

BREITENBUSH
#S8-28

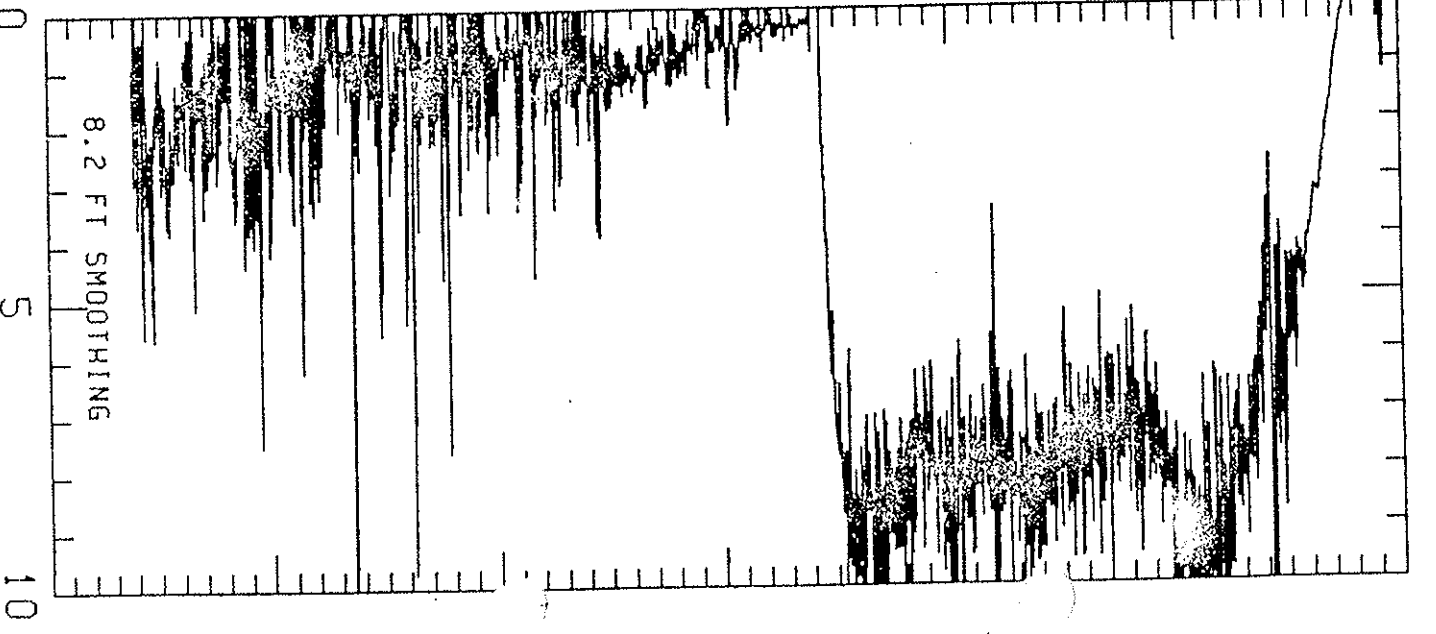
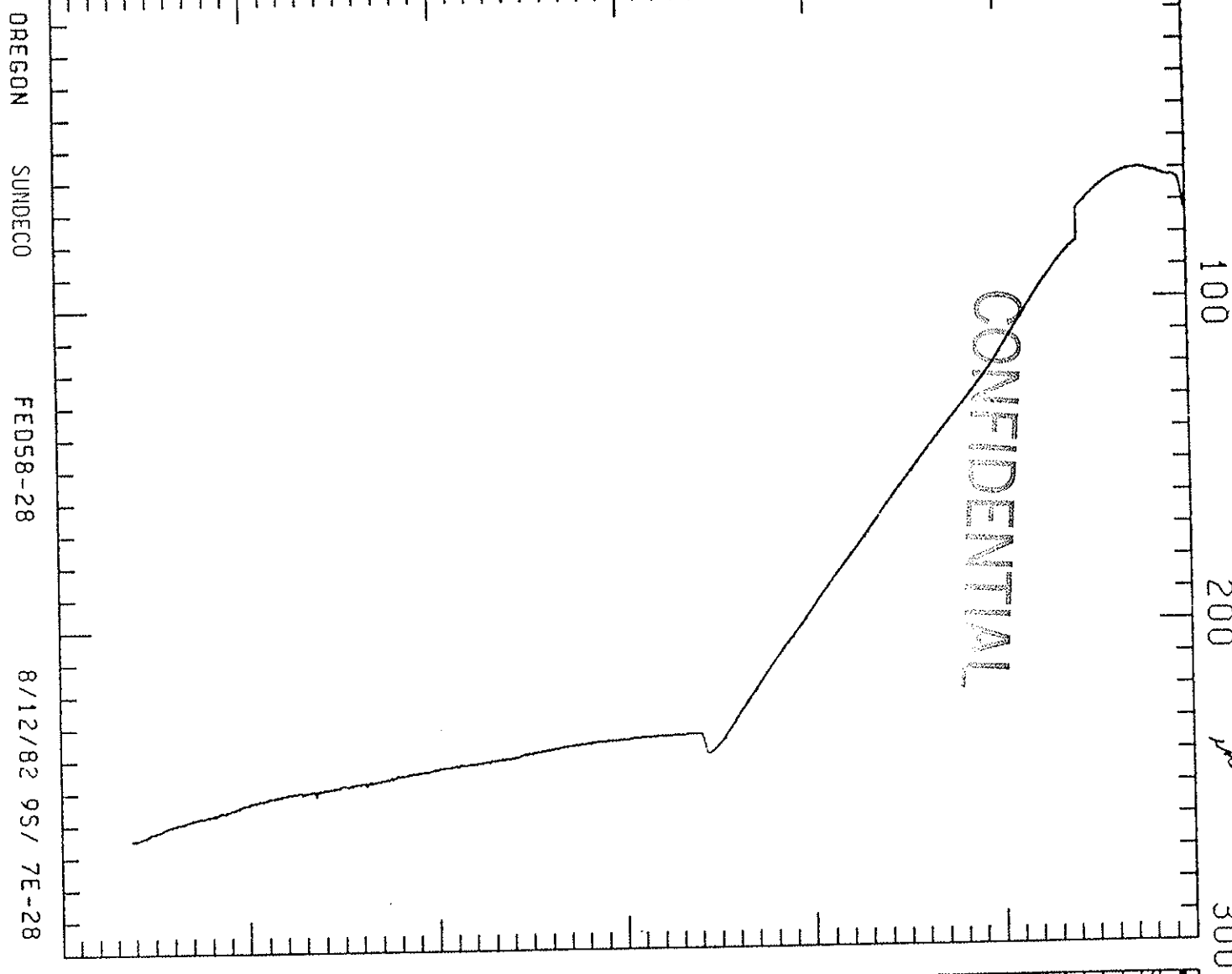
TEMP
DEG F

