

6L01885

N-3
TEMP DATA

FIGURE B2

DRESSER ATLAS TEMPERATURE LOG OF 7-28-86 FOR GEO N-3, NEWBERRY VOLCANO, OREGON. This profile was constructed by GEO personnel from data taken from a continuous temperature log (see Table B2) which began 4 hours after last circulation of the core hole. Note the conductive slope for the last 100 plus feet.

COREHOLE GEO N-3
DRESSER ATLAS TEMPERATURE LOG OF 7/28/86
NEWBERRY VOLCANO, OREGON

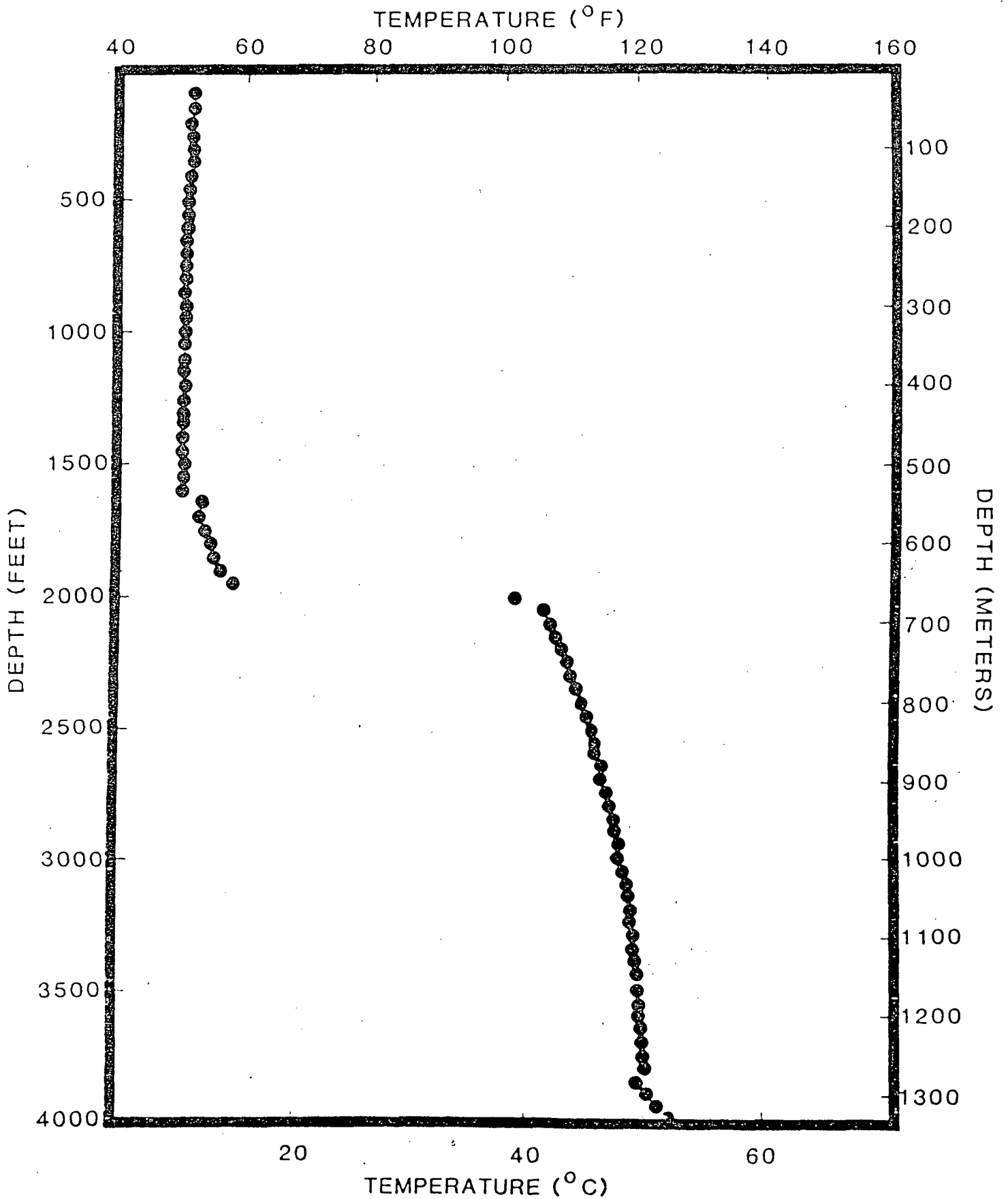


Figure B2

TABLE B2
GEO CORE HOLE N-3

Temperature (F°) Log from Dresser Atlas of 7/28/86

Depth	0	10	20	30	40	50	60	70	80	90
0						52	52	52	52	52
100	52	52	52	52	52	51	51	51	51	51
200 to 690 = 51°										
700	51	51	50	50	50	50	50	50	50	50
800 to 1590 = 50°										
1600	50	50	51	52	53	53	53	53	54	53
1700	53	53	53	53	53	53	53	53	53	54
1800	54	54	54	54	54	55	55	55	55	55
1900	55	56	56	57	57	58	58	62	76	98
2000	101	103	104	105	106	106	106	107	107	107
2100	107	107	107	107	108	108	108	108	108	109
2200	109	109	109	109	109	109	110	110	110	110
2300	110	110	110	111	111	111	111	111	111	111
2400	112	112	112	112	112	112	113	113	113	113
2500	113	113	113	113	113	114	114	114	114	114
2600	114	114	114	115	115	115	115	115	115	115
2700	115	115	115	115	116	116	116	116	116	116
2800	116	116	116	117	117	117	117	117	117	117
2900	117	117	117	117	117	117	117	117	118	118
3000	118	118	118	118	118	118	118	118	119	119
3100	119	119	119	119	119	119	119	119	119	119
3200	119	119	119	119	119	119	120	120	120	120
3300	120	120	120	120	120	120	120	120	120	120
3400	120	121	121	121	121	121	121	121	121	121
3500 to 3690 = 121°										
3700	121	121	121	121	121	121	121	122	122	122
3800	122	122	122	121	121	121	121	121	121	122
3900	122	122	122	122	123	123	124	125	126	126
4000	125									
4002 BHT = 126°										

Note: this table was compiled from an analog record and was rounded to the nearest degree.

Logging operations begin 4 hours after last circulation of core hole.

Spud date: 6/2/86
Date TD reached: 7/29/86

FIGURE B5

BLACKWELL TEMPERATURE LOG OF 9/26/86 FOR CORE HOLE GEO N-3. This profile was constructed by GEO personnel from selected data in Table B5. The precision and accuracy of the temperature measurements are 0.01°F and 1°F. Temperatures were measured at 6.6 foot intervals. Note the conductive slope for the last 100 feet.

