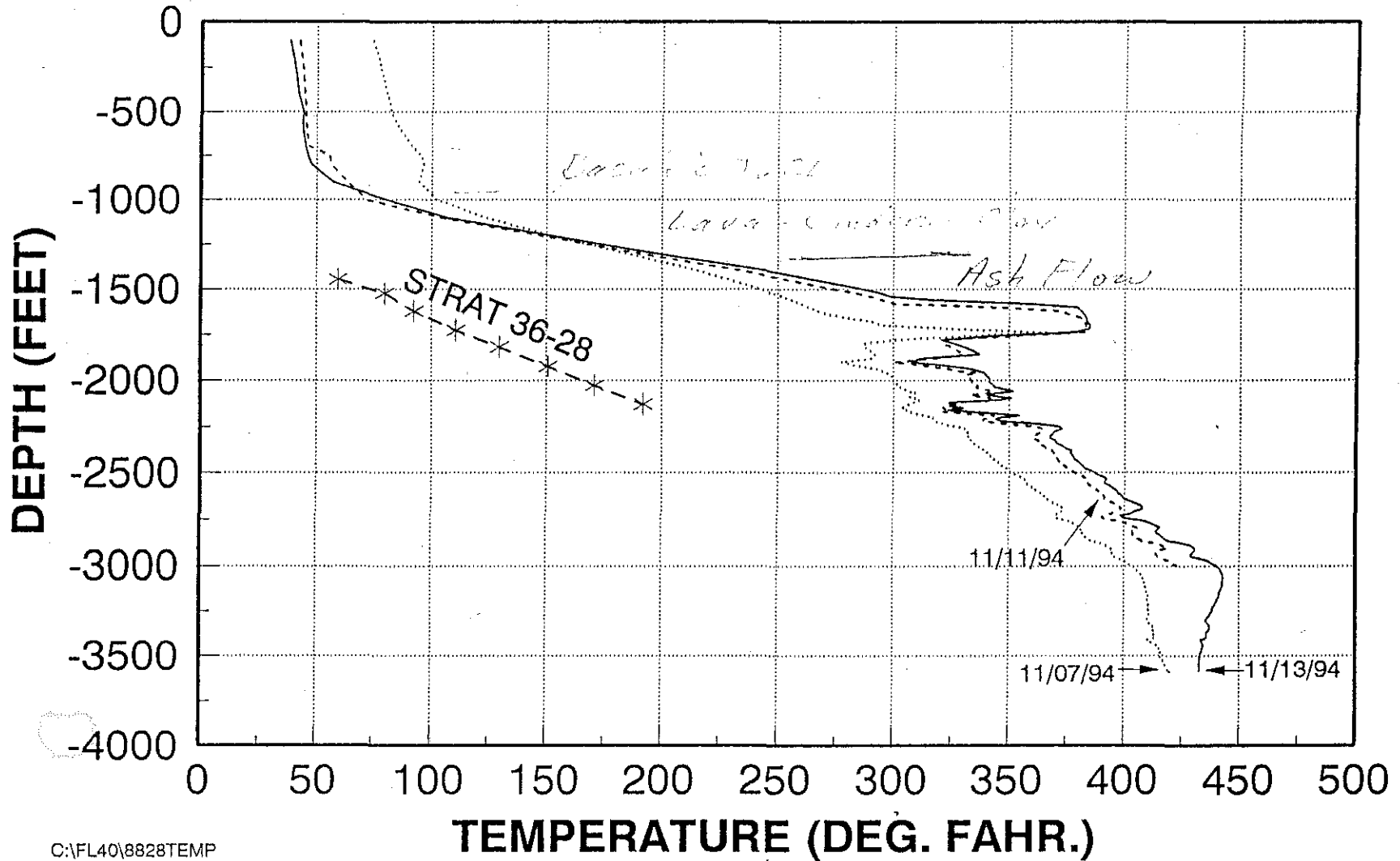


FIGURE 1
GLASS MOUNTAIN STRAT 88-28
TEMPERATURE vs DEPTH PROFILES



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SUB-SURFACE TEMPERATURE SURVEY