* 109° 120° 130°

GRADIENT
F/100 FT

DEPTH, FEET

0
1000
2000
3000
4000
5000
6000



LOCATION: OREGON
 SUNDECO
 HOLE NAME: FEDE8-28
 DATE MEASURED: 8/12/82

EPTH ETERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOTHERMAL GRADIENT DEG C/KM	GEOTHERMAL GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOTHERMAL GRADIENT DEG C/KM	GEOTHERMAL GRADIENT DEG F/100 FT
2.5	8.2	22.197	71.95	0.0	0.0	105.0	344.4	16.178	61.12	46.0	2.5
5.0	16.4	20.387	68.70	-724.0	-39.7	107.5	352.6	16.178	61.12	46.0	2.5
7.5	24.6	18.858	65.94	-611.6	-33.6	110.0	360.8	16.447	61.60	56.8	2.8
10.0	32.8	17.857	64.14	-400.4	-22.0	112.5	369.0	16.597	61.87	58.0	3.1
12.5	41.0	17.407	63.33	-180.0	-9.9	115.0	377.2	16.744	62.14	58.8	3.3
15.0	49.2	17.194	62.95	-85.2	-4.7	117.5	385.4	16.890	62.40	58.8	3.3
17.5	57.4	16.995	62.59	-79.6	-4.4	120.0	393.6	17.048	62.69	58.8	3.3
20.0	65.6	16.879	62.38	-46.4	-2.5	122.5	401.8	17.225	63.01	70.8	3.8
22.5	73.8	16.904	62.43	18.8	0.5	125.0	410.0	17.397	63.31	74.4	4.1
25.0	82.0	16.891	62.40	-5.2	-0.3	130.0	418.2	17.583	63.65	82.0	4.5
27.5	90.2	16.830	62.29	-24.4	-1.3	132.5	426.4	18.000	64.40	84.8	4.7
30.0	98.4	16.787	62.18	-25.2	-1.4	135.0	434.6	18.220	64.80	88.0	4.8
32.5	106.6	16.767	62.03	-32.4	-1.8	137.5	442.8	18.417	65.15	88.0	4.8
35.0	114.8	16.686	61.85	-41.6	-2.3	140.0	451.0	18.623	65.52	82.4	4.4
37.5	123.0	16.582	61.63	-48.0	-2.6	142.5	459.2	18.837	65.91	85.6	4.5
40.0	131.2	16.462	61.43	-44.4	-2.4	145.0	467.4	19.094	66.37	88.4	4.5
42.5	139.4	16.351	61.18	-56.4	-3.1	147.5	475.6	19.315	66.77	94.4	4.9
45.0	147.6	16.210	61.05	-28.0	-1.5	150.0	483.8	19.551	67.19	108.8	5.0
47.5	155.8	16.081	60.95	-23.6	-1.3	152.5	492.0	19.823	67.68	108.8	5.0
50.0	164.0	15.900	60.85	-25.8	-1.4	155.0	500.2	20.027	68.05	81.6	4.5
52.5	172.2	15.963	60.73	-25.2	-1.5	157.5	516.6	20.320	68.58	117.2	5.4
55.0	180.4	15.900	60.62	-33.2	-1.8	160.0	533.0	20.720	69.30	160.0	6.8
57.5	188.6	15.817	60.47	-50.2	-2.7	162.5	541.2	20.973	70.07	170.0	7.5
60.0	196.8	15.592	60.25	-38.0	-2.1	165.0	549.4	21.148	70.70	141.6	5.9
62.5	205.0	15.577	60.07	-38.0	-2.1	167.5	557.6	21.732	71.12	125.2	5.9
65.0	213.2	15.542	59.98	-22.0	-1.2	170.0	565.8	22.045	71.68	122.9	5.9
67.5	221.4	15.507	59.86	-12.8	-0.7	172.5	574.0	22.618	81.71	202.4	11.1
70.0	229.6	15.475	59.86	0.4	0.0	175.0	582.2	23.124	82.62	76.4	4.0
72.5	237.8	15.475	59.86	4.4	0.2	177.5	590.4	23.315	83.22	56.8	3.4
75.0	246.0	15.489	59.87	4.4	0.2	180.0	598.6	23.455	83.73	113.6	6.4
77.5	254.2	15.497	59.89	9.6	0.5	182.5	606.8	23.739	84.07	74.8	4.8
80.0	262.4	15.521	59.94	4.4	0.2	185.0	615.0	23.926	84.68	136.4	6.4
82.5	270.6	15.551	59.99	1.5	0.0	187.5	623.2	24.455	85.11	96.0	4.1
85.0	278.8	15.530	60.15	20.4	0.9	190.0	631.4	24.267	85.62	113.2	5.2
87.5	287.0	15.541	60.27	32.5	1.4	192.5	639.6	24.507	86.13	114.6	5.3
90.0	295.2	15.705	60.41	33.2	1.1	195.0	647.8	29.790	86.80	146.8	6.8
92.5	303.4	15.785	60.56	33.2	1.1	197.5	656.0	30.442	87.33	118.0	5.4
95.0	311.6	15.858	60.73	35.8	1.2	200.0	664.2	30.737	87.93	134.4	6.7
97.5	319.8	15.950	60.91	41.2	1.3	202.5	672.4	31.073	87.93	134.4	6.7
100.0	328.0	15.063	60.91	41.2	1.3	205.0	672.4	31.073	87.93	134.4	6.7