BLACKWELL TEMPERATURE LOG OF 9/26/86

NEWBERRY VOLCANO, OREGON

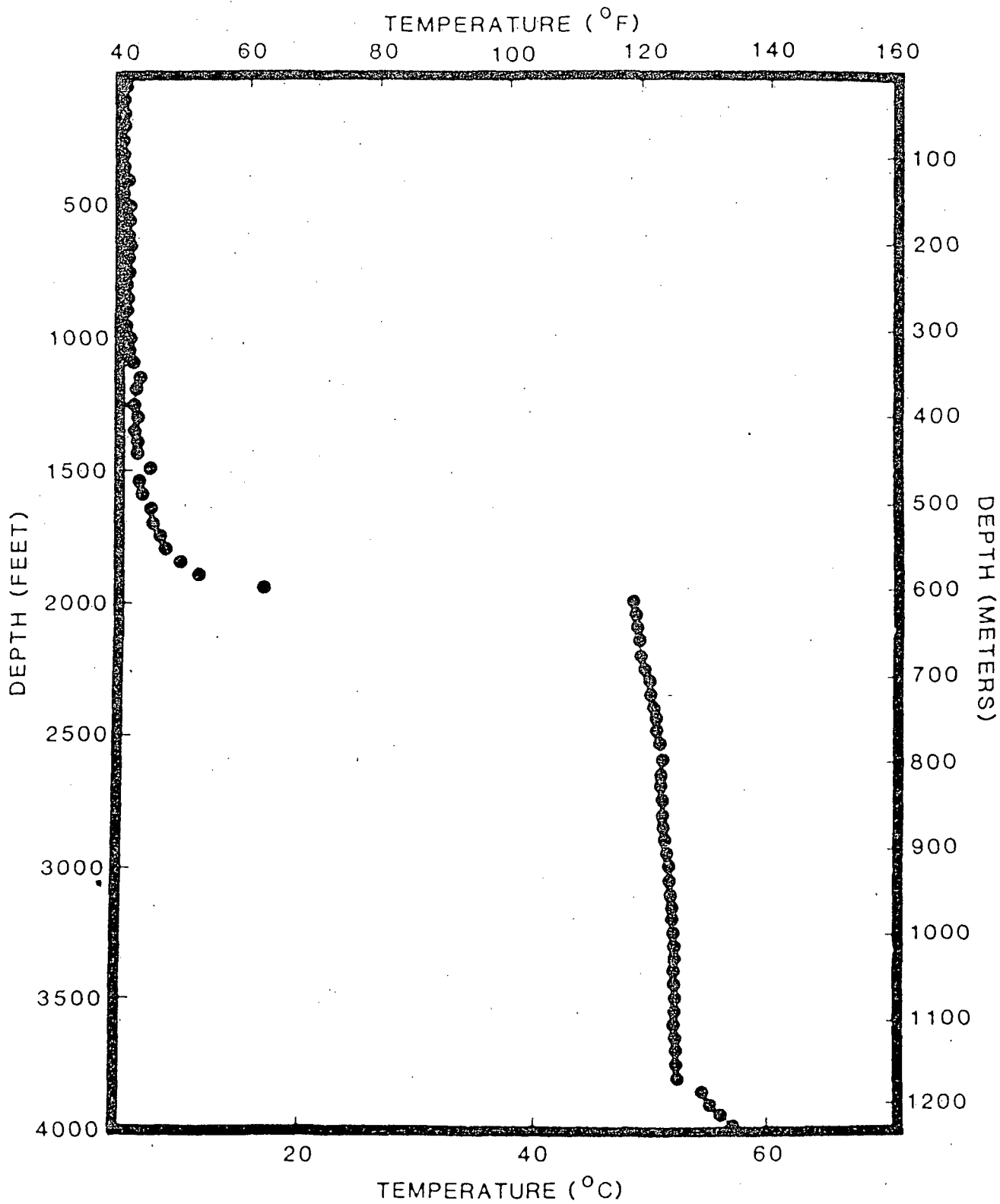


TABLE B5
 GEO N-3
 Temperature/Depth Data
 Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft
13.1	40.54	0.0	282.2	40.12	-1.0
19.7	40.77	3.5	288.7	40.24	1.7
26.2	40.93	2.4	295.3	40.47	3.5
32.8	41.06	2.1	301.8	40.64	2.7
39.4	41.18	1.8	308.4	40.94	4.6
45.9	41.29	1.6	315.0	41.22	4.2
52.5	41.39	1.7	321.5	41.27	0.8
59.1	41.67	4.2	328.1	41.18	-1.4
65.6	41.85	2.7	334.6	41.11	-1.2
72.2	41.80	-0.8	341.2	41.08	-0.4
78.7	41.71	-1.3	347.8	41.08	0.0
85.3	41.37	-5.2	354.3	41.07	-0.1
91.9	41.13	-3.6	360.9	41.02	-0.7
98.4	41.09	-0.6	367.5	40.99	-0.4
105.0	41.21	1.7	374.0	41.03	0.5
111.5	41.53	5.0	380.6	41.07	0.7
118.1	42.03	7.6	387.1	41.11	0.5
124.7	41.95	-1.3	393.7	41.21	1.5
131.2	41.48	-7.1	400.3	41.63	6.5
137.8	41.10	-5.8	406.8	42.20	8.6
144.4	40.88	-3.4	413.4	42.14	-0.9
150.9	40.96	1.3	419.9	41.96	-2.7
157.5	41.34	5.7	426.5	41.70	-4.0
164.0	41.51	2.6	433.1	41.46	-3.7
170.6	41.36	-2.2	439.6	41.21	-3.8
177.2	40.95	-6.3	446.2	40.98	-3.6
183.7	40.80	-2.3	452.8	40.87	-1.6
190.3	40.76	-0.7	459.3	40.82	-0.8
196.9	40.74	-0.2	465.9	40.83	0.2
203.4	40.79	0.7	472.4	40.87	0.6
210.0	40.96	2.6	479.0	40.92	0.7
216.5	41.38	6.5	485.6	40.97	0.8
223.1	42.20	12.4	492.1	41.05	1.2
229.7	42.11	-1.3	498.7	41.16	1.7
236.2	41.55	-8.7	505.2	41.30	2.2
242.8	41.14	-6.2	511.8	41.47	2.6
249.3	40.93	-3.1	518.4	41.66	2.9
255.9	40.83	-1.6	524.9	41.67	0.1
262.5	40.83	0.0	531.5	41.56	-1.8
269.0	40.73	-1.5	538.1	41.51	-0.7
275.6	40.19	-8.2	544.6	41.52	0.1

TABLE B5
 GEO N-3
 Temperature/Depth Data
 Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft
551.2	41.53	0.2	820.2	42.29	-0.8
557.7	41.52	-0.2	826.8	41.93	-5.5
564.3	41.51	-0.1	833.3	41.64	-4.4
570.9	41.50	-0.2	839.9	41.41	-3.5
577.4	41.50	0.1	846.5	41.28	-2.0
584.0	41.49	-0.2	853.0	41.23	-0.7
590.6	41.47	-0.3	859.6	41.24	0.2
597.1	41.45	-0.2	866.1	41.38	2.1
603.7	41.43	-0.3	872.7	41.57	2.8
610.2	41.41	-0.3	879.3	41.58	0.1
616.8	41.40	-0.2	885.8	41.56	-0.3
623.4	41.38	-0.3	892.4	41.52	-0.5
629.9	41.42	0.6	899.0	41.46	-1.0
636.5	41.55	2.0	905.5	41.39	-1.1
643.0	41.68	2.0	912.1	41.39	0.1
649.6	41.68	0.0	918.6	41.40	0.2
656.2	41.58	-1.5	925.2	41.41	0.2
662.7	41.53	-0.8	931.8	41.43	0.2
669.3	41.48	-0.7	938.3	41.43	0.0
675.9	41.51	0.4	944.9	41.40	-0.4
682.4	41.67	2.4	951.4	41.37	-0.6
689.0	41.79	1.8	958.0	41.36	-0.1
695.5	41.73	-0.9	964.6	41.41	0.8
702.1	41.63	-1.5	971.1	41.47	0.8
708.7	41.55	-1.3	977.7	41.52	0.8
715.2	41.52	-0.4	984.3	41.57	0.7
721.8	41.69	2.7	990.8	41.58	0.2
728.3	41.70	0.1	997.4	41.70	1.8
734.9	41.67	-0.4	1003.9	41.73	0.5
741.5	41.74	1.1	1010.5	41.65	-1.3
748.0	41.93	2.8	1017.1	41.53	-1.8
754.6	42.27	5.2	1023.6	41.47	-0.9
761.2	42.48	3.2	1030.2	41.47	0.0
767.7	42.20	-4.3	1036.7	41.56	1.3
774.3	41.52	-10.4	1043.3	41.75	3.0
780.8	41.31	-3.2	1049.9	41.82	1.1
787.4	41.26	-0.7	1056.4	41.77	-0.7
794.0	41.29	0.4	1063.0	41.77	-0.1
800.5	41.44	2.3	1069.6	41.81	0.6
807.1	41.90	7.1	1076.1	41.87	0.9
813.6	42.34	6.6	1082.7	41.91	0.7

TABLE B5

GEO N-3

Temperature/Depth Data

Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft
1089.2	41.97	0.8	1358.3	42.40	1.6
1095.8	42.06	1.4	1364.8	42.51	1.6
1102.4	42.10	0.6	1371.4	42.59	1.3
1108.9	42.09	-0.2	1378.0	42.65	0.8
1115.5	42.32	3.5	1384.5	42.71	0.9
1122.0	42.88	8.6	1391.1	42.80	1.4
1128.6	43.34	6.9	1397.6	42.92	1.8
1135.2	43.31	-0.3	1404.2	43.06	2.2
1141.7	43.20	-1.8	1410.8	43.17	1.6
1148.3	43.03	-2.5	1417.3	43.20	0.5
1154.9	42.54	-7.6	1423.9	43.17	-0.5
1161.4	42.14	-6.1	1430.4	43.10	-1.1
1168.0	41.99	-2.3	1437.0	43.00	-1.5
1174.5	42.02	0.5	1443.6	42.90	-1.5
1181.1	42.31	4.4	1450.1	42.79	-1.6
1187.7	42.60	4.5	1456.7	42.73	-0.9
1194.2	42.67	1.0	1463.3	42.73	0.0
1200.8	42.54	-2.0	1469.8	42.81	1.3
1207.3	42.39	-2.3	1476.4	42.98	2.6
1213.9	42.27	-1.7	1482.9	43.21	3.4
1220.5	42.27	-0.1	1489.5	43.51	4.7
1227.0	42.25	-0.3	1496.1	43.90	5.9
1233.4	42.24	-0.1	1502.6	44.34	6.6
1240.2	42.20	-0.6	1509.2	44.70	5.5
1246.7	42.19	-0.2	1515.7	44.62	-1.1
1253.3	42.19	0.1	1522.3	44.09	-8.1
1259.8	42.04	-2.3	1528.9	43.61	-7.4
1266.4	41.82	-3.4	1535.4	43.35	-3.9
1273.0	42.20	5.9	1542.0	43.27	-1.2
1279.5	42.34	2.0	1548.6	43.27	0.1
1286.1	42.48	2.1	1555.1	43.30	0.4
1292.7	42.55	1.1	1561.7	43.32	0.3
1299.2	42.48	-1.0	1568.2	43.36	0.6
1305.8	42.35	-1.9	1574.8	43.43	1.1
1312.3	42.23	-1.9	1581.4	43.53	1.6
1318.9	42.15	-1.2	1587.9	43.59	0.9
1325.5	42.11	-0.6	1594.5	43.66	1.1
1332.0	42.12	0.2	1601.0	43.74	1.2
1338.6	42.17	0.7	1607.6	43.89	2.2
1345.1	42.23	0.9	1614.2	44.07	2.8
1351.7	42.30	1.1	1620.7	44.23	2.5

TABLE B5
 GEO N-3
 Temperature/Depth Data
 Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft
1627.3	44.38	2.3	1896.3	52.36	7.9
1633.9	44.54	2.4	1902.9	52.79	6.5
1640.4	44.71	2.5	1909.4	53.35	8.6
1647.0	44.90	3.0	1916.0	54.17	12.5
1653.5	45.22	4.8	1922.6	54.87	10.6
1660.1	45.70	7.3	1929.1	56.18	19.9
1666.7	46.14	6.7	1935.7	56.90	11.0
1673.2	46.41	4.0	1942.3	58.66	26.9
1679.8	46.24	-2.6	1948.8	62.91	64.7
1686.4	45.91	-4.9	1955.4	70.02	108.5
1692.9	45.64	-4.2	1961.9	81.01	167.6
1699.5	45.51	-2.0	1968.5	93.25	186.6
1706.0	45.46	-0.8	1975.1	107.00	209.6
1712.6	45.46	0.0	1981.6	116.80	149.4
1719.2	45.51	0.8	1988.2	119.28	37.8
1725.7	45.58	1.1	1994.8	119.44	2.4
1732.3	45.72	2.2	2001.3	119.47	0.5
1738.8	46.01	4.4	2007.9	119.52	0.7
1745.4	46.26	3.8	2014.4	119.55	0.4
1752.0	46.53	4.0	2021.0	119.58	0.6
1758.5	46.82	4.5	2027.6	119.59	0.1
1765.1	47.11	4.5	2034.1	119.60	0.1
1771.7	47.39	4.3	2040.7	119.61	0.1
1778.2	47.57	2.7	2047.2	119.63	0.3
1784.8	47.68	1.7	2053.8	119.69	1.0
1791.3	47.63	-0.7	2060.4	119.77	1.3
1797.9	47.67	0.5	2066.9	119.85	1.2
1804.5	47.82	2.3	2073.5	119.91	0.9
1811.0	48.03	3.2	2080.1	119.98	1.1
1817.6	48.28	3.8	2086.6	120.06	1.1
1824.1	48.54	4.0	2093.2	120.14	1.2
1830.7	48.82	4.2	2099.7	120.20	0.9
1837.3	49.06	3.7	2106.3	120.22	0.3
1843.8	49.29	3.5	2112.9	120.23	0.1
1850.4	49.47	2.6	2119.4	120.24	0.2
1857.0	49.57	1.6	2126.0	120.25	0.2
1863.5	50.04	7.1	2132.5	120.27	0.3
1870.1	50.52	7.4	2139.1	120.31	0.7
1876.6	50.90	5.8	2145.7	120.38	1.0
1883.2	51.46	8.5	2152.2	120.44	1.0
1889.8	51.85	5.9	2158.8	120.52	1.2