 CO. : CAL PINE CASING :
 RUN NO. : C3 LINER :
 FIELD : GLASS MOUNTAIN TUBING :
 WELL : 88-28 GMS PERFS :
 DATE : 11-11-1994 MPP :
 ZERO POINT : 10' ZONE :
 WELL STATUS: STATIC PRODUCER ELEVATION :
 MAX TEMP : SHUT-IN :
 PICK-UP : CASING PRESS: 0 PSIG
 EFF DEPTH : 3614' TUBING PRESS: 0 PSIG
 RUN BY TRUCK #3 PROBE TEMP @ 40.6F
 BY REGGIE JONES APPROX. FLUID LEVEL @ 1100'
 NON-CONTACT/CONT
 CALIBRATED 11/9/94

SURVEY DATA

RUN NO. C3 FIELD GLASS MOUNTAIN				WELL 88-28 GMS			
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
7	40.6	180	43.1	355	44.4	530	45.5
10	40.6	185	43.1	360	44.5	535	45.5
15	40.9	190	43.2	365	44.5	540	45.6
20	41.0	195	43.2	370	44.5	545	45.6
25	41.1	200	43.3	375	44.5	550	45.6
30	41.2	205	43.3	380	44.7	555	45.6
35	41.3	210	43.4	385	44.5	560	45.6
40	41.4	215	43.5	390	44.5	565	45.6
45	41.5	220	43.5	395	44.7	570	45.6
50	41.6	225	43.5	400	44.7	575	45.7
55	41.7	230	43.5	405	44.7	580	45.7
60	41.8	235	43.6	410	44.7	585	45.8
65	41.8	240	43.6	415	44.7	590	45.8
70	41.9	245	43.7	420	44.8	595	45.8
75	41.9	250	43.7	425	44.9	600	45.8
80	42.0	255	43.8	430	44.9	605	45.8
85	42.1	260	43.8	435	45.0	610	45.9
90	42.1	265	43.8	440	45.0	615	46.0
95	42.2	270	43.9	445	45.0	620	46.0
100	42.2	275	43.9	450	44.9	625	46.1
105	42.3	280	43.9	455	45.1	630	46.1
110	42.3	285	44.0	460	45.0	635	46.0
115	42.4	290	44.0	465	45.1	640	46.1
120	42.5	295	44.0	470	45.1	645	46.1
125	42.5	300	44.1	475	45.2	650	46.2
130	42.6	305	44.1	480	45.2	655	46.2
135	42.7	310	44.1	485	45.2	660	46.2
140	42.7	315	44.2	490	45.2	665	46.4
145	42.8	320	44.2	495	45.2	670	46.3
150	42.8	325	44.2	500	45.3	675	46.3
155	42.9	330	44.4	505	45.4	680	46.4
160	42.9	335	44.3	510	45.3	685	46.4
165	43.2	340	44.3	515	45.4	690	46.4
170	43.0	345	44.5	520	45.4	695	46.5
175	43.0	350	44.4	525	45.5	700	46.6

