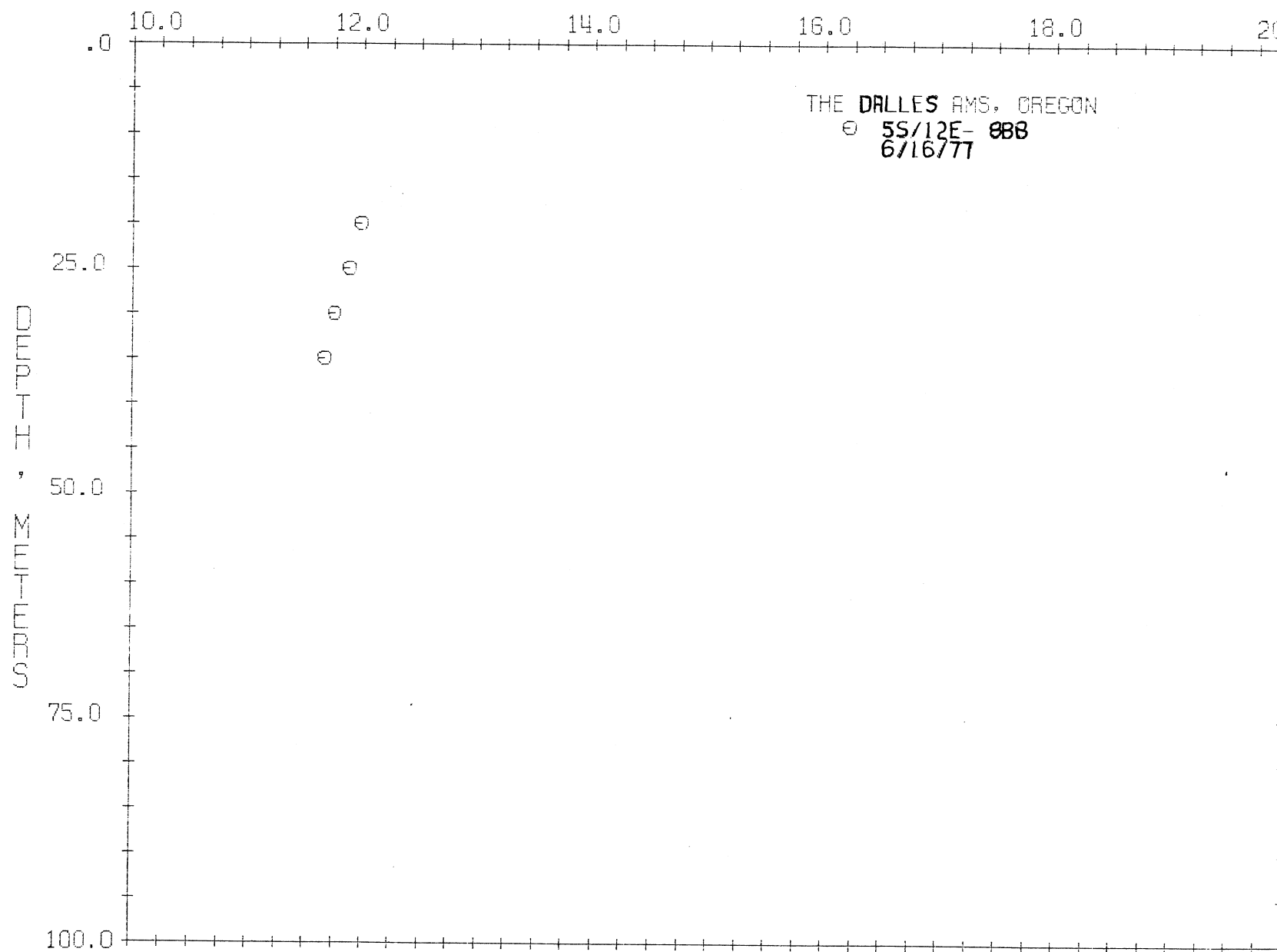


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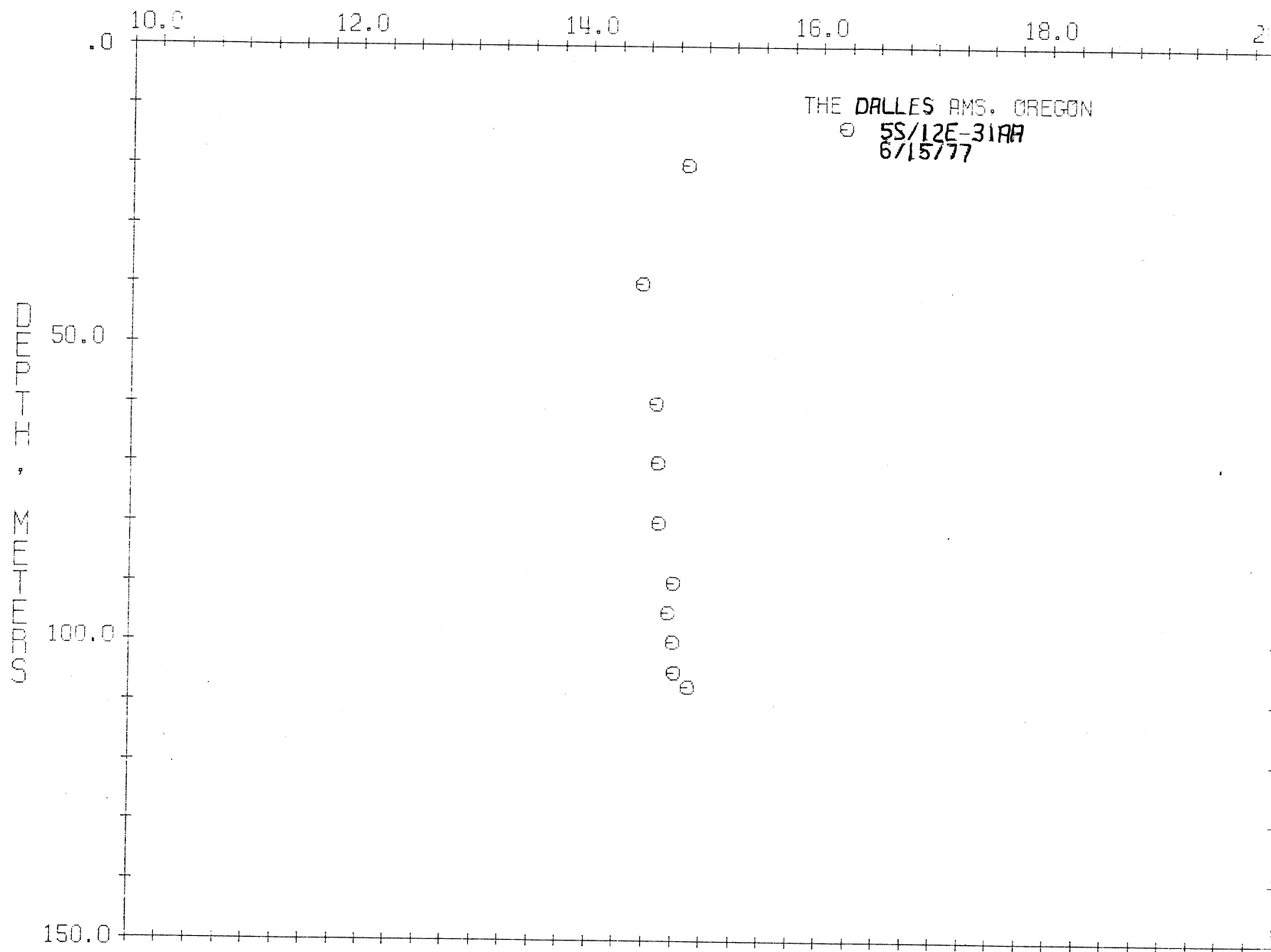