TABLE B5

GEO N-3

Temperature/Depth Data

Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft
2165.4	120.60	1.2	2434.4	122.84	0.8
2171.9	120.66	0.9	2440.9	122.90	0.9
2178.5	120.73	1.1	2447.5	122.94	0.7
2185.0	120.81	1.1	2454.1	123.00	0.8
2191.6	120.88	1.2	2460.6	123.04	0.7
2198.2	120.95	1.1	2467.2	123.09	0.7
2204.7	121.01	0.9	2473.8	123.13	0.7
2211.3	121.05	0.5	2480.3	123.18	0.6
2217.8	121.09	0.7	2486.9	123.16	-0.2
2224.4	121.13	0.5	2493.4	123.16	-0.1
2231.0	121.14	0.1	2500.0	123.19	0.5
2237.5	121.14	0.1	2506.6	123.29	1.6
2244.1	121.16	0.2	2513.1	123.35	0.9
2250.7	121.25	1.4	2519.7	123.39	0.6
2257.2	121.30	0.8	2526.2	123.42	0.4
2263.8	121.36	1.0	2532.8	123.44	0.3
2270.3	121.42	0.8	2539.4	123.47	0.4
2276.9	121.47	0.8	2545.9	123.53	1.0
2283.5	121.53	0.9	2552.5	123.57	0.6
2290.0	121.58	0.7	2559.1	123.61	0.6
2296.6	121.63	0.8	2565.6	123.62	0.1
2303.1	121.68	0.7	2572.2	123.62	0.0
2309.7	121.74	1.0	2578.7	123.63	0.2
2316.3	121.79	0.7	2585.3	123.66	0.4
2322.8	121.83	0.7	2591.9	123.69	0.5
2329.4	121.92	1.3	2598.4	123.71	0.3
2336.0	121.99	1.1	2605.0	123.75	0.7
2342.5	122.06	1.1	2611.5	123.77	0.3
2349.1	122.11	0.8	2618.1	123.80	0.4
2355.6	122.19	1.2	2624.7	123.81	0.3
2362.2	122.26	1.0	2631.2	123.83	0.3
2368.8	122.31	0.8	2637.8	123.84	0.0
2375.3	122.38	1.0	2644.4	123.84	0.1
2381.9	122.41	0.5	2650.9	123.86	0.2
2388.5	122.51	1.5	2657.5	123.86	0.1
2395.0	122.57	1.0	2664.0	123.87	0.0
2401.6	122.62	0.8	2670.6	123.87	0.0
2408.1	122.67	0.8	2677.2	123.88	0.1
2414.7	122.71	0.5	2683.7	123.90	0.3
2421.3	122.76	0.8	2690.3	123.91	0.2
2427.8	122.79	0.4	2696.9	123.97	0.8

TABLE B5
 GEO N-3
 Temperature/Depth Data
 Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft
2703.4	123.99	0.4	2972.4	124.93	0.5
2710.0	124.01	0.3	2979.0	124.95	0.4
2716.5	124.01	0.0	2985.6	124.98	0.4
2723.1	124.01	0.0	2992.1	125.00	0.4
2729.7	124.04	0.4	2998.7	125.03	0.5
2736.2	124.05	0.2	3005.2	125.06	0.3
2742.8	124.06	0.0	3011.8	125.08	0.3
2749.3	124.06	0.1	3018.4	125.09	0.2
2755.9	124.06	0.0	3024.9	125.11	0.3
2762.5	124.06	-0.1	3031.5	125.14	0.4
2769.0	124.08	0.4	3038.1	125.16	0.4
2775.6	124.11	0.5	3044.6	125.19	0.3
2782.2	124.14	0.4	3051.2	125.21	0.4
2788.7	124.17	0.5	3057.7	125.24	0.5
2795.3	124.20	0.4	3064.3	125.26	0.2
2801.8	124.23	0.5	3070.9	125.28	0.3
2808.4	124.26	0.5	3077.4	125.31	0.6
2815.0	124.29	0.4	3084.0	125.33	0.2
2821.5	124.30	0.2	3090.6	125.35	0.4
2828.1	124.26	-0.7	3097.1	125.37	0.3
2834.6	124.36	1.6	3103.7	125.40	0.4
2841.2	124.40	0.6	3110.2	125.42	0.3
2847.8	124.42	0.3	3116.8	125.44	0.3
2854.3	124.45	0.5	3123.4	125.45	0.2
2860.9	124.48	0.4	3129.9	125.47	0.3
2867.5	124.51	0.5	3136.5	125.49	0.2
2874.0	124.53	0.2	3143.0	125.50	0.2
2880.6	124.57	0.6	3149.6	125.52	0.3
2887.1	124.60	0.4	3156.2	125.54	0.3
2893.7	124.63	0.5	3162.7	125.54	0.1
2900.3	124.66	0.4	3169.3	125.56	0.2
2906.8	124.67	0.2	3175.9	125.56	0.0
2913.4	124.70	0.4	3182.4	125.58	0.2
2919.9	124.72	0.3	3189.0	125.59	0.2
2926.5	124.75	0.4	3195.5	125.60	0.2
2933.1	124.77	0.3	3202.1	125.62	0.2
2939.6	124.79	0.3	3208.7	125.63	0.2
2946.2	124.82	0.3	3215.2	125.64	0.1
2952.8	124.84	0.4	3221.8	125.65	0.2
2959.3	124.87	0.4	3228.3	125.67	0.3
2965.9	124.89	0.3	3234.9	125.69	0.3

TABLE B5

GEO N-3

Temperature/Depth Data

Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft
3241.5	125.69	0.1	3510.5	126.13	0.0
3248.0	125.67	-0.3	3517.1	126.13	0.0
3254.6	125.73	0.8	3523.6	126.14	0.2
3261.2	125.75	0.3	3530.2	126.14	0.0
3267.7	125.76	0.2	3536.7	126.15	0.1
3274.3	125.78	0.3	3543.3	126.15	0.0
3280.8	125.78	0.1	3549.9	126.16	0.1
3287.4	125.80	0.2	3556.4	126.16	0.0
3294.0	125.82	0.3	3563.0	126.15	-0.2
3300.5	125.83	0.2	3569.6	126.19	0.6
3307.1	125.84	0.1	3576.1	126.20	0.1
3313.6	125.82	-0.2	3582.7	126.20	0.0
3320.2	125.88	0.8	3589.2	126.18	-0.2
3326.8	125.89	0.2	3595.8	126.20	0.4
3333.3	125.90	0.1	3602.4	126.21	0.1
3339.9	125.90	0.0	3608.9	126.22	0.1
3346.5	125.88	-0.3	3615.5	126.20	-0.3
3353.0	125.93	0.8	3622.0	126.23	0.4
3359.6	125.94	0.1	3628.6	126.24	0.1
3366.1	125.95	0.2	3635.2	126.25	0.1
3372.7	125.96	0.1	3641.7	126.25	0.0
3379.3	125.97	0.1	3648.3	126.24	-0.1
3385.8	125.98	0.2	3654.9	126.25	0.2
3392.4	125.98	0.0	3661.4	126.27	0.3
3399.0	125.99	0.2	3668.0	126.28	0.1
3405.5	126.00	0.1	3674.5	126.28	0.1
3412.1	126.01	0.1	3681.1	126.27	-0.1
3418.6	126.02	0.2	3687.7	126.29	0.3
3425.2	126.03	0.1	3694.2	126.30	0.2
3431.8	126.03	0.1	3700.8	126.31	0.1
3438.3	126.04	0.1	3707.3	126.31	0.0
3444.9	126.05	0.2	3713.9	126.30	-0.1
3451.4	126.05	0.1	3720.5	126.32	0.4
3458.0	126.07	0.2	3727.0	126.32	0.1
3464.6	126.06	-0.1	3733.6	126.33	0.0
3471.1	126.09	0.4	3740.2	126.32	-0.1
3477.7	126.09	0.1	3746.7	126.33	0.2
3484.3	126.10	0.1	3753.3	126.35	0.2
3490.8	126.11	0.1	3759.8	126.34	0.0
3494.4	126.11	0.1	3766.4	126.36	0.2
3503.9	126.13	0.2	3773.0	126.37	0.1

TABLE B5
 GEO N-3
 Temperature/Depth Data
 Blackwell: 9/26/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft
3779.5	126.43	1.0	3897.6	131.34	1.1
3786.1	126.43	0.0	3904.2	131.36	0.3
3792.7	126.44	0.2	3910.8	131.52	2.5
3799.2	126.44	0.0	3917.3	132.47	14.5
3805.8	126.43	-0.2	3923.9	132.49	0.4
3812.3	126.45	0.4	3930.4	132.69	3.0
3818.9	126.55	1.5	3937.0	132.92	3.5
3825.5	126.75	3.1	3943.6	133.10	2.7
3832.0	126.71	-0.7	3950.1	133.34	3.7
3838.6	128.58	28.5	3956.7	133.47	2.1
3845.1	130.16	24.2	3963.3	133.63	2.3
3851.7	130.46	4.6	3969.8	133.71	1.3
3858.3	130.71	3.7	3976.4	133.90	2.8
3864.8	130.71	0.0	3982.9	134.09	2.9
3871.4	130.77	1.0	3989.5	134.25	2.4
3878.0	130.96	2.9	3996.1	134.64	6.1
3884.5	131.07	1.7	4002.6	134.76	1.7
3891.1	131.27	3.0			

Spud date: 6/2/86
 Date TD reached: 7/29/86

GEO N-3
 Temperatures During Drilling
 (15 minute temp. tests)

<u>Depth/ft.</u>	<u>Temp./F°</u>	<u>Depth/ft.</u>	<u>Temp./F°</u>
565.5	<60	2767.5	<60
663	<60	2864	64
942	<60	3061	77/78
1177	60	3160	103/103
1272	64	3213	103/103
1381.5	63	3320	94/94
1477	<60	3377.5	92/92
1572	<60	3422	110/110
1670.5	<60	3463.5	123
1783	<60	3509	103/103
1845	<60	3612	103/101
1947	<60	3562	106/105
2044	<60	3709	105/90
2092	<60	3662	101/101
2182	<60	3763	102/103
2288.5	<60	3858.5	103/104
2359.5	<60	3812	135/136
2461	<60	3961	118/120
2563	64	3908.5	130/130
2663	60		

Spud date: 6/2/86

Date TD reached: 7/29/86

C. Walkey/rs
 11/10/86

FIGURE 2G-1

DRESSER ATLAS TEMPERATURE LOG OF 11/3/85 FOR CORE HOLE GEO N-1. This profile was constructed by GEO personnel from data taken from a continuous temperature log (see table 2G-1) which began 15 hours after the last circulation of the core hole.