SURVEY DATA

DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
920	68.0	1150	109.0	1090	61.0	1090	61.0
925	68.7	1155	109.5	1095	61.1	1095	61.1
930	69.1	1160	110.0	1100	61.2	1100	61.2
915	64.9	1145	109.5	1110	62.7	1110	62.7
910	64.5	1140	109.0	1105	62.0	1105	62.0
905	64.4	1135	109.0	1100	61.8	1100	61.8
900	64.5	1130	109.0	1095	61.3	1095	61.3
895	63.8	1125	109.0	1090	61.0	1090	61.0
890	63.4	1120	109.0	1085	60.5	1085	60.5
885	63.0	1115	109.0	1080	60.5	1080	60.5
880	62.7	1110	109.0	1075	60.5	1075	60.5
875	62.0	1105	109.0	1070	59.9	1070	59.9
870	61.8	1100	109.0	1065	59.6	1065	59.6
865	61.3	1095	109.0	1060	59.6	1060	59.6
860	61.0	1090	109.0	1055	59.6	1055	59.6
855	61.1	1085	109.0	1050	57.7	1050	57.7
850	60.5	1080	109.0	1045	57.1	1045	57.1
845	60.5	1075	109.0	1040	56.7	1040	56.7
840	59.9	1070	109.0	1035	56.4	1035	56.4
835	59.6	1065	109.0	1030	56.2	1030	56.2
830	58.8	1060	109.0	1025	56.2	1025	56.2
825	58.2	1055	109.0	1020	55.7	1020	55.7
820	57.7	1050	109.0	1015	55.4	1015	55.4
815	57.1	1045	109.0	1010	55.1	1010	55.1
810	56.7	1040	109.0	1005	55.0	1005	55.0
805	56.4	1035	109.0	1000	55.1	1000	55.1
800	56.2	1030	109.0	995	55.2	995	55.2
795	56.2	1025	109.0	990	55.3	990	55.3
790	55.7	1020	109.0	985	55.4	985	55.4
785	55.4	1015	109.0	980	55.7	980	55.7
780	55.1	1010	109.0	975	56.1	975	56.1
775	55.0	1005	109.0	970	56.1	970	56.1
770	55.1	1000	109.0	965	56.1	965	56.1
765	55.2	995	109.0	960	67.9	960	67.9
760	55.3	990	109.0	955	67.6	955	67.6
755	55.4	985	109.0	950	67.1	950	67.1
750	55.7	980	109.0	945	67.0	945	67.0
745	56.1	975	109.0	940	68.7	940	68.7
740	56.1	970	109.0	935	68.4	935	68.4
735	56.1	965	109.0	930	68.3	930	68.3
730	55.2	960	109.0	925	67.9	925	67.9
725	52.7	955	109.0	920	67.9	920	67.9
720	46.9	950	109.0	915	67.6	915	67.6
715	46.7	945	109.0	910	67.1	910	67.1
710	46.7	940	109.0	905	117.0	905	117.0
705	46.6	935	109.0	900	117.5	900	117.5
				895	1170	895	1170
				890	1165	890	1165
				885	1165	885	1165
				880	1165	880	1165
				875	1165	875	1165
				870	1165	870	1165
				865	1165	865	1165
				860	1165	860	1165
				855	1165	855	1165
				850	1165	850	1165
				845	1165	845	1165
				840	1165	840	1165
				835	1165	835	1165
				830	1165	830	1165
				825	1165	825	1165
				820	1165	820	1165
				815	1165	815	1165
				810	1165	810	1165
				805	1165	805	1165
				800	1165	800	1165
				795	1165	795	1165
				790	1165	790	1165
				785	1165	785	1165
				780	1165	780	1165
				775	1165	775	1165
				770	1165	770	1165
				765	1165	765	1165
				760	1165	760	1165
				755	1165	755	1165
				750	1165	750	1165
				745	1165	745	1165
				740	1165	740	1165
				735	1165	735	1165
				730	1165	730	1165
				725	1165	725	1165
				720	1165	720	1165
				715	1165	715	1165
				710	1165	710	1165
				705	1165	705	1165
				700	1165	700	1165
				695	1165	695	1165
				690	1165	690	1165
				685	1165	685	1165
				680	1165	680	1165
				675	1165	675	1165
				670	1165	670	1165
				665	1165	665	1165
				660	1165	660	1165
				655	1165	655	1165
				650	1165	650	1165
				645	1165	645	1165
				640	1165	640	1165
				635	1165	635	1165
				630	1165	630	1165
				625	1165	625	1165
				620	1165	620	1165
				615	1165	615	1165
				610	1165	610	1165
				605	1165	605	1165
				600	1165	600	1165
				595	1165	595	1165
				590	1165	590	1165
				585	1165	585	1165
				580	1165	580	1165
				575	1165	575	1165
				570	1165	570	1165
				565	1165	565	1165
				560	1165	560	1165
				555	1165	555	1165
				550	1165	550	1165
				545	1165	545	1165
				540	1165	540	1165
				535	1165	535	1165
				530	1165	530	1165
				525	1165	525	1165
				520	1165	520	1165
				515	1165	515	1165
				510	1165	510	1165
				505	1165	505	1165
				500	1165	500	1165
				495	1165	495	1165
				490	1165	490	1165
				485	1165	485	1165
				480	1165	480	1165
				475	1165	475	1165
				470	1165	470	1165
				465	1165	465	1165
				460	1165	460	1165
				455	1165	455	1165
				450	1165	450	1165
				445	1165	445	1165
				440	1165	440	1165
				435	1165	435	1165
				430	1165	430	1165
				425	1165	425	1165
				420	1165	420	1165
				415	1165	415	1165
				410	1165	410	1165
				405	1165	405	1165
				400	1165	400	1165
				395	1165	395	1165
				390	1165	390	1165
				385	1165	385	1165
				380	1165	380	1165
				375	1165	375	1165
				370	1165	370	1165
				365	1165	365	1165
				360	1165	360	1165
				355	1165	355	1165
				350	1165	350	1165
				345	1165	345	1165
				340	1165	340	1165
				335	1165	335	1165
				330	1165	330	1165
				325	1165	325	1165
				320	1165	320	1165
				315	1165	315	1165
				310	1165	310	1165
				305	1165	305	1165
				300	1165	300	1165
				295	1165	295	1165
				290	1165	290	1165
				285	1165	285	1165
				280	1165	280	1165
				275	1165	275	1165
				270	1165	270	1165
				265	1165	265	1165