DEPTH, METERS

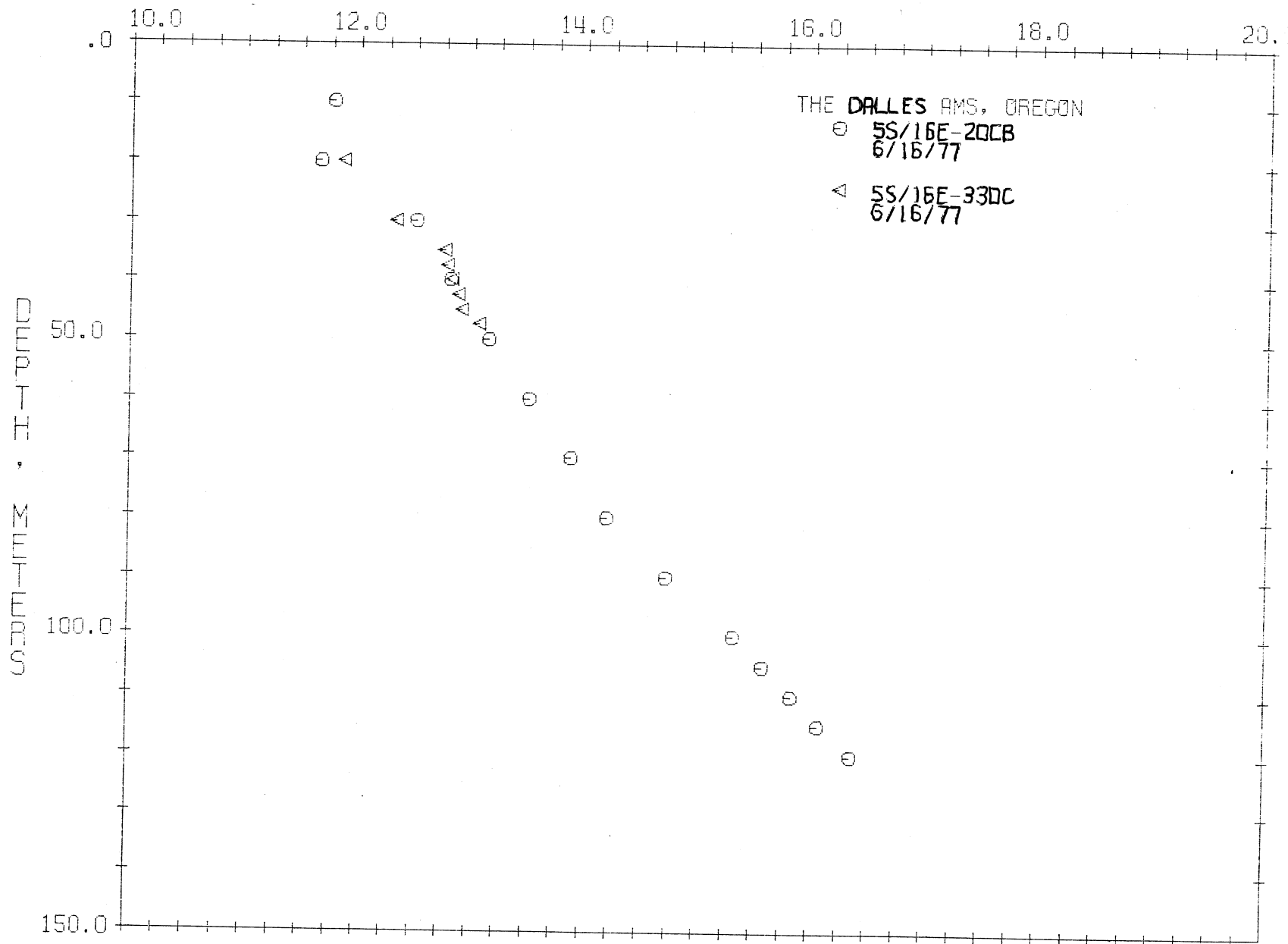
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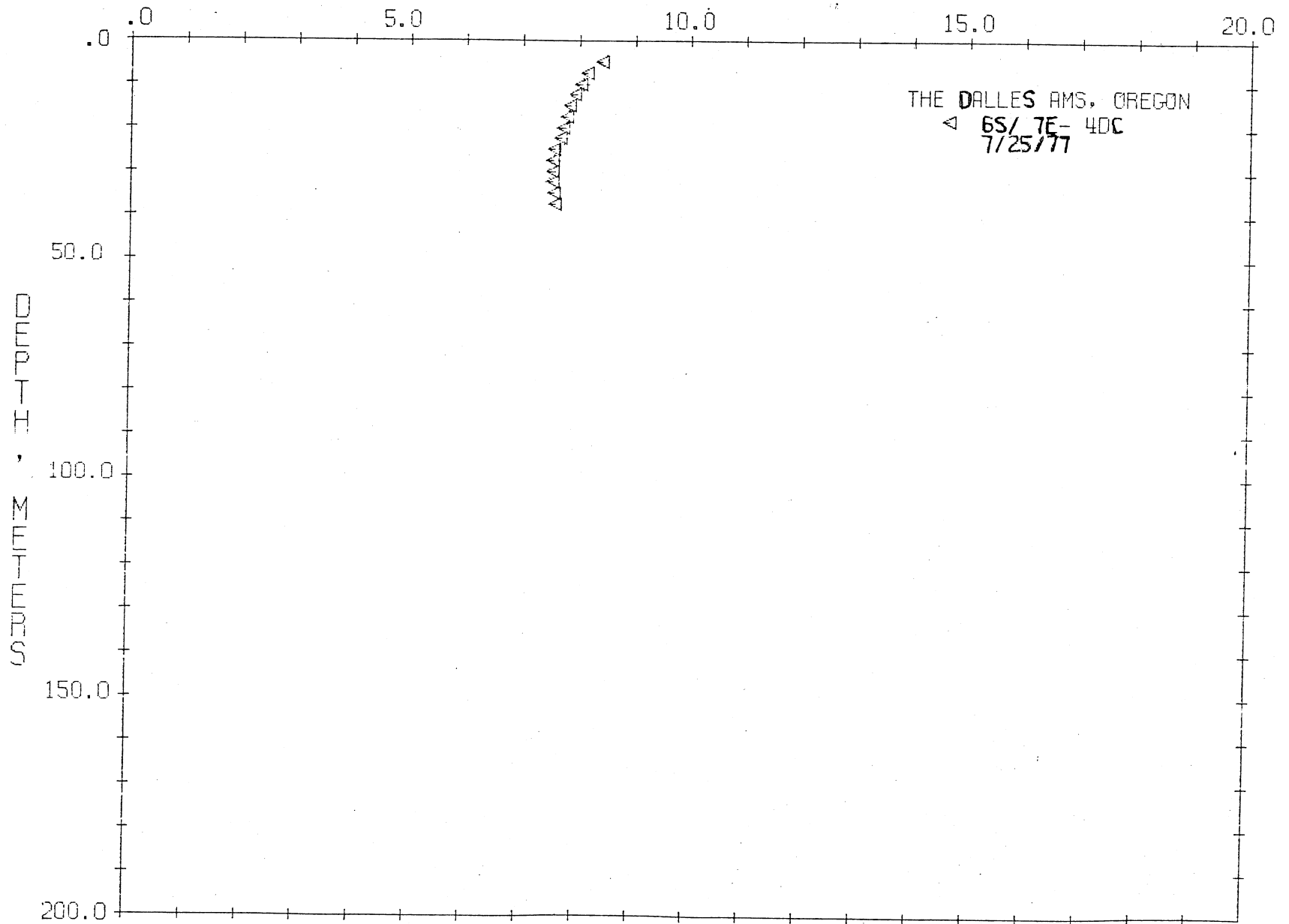
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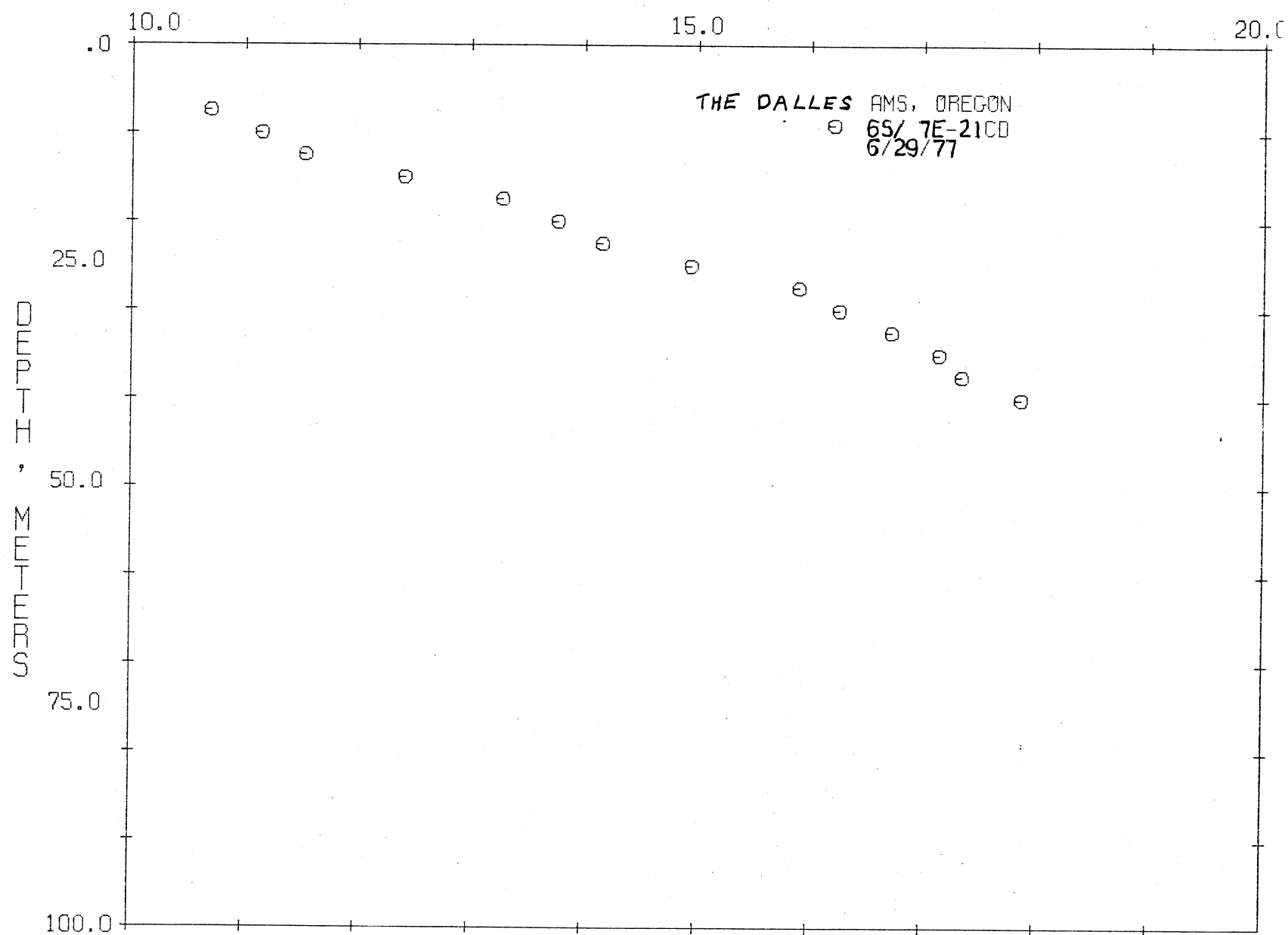
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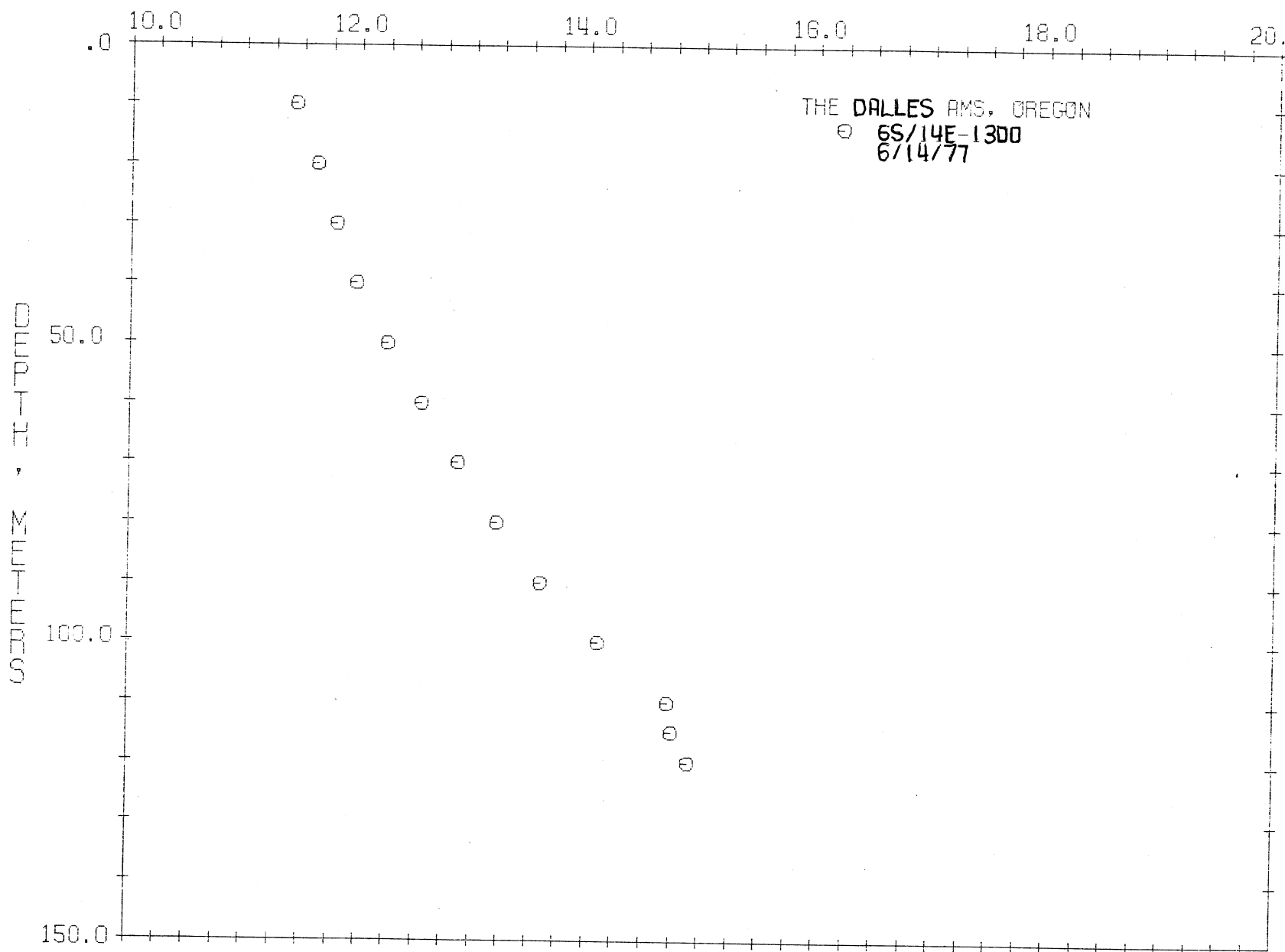
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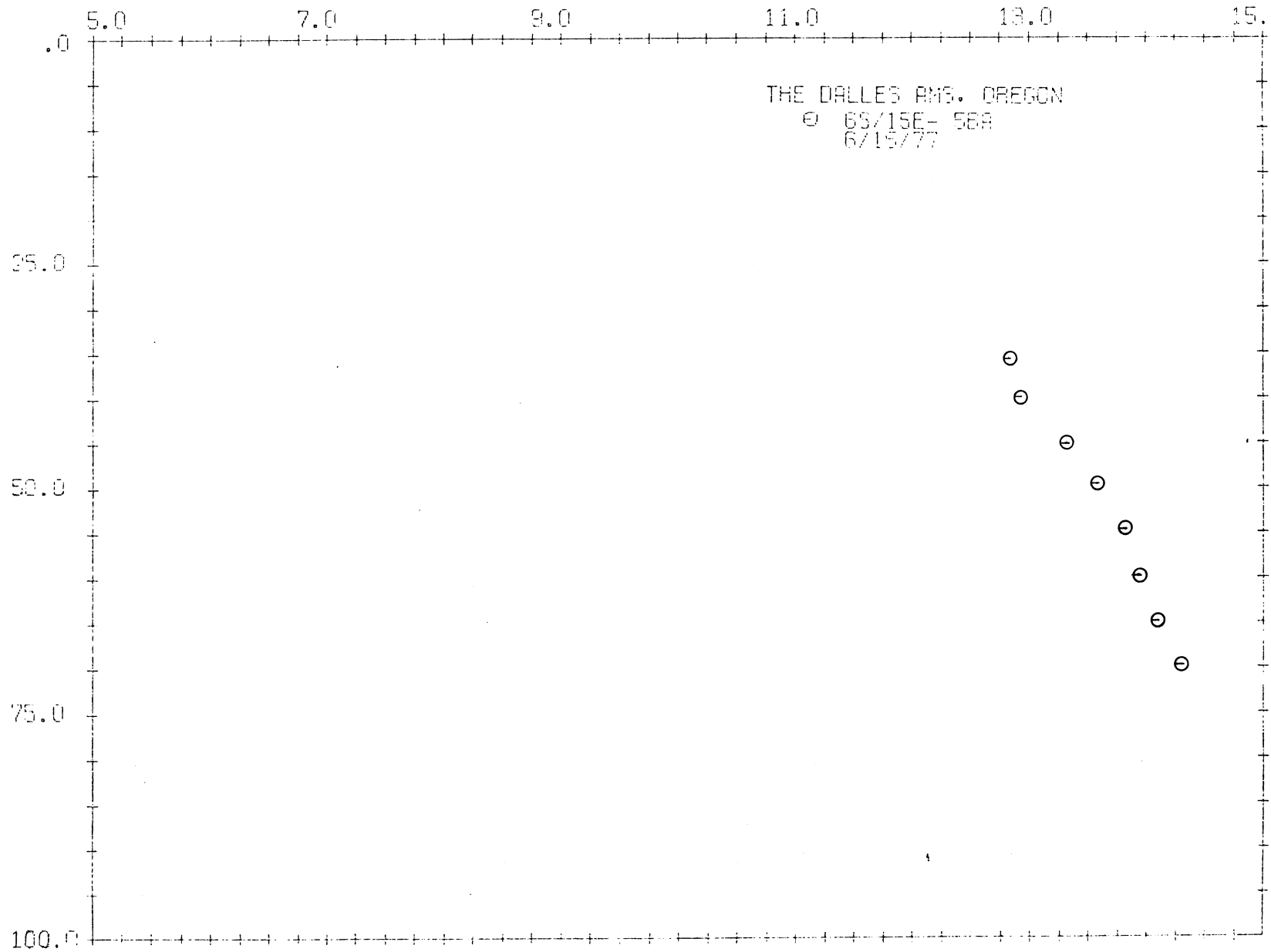
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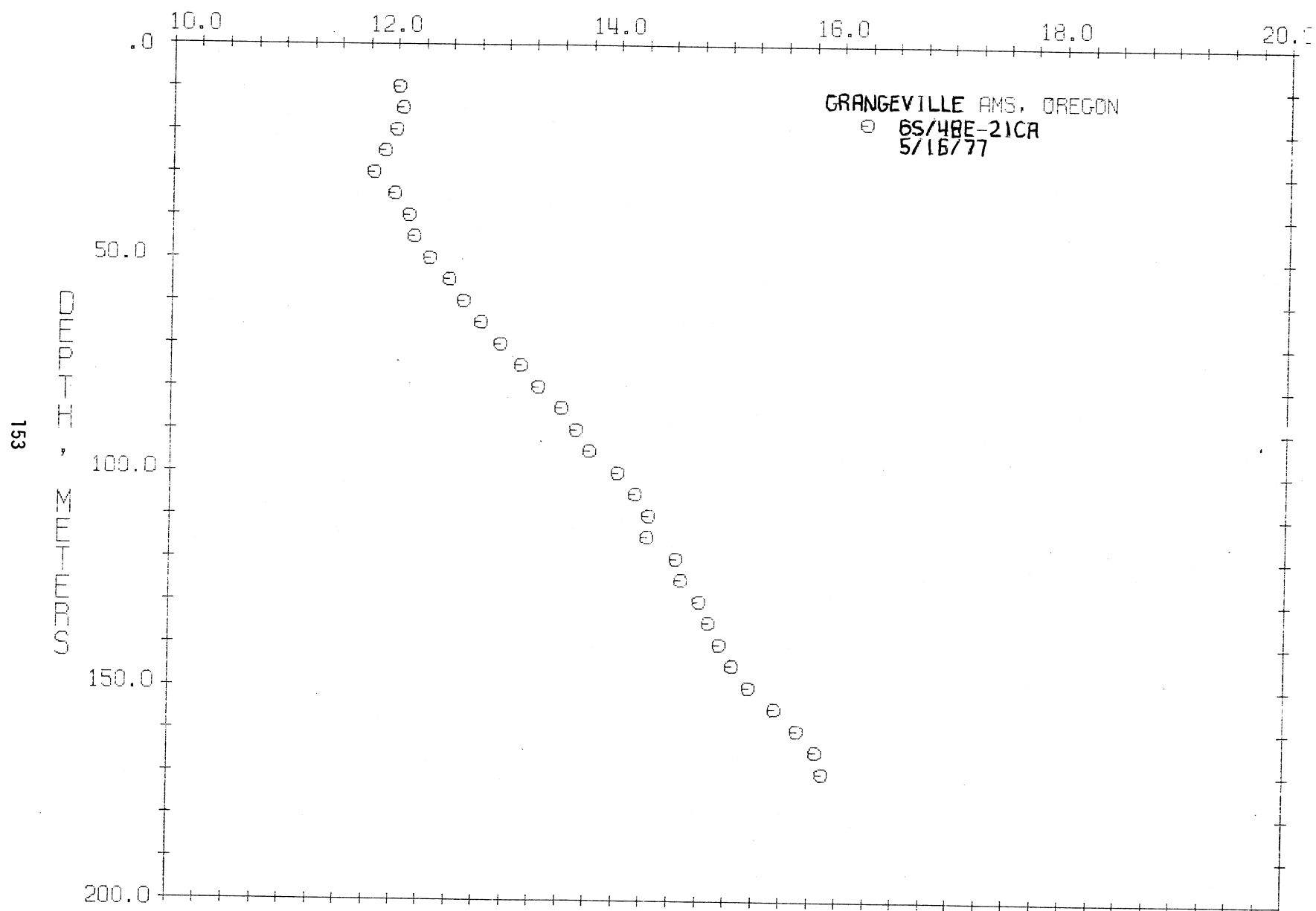
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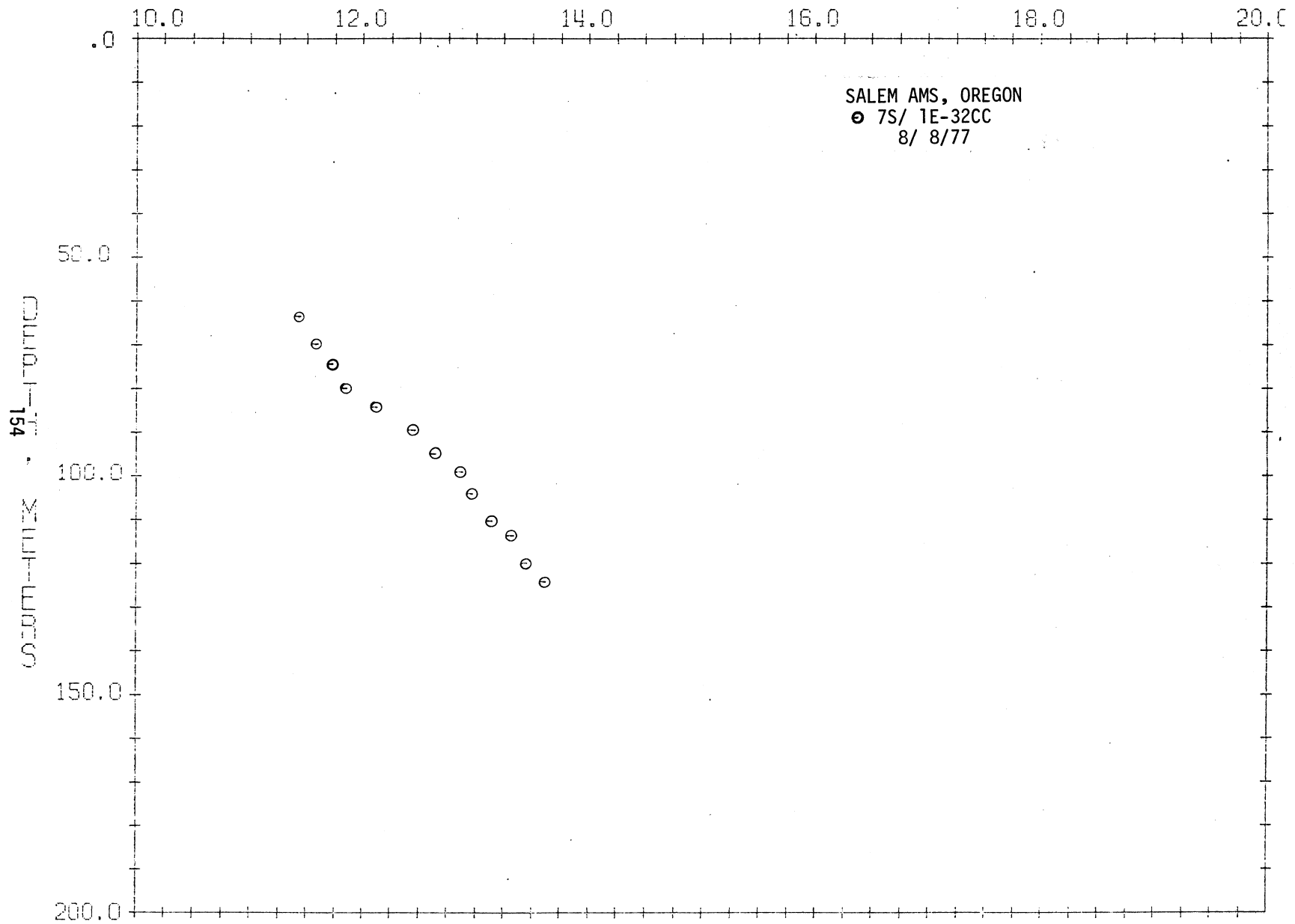
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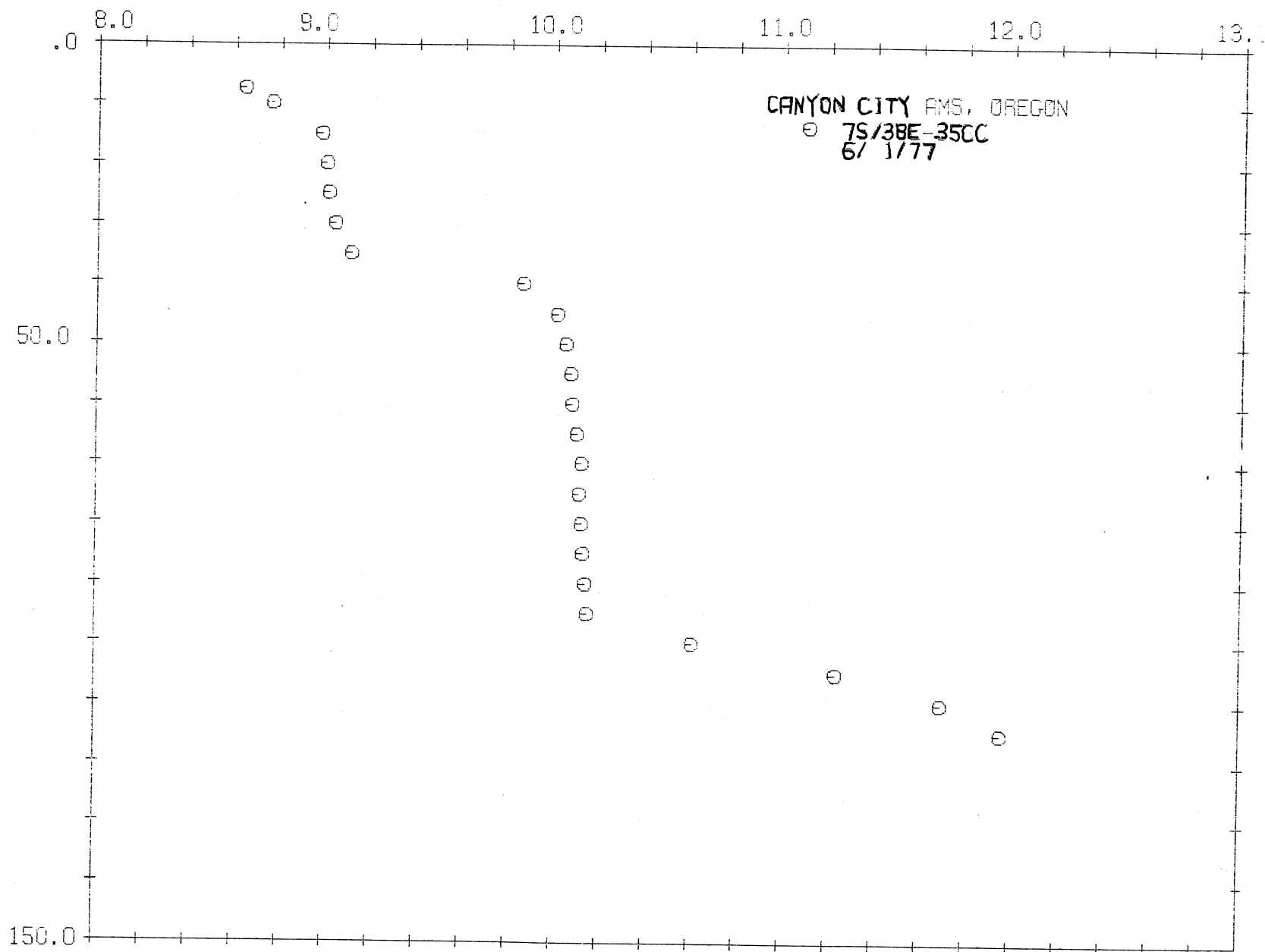
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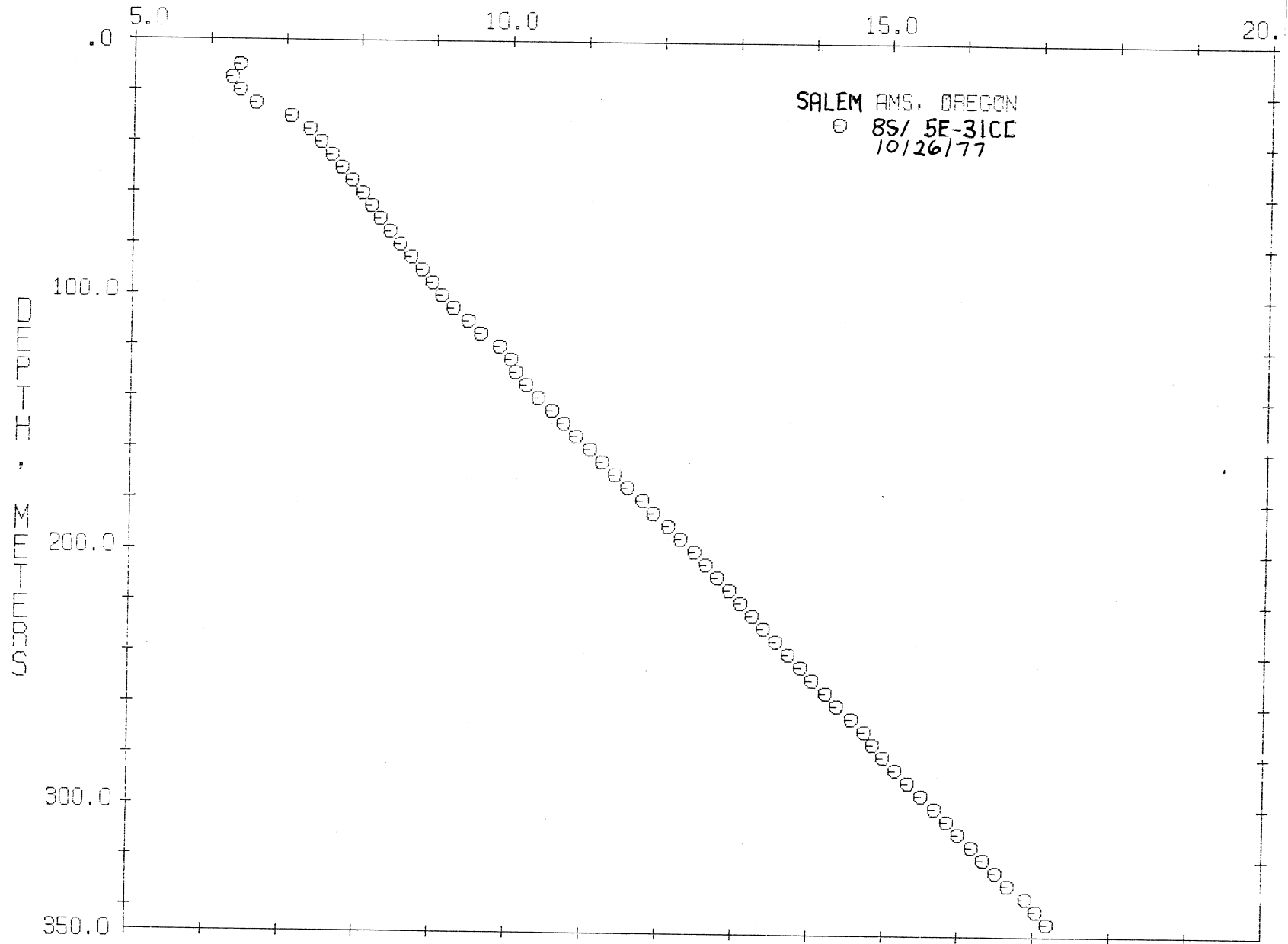
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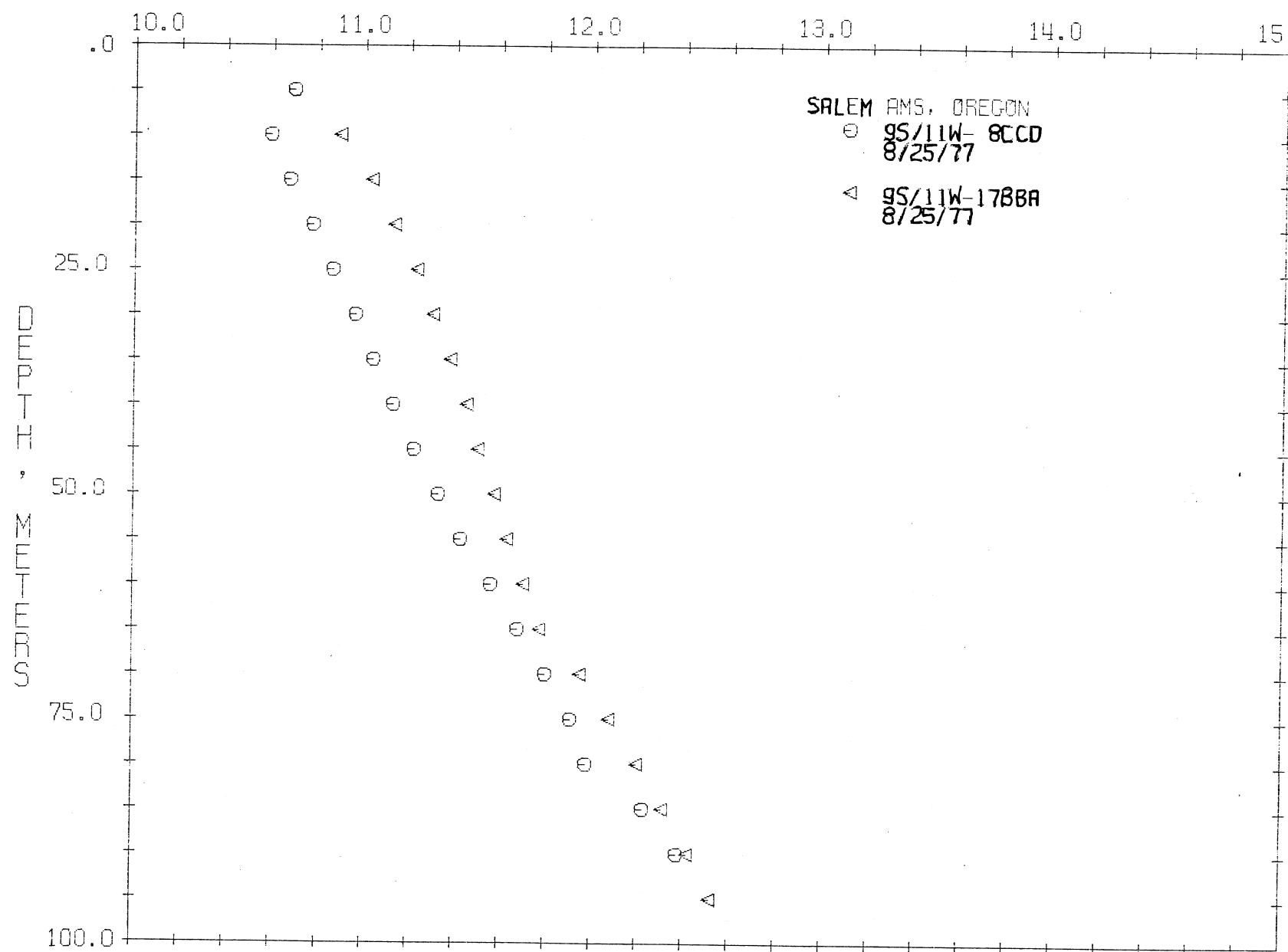
TEMPERATURE, DEG C