CORE HOLE GEO N-1
DRESSER ATLAS TEMPERATURE LOG OF 11/3/85
NEWBERRY VOLCANO, OREGON

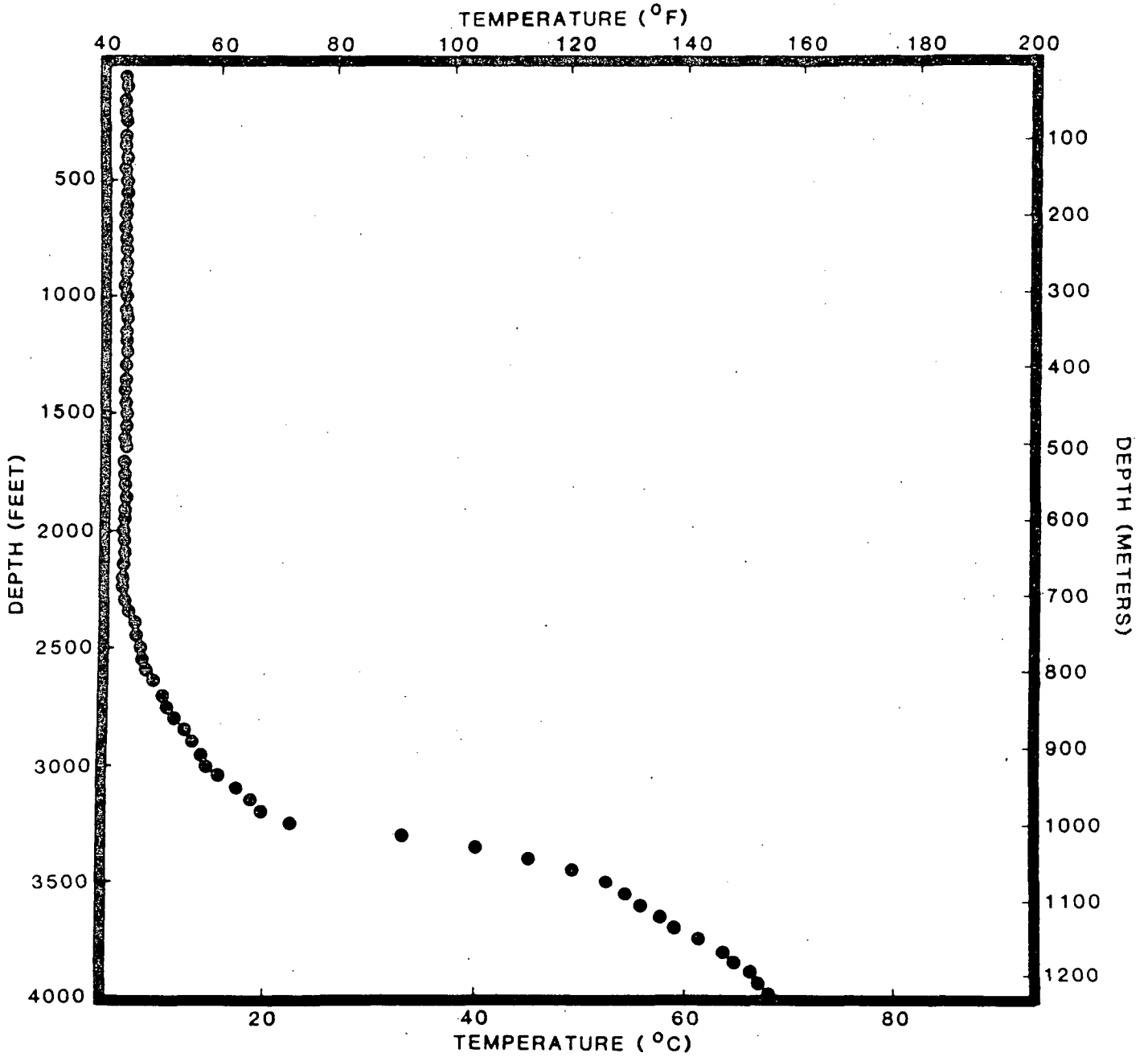


Figure 2G-1

TABLE 2G-1

GEO CORE HOLE N-1 (see Fig. 2G-1)

Temperature (F°) Log From Dresser Atlas Data of 11/3/85

Depth	0	10	20	30	40	50	60	70	80	90
10 to 2290	= 43°									
2300	43	43	43	43	44	44	44	44	44	44
2400	45	45	45	45	45	45	45	45	45	45
2500	45	45	45	45	45	46	46	46	46	46
2600	46	47	47	47	47	47	47	48	48	49
2700	49	50	50	50	50	50	50	51	51	51
2800	51	52	52	52	52	53	53	53	54	54
2900	54	55	55	55	55	55	56	56	56	57
3000	57	58	58	59	60	60	61	62	63	63
3100	63	63	63	64	64	65	65	66	66	66
3200	67	67	68	68	70	72	74	79	83	87
3300	91	93	96	99	102	103	105	107	109	111
3400	113	114	116	117	118	119	121	122	123	124
3500	126	127	127	128	128	129	130	130	131	132
3600	133	134	134	134	135	136	137	138	138	138
3700	138	139	140	141	142	142	142	143	144	145
3800	145	145	145	146	147	148	148	148	149	150
3900	151	152	152	152	152	153	154	154	154	154
4000	154									

Note: This table was compiled from an analog record and was rounded to the nearest degree.

Logging operations begin 15 hours after last circulation of core hole.

FIGURE 2G-2

GEOTECH DATA TEMPERATURE LOG OF 11/9/85 FOR CORE HOLE GEO N-1. This profile was constructed by GEO personnel from selected data in table 2G-2. The precision and accuracy of the temperature measurements are respectively 0.01°F and 1°F. Temperatures were measured at 20 foot intervals.

CORE HOLE GEO N-1

GEOTECH DATA TEMPERATURE LOG OF 11/9/85
NEWBERRY VOLCANO, OREGON

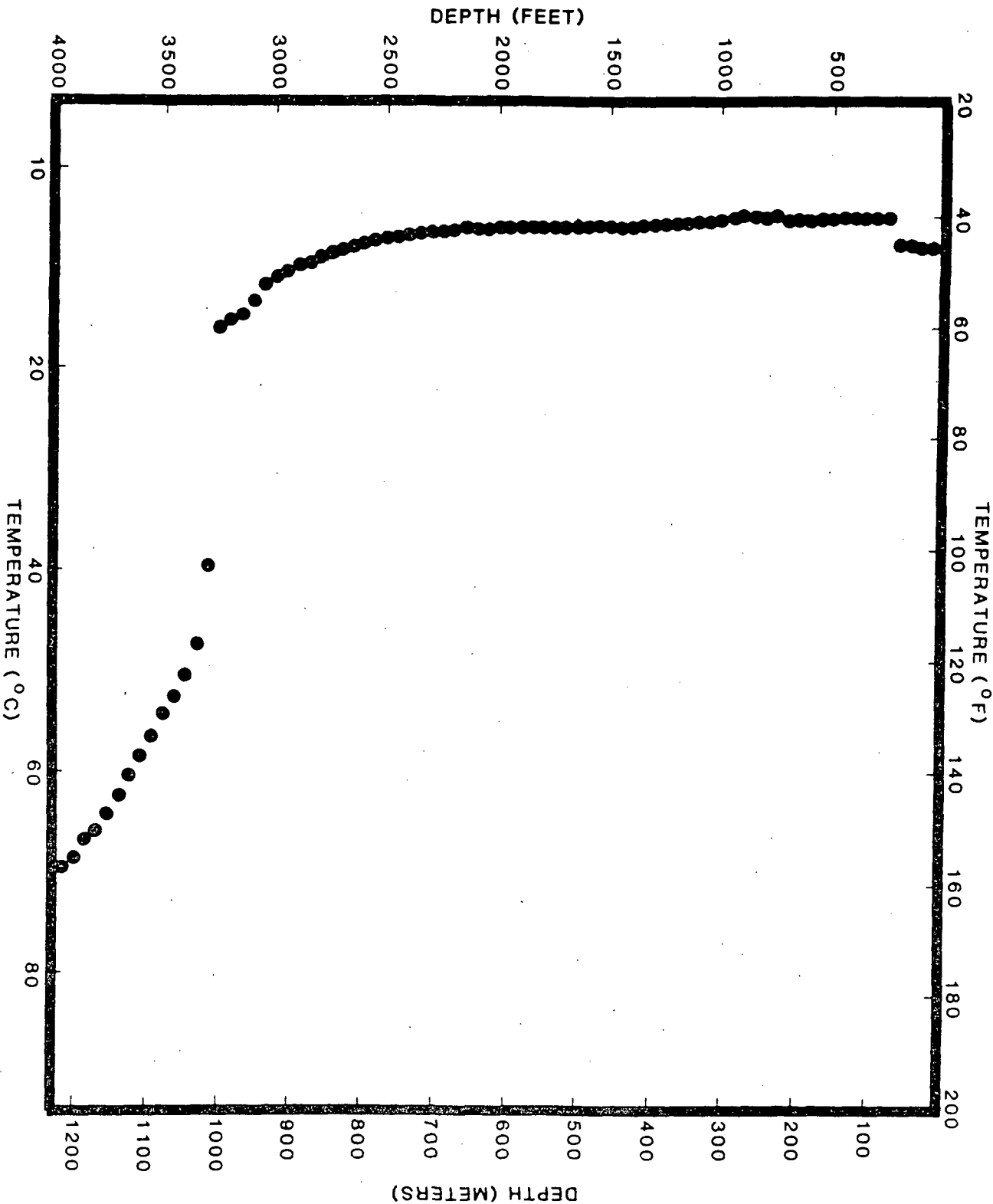


Figure 2G-2

TABLE 2G-2

GEO-N-1

Temperature/Depth Data (see Fig. 2G-2)

Geotech: 11/9/85

DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)	DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)
20	46.26		1020	41.21	1.6
40	45.97	-1.4	1040	41.59	1.9
60	45.85	-.6	1060	41.41	-.9
80	45.72	-.6	1080	41.43	.1
100	45.63	-.5	1100	41.49	.2
120	45.57	-.3	1120	41.55	.3
140	45.51	-.3	1140	41.68	.7
160	45.40	-.5	1160	41.78	.5
180	45.24	-.8	1180	41.94	.8
200	45.14	-.5	1200	41.93	-.0
220	40.15	-24.9	1220	41.93	0.0
240	40.62	2.3	1240	41.94	.0
260	40.43	-.9	1260	41.97	.2
280	40.36	-.3	1280	42.04	.3
300	40.47	.6	1300	42.06	.1
320	40.48	.0	1320	42.07	.0
340	40.88	2.0	1340	42.07	0.0
360	40.50	-1.9	1360	42.14	.3
380	40.33	-.8	1380	42.18	.2
400	40.59	1.3	1400	42.16	-.1
420	41.04	2.3	1420	42.17	.0
440	40.96	-.4	1440	42.17	0.0
460	40.89	-.3	1460	42.18	.1
480	41.13	1.2	1480	42.17	-.1
500	40.51	-3.1	1500	42.18	.1
520	40.37	-.7	1520	42.18	0.0
540	40.24	-.6	1540	42.20	.1
560	40.61	1.8	1560	42.19	-.1
580	40.68	.3	1580	42.19	0.0
600	41.00	1.6	1600	42.19	0.0
620	41.22	1.1	1620	42.19	0.0
640	40.46	-3.8	1640	42.19	0.0
660	40.53	.3	1660	42.19	0.0
680	41.06	2.7	1680	42.19	0.0
700	40.82	-1.2	1700	42.19	0.0
720	40.37	-2.3	1720	42.19	0.0
740	40.42	.2	1740	42.20	.1
760	40.34	-.4	1760	42.21	.0
780	40.42	.4	1780	42.21	0.0
800	40.58	.8	1800	42.23	.1
820	40.60	.1	1820	42.23	0.0
840	40.59	-.0	1840	42.23	0.0
860	40.69	.5	1860	42.23	0.0
880	40.63	-.3	1880	42.24	.1
900	40.55	-.4	1900	42.24	0.0
920	40.50	-.2	1920	42.25	.0
940	40.30	-1.0	1940	42.25	0.0
960	40.42	.6	1960	42.27	.1
980	40.63	1.1	1980	42.29	.1
1000	40.88	1.2	2000	42.30	.0