CONFIDENTIAL

LOCATION: OREGON
 HOLE NAME: SUNDECO
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT
207.5	680.6	31.397	88.51	129.6	7.1	310.0	1016.8	47.820	118.08	178.8	9.8
210.0	688.8	31.729	89.11	132.8	7.3	312.5	1025.0	48.262	118.87	176.8	9.7
212.5	697.0	32.103	89.79	149.5	8.2	315.0	1033.2	48.637	119.55	150.0	8.2
215.0	705.2	32.447	90.40	137.5	7.5	317.5	1041.4	49.001	120.20	145.6	8.0
217.5	713.4	32.821	91.08	149.6	8.2	320.0	1049.6	49.411	120.94	164.4	8.0
220.0	721.6	33.182	91.73	144.4	7.9	322.5	1057.8	49.704	121.47	117.2	6.4
222.5	729.8	33.530	92.35	139.4	7.6	327.5	1066.0	50.094	122.17	156.0	8.6
225.0	738.0	33.912	93.04	152.8	8.4	332.5	1074.2	50.412	122.74	127.2	17.3
227.5	746.2	34.218	93.59	129.2	6.7	337.5	1082.4	50.845	123.52	149.2	17.3
230.0	754.4	34.541	94.17	151.6	8.3	340.0	1090.6	51.218	124.19	143.8	14.0
232.5	762.6	35.380	95.68	184.0	10.1	342.5	1098.8	51.495	124.69	120.8	11.0
235.0	770.8	35.671	96.68	115.4	6.9	347.5	1107.0	51.854	125.34	125.8	10.1
237.5	779.0	35.920	97.24	198.0	10.9	349.0	1115.2	52.156	125.88	144.8	10.1
240.0	787.2	36.166	97.80	154.8	8.9	350.0	1123.4	52.518	126.53	156.4	10.1
242.5	795.4	36.553	98.41	181.2	10.5	352.5	1131.6	52.909	127.24	127.2	12.7
245.0	803.6	37.006	99.21	192.8	10.9	355.0	1139.8	53.162	127.69	128.8	12.7
247.5	811.8	37.338	99.89	152.4	8.4	357.5	1148.0	53.471	128.25	137.7	13.7
250.0	820.0	37.719	100.81	122.4	5.7	359.0	1156.2	53.814	128.87	137.7	13.7
252.5	828.2	38.197	101.75	191.4	10.5	362.5	1164.4	54.162	129.49	129.4	11.9
255.0	836.4	38.503	102.81	166.4	9.1	365.0	1172.6	54.602	130.28	130.2	11.9
257.5	844.6	39.341	103.84	168.8	9.3	367.5	1180.8	54.875	130.78	131.3	11.9
260.0	852.8	39.745	104.54	161.6	8.9	370.0	1189.0	55.581	131.31	131.3	11.9
262.5	861.0	40.183	105.09	175.2	9.6	372.5	1197.2	55.847	132.02	132.0	11.9
265.0	869.2	40.605	105.69	188.8	10.4	375.0	1205.4	56.205	133.17	133.1	11.9
267.5	877.4	41.077	106.44	110.4	6.1	377.5	1213.6	56.457	133.62	133.6	11.9
270.0	885.6	41.533	107.33	199.4	11.0	380.0	1221.8	56.792	134.23	134.2	11.9
272.5	893.8	41.852	108.16	183.2	10.1	382.5	1230.0	57.114	134.81	134.8	11.9
275.0	902.0	42.310	108.83	148.4	8.1	385.0	1238.2	57.469	135.44	135.4	11.9
280.0	918.2	42.681	109.83	153.6	10.5	387.5	1246.4	57.820	136.08	136.0	11.9
282.5	926.4	43.165	110.45	168.8	9.9	389.0	1254.6	58.098	136.58	136.5	11.9
285.0	934.6	43.586	111.01	157.6	9.2	390.0	1262.8	58.495	137.29	137.2	11.9
287.5	943.0	44.005	111.21	151.4	8.8	392.5	1271.0	58.823	137.88	137.8	11.9
290.0	951.2	44.390	111.90	194.2	10.5	395.0	1279.2	59.130	138.43	138.4	11.9
292.5	959.4	44.868	112.76	205.6	11.3	397.5	1287.4	59.471	139.92	139.9	11.9
295.0	967.6	45.382	113.69	128.4	7.7	400.0	1295.6	60.049	140.27	140.2	11.9
297.5	975.8	45.703	114.27	177.4	9.8	402.5	1303.8	60.449	141.51	141.5	11.9
300.0	984.0	46.146	115.05	155.8	8.5	405.0	1312.0	61.202	142.16	142.1	11.9
302.5	992.2	46.535	115.76	164.8	9.0	407.5	1320.2	61.839	142.81	142.8	11.9
305.0	1000.4	46.947	116.50	170.4	9.4	410.0	1328.4	61.202	142.81	142.8	11.9
307.5	1008.6	47.373	117.27	170.4	9.4	410.0	1336.6	61.476	142.81	142.8	11.9