TEMPERATURE, DEG C

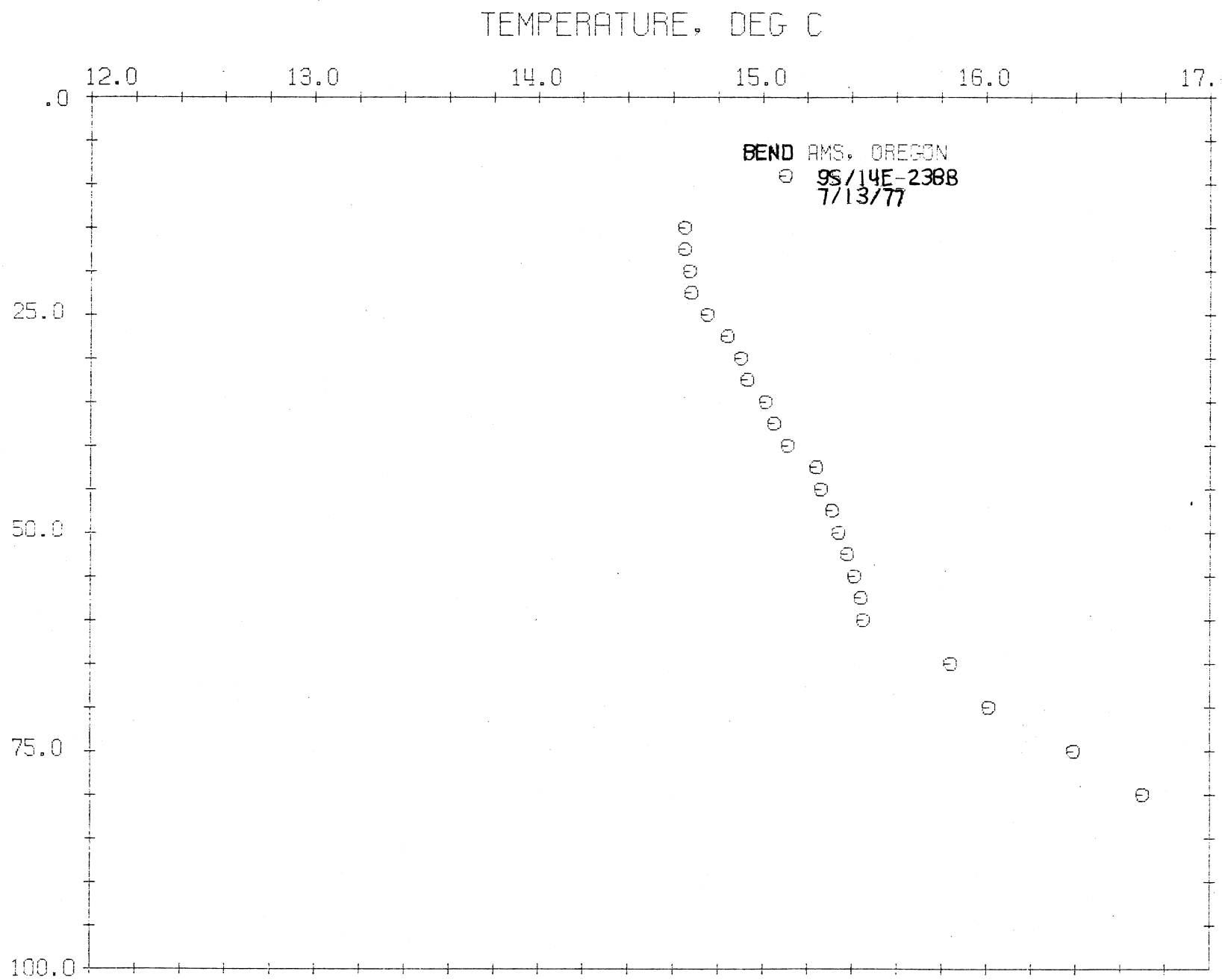


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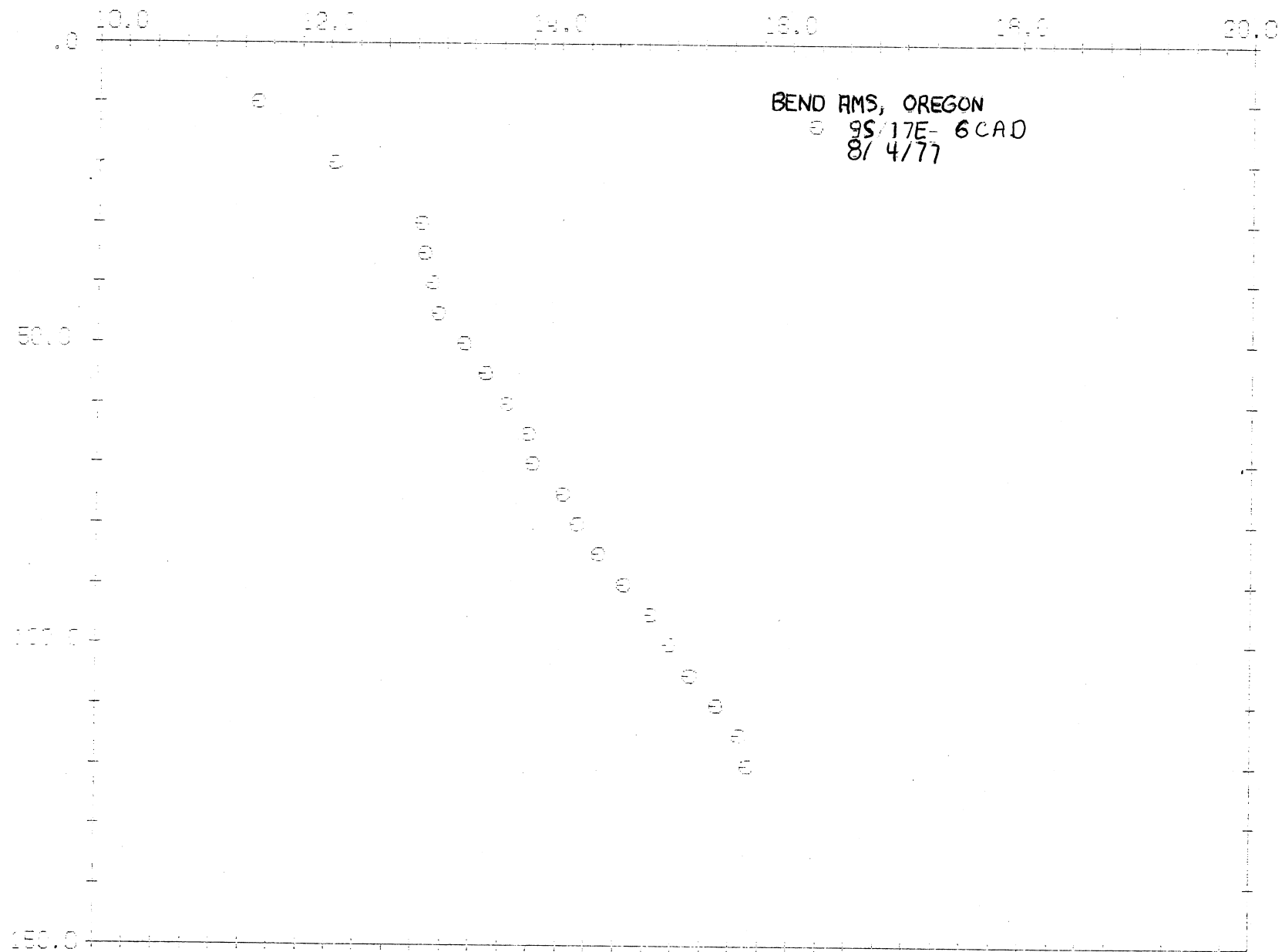