SURVEY DATA

RUN NO. C3		FIELD GLASS MOUNTAIN		WELL 88-28 GMS	
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
1625	372.3	1855	329.9	2085	335.4
1630	373.8	1860	330.3	2090	337.1
1635	374.9	1865	330.7	2095	339.6
1640	375.7	1870	329.2	2100	341.8
1645	376.8	1875	325.5	2105	344.0
1650	378.9	1880	319.1	2110	343.2
1655	380.4	1885	308.5	2115	337.1
1660	381.2	1890	300.9	2120	329.4
1665	381.2	1895	298.1	2125	323.7
1670	381.5	1900	299.9	2130	322.9
1675	381.5	1905	303.8	2135	323.6
1680	382.2	1910	307.7	2140	321.5
1685	382.7	1915	310.2	2145	320.6
1690	382.8	1920	313.0	2150	321.0
1695	383.0	1925	316.1	2155	323.9
1700	383.2	1930	319.2	2160	323.3
1705	383.2	1935	322.5	2165	318.9
1710	382.8	1940	324.2	2170	321.2
1715	382.6	1945	325.3	2175	325.6
1720	382.5	1950	326.8	2180	332.1
1725	383.2	1955	328.4	2185	338.6
1730	384.4	1960	336.2	2190	343.4
1735	384.8	1965	330.6	2195	344.6
1740	382.9	1970	331.3	2200	342.5
1745	376.0	1975	331.8	2205	338.7
1750	367.5	1980	331.9	2210	338.6
1755	360.0	1985	332.1	2215	338.4
1760	351.6	1990	332.8	2220	338.7
1765	342.9	1995	333.1	2225	341.3
1770	334.0	2000	333.4	2230	345.2
1775	327.3	2005	333.6	2235	350.4
1780	322.7	2010	333.5	2240	353.6
1785	320.1	2015	333.9	2245	358.5
1790	319.5	2020	334.3	2250	361.5
1795	320.1	2025	334.9	2255	362.8
1800	320.6	2030	335.9	2260	364.2
1805	321.6	2035	335.3	2265	363.3
1810	322.3	2040	335.6	2270	363.3
1815	323.8	2045	336.3	2275	363.2
1820	325.0	2050	338.8	2280	363.2
1825	325.9	2055	342.9	2285	361.9
1830	326.6	2060	342.9	2290	361.8
1835	327.0	2065	343.7	2295	361.2
1840	327.5	2070	340.9	2300	361.3
1845	329.2	2075	335.8	2305	360.4
1850	329.1	2080	335.2	2310	360.2