CONFIDENTIAL

LOCATION: OREGON
 SUNDEFCN
 HOLE NAME: FED58-28
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT
412.5	1353.0	61.844	143.32	147.2	8.1	515.0	1689.2	76.652	169.97	183.6	10.1
415.5	1361.2	62.204	143.97	144.0	7.9	517.5	1697.4	77.020	170.64	170.2	8.1
417.5	1369.4	62.494	144.49	116.0	6.4	520.0	1705.6	77.339	171.21	127.6	14.7
420.0	1377.6	62.834	145.10	136.0	7.5	522.5	1713.8	77.793	172.03	181.6	10.0
422.5	1385.8	63.200	145.76	146.4	8.0	525.0	1722.0	78.146	172.66	141.2	8.7
425.0	1394.0	63.577	146.44	150.0	8.3	527.5	1730.2	78.533	173.36	154.4	8.3
427.5	1402.2	63.850	147.93	147.2	8.1	530.0	1738.4	78.821	174.08	115.2	8.9
430.0	1410.4	64.218	148.59	148.2	8.7	532.5	1746.6	79.225	174.81	161.6	8.9
432.5	1418.6	64.559	148.21	136.8	8.1	535.0	1754.8	79.552	175.19	130.8	8.9
435.0	1426.8	64.951	148.91	156.8	8.7	537.5	1763.0	79.948	175.91	158.4	8.7
437.5	1435.0	65.309	149.56	129.2	7.9	540.0	1771.2	80.314	176.57	145.4	8.0
440.0	1443.2	65.633	150.14	143.6	7.7	542.5	1779.4	80.627	177.13	125.2	8.9
442.5	1451.4	65.952	151.39	127.6	7.1	545.0	1787.6	81.045	177.88	167.2	9.2
445.0	1459.6	66.321	152.74	147.6	8.1	547.5	1795.8	81.298	178.34	190.2	9.0
447.5	1467.8	66.771	152.19	180.0	9.9	550.0	1804.0	81.773	179.19	190.0	10.4
450.0	1476.0	67.077	152.74	136.0	7.7	552.5	1812.2	81.927	179.47	61.6	11.3
452.5	1484.2	67.419	153.35	139.8	7.5	555.0	1820.4	82.449	180.41	208.8	11.5
455.0	1492.4	67.767	153.98	111.6	6.4	557.5	1828.6	82.702	180.86	101.2	10.1
457.5	1500.6	68.046	154.48	155.18	8.5	560.0	1836.8	83.098	181.58	158.4	8.7
460.0	1508.8	68.435	155.18	116.4	6.4	562.5	1845.0	83.468	182.24	148.0	8.9
462.5	1517.0	68.726	155.71	145.2	8.0	565.0	1853.2	83.829	182.89	120.6	9.5
465.0	1525.2	69.138	156.45	164.0	8.0	567.5	1861.4	84.229	183.43	143.6	8.7
467.5	1533.4	69.501	157.10	133.8	7.5	570.0	1869.6	84.563	184.21	119.2	8.5
470.0	1541.6	69.848	157.73	150.4	8.3	572.5	1877.8	84.861	184.75	147.2	8.2
472.5	1549.8	70.224	158.40	145.2	8.0	575.0	1886.0	85.229	185.41	148.4	8.1
475.0	1558.0	70.561	159.01	151.6	8.7	577.5	1894.2	85.600	186.08	138.8	8.7
477.5	1566.2	70.924	159.66	145.2	8.0	580.0	1902.4	85.947	186.70	160.0	8.0
480.0	1574.4	71.303	160.35	145.2	8.3	582.5	1910.6	86.347	187.42	144.8	8.7
482.5	1582.6	71.655	161.03	145.2	8.0	585.0	1918.8	86.709	188.08	121.2	8.9
485.0	1590.8	72.018	161.63	145.2	8.0	587.5	1927.0	87.012	188.62	112.1	8.7
487.5	1599.0	72.472	162.45	181.4	8.1	590.0	1935.2	87.431	189.38	167.6	8.9
490.0	1607.2	72.820	163.08	145.2	8.0	592.5	1943.4	87.795	190.03	145.6	8.2
492.5	1615.4	73.187	163.74	125.2	8.1	595.0	1951.6	88.124	190.62	131.6	8.6
495.0	1623.6	73.595	165.03	125.2	8.9	597.5	1959.8	88.514	191.51	196.0	8.9
500.0	1648.0	74.332	165.49	159.5	9.3	600.0	1968.0	89.915	192.05	120.4	8.0
502.5	1656.2	74.715	166.23	154.2	8.4	602.5	1984.4	89.215	193.36	172.8	8.9
505.0	1664.4	75.125	167.23	151.2	8.0	607.5	1992.6	90.091	194.16	137.2	8.7
507.5	1672.6	75.503	168.40	109.9	8.3	610.0	2000.8	90.434	195.58	176.8	9.7
510.0	1680.8	75.776	169.15	166.8	8.9	612.5	2009.0	91.176	196.28	155.2	8.5
512.5	1689.0	76.193	169.91	166.8	8.2	615.0	2017.2	91.264	196.28	155.2	8.5

CONFIDENTIAL

LOCATION: OREGON
 SUNDECO
 HOLE NAME: FEDS8-28
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL DEG C/KM	GRADIENT DEG F/100 FT
617.5	2025.4	91.685	197.03	168.4	9.2	720.0	2361.6	107.089	224.76	164.8	9.0
620.0	2033.6	92.061	197.71	150.4	8.3	722.5	2359.8	107.459	225.43	148.0	8.1
622.5	2041.8	92.498	198.50	174.8	9.6	725.0	2378.0	107.785	226.01	130.4	7.2
625.0	2050.0	92.819	199.07	128.4	7.0	727.5	2385.2	108.209	226.78	169.6	9.3
627.5	2058.2	93.156	199.68	134.4	7.4	730.0	2394.4	108.646	227.56	174.8	9.6
630.0	2066.4	93.537	200.37	152.4	8.4	732.5	2402.6	109.028	228.25	152.8	8.4
632.5	2074.6	93.932	201.08	158.0	8.7	735.0	2410.8	109.448	229.01	168.0	8.4
635.0	2082.8	94.295	201.73	145.2	8.0	737.5	2419.0	109.852	229.73	150.4	8.3
637.5	2091.0	94.604	202.92	123.6	6.7	740.0	2427.2	110.228	230.41	161.6	8.3
640.0	2099.2	94.957	203.92	141.2	8.0	742.5	2435.4	110.751	231.35	150.4	8.3
642.5	2107.4	95.327	204.59	148.0	8.1	745.0	2443.6	111.151	232.07	111.5	8.1
645.0	2115.6	95.671	205.21	137.6	7.5	747.5	2451.8	111.430	232.57	111.8	8.1
647.5	2123.8	95.956	205.72	114.0	6.0	750.0	2460.0	111.862	233.35	145.2	8.2
650.0	2132.0	96.371	206.47	166.0	9.1	752.5	2468.2	112.225	234.01	153.6	9.0
652.5	2140.2	96.687	207.04	126.4	6.4	755.0	2476.4	112.609	234.70	168.0	9.2
655.0	2148.4	97.047	207.68	144.0	7.4	757.5	2484.6	113.029	235.45	113.2	8.2
657.5	2156.6	97.386	208.29	135.6	7.4	760.0	2492.8	113.487	236.19	150.0	8.2
660.0	2164.8	97.741	208.93	142.0	7.8	762.5	2501.0	113.932	237.11	112.8	8.2
662.5	2173.0	98.098	209.58	142.8	7.8	765.0	2509.2	114.312	237.71	109.6	8.2
665.0	2181.2	98.484	209.28	152.8	8.5	767.5	2517.4	114.818	238.21	114.5	8.2
667.5	2189.4	98.847	210.06	165.2	9.1	770.0	2525.6	115.599	238.67	103.6	8.2
670.0	2197.6	99.257	210.66	145.2	7.8	772.5	2533.8	115.002	239.00	73.6	7.3
672.5	2205.8	99.611	211.30	165.2	9.1	775.0	2542.0	115.157	239.28	62.0	6.2
675.0	2214.0	100.024	212.04	146.4	8.0	777.5	2550.2	115.284	239.51	50.8	5.8
677.5	2222.2	100.390	212.70	151.4	8.4	780.0	2558.4	115.439	239.59	16.8	1.5
680.0	2230.4	100.792	213.43	160.8	8.8	782.5	2566.6	115.326	239.59	15.0	1.3
682.5	2238.6	101.170	214.11	151.2	8.2	785.0	2574.8	113.405	237.99	35.4	3.8
685.0	2246.8	101.526	214.75	142.4	7.8	787.5	2583.0	112.405	236.13	41.3	4.3
687.5	2255.0	101.917	215.45	156.4	8.5	790.0	2591.2	112.461	233.43	37.7	3.5
690.0	2263.2	102.322	216.18	152.0	8.0	792.5	2599.4	111.983	233.39	37.7	3.5
692.5	2271.4	102.714	216.89	156.8	8.6	795.0	2607.6	111.921	233.46	37.7	3.5
695.0	2279.6	103.124	217.62	164.4	9.0	797.5	2615.8	111.921	233.46	37.7	3.5
697.5	2287.8	103.439	218.19	126.0	6.0	800.0	2624.0	111.940	233.49	37.7	3.5
700.0	2296.0	103.841	218.91	150.8	8.8	802.5	2632.2	111.953	233.52	37.7	3.5
702.5	2304.2	104.228	219.61	154.8	8.8	805.0	2640.4	111.964	233.54	37.7	3.5
705.0	2312.4	104.660	220.33	172.8	9.5	807.5	2648.6	111.977	233.56	37.7	3.5
707.5	2320.6	105.041	221.07	152.4	8.4	810.0	2656.8	111.993	233.59	37.7	3.5
710.0	2328.8	105.430	221.77	157.2	8.4	812.5	2665.0	112.004	233.61	37.7	3.5
712.5	2337.0	105.823	222.48	154.4	8.5	815.0	2673.2	112.023	233.64	37.7	3.5
715.0	2345.2	106.234	223.22	177.2	9.9	817.5	2681.4	112.036	233.66	37.7	3.5
717.5	2353.4	106.677	224.02	177.2	9.9	820.0	2689.6	112.036	233.66	37.7	3.5