TABLE 2G-2 (continued)

GEO- N-1

Temperature/Depth Data

Geotech: 11/9/85

DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)	DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)
2020	42.34	.2	3020	52.79	7.1
2040	42.37	.1	3040	53.11	1.6
2060	42.44	.3	3060	53.86	3.7
2080	42.50	.3	3080	55.20	6.7
2100	42.56	.3	3100	56.48	6.4
2120	42.62	.3	3120	56.58	.5
2140	42.69	.3	3140	57.02	5.2
2160	42.75	.3	3160	58.78	4.8
2180	42.78	.1	3180	58.84	.3
2200	42.86	.4	3200	58.93	.5
2220	42.91	.2	3220	59.24	1.6
2240	43.00	.5	3240	60.39	5.7
2260	43.42	2.1	3260	62.46	10.3
2280	43.13	-1.4	3280	86.16	118.5
2300	43.23	.5	3300	103.72	87.8
2320	43.32	.5	3320	112.89	45.8
2340	43.42	.5	3340	116.35	17.3
2350	43.56	.7	3360	118.57	11.1
2380	43.68	.6	3380	120.65	10.4
2400	43.81	.7	3400	122.61	9.8
2420	43.97	.8	3420	124.23	8.1
2440	44.14	.8	3440	125.43	6.0
2460	44.28	.7	3460	127.16	8.7
2480	44.44	.8	3480	128.23	5.3
2500	44.50	.3	3500	130.05	9.1
2520	44.71	1.0	3520	131.86	9.0
2540	44.83	.6	3540	132.57	3.6
2560	44.97	.7	3560	134.71	10.7
2580	45.16	.9	3580	135.93	6.1
2600	45.50	1.7	3600	137.50	7.9
2620	45.62	.6	3620	138.99	7.5
2640	45.84	1.1	3640	140.18	5.9
2660	46.07	1.1	3660	141.59	7.1
2680	46.31	1.2	3680	143.03	7.2
2700	46.53	1.1	3700	144.34	6.5
2720	46.81	1.4	3720	145.79	7.2
2740	47.14	1.6	3740	147.37	7.9
2760	47.09	-.2	3760	148.75	6.9
2780	47.35	1.3	3780	149.87	5.6
2800	47.84	2.5	3800	150.64	3.9
2820	48.41	2.8	3820	151.12	2.4
2840	49.31	4.5	3840	151.80	3.4
2860	49.03	-1.4	3860	153.49	8.5
2880	49.28	1.2	3880	154.74	6.2
2900	49.76	2.4	3900	155.71	4.9
2920	50.03	1.4	3920	157.02	6.5
2940	50.52	2.5	3940	157.96	4.7
2960	50.85	1.6	3960	158.81	4.2
2980	50.89	.2	3980	159.62	4.0
3000	51.37	2.4	4000	160.54	4.6

FIGURE 2G-3

GEOTECH DATA TEMPERATURE LOG OF 6/12/86 FOR CORE HOLE GEO N-1. This profile was constructed by GEO personnel from selected data in table 2G-3. The precision and accuracy of the temperature measurements are respectively 0.01°F and 1°F. Temperatures were measured at 20 foot intervals from the surface to 3000 feet and at 10 foot intervals thereafter.

COH - HOLE GEO N-1
GEOTECH DATA TEMPERATURE LOG OF 6/12/86
NEWBERRY VOLCANO, OREGON

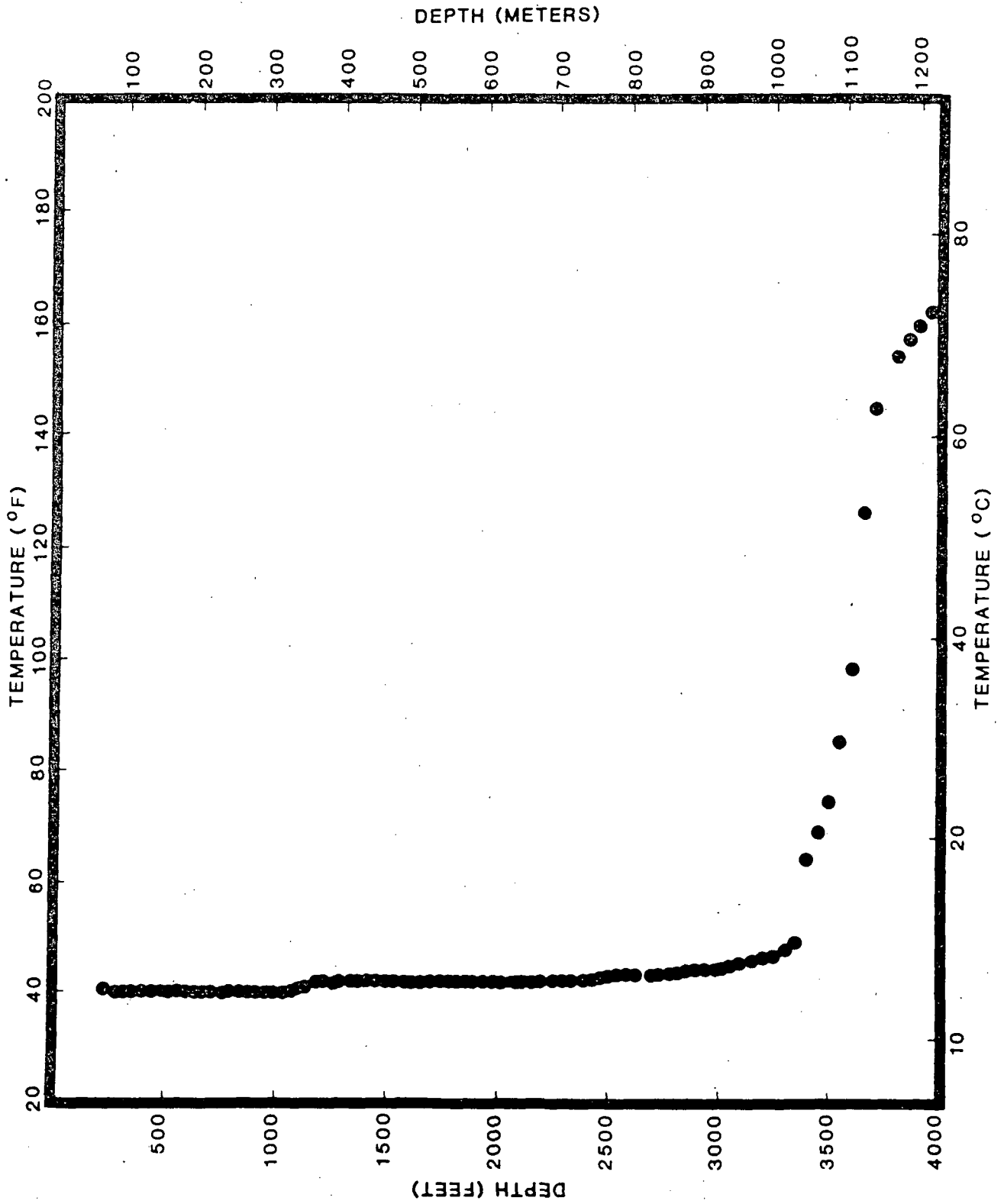


Figure 2G-3

TABLE 2G-3

GEO-N-1

Temperature/Depth Data (see Fig. 2G-3)

Geotech: 6/12/86

DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)	DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)
240	40.35		1240	41.99	.1
260	39.64	-3.5	1260	42.08	.5
280	39.55	-.5	1280	42.15	.3
300	39.57	.1	1300	42.16	.0
320	39.64	.3	1320	42.16	0.0
340	39.74	.5	1340	42.17	.0
360	39.59	-.8	1360	42.27	.5
380	39.59	0.0	1380	42.28	.0
400	39.61	.1	1400	42.29	.1
420	39.66	.2	1420	42.29	0.0
440	39.59	-.3	1440	42.28	-.1
460	39.54	-.2	1460	42.29	.1
480	39.54	0.0	1480	42.29	0.0
500	39.41	-.7	1500	42.29	0.0
520	39.37	-.2	1520	42.30	.0
540	39.40	.2	1540	42.30	0.0
560	39.54	.7	1560	42.30	0.0
580	39.53	-.1	1580	42.30	0.0
600	39.68	.8	1600	42.30	0.0
620	39.59	-.5	1620	42.30	0.0
640	39.49	-.5	1640	42.30	0.0
660	39.50	.0	1660	42.30	0.0
680	39.57	.3	1680	42.30	0.0
700	39.82	1.2	1700	42.31	.1
720	39.62	-1.0	1720	42.31	0.0
740	39.55	-.3	1740	42.31	0.0
760	39.49	-.3	1760	42.31	0.0
780	39.50	.0	1780	42.31	0.0
800	39.55	.2	1800	42.31	0.0
820	39.58	.2	1820	42.32	.0
840	39.61	.1	1840	42.31	-.0
860	39.66	.2	1860	42.32	.0
880	39.69	.1	1880	42.32	0.0
900	39.71	.1	1900	42.32	0.0
920	39.76	.2	1920	42.32	0.0
940	39.80	.2	1940	42.32	0.0
960	39.84	.2	1960	42.33	.1
980	39.90	.3	1980	42.33	0.0
1000	39.98	.4	2000	42.33	0.0
1020	40.13	.8	2020	42.34	.0
1040	40.37	1.2	2040	42.36	.1
1060	40.76	1.9	2060	42.38	.1
1080	40.83	.4	2080	42.40	.1
1100	40.90	.3	2100	42.42	.1
1120	41.03	.6	2120	42.44	.1
1140	41.24	1.1	2140	42.46	.1
1160	41.46	1.1	2160	42.48	.1
1180	41.96	2.5	2180	42.49	.1
1200	41.97	.1	2200	42.50	.0
1220	41.98	.0	2220	42.53	.1

TABLE 2G-3 (continued)