SURVEY DATA

RUN NO. C3		FIELD GLASS MOUNTAIN		WELL 88-28 GMS			
DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP	DEPTH	TEMP
2545	384.0	2775	401.6	3005	424.2	3235	417.0
2550	383.9	2780	402.3	3010	424.4	3240	417.1
2555	383.6	2785	403.1	3015	425.0	3245	414.8
2560	383.9	2790	403.7	3020	425.1	3250	413.5
2565	384.4	2795	404.7	3025	425.1	3255	414.0
2570	385.0	2800	405.6	3030	424.4	3260	409.8
2575	385.6	2805	405.7	3035	425.0	3265	413.0
2580	386.2	2810	405.3	3040	424.4	3270	412.0
2585	386.9	2815	404.9	3045	424.2	3275	414.3
2590	387.6	2820	403.7	3050	424.5	3280	413.7
2595	388.1	2825	403.1	3055	423.8	3285	412.2
2600	388.6	2830	403.5	3060	423.5	3290	410.2
2605	388.9	2835	404.0	3065	423.8	3295	409.8
2610	389.2	2840	403.9	3070	424.1	3300	411.6
2615	389.6	2845	404.9	3075	423.7	3305	412.1
2620	390.3	2850	405.1	3080	423.0	3310	409.9
2625	390.8	2855	406.6	3085	424.3	3315	411.3
2630	391.1	2860	406.0	3090	423.2	3320	407.5
2635	391.2	2865	406.4	3095	423.9	3325	412.8
2640	391.0	2870	407.7	3100	423.2	3330	410.4
2645	391.9	2875	408.8	3105	423.1	3335	411.1
2650	392.1	2880	411.4	3110	422.9	3340	411.2
2655	393.1	2885	413.3	3115	423.4	3345	412.5
2660	394.3	2890	415.2	3120	422.0	3350	412.5
2665	395.5	2895	415.6	3125	422.7	3355	411.0
2670	396.2	2900	416.6	3130	423.2	3360	408.7
2675	397.0	2905	418.2	3135	421.7	3365	410.3
2680	396.7	2910	419.0	3140	421.7	3370	410.3
2685	397.6	2915	418.9	3145	423.0	3375	410.2
2690	398.3	2920	415.8	3150	421.1	3380	410.8
2695	398.4	2925	416.4	3155	420.0	3385	410.4
2700	397.8	2930	415.0	3160	419.7	3390	410.7
2705	396.7	2935	414.4	3165	419.0	3395	408.4
2710	395.5	2940	413.6	3170	418.9	3400	399.1
2715	395.5	2945	414.6	3175	418.8	3405	402.9
2720	394.8	2950	414.5	3180	418.3	3410	398.5
2725	393.8	2955	415.1	3185	419.1	3415	398.4
2730	391.6	2960	415.1	3190	419.9	3420	402.7
2735	390.4	2965	415.8	3195	419.2	3425	402.8
2740	390.2	2970	419.1	3200	419.7	3430	403.7
2745	391.4	2975	421.6	3205	418.8	3435	402.9
2750	392.0	2980	419.6	3210	417.7	3440	404.0
2755	394.5	2985	421.2	3215	416.7	3445	406.3
2760	396.8	2990	420.5	3220	417.9	3450	403.6
2765	398.9	2995	421.8	3225	417.3	3455	402.6
2770	400.4	3000	423.0	3230	416.3	3460	404.3

SURVEY DATA

RUN NO.	C3	FIELD	GLASS MOUNTAIN		WELL 88-28 GMS			
			DEPTH	TEMP	DEPTH	TEMP		
3465	404.3		3500	400.2	3535	400.1	3570	397.0
3470	401.6		3505	398.7	3540	399.0	3575	398.8
3475	402.1		3510	398.2	3545	399.8	3580	399.4
3480	400.1		3515	397.4	3550	398.8	3585	399.5
3485	402.0		3520	397.6	3555	399.9	3590	400.1
3490	401.8		3525	399.4	3560	399.2	3595	397.3
3495	400.0		3530	398.9	3565	396.2	3601	396.7