CONFIDENTIAL

LOCATION: OREGON
 HOLE NAME: SUNDECO
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT
822.5	2697.8	112.046	233.68	4.0	0.2	925.0	3034.0	112.841	235.11	13.6	0.7
825.0	2706.0	112.061	233.71	5.0	0.3	927.5	3042.2	112.863	235.15	8.8	0.5
827.5	2714.2	112.076	233.74	6.0	0.3	930.0	3050.4	112.891	235.20	11.2	0.5
830.0	2722.4	112.091	233.76	5.0	0.3	932.5	3058.6	112.898	235.22	26.8	1.5
832.5	2730.6	112.104	233.79	5.2	0.3	935.0	3066.8	112.965	235.34	7.2	0.5
835.0	2738.8	112.118	233.81	5.5	0.3	937.5	3075.0	112.957	235.30	4.0	0.2
837.5	2747.0	112.128	233.83	5.4	0.2	940.0	3083.2	112.957	235.32	4.0	0.2
840.0	2755.2	112.145	233.86	5.8	0.4	942.5	3091.4	112.961	235.33	1.6	0.1
842.5	2763.4	112.164	233.90	5.5	0.3	945.0	3099.6	112.977	235.36	6.4	0.4
845.0	2771.6	112.178	233.92	5.7	0.4	947.5	3107.8	113.020	235.44	2.8	0.2
847.5	2779.8	112.186	233.93	5.3	0.2	950.0	3116.0	113.013	235.42	14.4	0.8
850.0	2788.0	112.199	233.95	5.2	0.2	952.5	3124.2	113.017	235.43	1.2	0.2
852.5	2796.2	112.208	233.97	5.0	0.3	955.0	3132.4	113.060	235.51	2.2	0.3
855.0	2804.4	112.225	234.03	5.0	0.4	957.5	3140.6	113.086	235.55	10.4	0.6
857.5	2812.6	112.239	234.07	5.0	0.3	960.0	3148.8	113.101	235.58	5.0	0.3
860.0	2820.8	112.278	234.10	5.0	0.3	962.5	3157.0	113.135	235.58	13.6	0.7
862.5	2829.0	112.288	234.12	5.0	0.3	965.0	3165.2	113.181	235.64	18.4	1.0
865.0	2837.2	112.308	234.15	5.0	0.3	967.5	3173.4	113.211	235.73	12.0	0.7
867.5	2845.4	112.308	234.15	5.0	0.4	970.0	3181.6	113.242	235.78	18.4	1.0
870.0	2853.6	112.322	234.18	5.0	0.3	972.5	3189.8	113.288	235.84	20.4	1.1
872.5	2861.8	112.336	234.20	10.0	0.6	975.0	3198.0	113.338	235.92	18.4	1.0
875.0	2870.0	112.363	234.25	10.0	0.6	977.5	3206.2	113.398	236.01	12.0	0.6
877.5	2878.2	112.378	234.28	5.0	0.3	980.0	3214.4	113.426	236.12	11.2	0.5
880.0	2886.4	112.370	234.22	5.0	0.3	982.5	3222.6	113.477	236.17	20.4	1.1
882.5	2894.6	112.370	234.22	5.0	0.3	985.0	3230.8	113.477	236.26	20.4	1.1
885.0	2902.8	112.379	234.29	5.0	0.2	987.5	3239.0	113.487	236.28	24.0	1.4
887.5	2911.0	112.408	234.33	11.0	0.6	990.0	3247.2	113.549	236.39	4.0	0.2
890.0	2919.2	112.419	234.35	11.0	0.6	992.5	3255.4	113.589	236.46	16.0	0.9
892.5	2927.4	112.467	234.44	19.0	1.1	995.0	3263.6	113.611	236.50	8.8	0.5
895.0	2935.6	112.500	234.57	13.0	0.7	997.5	3271.8	113.652	236.57	16.0	1.0
897.5	2943.8	112.538	234.58	15.0	0.8	1000.0	3280.0	113.704	236.65	4.0	0.2
900.0	2952.0	112.553	234.58	14.0	0.8	1002.5	3288.2	113.749	236.67	18.0	1.0
902.5	2960.2	112.553	234.58	14.0	0.8	1005.0	3296.4	113.797	236.75	19.2	1.1
905.0	2968.4	112.596	234.66	38.0	2.1	1007.5	3304.6	113.839	236.83	16.0	0.9
907.5	2976.6	112.714	234.83	11.0	0.5	1010.0	3312.8	113.858	236.94	7.6	0.4
910.0	2984.8	112.742	234.89	11.0	0.5	1012.5	3321.0	113.895	237.01	14.0	0.8
912.5	2993.0	112.742	234.94	10.0	0.5	1015.0	3329.2	113.953	237.13	27.0	1.5
915.0	3001.2	112.769	234.98	10.0	0.5	1022.5	3345.6	114.030	237.25	26.0	1.5
917.5	3017.6	112.793	235.03	10.0	0.5	1025.0	3353.8	114.075	237.34	18.0	1.0
920.0	3025.8	112.807	235.05	5.0	0.3	1025.0	3362.0	114.115	237.41	16.0	1.0