DEPTH, METERS

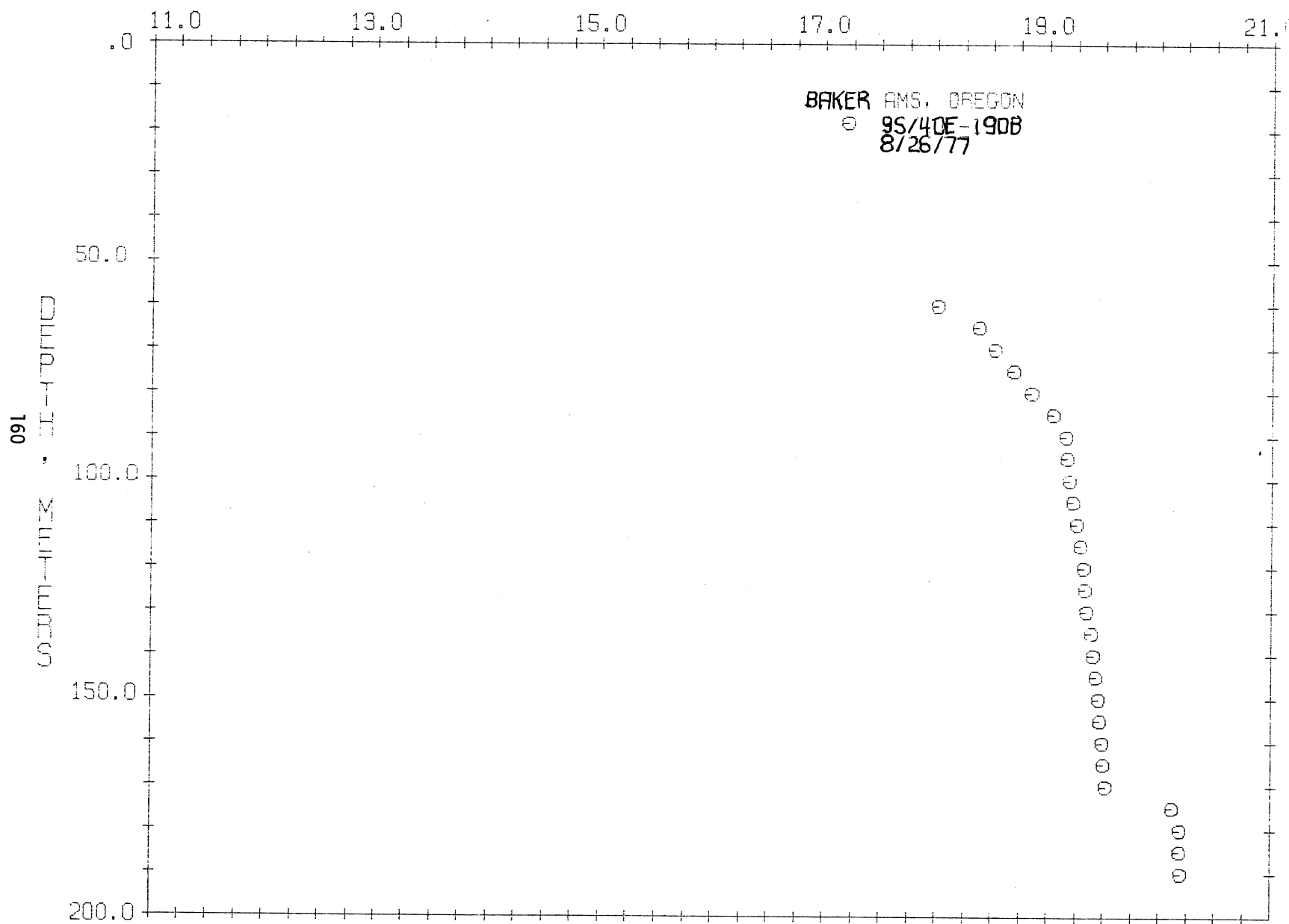
158
CLOUD-HIT - MINUTES

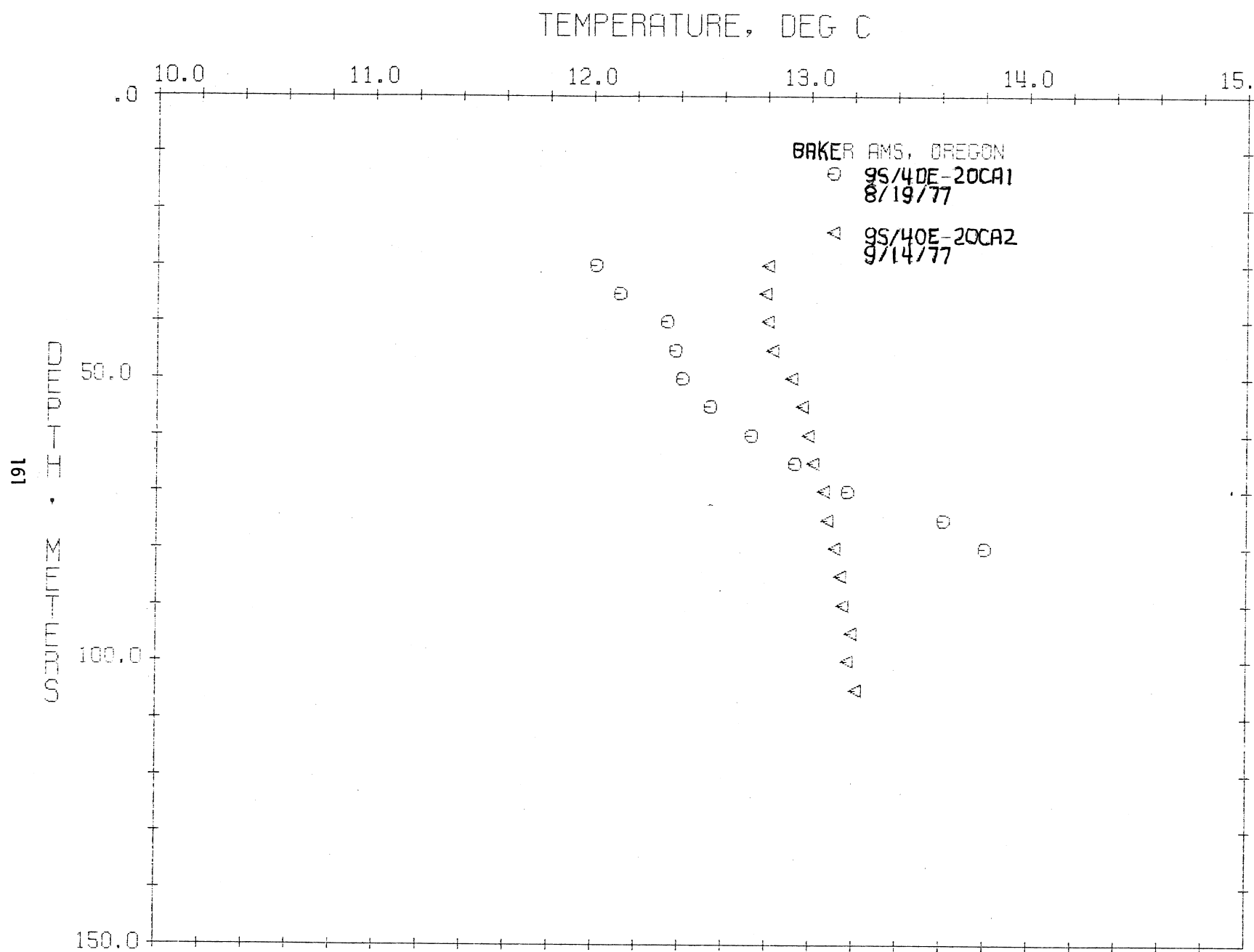


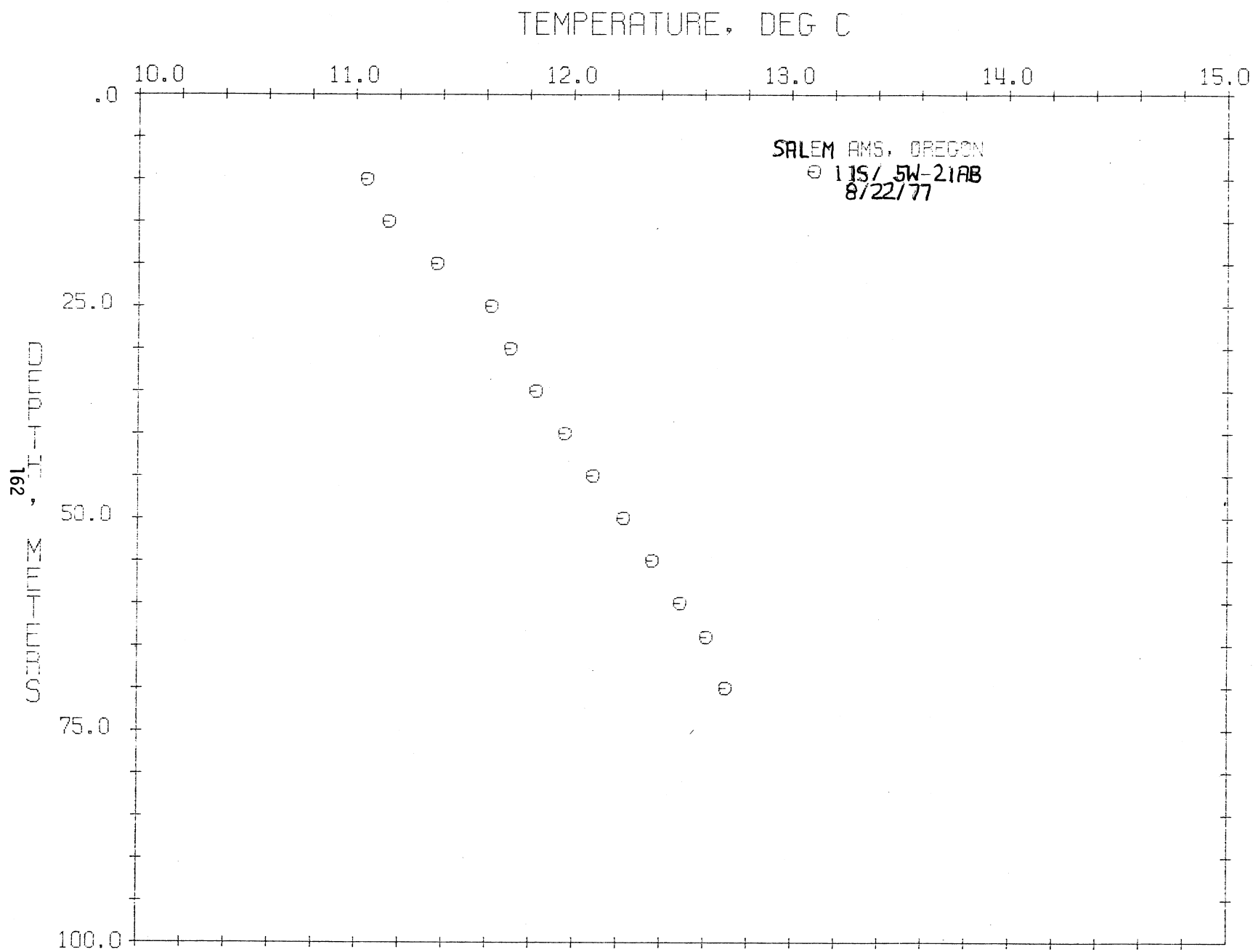
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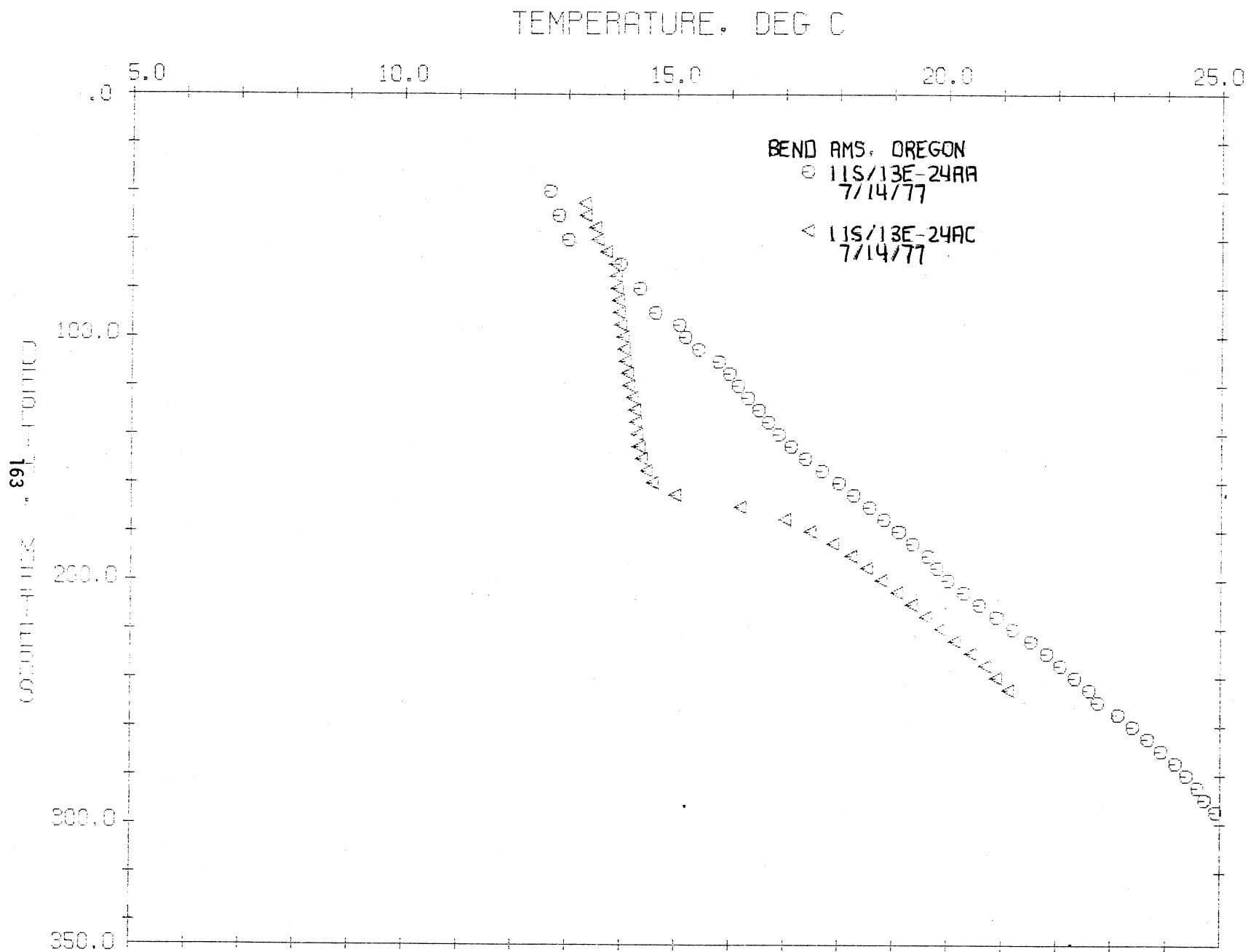