GEO-N-1

Temperature/Depth Data

Geotech: 6/12/86

DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)	DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)
2240	42.56	.2	3120	45.94	1.2
2260	42.58	.1	3130	46.06	1.2
2280	42.67	.4	3140	46.30	2.4
2300	42.61	-.3	3150	46.33	.3
2320	42.65	.2	3160	46.65	3.2
2340	42.69	.2	3170	46.82	1.7
2360	42.72	.2	3180	46.65	-1.7
2380	42.75	.1	3190	46.64	-.1
2400	42.80	.2	3200	46.64	0.0
2420	42.89	.5	3210	46.64	0.0
2440	42.90	.1	3220	46.63	-.1
2460	42.94	.2	3230	46.79	1.6
2480	42.99	.3	3240	46.70	-.9
2500	43.03	.2	3250	46.74	.4
2520	43.09	.3	3260	46.91	1.7
2540	43.12	.1	3270	46.94	.3
2560	43.17	.2	3280	47.81	8.7
2580	43.22	.3	3290	48.66	8.5
2600	43.26	.2	3300	50.48	18.2
2620	43.28	.1	3310	52.10	16.2
2640	43.31	.2	3320	55.12	30.2
2660	43.38	.3	3330	57.09	19.7
2680	43.43	.2	3340	57.17	.8
2700	43.51	.4	3350	56.97	-2.0
2720	43.56	.3	3360	59.41	24.4
2740	43.58	.1	3370	58.99	-4.2
2760	43.58	0.0	3380	60.94	19.5
2780	43.61	.1	3390	62.02	10.8
2800	43.71	.5	3400	62.74	7.2
2820	43.82	.6	3410	63.20	4.6
2840	43.94	.6	3420	64.25	10.5
2860	44.05	.6	3430	66.19	19.4
2880	44.16	.6	3440	67.76	15.7
2900	44.27	.6	3450	69.63	18.7
2920	44.37	.5	3460	69.22	-4.1
2940	44.48	.6	3470	69.62	4.0
2960	44.51	.1	3480	71.44	18.2
2980	44.52	.1	3490	73.39	19.5
3000	44.54	.1	3500	74.73	13.4
3010	44.59	.5	3510	77.66	29.3
3020	44.66	.7	3520	79.28	16.2
3030	44.74	.8	3530	80.31	10.3
3040	44.85	1.1	3540	82.43	21.2
3050	44.99	1.4	3550	85.72	32.9
3060	45.16	1.7	3560	87.56	18.4
3070	45.42	2.6	3570	90.61	30.5
3080	45.44	.2	3580	91.58	9.7
3090	45.51	.7	3590	94.53	29.5
3100	45.65	1.4	3600	98.44	39.1
3110	45.82	1.7	3610	102.61	41.7

TABLE 2G-3 (continued)

GEO N-1

Temperature/Depth Data

Geotech: 6/12/86

DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)	DEPTH (FEET)	TEMPERATURE (DEG F)	GRADIENT (DEG F/100 FT)
3620	105.40	27.9			
3630	110.45	50.5			
3640	122.70	122.5			
3650	126.51	39.1			
3660	130.56	40.5			
3670	139.15	75.9			
3680	140.47	23.2			
3690	141.92	14.5			
3700	145.49	35.7			
3710	147.40	19.1			
3720	149.79	23.9			
3730	150.86	10.7			
3740	151.55	6.9			
3750	152.12	5.7			
3760	153.18	10.6			
3770	153.65	4.7			
3780	154.00	4.3			
3790	154.39	3.1			
3800	154.65	2.6			
3810	154.96	3.1			
3820	155.51	5.5			
3830	156.12	6.1			
3840	156.83	7.1			
3850	157.63	9.0			
3860	158.12	4.9			
3870	158.56	4.4			
3880	159.01	4.5			
3890	159.53	5.2			
3900	159.95	4.2			
3910	160.47	5.2			
3920	160.74	2.7			
3930	161.11	3.7			
3940	161.54	4.3			
3950	161.99	4.5			
3960	162.37	3.8			
3970	162.80	4.3			
3980	163.14	3.4			
3990	163.60	4.6			
4000	164.04	4.4			

FIGURE 2G-4

BLACKWELL TEMPERATURE LOG OF 9/25/86 FOR CORE HOLE GEO N-1. This profile was constructed by GEO personnel from selected data in table 2G-4. Temperatures were measured at 2 meter intervals (6.6 feet) with an accuracy of 1°F and a precision of 0.01°F.

CORE HOLE GEO N-1

BLACKWELL TEMPERATURE LOG OF 9/25/86
NEWBERRY VOLCANO, OREGON

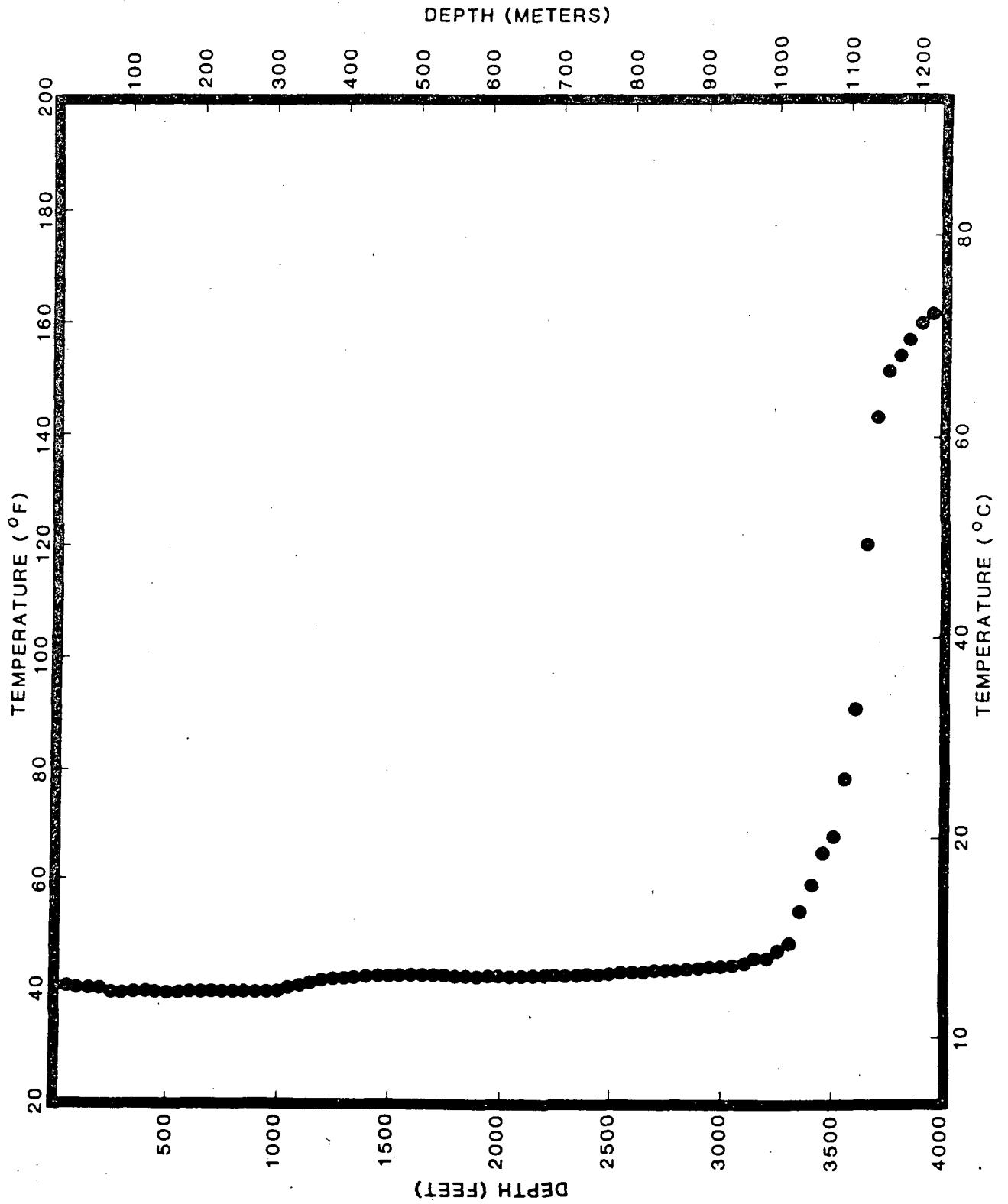


Figure 2G-4

TABLE 2G-4

GEO N-1

Temperature/Depth Data (see Fig. 2G-4)

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg.F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg.F/100 Ft
13.1	39.13	0.0	282.2	39.48	-0.1
19.7	39.67	8.2	288.7	39.46	-0.2
26.2	39.93	4.0	295.3	39.47	0.1
32.8	40.11	2.7	301.8	39.48	0.2
39.4	40.24	2.0	308.4	39.49	0.1
45.9	40.55	4.7	315.0	39.50	0.1
52.5	40.56	0.2	321.5	39.50	0.1
59.1	40.57	0.1	328.1	39.58	1.3
65.6	40.57	0.1	334.6	39.63	0.7
72.2	40.57	0.0	341.2	39.65	0.3
78.7	40.57	0.0	347.8	39.61	-0.7
85.3	40.56	-0.1	354.3	39.57	-0.6
91.9	40.55	-0.1	360.9	39.55	-0.3
98.4	40.53	-0.4	367.5	39.53	-0.3
105.0	40.51	-0.3	374.0	39.52	-0.2
111.5	40.50	-0.2	380.6	39.52	0.1
118.1	40.49	-0.1	387.1	39.56	0.6
124.7	40.48	-0.1	393.7	39.56	0.0
131.2	40.49	0.1	400.3	39.56	0.0
137.8	40.48	0.0	406.8	39.56	-0.1
144.4	40.49	0.1	413.4	39.57	0.2
150.9	40.50	0.1	419.9	39.59	0.2
157.5	40.49	-0.1	426.5	39.60	0.1
164.0	40.48	-0.2	433.1	39.57	-0.4
170.6	40.46	-0.3	439.6	39.54	-0.4
177.2	40.43	-0.5	446.2	39.52	-0.4
183.7	40.39	-0.5	452.8	39.50	-0.2
190.3	40.34	-0.7	459.3	39.49	-0.3
196.9	40.30	-0.7	465.9	39.47	-0.2
203.4	40.26	-0.7	472.4	39.48	0.1
210.0	40.22	-0.6	479.0	39.48	0.1
216.5	40.18	-0.5	485.6	39.44	-0.6
223.1	40.15	-0.5	492.1	39.41	-0.5
229.7	39.93	-3.4	498.7	39.38	-0.4
236.2	39.51	-6.3	505.2	39.36	-0.3
242.8	39.53	0.2	511.8	39.35	-0.2
249.3	39.52	-0.1	518.4	39.34	-0.2
255.9	39.52	-0.1	524.9	39.35	0.1
262.5	39.50	-0.3	531.5	39.35	0.1
269.0	39.49	-0.2	538.1	39.36	0.0
275.6	39.48	-0.1	544.6	39.37	0.2