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LOCATION: OREGON
 HOLE NAME: SUNDFCN
 FEDESB-28
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOHERMAL DEG C/KM	GRADIENT DEG F/100 FT
1027.5	3370.2	114.163	237.49	19.2	1.1	1130.0	3706.4	116.131	241.04	7.2	0.4
1030.0	3378.4	114.198	237.56	14.0	0.8	1132.5	3714.6	116.174	241.11	17.2	0.9
1032.5	3386.6	114.242	237.64	17.6	1.0	1135.0	3722.8	116.243	241.24	27.6	1.5
1035.0	3394.8	114.298	237.74	22.4	1.2	1137.5	3731.0	116.323	241.38	32.0	1.8
1037.5	3403.0	114.360	237.85	24.8	1.4	1140.0	3739.2	116.253	241.26	-28.0	-1.5
1040.0	3411.2	114.408	237.93	19.2	1.1	1142.5	3747.4	116.302	241.34	19.6	0.7
1042.5	3419.4	114.465	238.04	22.8	1.3	1145.0	3755.6	116.475	241.66	27.2	1.1
1045.0	3427.6	114.515	238.13	20.0	1.1	1147.5	3763.8	116.475	241.66	42.0	1.5
1047.5	3435.8	114.550	238.19	14.0	0.8	1150.0	3772.0	116.513	241.59	-14.4	-0.8
1050.0	3444.0	114.606	238.29	22.4	1.2	1152.5	3780.2	116.513	241.72	29.6	1.2
1052.5	3452.2	114.633	238.34	23.8	1.3	1155.0	3788.4	116.611	241.90	39.2	1.6
1055.0	3460.4	114.749	238.44	23.2	1.3	1157.5	3796.6	116.611	241.90	0.0	0.0
1057.5	3468.6	114.787	238.55	23.2	1.3	1160.0	3804.8	116.635	241.94	9.6	0.5
1060.0	3476.8	114.830	238.62	17.2	0.8	1162.5	3813.0	116.645	241.96	4.0	0.2
1062.5	3485.0	114.887	238.69	22.8	1.3	1165.0	3821.2	116.708	242.07	25.2	1.4
1065.0	3493.2	114.970	238.80	22.8	1.3	1167.5	3829.4	116.706	242.07	-0.8	0.0
1067.5	3501.4	114.952	238.95	33.2	1.8	1170.0	3837.6	116.757	242.16	20.4	1.4
1070.0	3509.6	114.926	239.05	-7.2	-0.4	1172.5	3845.8	116.835	242.28	31.2	1.7
1072.5	3517.8	115.101	239.18	29.6	1.5	1175.0	3854.0	116.823	242.28	-4.8	-0.3
1075.0	3526.0	115.132	239.24	32.0	1.5	1177.5	3862.2	116.838	242.31	5.2	0.3
1077.5	3534.2	115.166	239.30	13.6	0.7	1180.0	3870.4	116.856	242.34	7.2	0.4
1080.0	3542.4	115.166	239.30	13.6	0.7	1182.5	3878.6	116.845	242.32	-4.4	-0.2
1082.5	3550.6	115.275	239.50	43.6	2.4	1185.0	3886.8	116.888	242.40	17.2	0.9
1085.0	3558.8	115.309	239.56	13.6	0.7	1187.5	3895.0	116.916	242.49	-51.2	-3.8
1087.5	3567.0	115.439	239.79	52.0	2.9	1190.0	3903.2	116.941	242.49	30.0	1.0
1090.0	3575.2	115.505	239.91	26.4	1.4	1192.5	3911.4	117.066	242.72	-50.0	-3.5
1092.5	3583.4	115.548	239.99	17.2	0.7	1195.0	3919.6	117.118	242.81	20.0	0.8
1095.0	3591.6	115.624	240.12	30.0	1.5	1197.5	3927.8	117.138	242.85	8.0	0.3
1097.5	3600.0	115.733	240.32	28.0	1.4	1200.0	3936.0	117.194	242.91	13.6	0.5
1100.0	3608.2	115.775	240.40	15.6	0.9	1202.5	3944.2	117.194	242.95	8.8	0.3
1102.5	3616.4	115.814	240.47	15.6	0.9	1205.0	3952.4	117.231	243.02	15.6	0.5
1105.0	3624.6	115.850	240.53	14.4	0.8	1207.5	3960.6	117.231	243.02	-0.8	0.0
1107.5	3632.8	115.899	240.73	44.0	2.4	1210.0	3968.8	117.250	243.12	23.6	0.8
1110.0	3641.0	115.950	240.77	14.4	0.8	1212.5	3977.0	117.323	243.18	13.2	0.5
1112.5	3649.2	115.999	240.82	24.4	1.4	1215.0	3985.2	117.348	243.23	10.0	0.4
1115.0	3657.4	116.045	240.88	26.0	1.4	1217.5	3993.4	117.383	243.29	14.0	0.5
1117.5	3665.6	116.085	240.94	32.0	1.8	1220.0	4001.6	117.486	243.47	41.2	2.3
1120.0	3673.8	116.030	240.85	18.0	0.8	1222.5	4009.8	117.519	243.53	13.2	0.5
1122.5	3682.0	116.075	240.94	18.0	0.8	1225.0	4018.0	117.588	243.66	29.2	1.5
1125.0	3690.2	116.113	241.00	15.2	0.8	1227.5	4026.2	117.661	243.79	16.4	0.9
1127.5	3698.4	116.113	241.00	15.2	0.8	1230.0	4034.4	117.702	243.86	16.4	0.9