TEMPERATURE, DEG C

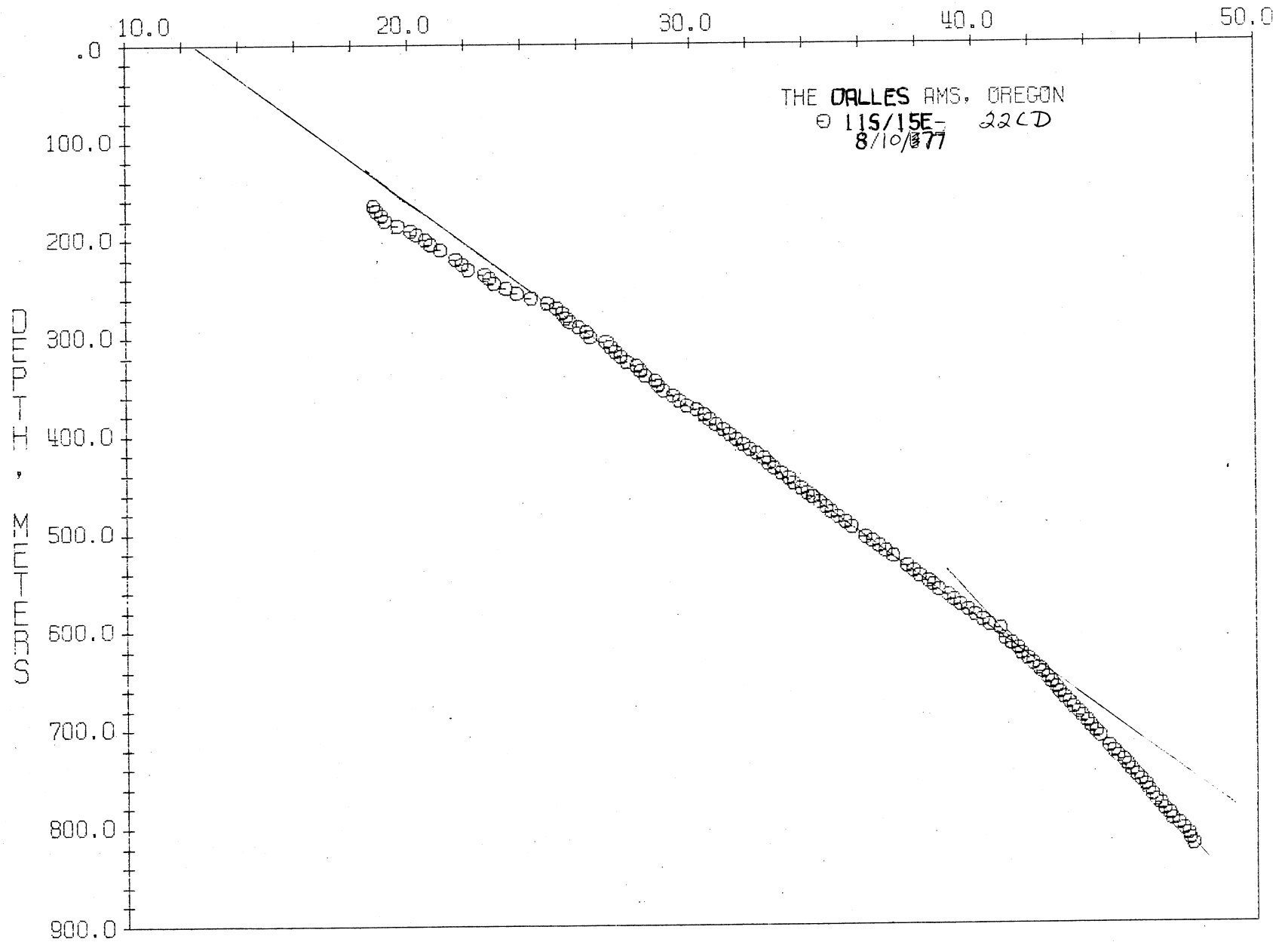




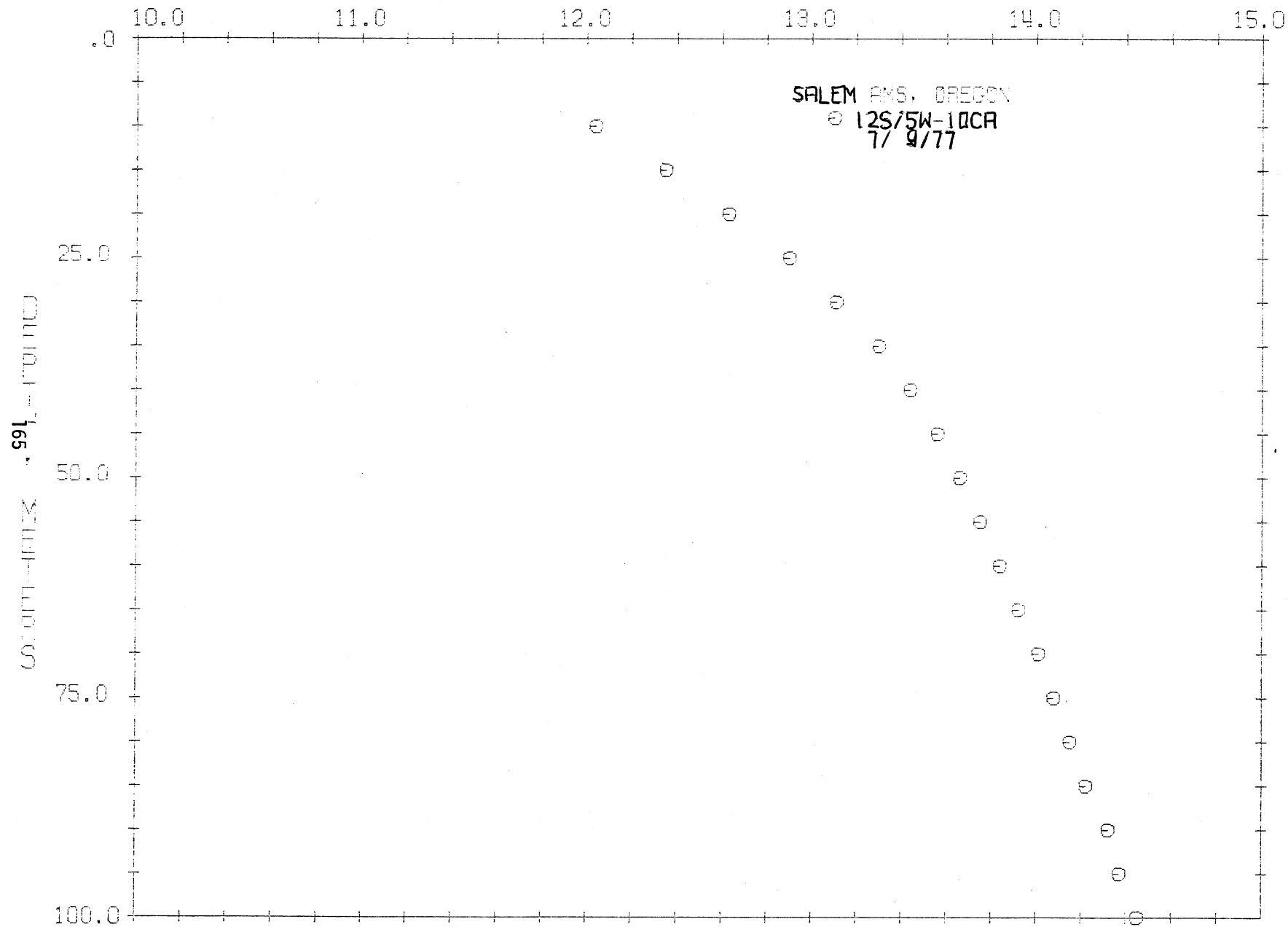


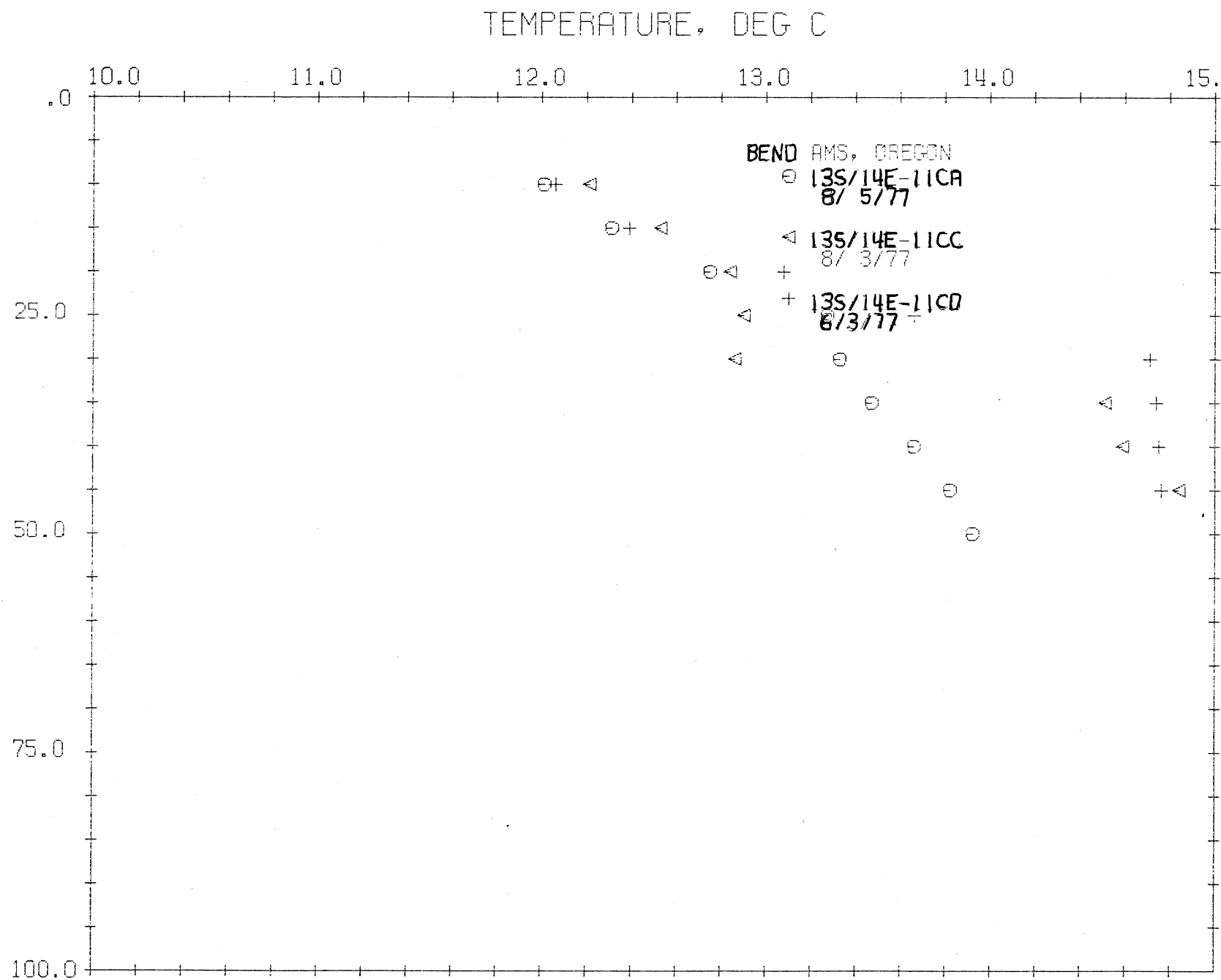


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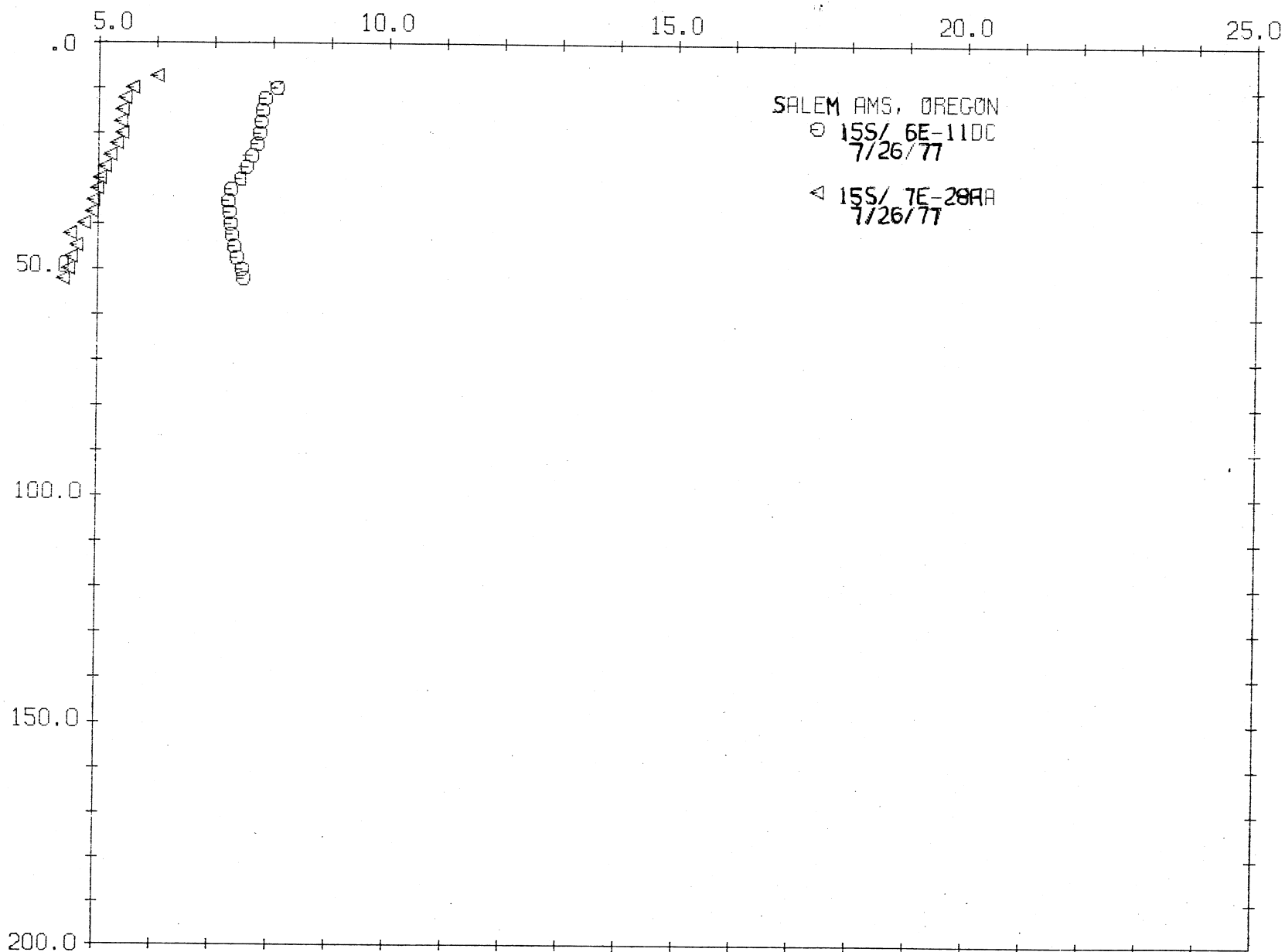


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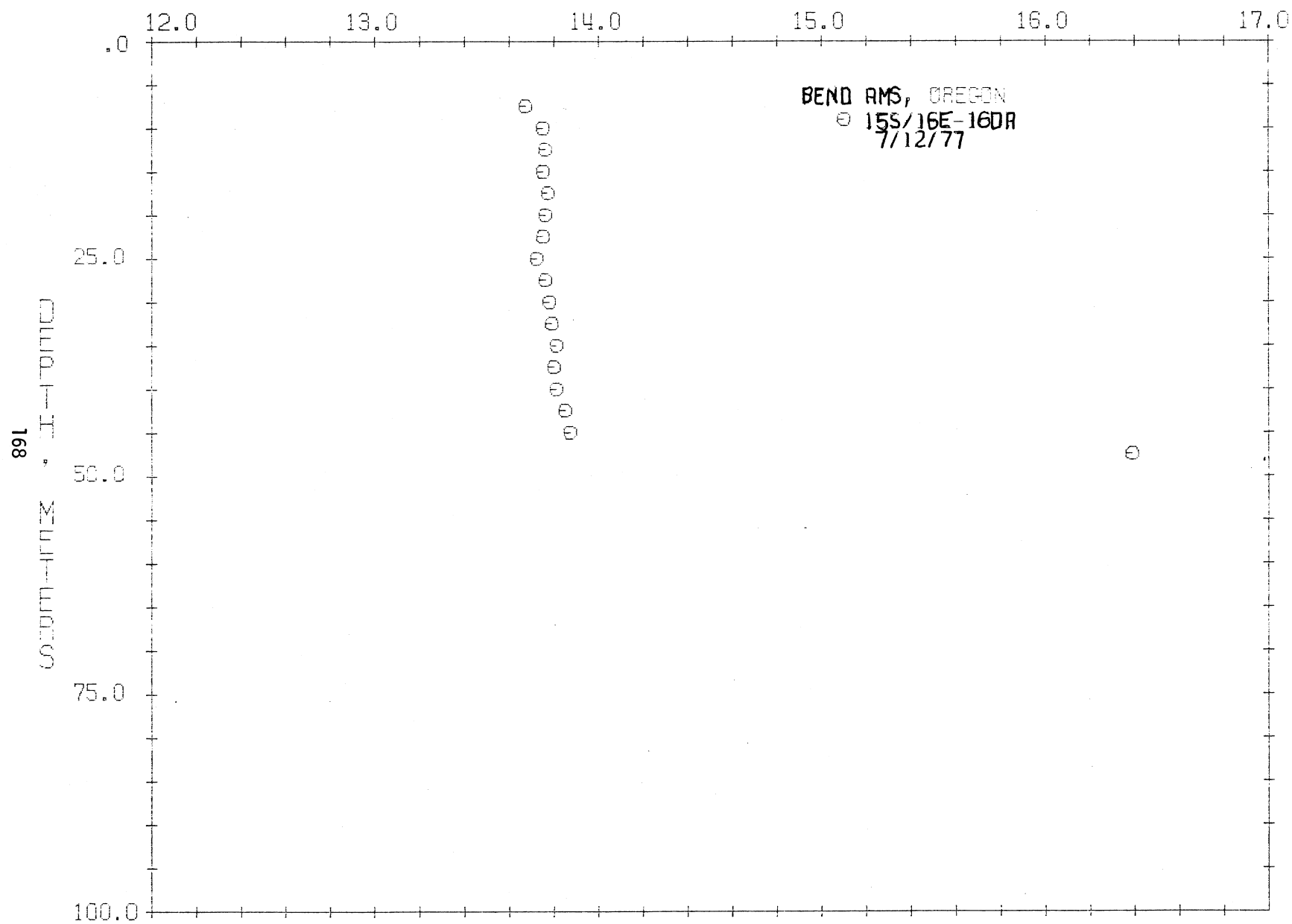




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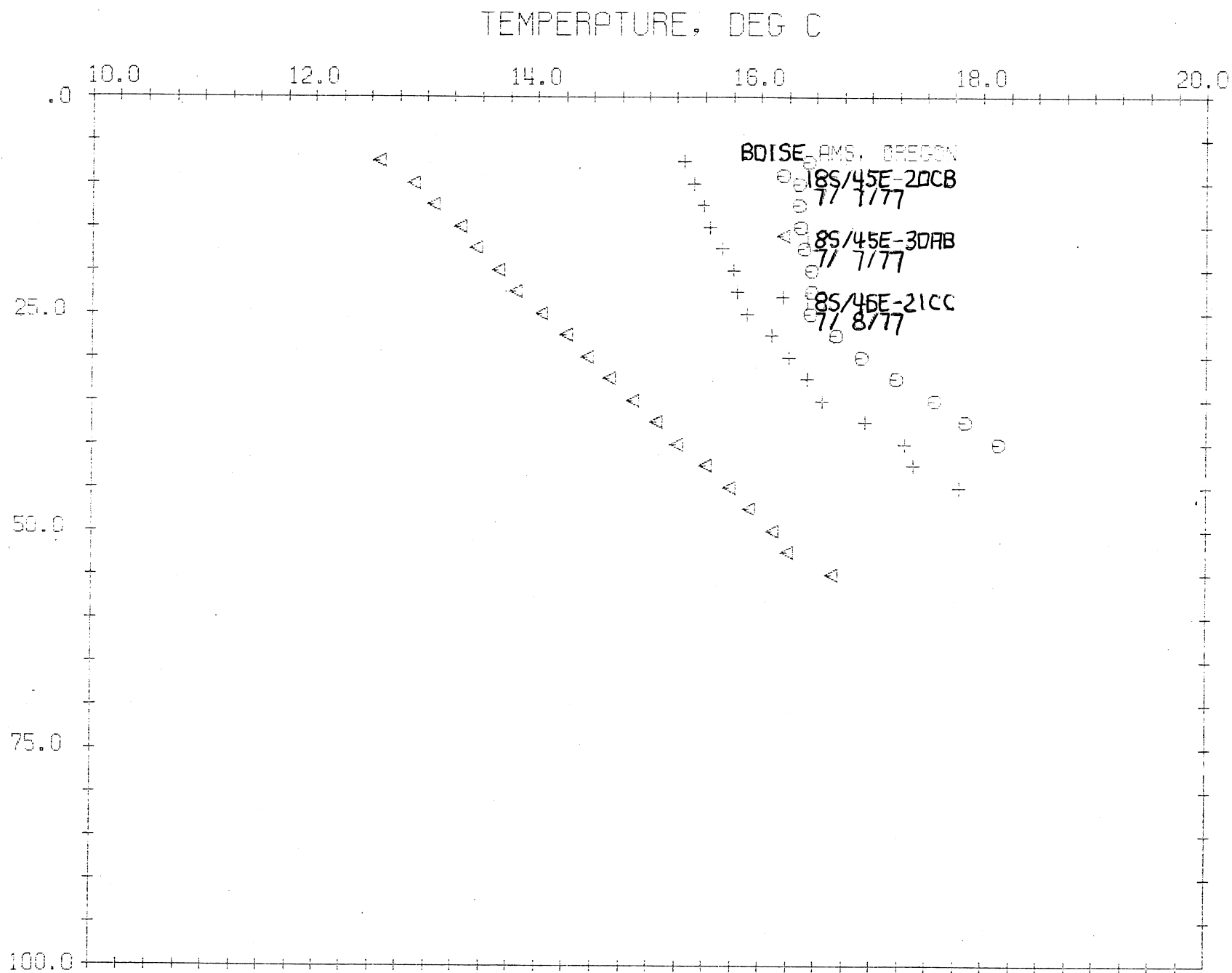


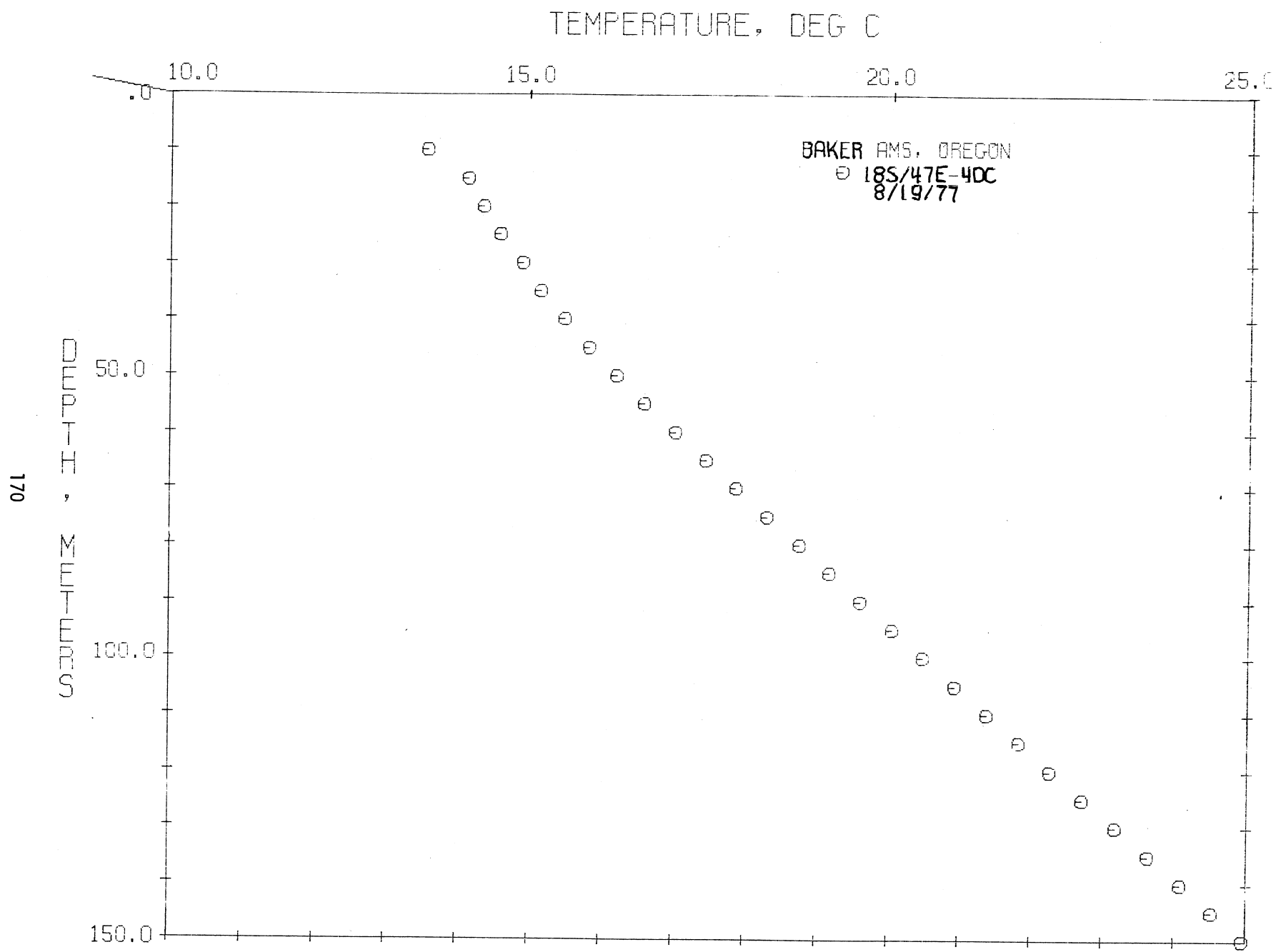
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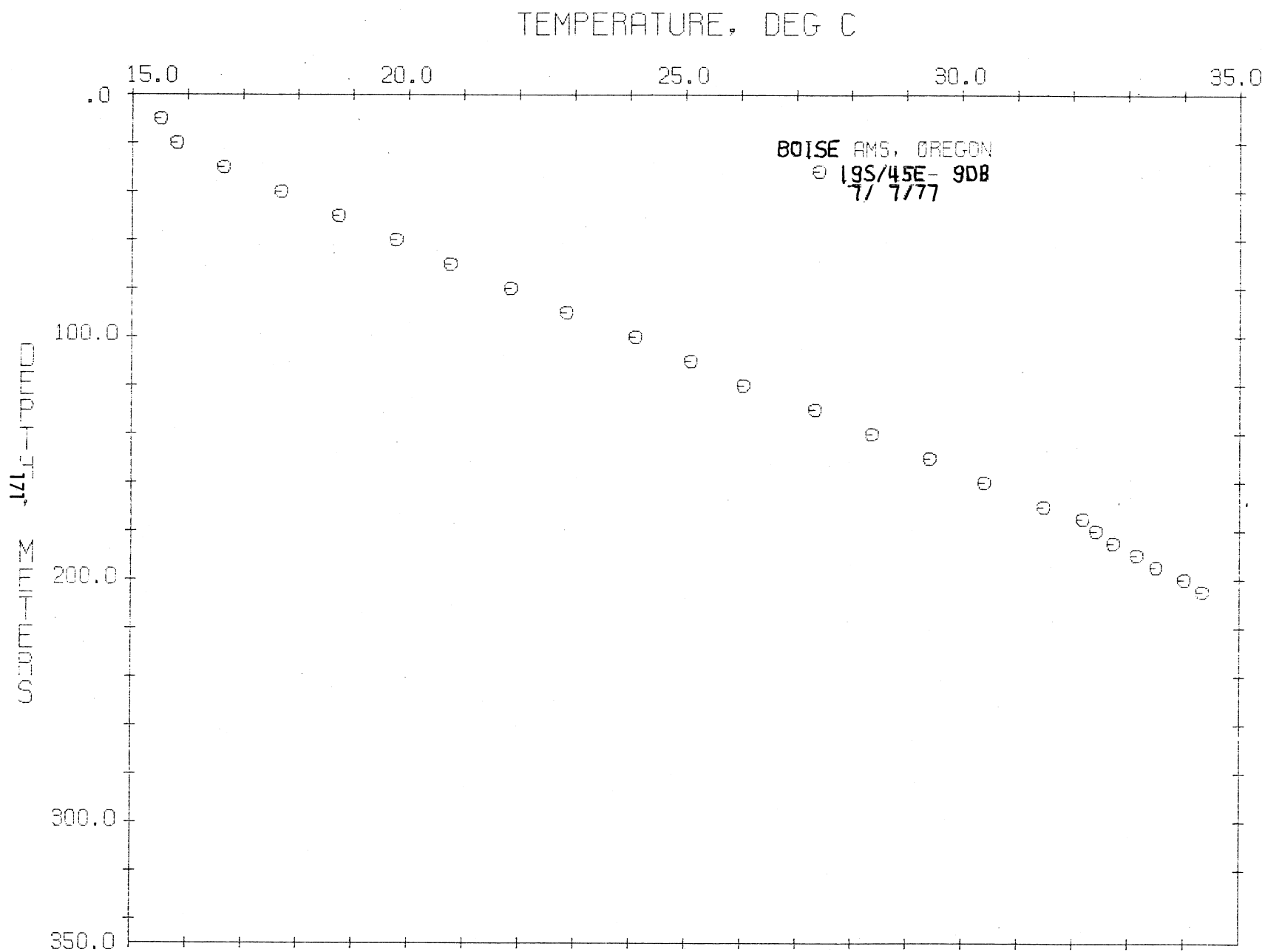