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
551.2	39.40	0.5	820.2	39.56	0.1
557.7	39.45	0.6	826.8	39.58	0.3
564.3	39.50	0.9	833.3	39.59	0.1
570.9	39.52	0.4	839.9	39.59	0.1
577.4	39.48	-0.7	846.5	39.61	0.2
584.0	39.47	-0.1	853.0	39.61	0.0
590.6	39.47	-0.1	859.6	39.63	0.3
597.1	39.49	0.3	866.1	39.64	0.2
603.7	39.60	1.7	872.7	39.66	0.2
610.2	39.53	-1.0	879.3	39.68	0.3
616.8	39.53	-0.1	885.8	39.68	0.1
623.4	39.51	-0.3	892.4	39.70	0.2
629.9	39.49	-0.3	899.0	39.71	0.1
636.5	39.47	-0.2	905.5	39.71	0.1
643.0	39.46	-0.2	912.1	39.72	0.1
649.6	39.46	0.0	918.6	39.73	0.2
656.2	39.46	0.0	925.2	39.74	0.1
662.7	39.48	0.3	931.8	39.76	0.3
669.3	39.51	0.5	938.3	39.77	0.2
675.9	39.56	0.7	944.9	39.79	0.2
682.4	39.62	1.0	951.4	39.80	0.2
689.0	39.67	0.7	958.0	39.82	0.2
695.5	39.69	0.2	964.6	39.83	0.2
702.1	39.71	0.3	971.1	39.85	0.2
708.7	39.70	-0.1	977.7	39.87	0.3
715.2	39.69	-0.2	984.3	39.88	0.2
721.8	39.65	-0.6	990.8	39.90	0.3
728.3	39.62	-0.5	997.4	39.93	0.4
734.9	39.60	-0.3	1003.9	39.97	0.5
741.5	39.58	-0.3	1010.5	40.01	0.7
748.0	39.57	-0.1	1017.1	40.07	0.9
754.6	39.54	-0.5	1023.6	40.09	0.3
761.2	39.52	-0.3	1030.2	40.16	1.1
767.7	39.51	-0.2	1036.7	40.24	1.2
774.3	39.50	-0.1	1043.3	40.33	1.4
780.8	39.49	-0.1	1049.9	40.50	2.7
787.4	39.50	0.1	1056.4	40.73	3.5
794.0	39.51	0.2	1063.0	40.76	0.3
800.5	39.53	0.3	1069.6	40.77	0.3
807.1	39.54	0.2	1076.1	40.80	0.3
813.6	39.55	0.1	1082.7	40.82	0.4

TABLE 2G-4 (continued)
 GEO N-1
 Temperature/Depth Data
 Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
1089.2	40.84	0.4	1364.8	42.32	0.1
1095.8	40.87	0.4	1371.4	42.34	0.2
1102.4	40.89	0.4	1378.0	42.36	0.3
1108.9	40.92	0.4	1384.5	42.37	0.3
1115.5	40.98	0.9	1391.1	42.38	0.2
1122.0	41.02	0.5	1397.6	42.40	0.2
1128.6	41.05	0.6	1404.2	42.40	0.1
1135.2	41.09	0.6	1410.8	42.41	0.1
1141.7	41.15	0.9	1417.3	42.41	0.1
1148.3	41.17	0.3	1423.9	42.42	0.1
1154.9	41.19	0.4	1430.4	42.42	0.0
1161.4	41.23	0.6	1437.0	42.43	0.1
1168.0	41.25	0.3	1443.6	42.43	0.0
1174.5	41.78	8.0	1450.1	42.43	0.0
1181.1	41.98	3.0	1456.7	42.43	0.1
1187.7	41.99	0.2	1463.3	42.43	0.0
1194.2	41.99	0.0	1469.8	42.43	0.0
1200.8	41.99	0.0	1476.4	42.43	0.0
1207.3	41.99	0.0	1482.9	42.43	0.0
1213.9	41.99	0.0	1489.5	42.44	0.1
1220.5	41.99	0.0	1496.1	42.43	-0.1
1227.0	41.99	0.0	1502.6	42.44	0.1
1233.6	41.99	-0.1	1509.2	42.44	0.1
1240.2	42.00	0.1	1515.7	42.43	-0.1
1246.7	42.00	0.0	1522.3	42.43	0.0
1253.3	42.03	0.5	1528.9	42.44	0.0
1259.8	42.10	1.2	1535.4	42.44	0.1
1266.4	42.19	1.2	1542.0	42.44	0.0
1279.5	42.27	0.6	1548.6	42.44	0.0
1286.1	42.28	0.1	1555.1	42.44	0.0
1292.7	42.28	0.1	1561.7	42.44	0.0
1299.2	42.28	0.1	1568.2	42.44	0.0
1305.8	42.29	0.1	1574.8	42.44	0.0
1312.3	42.30	0.1	1581.4	42.44	0.0
1318.9	42.30	0.0	1587.9	42.45	0.1
1325.5	42.31	0.1	1594.5	42.44	-0.1
1332.0	42.31	0.0	1601.0	42.45	0.1
1338.6	42.31	0.1	1607.6	42.45	0.0
1345.1	42.31	0.0	1614.2	42.45	-0.1
1351.7	42.32	0.0	1620.7	42.44	0.0
1358.3	42.32	0.0	1627.3	42.45	0.0

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
1633.9	42.45	0.1	1902.9	42.47	0.1
1640.4	42.45	0.0	1909.4	42.47	0.0
1647.0	42.45	0.0	1916.0	42.47	0.0
1653.5	42.45	0.0	1922.6	42.47	0.0
1660.1	42.45	0.0	1929.1	42.47	0.0
1666.7	42.45	0.0	1935.7	42.47	0.0
1673.2	42.45	0.0	1942.3	42.47	0.0
1679.8	42.45	0.1	1948.8	42.47	0.1
1686.4	42.45	0.0	1955.4	42.47	0.0
1692.9	42.45	0.0	1961.9	42.48	0.1
1699.5	42.46	0.1	1968.5	42.47	-0.1
1706.0	42.45	-0.1	1975.1	42.47	0.0
1712.6	42.46	0.1	1981.6	42.47	0.0
1719.2	42.46	0.0	1988.2	42.47	0.0
1725.7	42.46	0.0	1994.8	42.47	0.0
1732.3	42.45	0.0	2001.3	42.48	0.1
1738.8	42.46	0.0	2007.9	42.48	0.0
1745.4	42.45	0.0	2014.4	42.48	0.1
1752.0	42.46	0.1	2021.0	42.48	0.0
1758.5	42.46	0.0	2027.6	42.48	0.1
1765.1	42.46	0.0	2034.1	42.48	0.0
1771.7	42.46	0.0	2040.7	42.48	0.0
1778.2	42.46	0.0	2047.2	42.49	0.1
1784.8	42.46	0.0	2053.8	42.49	0.1
1791.3	42.46	0.0	2060.4	42.49	0.0
1797.9	42.46	0.0	2066.9	42.50	0.1
1804.5	52.46	0.0	2073.5	42.50	0.0
1811.0	42.47	0.1	2080.1	42.51	0.1
1817.6	42.46	0.0	2086.6	42.52	0.1
1824.1	42.46	0.0	2093.2	42.52	0.1
1830.7	42.46	0.0	2099.7	42.52	0.0
1837.3	42.46	0.0	2106.3	42.53	0.1
1843.8	42.46	0.0	2112.9	42.53	0.0
1850.4	42.46	0.0	2119.4	42.54	0.1
1857.0	42.46	0.0	2126.0	42.54	0.0
1863.5	42.46	0.0	2132.5	42.55	0.1
1870.1	42.47	0.0	2139.1	42.55	0.1
1876.6	42.47	0.0	2145.7	42.56	0.1
1883.2	42.47	0.0	2152.2	42.57	0.2
1889.8	42.47	0.0	2158.8	42.57	0.0
1896.3	42.47	0.0	2165.4	42.58	0.1

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
2171.9	42.58	0.1	2447.5	42.89	0.2
2178.5	42.58	0.0	2454.1	42.90	0.2
2185.0	42.59	0.1	2460.6	42.92	0.2
2191.6	42.60	0.1	2467.2	42.93	0.2
2198.2	42.60	0.0	2473.8	42.94	0.2
2211.3	42.62	0.1	2480.3	42.96	0.3
2217.8	42.62	0.1	2486.8	42.97	0.2
2224.4	42.63	0.1	2493.4	42.99	0.2
2231.0	42.63	0.0	2500.0	43.00	0.2
2237.5	42.64	0.1	2506.6	43.02	0.3
2244.1	42.64	0.0	2513.1	43.03	0.2
2250.7	42.65	0.1	2519.7	43.04	0.1
2257.2	42.66	0.1	2526.2	43.05	0.2
2263.8	42.66	0.0	2532.8	43.06	0.2
2270.3	42.66	0.1	2539.4	43.08	0.3
2276.9	42.67	0.0	2545.9	43.10	0.4
2283.5	42.67	0.1	2552.5	43.10	0.0
2290.0	42.68	0.2	2559.1	43.12	0.2
2296.6	42.70	0.2	2565.6	43.13	0.2
2303.1	42.71	0.2	2572.2	43.15	0.2
2309.7	42.71	0.0	2578.7	43.17	0.3
2316.3	42.71	0.0	2585.3	43.18	0.1
2322.8	42.71	0.1	2591.9	43.19	0.2
2329.4	42.72	0.0	2598.4	43.20	0.1
2336.0	42.72	0.0	2605.0	43.20	0.1
2342.5	42.73	0.1	2611.5	43.21	0.0
2349.1	42.73	0.1	2618.1	43.21	0.1
2355.6	42.74	0.1	2624.7	43.21	0.0
2362.2	42.75	0.1	2631.2	43.21	0.1
2368.8	42.76	0.1	2637.8	43.22	0.0
2375.3	42.77	0.2	2644.4	43.24	0.3
2381.9	42.77	0.1	2650.9	43.25	0.3
2388.5	42.76	-0.2	2657.5	43.27	0.3
2395.0	42.77	0.2	2664.0	43.29	0.3
2401.6	42.79	0.2	2670.6	43.31	0.3
2408.1	42.80	0.2	2677.2	43.32	0.3
2414.7	42.82	0.2	2683.7	43.34	0.2
2421.3	42.83	0.2	2690.3	43.35	0.1
2427.8	42.90	1.0	2696.9	43.36	0.3
2434.4	42.86	-0.6	2703.4	43.40	0.6
2440.9	42.86	0.1	2710.0	43.41	0.2