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LOCATION: OREGON
 SUNDECO
 HOLE NAME: FUNDECO
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL DEG C/KM	GRADIENT DEG F/100 FT
1232.5	4042.6	117.778	244.00	30.4	1.7	1335.0	4378.8	119.718	247.49	-38.8	-2.1
1235.0	4050.8	117.895	244.21	46.8	2.6	1337.5	4387.0	119.747	247.54	11.6	0.6
1237.5	4059.0	118.051	244.49	62.4	3.4	1340.0	4395.2	119.720	247.50	-10.8	-0.6
1240.0	4067.2	117.901	244.23	-57.6	-3.2	1342.5	4403.4	119.737	247.53	6.8	0.4
1242.5	4075.4	117.985	244.22	-2.4	-0.1	1345.0	4411.6	119.963	247.83	10.0	0.6
1245.0	4083.6	117.985	244.37	33.6	1.8	1347.5	4419.8	119.870	247.77	-37.2	-2.0
1247.5	4091.8	118.036	244.46	20.4	1.1	1350.0	4428.0	119.912	247.84	16.8	0.9
1250.0	4100.0	118.003	244.41	-14.4	-0.8	1352.5	4436.2	119.925	247.87	5.2	0.3
1252.5	4108.2	118.148	244.67	58.0	3.2	1355.0	4444.4	120.048	248.09	49.2	2.7
1255.0	4116.4	118.141	244.65	-2.8	-0.2	1357.5	4452.6	120.159	248.29	44.4	2.4
1257.5	4124.6	118.213	244.78	28.8	1.6	1360.0	4460.8	120.204	248.37	18.0	0.9
1260.0	4132.8	118.213	244.78	34.8	1.9	1362.5	4469.0	120.288	248.52	-30.4	-1.7
1262.5	4141.0	118.213	244.78	0.0	0.0	1365.0	4477.2	120.212	248.38	13.6	0.6
1265.0	4149.2	118.300	244.94	34.8	1.9	1367.5	4485.4	120.173	248.31	-15.6	-0.9
1267.5	4157.4	118.394	245.11	0.0	0.0	1370.0	4493.6	120.173	248.31	-0.0	0.0
1270.0	4165.6	118.545	245.44	37.6	2.1	1372.5	4501.8	120.171	248.31	24.4	1.3
1272.5	4173.8	118.575	245.57	60.4	3.3	1375.0	4510.0	120.232	248.42	2.0	0.1
1275.0	4182.0	118.596	245.47	12.0	0.4	1377.5	4518.2	120.232	248.42	24.4	1.3
1277.5	4190.2	118.629	245.53	2.0	0.2	1380.0	4526.4	120.573	249.03	99.6	5.5
1280.0	4198.4	118.652	245.57	-9.2	-0.5	1382.5	4534.6	120.488	248.88	34.0	1.9
1282.5	4206.6	118.629	245.53	48.8	2.7	1385.0	4542.8	120.583	249.03	4.0	0.2
1285.0	4214.8	118.627	245.75	-0.0	0.0	1387.5	4551.0	120.612	249.10	11.6	0.5
1287.5	4223.0	118.749	245.96	47.2	2.6	1390.0	4559.2	120.680	249.22	27.2	1.2
1290.0	4231.2	118.867	246.07	24.4	1.3	1392.5	4567.4	120.711	249.37	19.5	0.9
1292.5	4239.4	118.982	246.17	21.6	1.1	1395.0	4575.6	120.813	249.46	12.4	0.6
1295.0	4247.6	118.982	246.17	2.0	0.2	1397.5	4583.8	120.832	249.50	7.6	0.4
1297.5	4255.8	119.051	246.29	-7.2	-0.4	1400.0	4592.0	120.848	249.53	21.6	1.2
1300.0	4264.0	119.142	246.45	45.6	2.5	1402.5	4600.2	120.905	249.53	6.4	0.3
1302.5	4272.2	119.171	246.51	11.6	0.6	1405.0	4608.4	120.959	249.63	22.8	1.2
1305.0	4280.4	119.253	246.66	32.0	1.6	1407.5	4616.6	121.030	249.85	21.6	1.1
1307.5	4288.6	119.323	246.78	28.0	1.4	1410.0	4624.8	121.090	249.96	-17.6	-0.8
1310.0	4296.8	119.393	246.92	30.4	1.5	1412.5	4633.0	121.145	250.01	24.0	1.2
1312.5	4305.0	119.459	247.03	14.0	0.7	1415.0	4641.2	121.278	250.30	-5.6	-0.3
1315.0	4313.2	119.459	247.03	24.0	1.3	1417.5	4649.4	121.114	250.01	10.4	0.5
1317.5	4321.4	119.524	247.14	11.2	0.6	1420.0	4657.6	121.140	250.05	-9.2	-0.4
1320.0	4329.6	119.554	247.20	12.0	0.6	1422.5	4665.8	121.192	250.15	20.8	1.1
1322.5	4337.8	119.704	247.47	60.0	3.2	1425.0	4674.0	121.232	250.22	16.0	0.8
1325.0	4346.0	119.713	247.48	11.6	0.6	1427.5	4682.2	121.263	250.27	12.4	0.6
1327.5	4354.2	119.742	247.54	11.6	0.6	1430.0	4690.4	121.325	250.39	24.8	1.4
1330.0	4362.4	119.815	247.67	29.2	1.5	1432.5	4698.6	121.338	250.41	5.6	0.3
1332.5	4370.6	119.815	247.67	29.2	1.5	1435.0	4706.8	121.338	250.41	5.6	0.3