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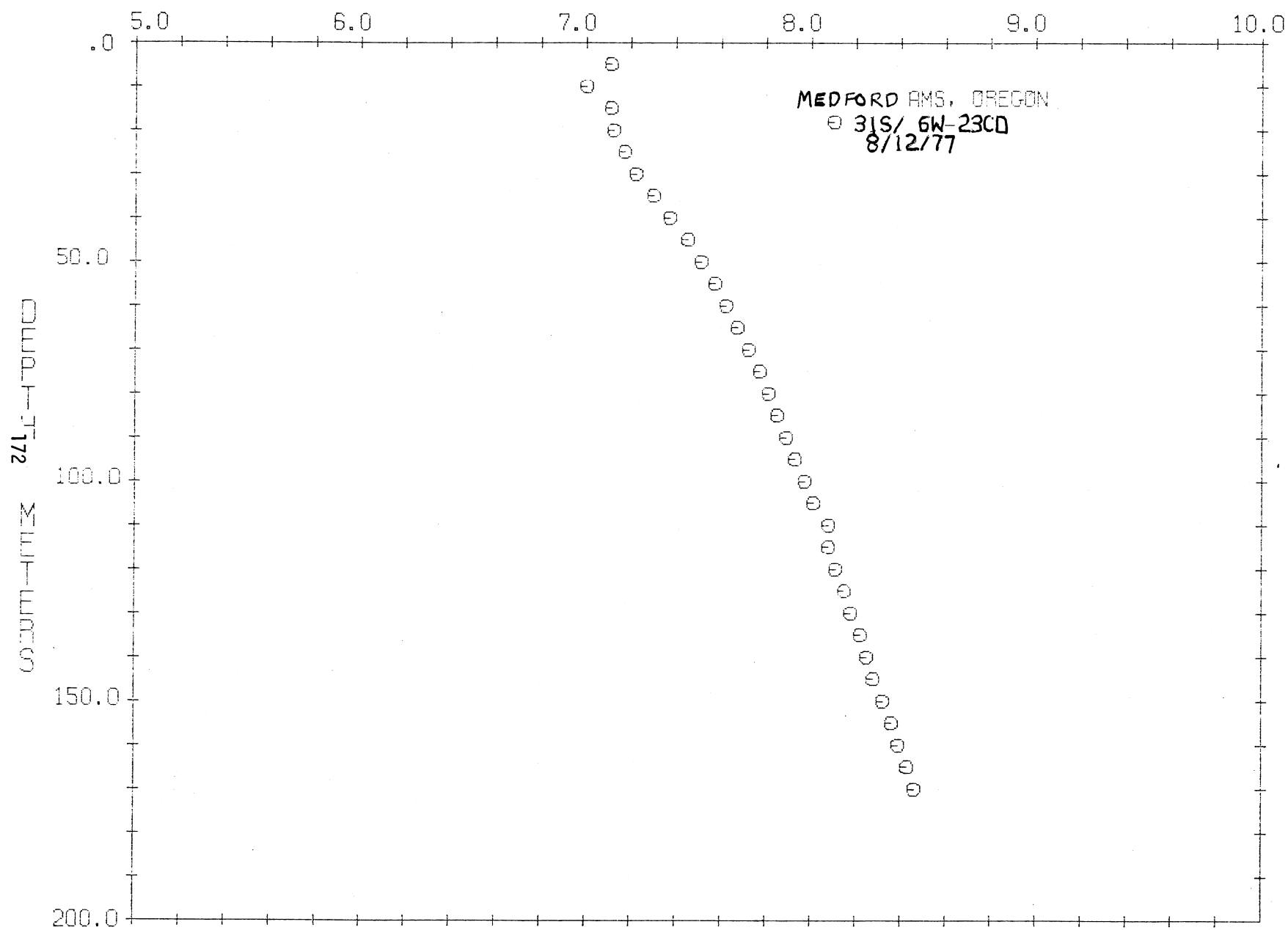
COULUMETER



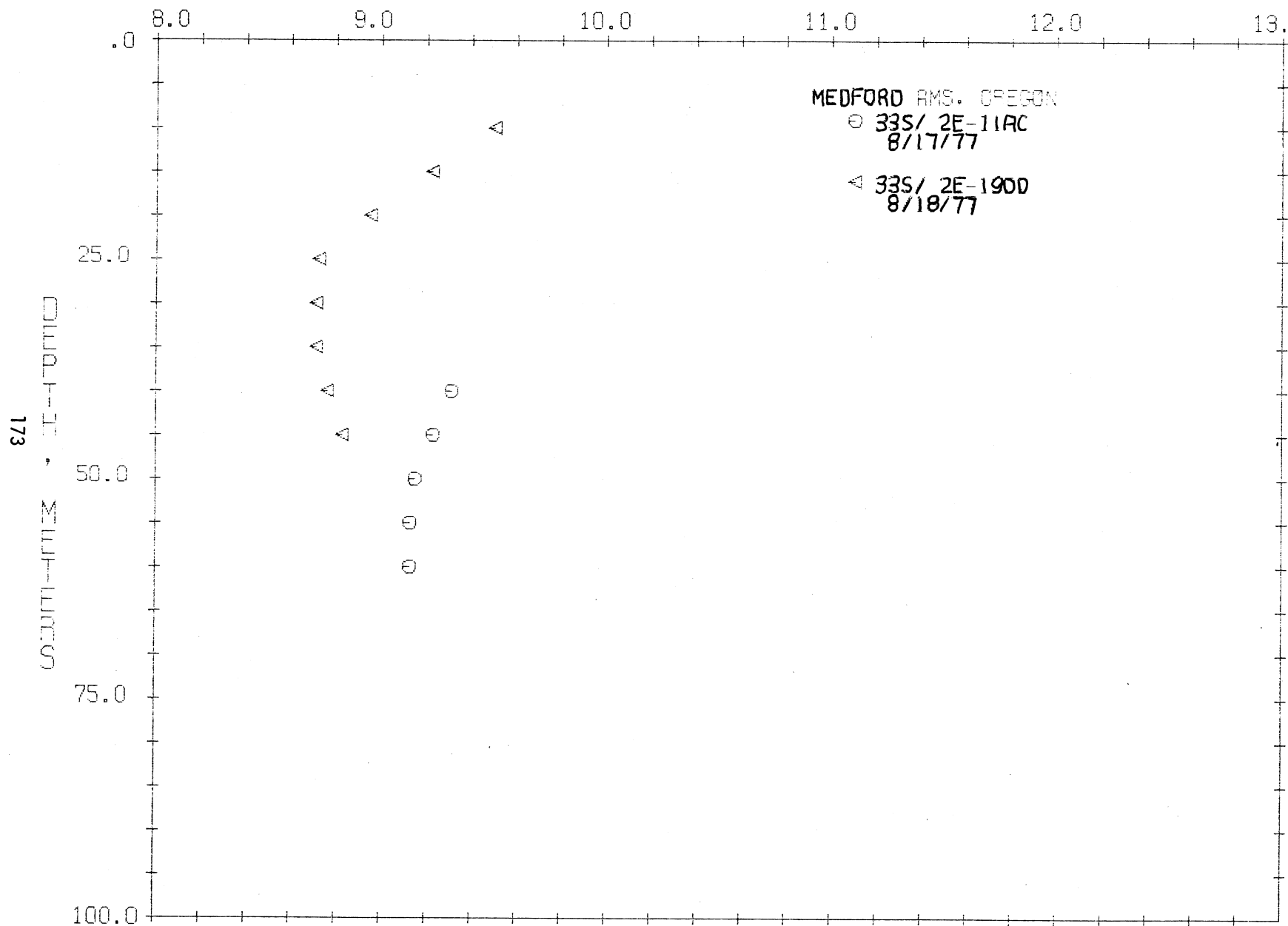




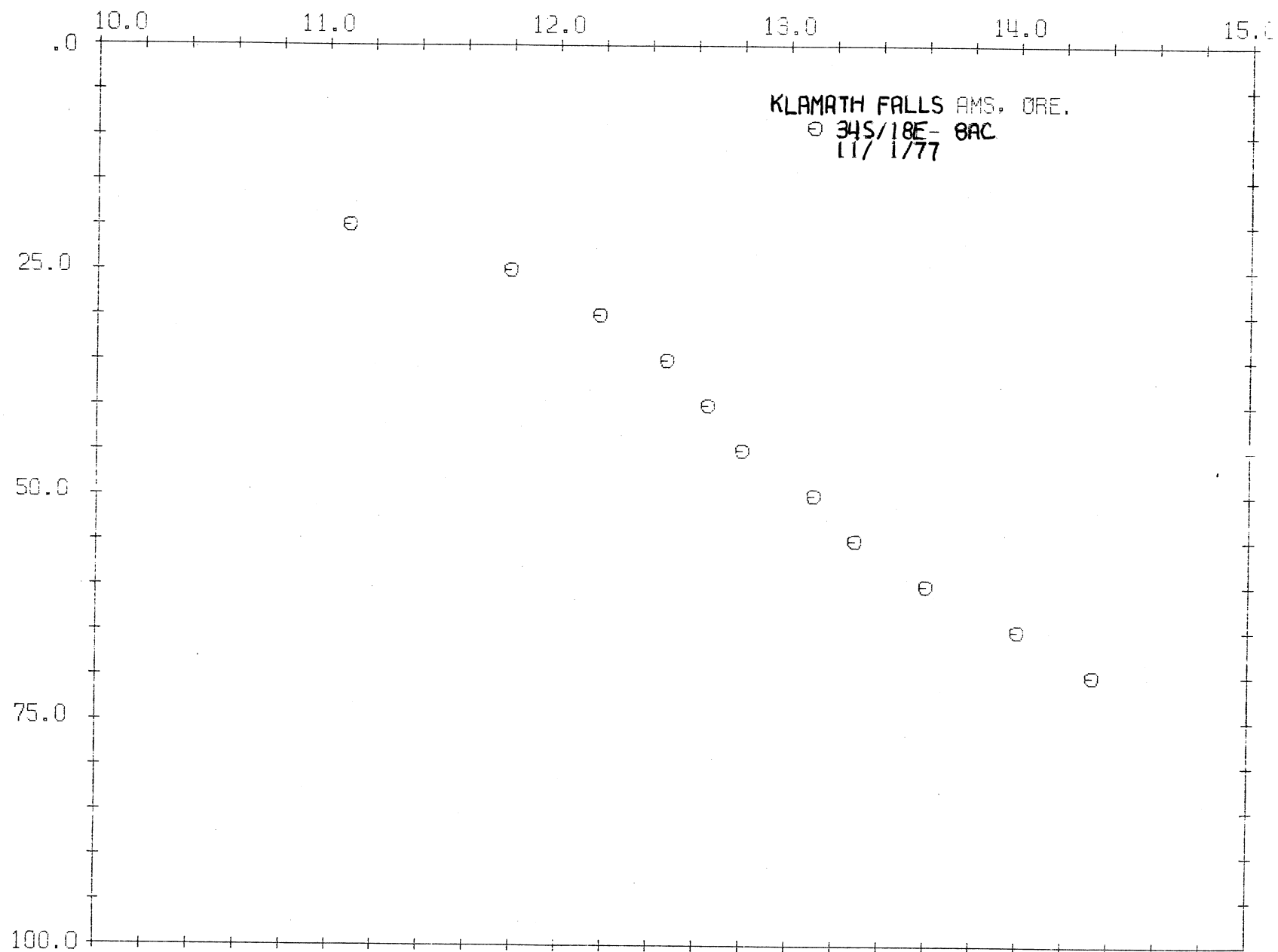
TEMPERATURE, DEG C



TEMPERATURE, DEG C



TEMPERATURE, DEG C

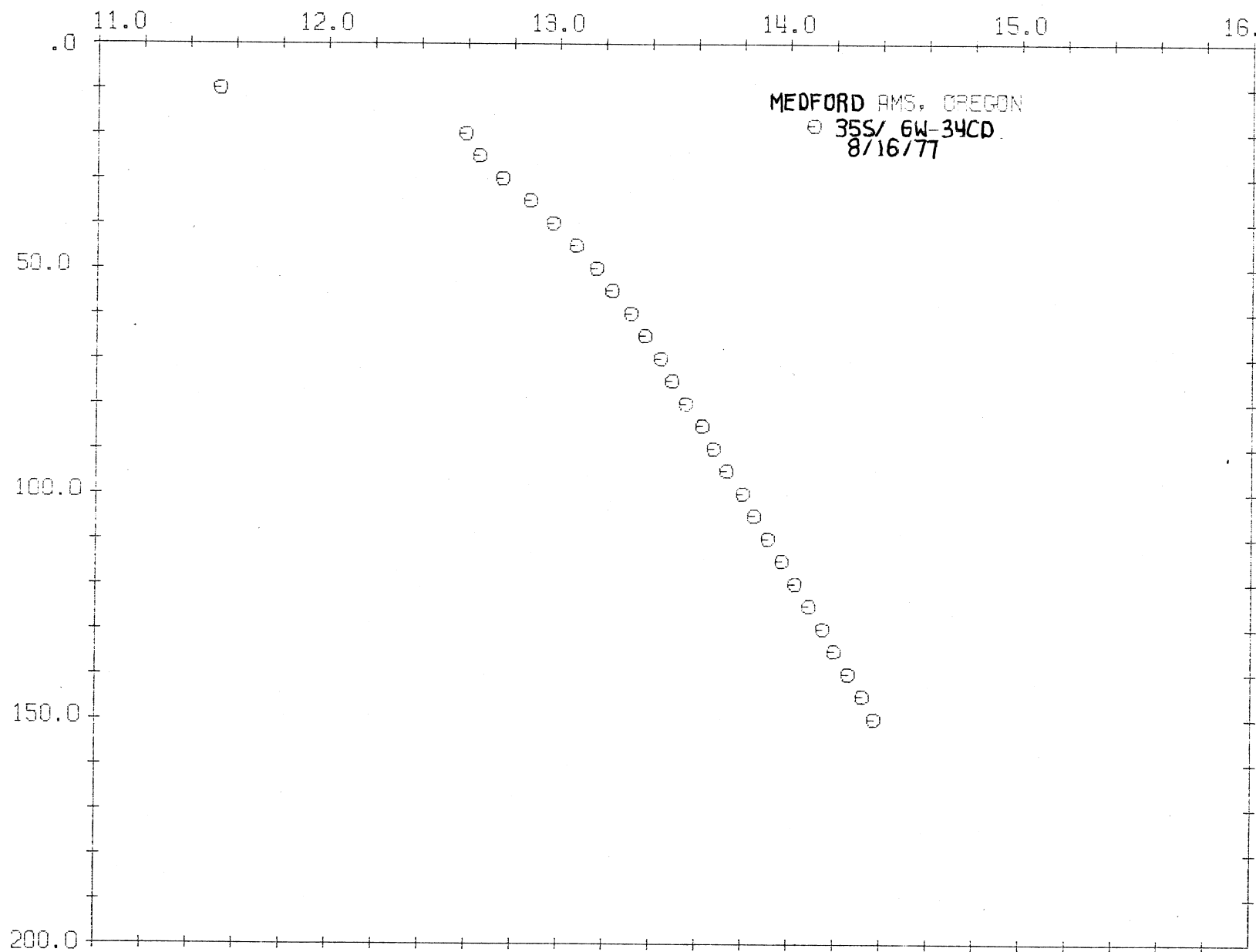


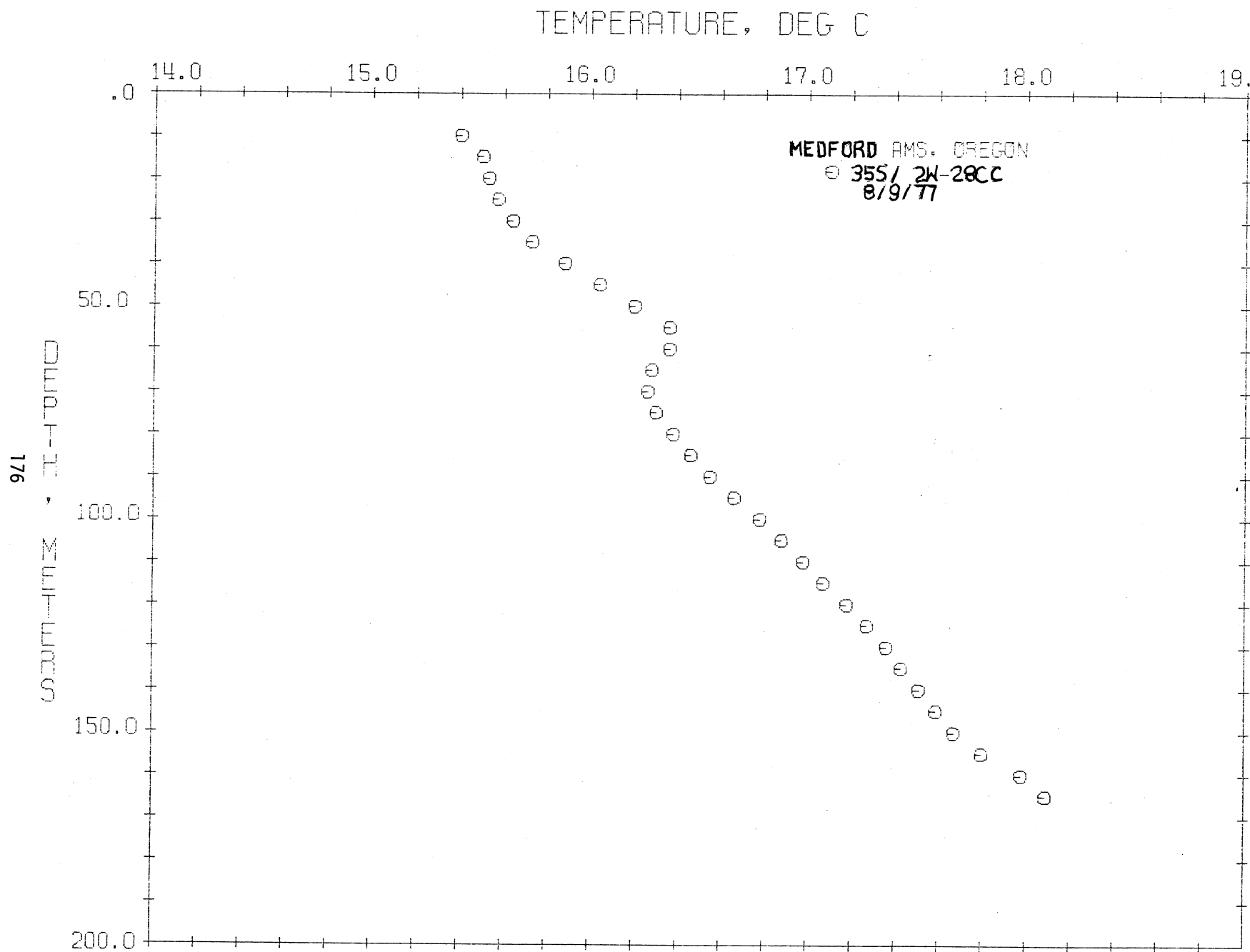
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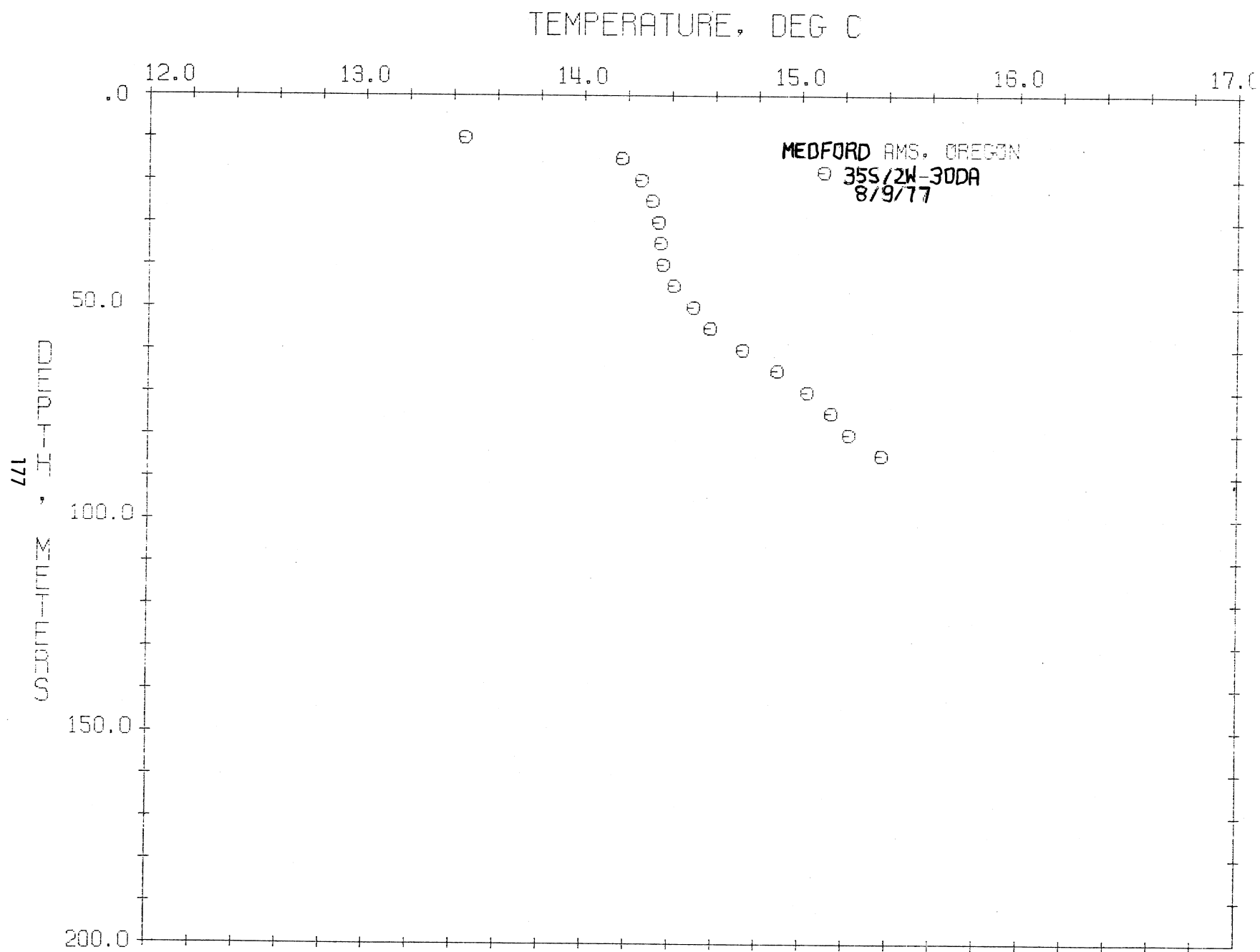
175