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
2716.5	43.43	0.2	2992.1	44.27	0.1
2723.1	43.44	0.2	2998.7	44.28	0.1
2729.7	43.44	0.0	3005.2	44.29	0.2
2736.2	43.45	0.1	3011.8	44.31	0.3
2742.8	43.45	0.0	3018.4	44.32	0.2
2749.3	43.45	0.0	3024.9	44.36	0.6
2755.9	43.45	0.0	3031.5	44.39	0.5
2762.5	43.45	0.0	3038.1	44.46	1.0
2769.0	43.45	0.1	3044.6	44.52	0.9
2775.6	43.46	0.1	3051.2	44.59	1.1
2782.2	43.47	0.2	3057.7	44.71	1.7
2788.7	43.49	0.3	3064.3	44.77	1.0
2795.3	43.52	0.4	3070.9	44.92	2.3
2801.8	43.55	0.5	3077.4	44.96	0.5
2808.4	43.59	0.5	3084.0	45.04	1.3
2815.0	43.62	0.6	3090.6	45.03	-0.2
2821.5	43.67	0.7	3097.1	45.11	1.1
2828.1	43.71	0.6	3103.7	45.23	1.8
2834.6	43.74	0.4	3110.2	45.31	1.3
2841.2	43.76	0.4	3116.8	45.40	1.3
2847.8	43.78	0.4	3123.4	45.43	0.5
2854.3	43.81	0.4	3129.9	45.52	1.3
2860.9	43.84	0.5	3136.5	45.59	1.2
2874.0	43.93	0.7	3143.0	45.74	2.2
2880.6	43.97	0.6	3149.6	45.82	1.3
2887.1	44.00	0.5	3156.2	45.81	-0.2
2893.7	44.03	0.4	3162.7	46.01	3.1
2900.3	44.05	0.3	3169.3	46.04	0.5
2906.8	44.07	0.4	3175.9	46.02	-0.4
2913.4	44.10	0.5	3182.4	45.99	-0.5
2919.9	44.14	0.5	3189.0	45.98	-0.1
2926.5	44.19	0.8	3195.5	45.99	0.0
2933.1	44.21	0.3	3202.1	45.99	0.0
2939.6	44.24	0.4	3208.7	45.99	0.0
2946.2	44.26	0.3	3215.2	45.99	0.0
2952.8	44.26	0.1	3221.8	45.99	0.0
2959.3	44.26	0.0	3228.3	46.01	0.3
2965.9	44.26	0.0	3234.9	46.17	2.4
2972.4	44.26	0.0	3241.5	46.03	-2.0
2979.0	44.26	0.0	3248.0	46.07	0.5
2985.6	44.26	0.0	3254.6	46.09	0.3

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
3261.2	46.16	1.2	3530.2	73.54	6.0
3267.7	46.20	0.6	3536.7	74.14	9.2
3274.3	46.23	0.3	3543.3	76.43	34.8
3280.8	46.95	11.0	3549.9	78.63	33.6
3287.4	46.90	-0.7	3556.4	79.33	10.6
3294.0	47.51	9.2	3563.0	80.74	21.5
3300.5	48.46	14.5	3569.6	82.29	23.7
3307.1	49.45	15.1	3576.1	83.25	14.7
3313.6	50.28	12.7	3582.7	83.79	8.2
3320.2	51.60	20.1	3589.2	86.08	34.9
3326.8	54.51	44.5	3595.8	89.06	45.4
3333.3	54.96	6.8	3602.4	91.14	31.7
3339.9	54.45	-7.8	3608.9	94.55	52.0
3346.5	53.78	-10.1	3615.5	97.41	43.6
3353.0	54.20	6.4	3622.0	99.05	25.0
3359.6	56.65	37.4	3628.6	101.30	34.3
3366.1	56.19	-7.1	3635.2	109.52	125.3
3372.7	55.90	-4.4	3641.7	117.88	127.5
3379.3	56.86	14.6	3648.3	120.30	36.9
3385.8	58.08	18.6	3654.9	123.36	46.6
3392.4	58.79	10.8	3661.4	127.10	57.0
3399.0	59.15	5.5	3668.0	131.57	68.0
3405.5	58.41	-11.3	3674.5	136.04	68.1
3412.1	58.64	3.5	3681.1	137.63	24.2
3418.6	59.29	9.9	3687.7	139.38	26.7
3425.2	60.27	14.9	3694.2	140.96	24.2
3431.8	61.80	23.3	3700.8	143.00	31.0
3438.3	62.28	7.3	3707.3	144.09	16.6
3444.9	64.38	32.1	3713.9	146.73	40.3
3451.4	64.95	8.7	3720.5	148.82	31.8
3458.0	64.49	-7.0	3727.0	149.16	5.3
3464.6	63.80	-10.5	3733.6	150.27	16.9
3471.1	64.25	6.7	3740.2	150.90	9.6
3477.7	65.14	13.7	3746.7	151.30	6.2
3484.3	67.11	30.0	3753.3	151.92	9.4
3490.8	68.19	16.4	3759.8	152.99	16.4
3497.4	67.83	-5.4	3766.4	153.30	4.7
3503.9	69.83	30.4	3773.0	153.63	5.0
3510.5	71.84	30.7	3779.5	153.94	4.6
3517.1	72.39	8.3	3786.1	154.22	4.3
3523.6	73.15	11.6	3792.7	154.39	2.6

TABLE 2G-4 (continued)

GEO N-1

Temperature/Depth Data

Blackwell: 9/25/86

Depth Feet	Temperature Deg. F	Gradient Deg. F/100 Ft	Depth feet	Temperature Deg. F	Gradient Deg. F/100 Ft
3799.2	154.55	2.5	3917.3	160.73	3.3
3805.8	154.74	2.9	3923.9	160.87	2.1
3812.3	154.90	2.4	3930.4	161.12	3.8
3818.9	155.26	5.4	3937.0	161.44	5.0
3825.5	155.70	6.7	3943.6	161.71	4.1
3832.0	156.06	5.5	3950.1	162.03	4.8
3838.6	156.48	6.4	3956.7	162.24	3.3
3845.1	157.01	8.1	3963.3	162.50	3.9
3851.7	157.55	8.2	3969.8	162.78	4.3
3858.3	157.91	5.5	3976.4	163.06	4.3
3864.8	158.26	5.3	3982.9	163.33	4.2
3871.4	158.55	4.5	3989.5	163.59	4.0
3878.0	158.81	3.9	3996.1	163.88	4.4
3884.5	159.17	5.4			
3891.1	159.57	6.2			
3897.6	159.85	4.2			
3904.2	160.17	4.8			
3910.8	160.51	5.2			

FIGURE 2G-5

COMPARISON OF TEMPERATURE PROFILES BELOW 2,000 FEET FOR GEO N-1. The data of this figure is compiled from the following temperature logs:

- KEY: (1) Data from daily drilling reports
(2) Dresser Atlas log of 11/3/85 (table 2G-1)
(3) Geotech Data log of 11/9/85 (table 2G-2)
(4) Geotech Data log of 6/12/86 (table 2G-3)
(5) Blackwell log of 9/25/86 (table 2G-4)

Note the large (up to 80°F) decrease in temperature with time over the interval 3,000-3,700 feet, apparently is related to cold water migrating down the annulus of the core hole over this interval. Note also the conductive gradient below 3,700 feet.

CORE HOLE GEO N-1

TEMPERATURE VS. DEPTH
NEWBERRY VOLCANO, OREGON

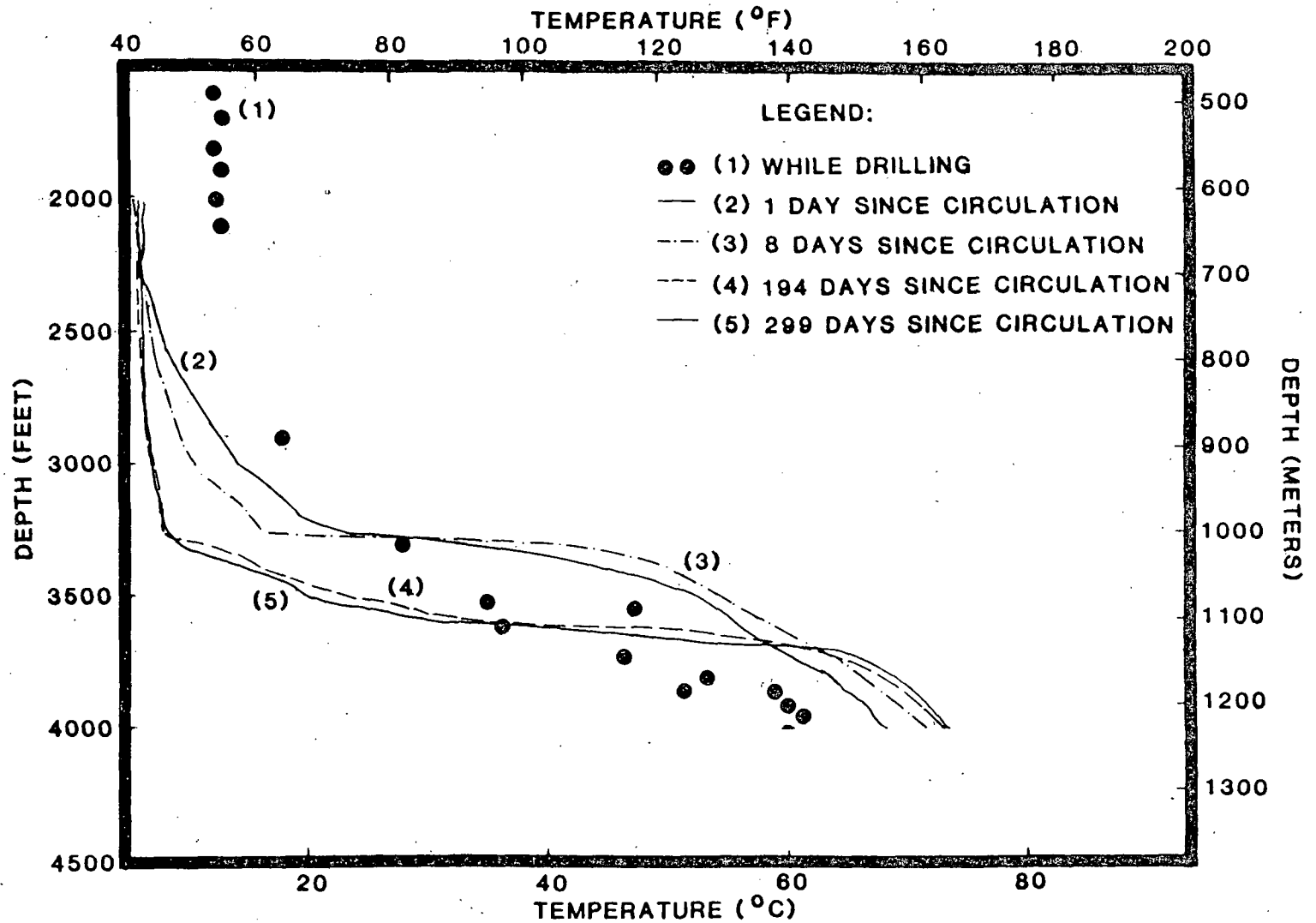


Figure 2G-5