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LOCATION: OREGON
 HOLE NAME: SUNDECO
 DATE MEASURED: 8/12/82

DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOTHERMAL DEG C/KM	GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEOTHERMAL DEG C/KM	GRADIENT DEG F/100 FT
4723.2	121.276	250.30	-12.4	-0.7	1542.5	5059.4	123.817	254.87	75.2	4.1
4731.4	121.315	250.37	15.6	0.9	1545.0	5067.6	123.916	255.05	39.6	2.2
4739.6	121.294	250.33	-8.4	-0.5	1547.5	5075.8	124.035	255.26	47.6	2.6
4747.8	121.336	250.40	16.8	0.9	1550.0	5084.0	124.108	255.39	29.2	1.5
4756.0	121.348	250.43	4.8	0.3	1552.5	5092.2	124.151	255.47	17.2	0.9
4764.2	121.397	250.51	19.6	1.1	1555.0	5100.4	124.240	255.63	35.6	2.0
4772.4	121.492	250.69	38.0	2.1	1557.5	5108.6	124.381	255.89	56.4	3.1
4780.6	121.483	250.67	-3.6	-0.2	1560.0	5116.8	124.388	255.90	2.8	0.2
4788.8	121.522	250.74	15.6	0.9	1562.5	5125.0	124.605	256.29	86.8	4.8
4797.0	121.563	250.99	56.4	3.1	1565.0	5133.2	124.707	256.47	40.8	2.2
4805.2	121.703	251.08	16.0	0.9	1567.5	5141.4	124.529	256.15	44.4	2.4
4813.4	121.863	251.08	60.4	3.3	1570.0	5149.6	124.540	256.35	31.6	1.7
4821.6	121.841	251.31	-8.8	-0.5	1572.5	5157.8	124.719	256.49	58.8	3.1
4829.8	121.987	251.31	58.4	3.2	1575.0	5166.0	124.866	256.76	64.8	3.5
4838.0	121.909	251.58	-31.2	-1.7	1577.5	5174.2	125.028	257.05	-9.2	-0.5
4846.2	122.001	251.44	36.8	2.2	1580.0	5182.4	125.005	257.01	48.4	2.7
4854.4	122.059	251.60	23.2	1.3	1582.5	5190.6	125.126	257.23	17.2	1.0
4862.6	122.059	251.71	139.6	7.7	1585.0	5198.8	125.179	257.32	21.4	1.2
4870.8	122.215	252.33	-77.2	-4.2	1587.5	5207.0	125.222	257.40	17.6	1.0
4879.0	122.284	252.11	27.6	1.5	1590.0	5215.2	125.266	257.48	17.2	1.0
4887.2	122.283	252.11	-0.4	-0.0	1592.5	5223.4	125.308	257.55	16.8	0.9
4895.4	122.360	252.25	30.8	1.7	1595.0	5231.6	125.339	257.61	32.4	1.8
4903.6	122.426	252.37	26.4	1.4	1597.5	5239.8	125.420	257.76	12.4	0.7
4911.8	122.493	252.49	26.8	1.5	1600.0	5248.0	125.578	257.97	63.2	3.5
4920.0	122.593	252.67	40.0	2.2	1602.5	5256.2	125.546	257.98	-14.8	-0.8
4928.2	122.592	252.68	3.6	0.2	1605.0	5264.4	125.541	257.97	2.0	0.1
4936.4	122.581	252.83	19.6	1.1	1607.5	5272.6	125.611	258.10	25.8	1.4
4944.6	122.736	252.91	31.6	1.7	1610.0	5280.8	125.664	258.20	21.2	1.2
4952.8	122.776	252.90	18.4	1.1	1612.5	5289.0	125.776	258.40	44.8	2.5
4961.0	122.898	253.00	48.8	2.7	1615.0	5297.2	125.865	258.56	35.6	2.0
4969.2	122.950	253.22	20.8	1.1	1617.5	5305.4	125.920	258.66	22.0	1.2
4977.4	122.902	253.31	20.8	1.1	1620.0	5313.6	126.047	258.88	50.8	2.8
4985.6	123.001	253.40	-0.4	-0.0	1622.5	5321.8	126.092	258.97	18.0	1.0
4993.8	123.254	253.85	50.8	2.8	1625.0	5330.0	126.163	259.09	28.4	1.6
5002.0	123.128	253.63	50.4	2.8	1627.5	5338.2	126.235	259.22	28.8	1.6
5010.2	123.249	253.86	50.4	2.8	1630.0	5346.4	126.360	259.45	50.0	2.8
5018.4	123.344	254.02	38.8	2.1	1632.5	5354.6	126.485	259.39	-12.0	-0.7
5026.6	123.577	254.19	46.8	2.6	1635.0	5362.8	126.465	259.64	54.0	3.0
5034.8	123.544	254.10	46.8	2.6	1637.5	5371.0	126.508	259.71	17.2	1.0
5043.0	123.629	254.49	29.8	1.6	1640.0	5379.2	126.515	259.73	2.8	0.2
5051.2	123.629	254.53	29.8	1.6	1642.5	5387.4	126.653	259.98	55.2	3.0

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LOCATION: OREGON
 HOLE NAME: SUNDECO
 DATE MEASURED: 8/12/82

DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL GRADIENT DEG C/KM	GEO THERMAL GRADIENT DEG F/100 FT	DEPTH METERS	DEPTH FEET	TEMPERATURE DEG C	TEMPERATURE DEG F	GEO THERMAL GRADIENT DEG C/KM	GEO THERMAL GRADIENT DEG F/100 FT
1645.0	5395.6	126.708	260.07	22.0	1.2	1518.6	128.144	262.66	27.2	1.5	-0.2
1647.5	5403.8	126.768	260.18	24.0	1.3	1526.8	128.259	262.87	46.0	4.7	2.5
1650.0	5412.0	126.829	260.29	24.4	1.3	1535.0	128.473	263.25	85.6	8.5	4.7
1652.5	5420.2	126.938	260.49	43.6	2.4	1543.2	128.585	263.45	44.8	2.7	2.7
1655.0	5428.4	127.005	260.61	26.8	1.5	1551.4	128.795	263.83	50.0	3.4	0.7
1657.5	5436.6	127.127	260.83	48.8	2.7	1559.6	128.826	263.89	34.0	1.2	0.7
1660.0	5444.8	127.257	261.08	56.0	3.1	1567.8	129.047	264.28	88.4	8.8	4.9
1662.5	5453.0	127.335	261.20	27.2	1.5	1576.0	129.130	264.34	12.4	1.2	0.7
1665.0	5461.2	127.513	261.52	71.2	3.9	1584.2	129.178	264.43	12.4	1.2	0.7
1667.5	5469.4	127.674	261.81	64.4	3.5	1592.4	129.288	264.72	63.2	6.3	3.5
1670.0	5477.6	127.736	261.92	24.8	1.4	1600.6	129.288	264.72	50.8	5.0	3.4
1672.5	5485.8	127.818	262.07	32.8	1.8	1608.8	129.202	264.56	50.8	5.0	3.4
1675.0	5494.0	127.952	262.31	19.6	1.1	1617.0	129.329	264.79	50.8	5.0	3.4
1677.5	5502.2	128.001	262.40	30.0	1.6	1625.2	129.318	264.77	50.8	5.0	3.4
1680.0	5510.4	128.076	262.54								

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