DEPTH, METERS

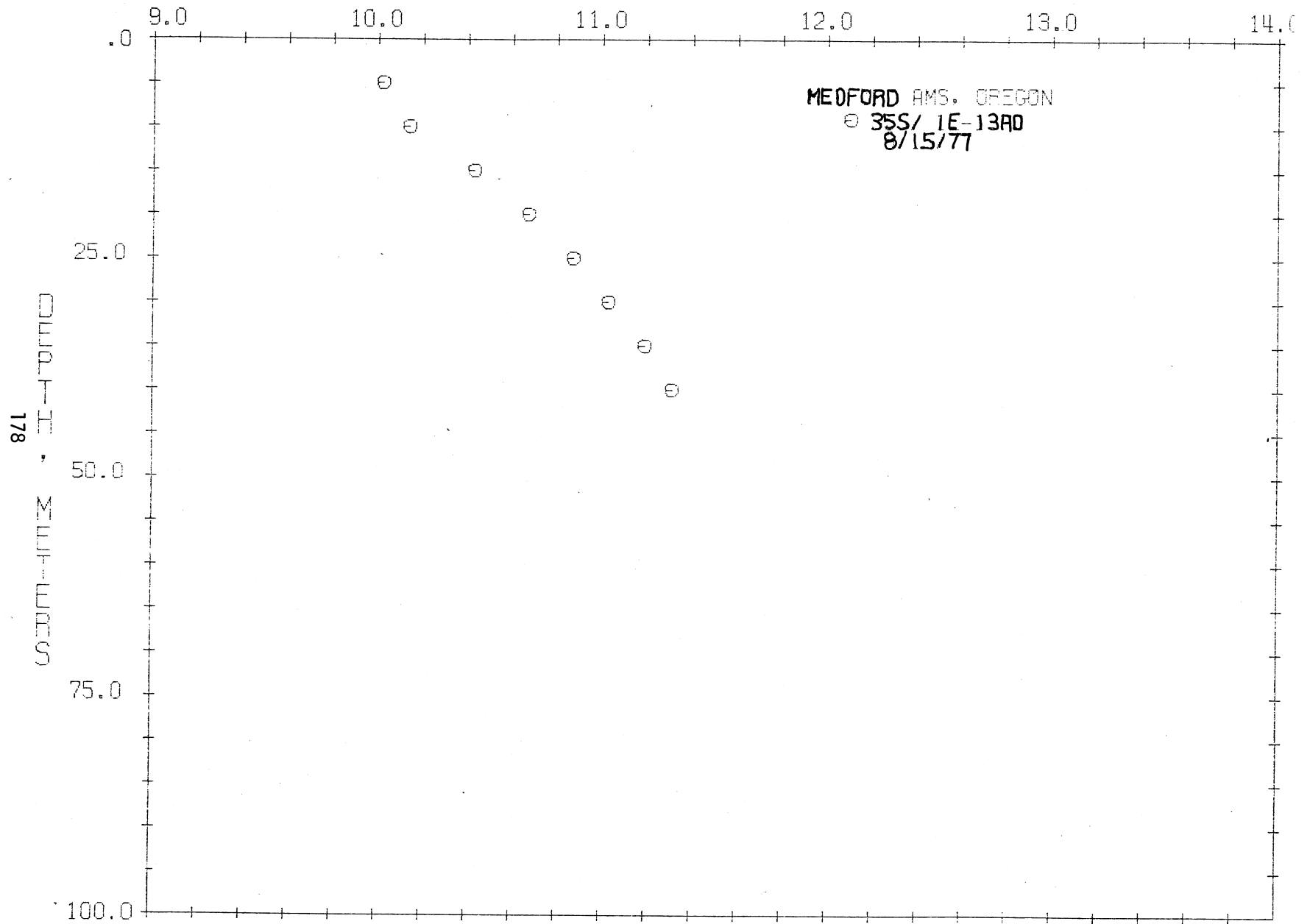
TEMPERATURE, DEG C



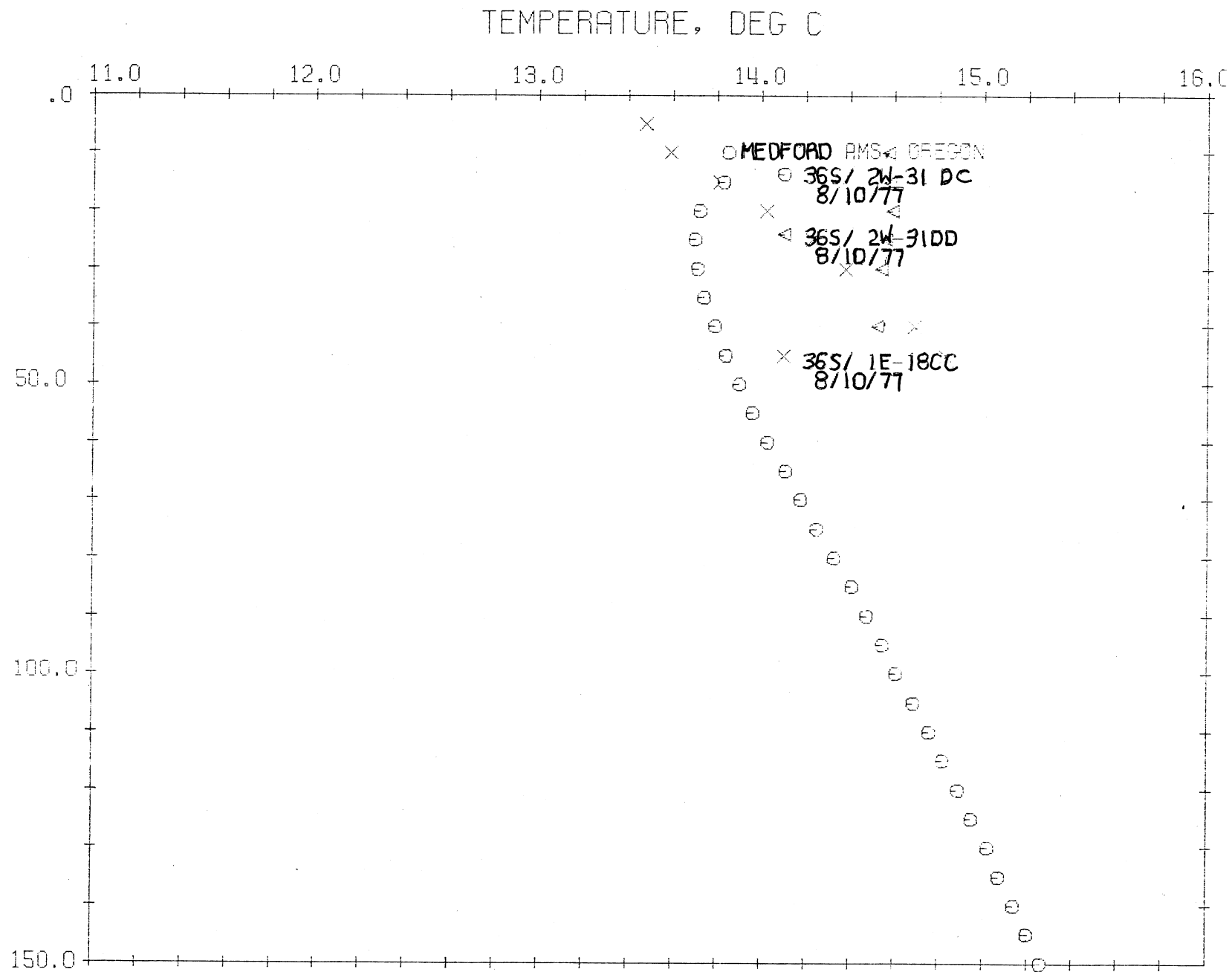




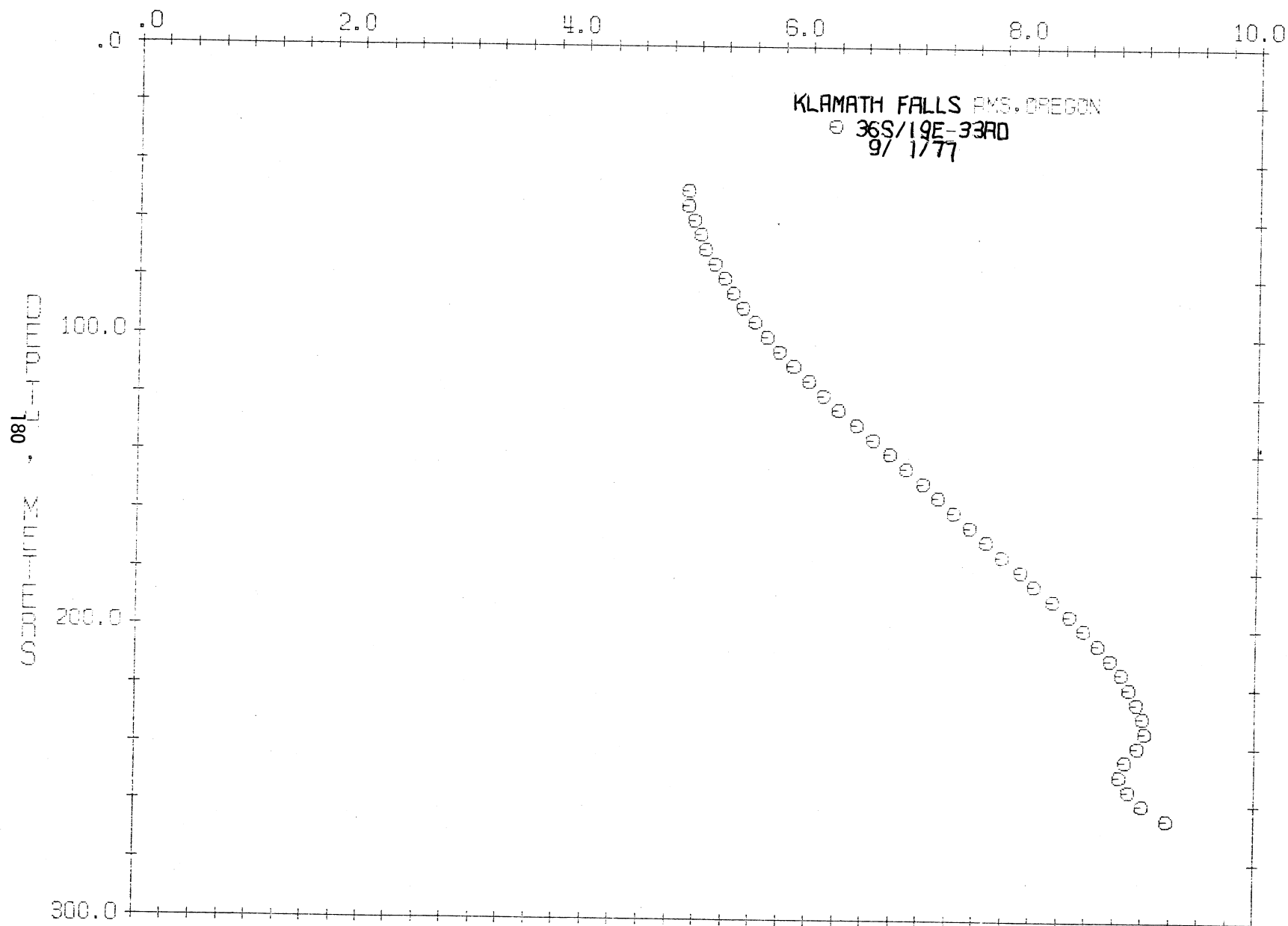
TEMPERATURE, DEG C



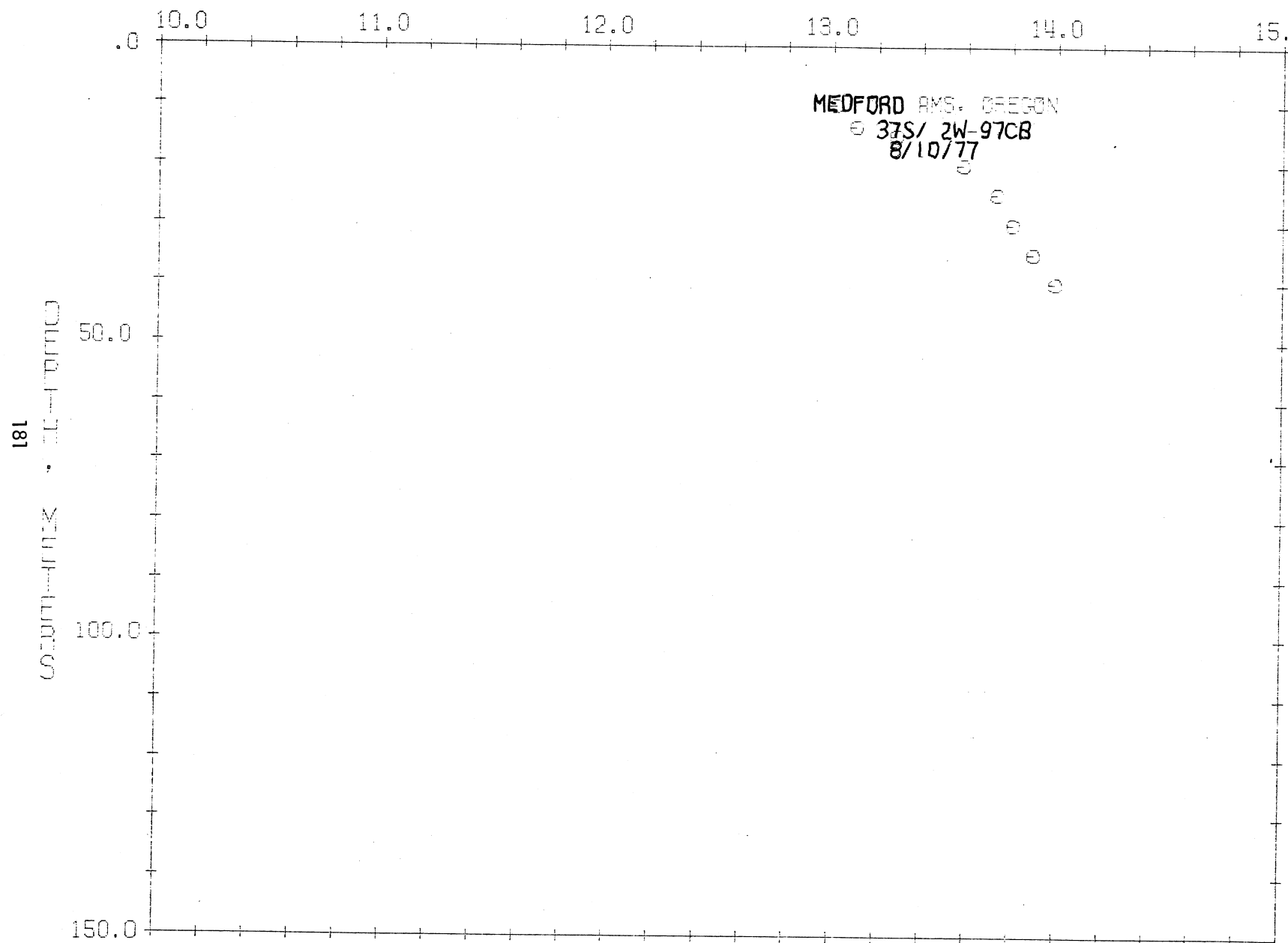
QUALITY - X-VALUES
179



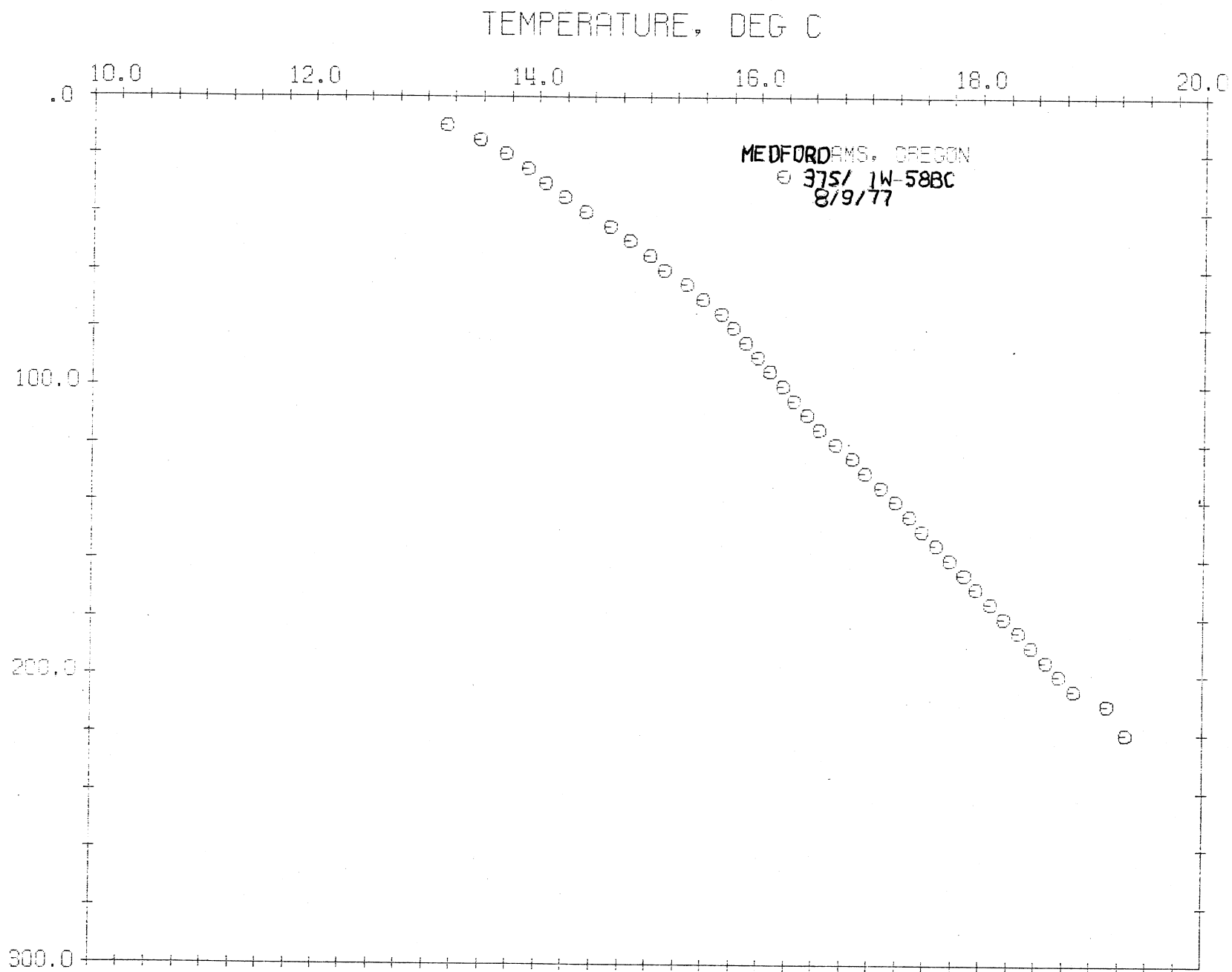
TEMPERATURE, DEG C

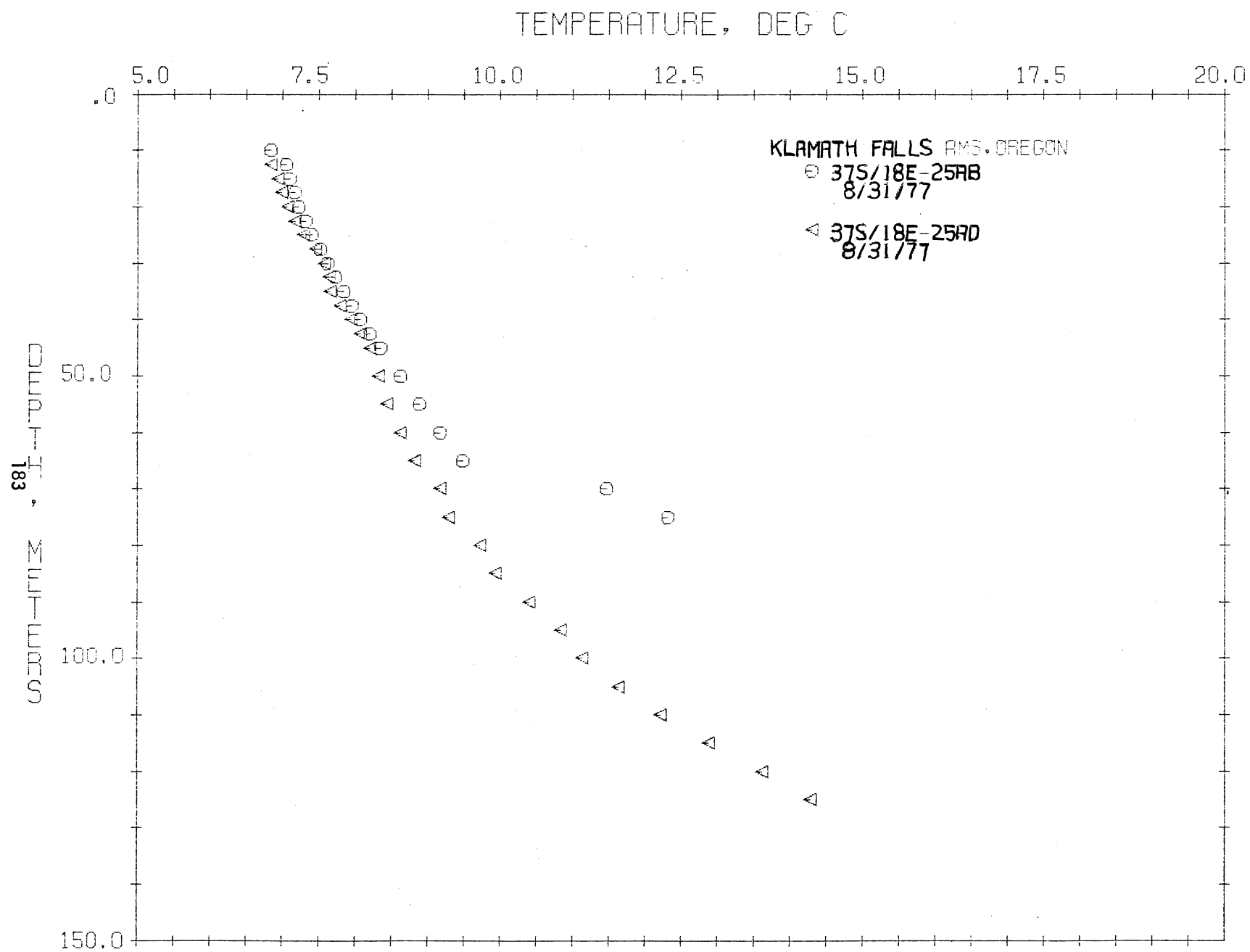


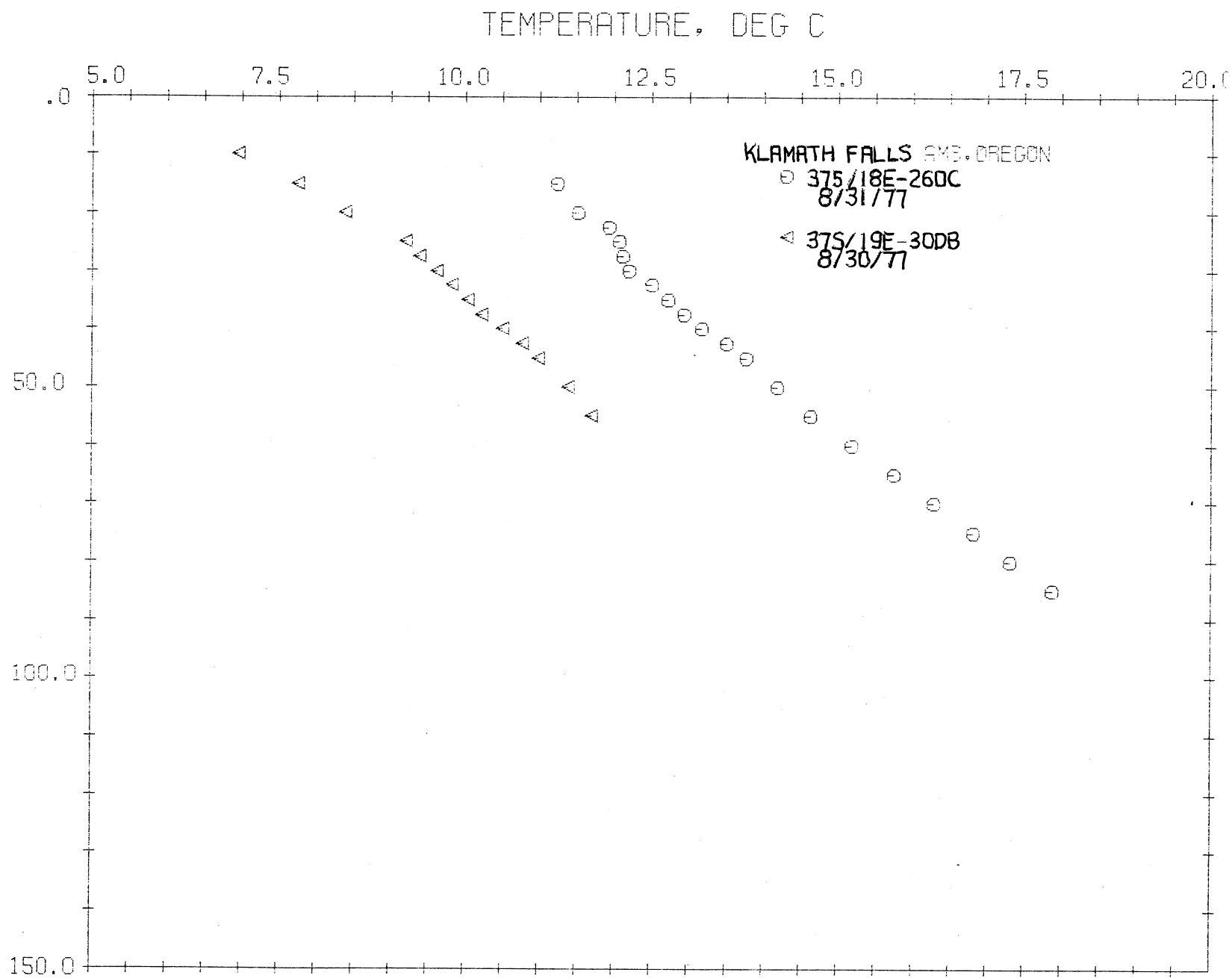
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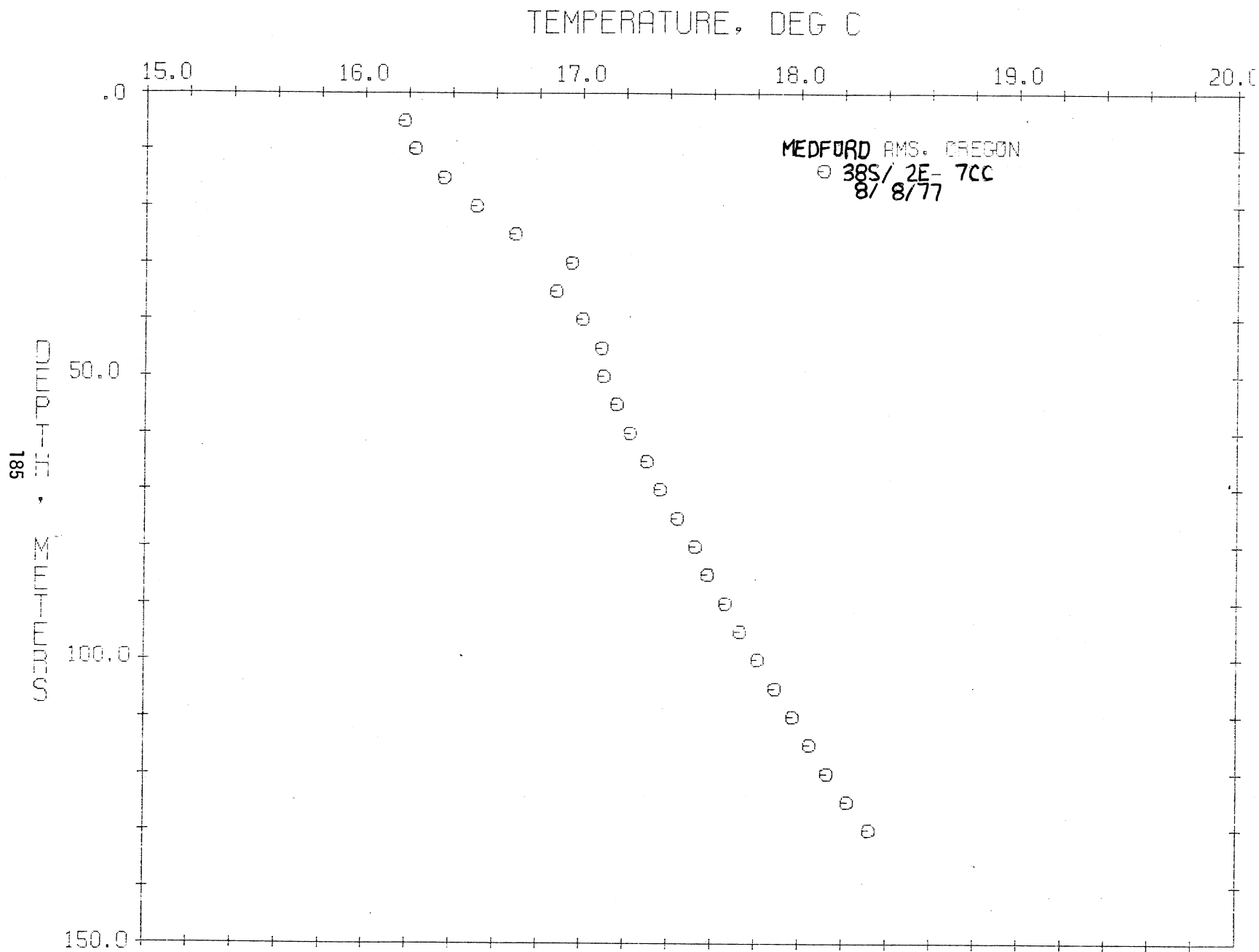


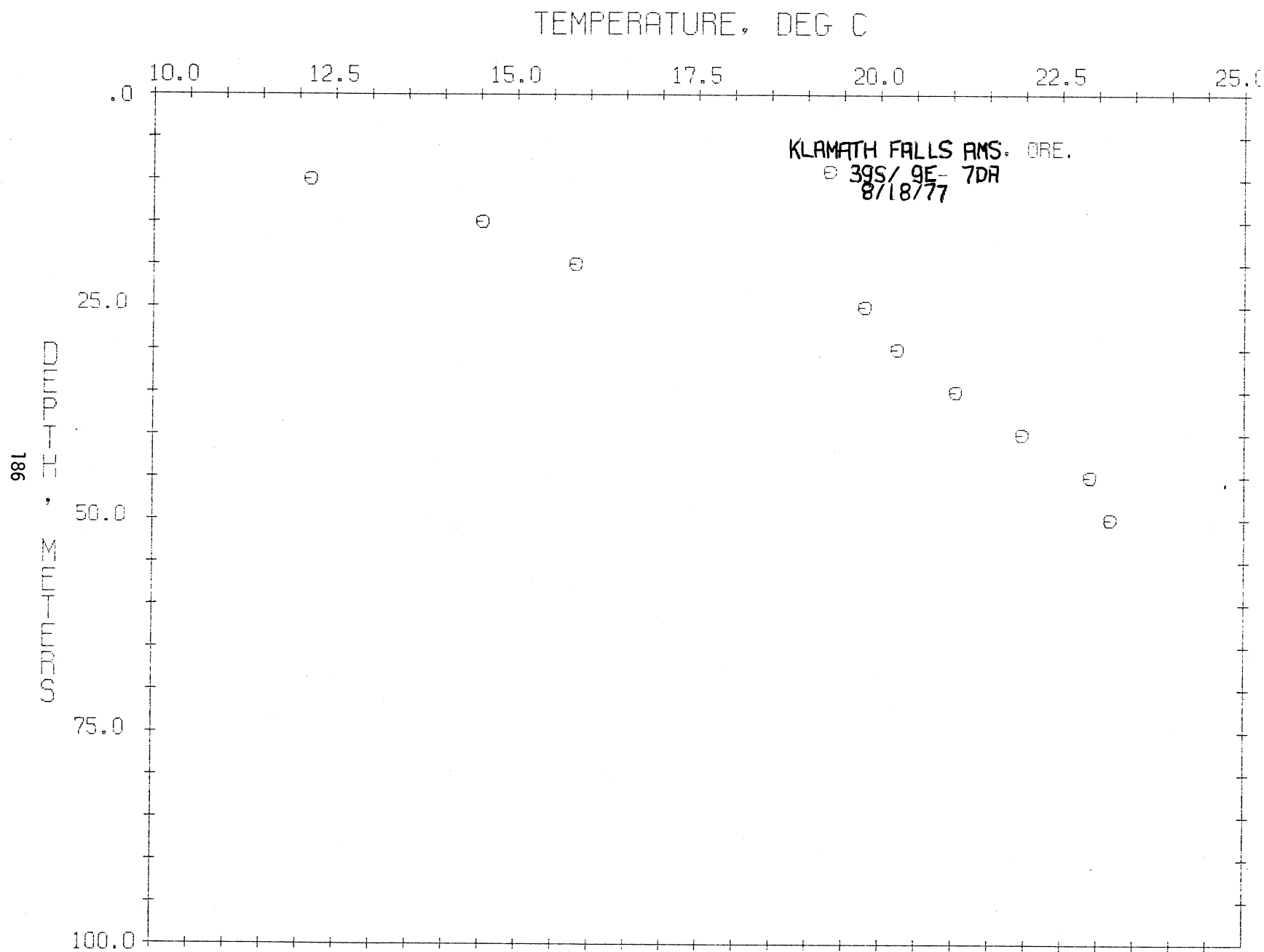
182
CUMULATIVE SULFUR



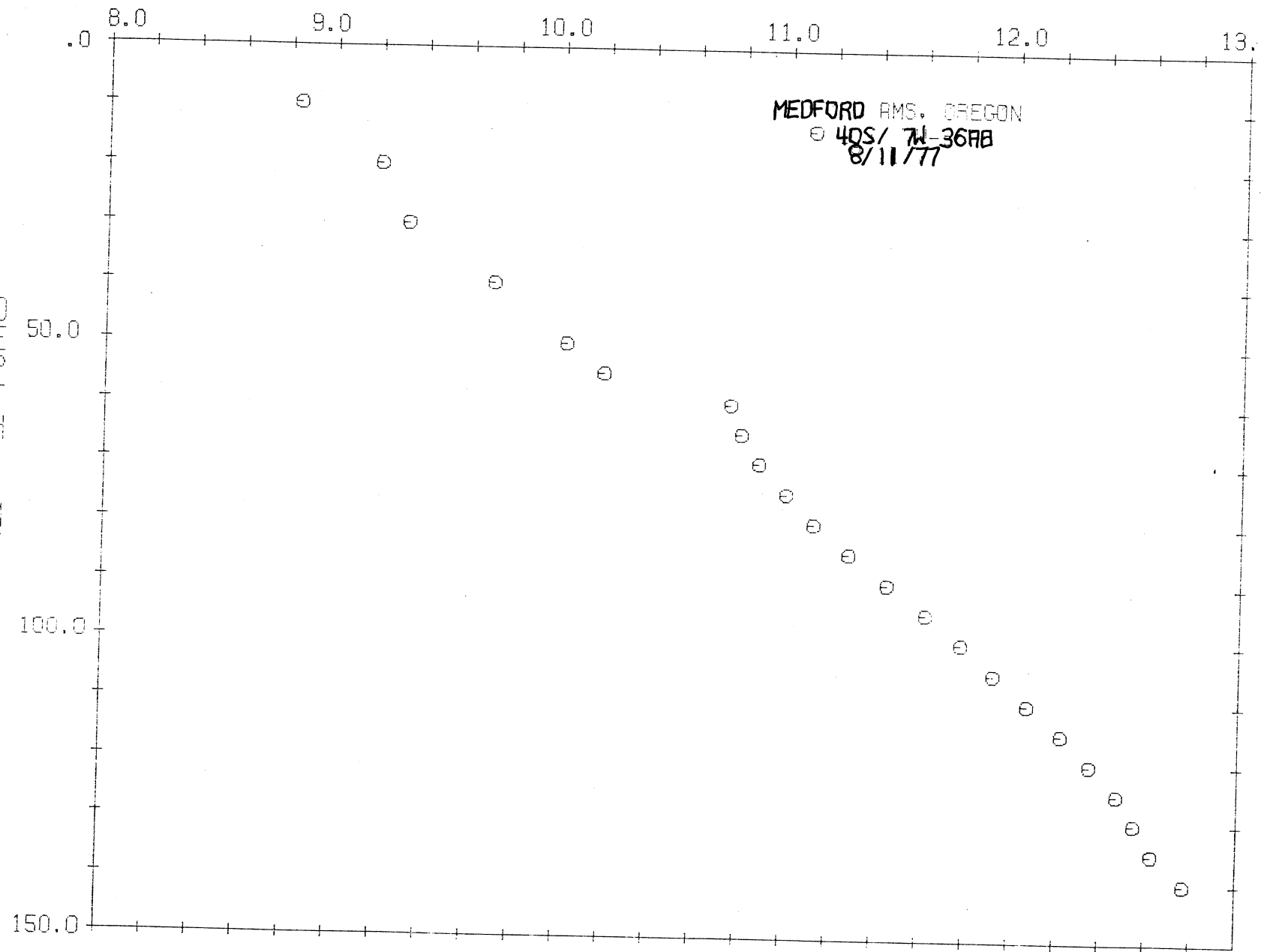








TEMPERATURE, DEG C



CUMULATIVE MOISTURE

MAP OF STATE OF OREGON PLATE 1 - WELL LOCATIONS

GEOTHERMAL GRADIENT DATA
OPEN-FILE REPORT 0-78-4

LEGEND

- PRIMARY HIGHWAYS
- SECONDARY HIGHWAYS
- COUNTY ROADS
- INTERSTATE HIGHWAYS
- WELL LOCATIONS

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
DONALD A. HULL, STATE GEOLOGIST

