

UNOCAL SUBSURFACE SURVEY

FIELD	Glass Mountain					Well Name	GMFU 31-17			
Casing	13.375" 0 to 1128					Date	7/22/92			
						Zero Point	Swab Gate			
Liner Description	9.625" 911 to 3054					Depth	8787			
	7.00" 2887 to 8777					Elevation	7000			
Remarks	LINER HANGER IS TOOL STOPPER !!!									
Purpose	Fluid Level @ ± 1060 ft									
Element	temp	Serial #	Sandia	Clock	Electronic	Well head Press.	0			
Element		Serial #		Clock		Pickup Depth	8074			
Element		Serial #		Clock		Last Depth	8085			
1. Engage Stylus			1. Disengage Stylus							
2. Engage Stylus			2. Disengage Stylus							
3. Engage Stylus			3. Disengage Stylus		Max. Temp (MRT)					
Well Status	Shut In					open swab gate	8:54			
injection rate						time on bottom	13:11			
production rate						time off bottom	13:26			
shut in	8/30/89					close swab gate	-			
time	depth	deflection	p/t	gradient	time	depth	deflection	p/t	gradient	
859	1000		83							
909	1400		242							
919	1800		368							
924	2000		417							
934	2200		451							
944	2400		468							
954	2600		478							
1004	2800		483							
1014	3000		484							
1034	3400		474							
1044	3600		466							
1054	3800		461							
1104	4000		461							
1114	4400		461							
1124	4800		462							
1134	5200		459							
1144	5600		464							
1154	6000		467							
1204	6400		468							
1214	6800		467							
1219	7000		467							
1229	7200		468							
1239	7400		471							
1249	7600		471							

WELL 31-17

TELEPHONE FLATS

- Sub surface Temp Survey
- Injection PT Survey
- Depth Log - Temp
- PT Tool Log - Temp v Depth

1259	7800		467					
1309	8000		449					
1311	8050		449					

SUB - SURFACE / INJECTION SURVEY RESULTS

WELL : GM 31 - 17

DATE 10/9/2002

All measurements are from ground level

8074'

Depth tools were hung = 8000'

Depth of tools	Injection Rate	Temperature	Pressure	Water Level
8000'	0	494.02	2408.343	1074

Time

Comments

13:17 1000'
13:23 2000'
13:32 3000'
13:40 4000'
13:48 5000'
13:58 6000'
14:05 7000'
14:16 8000'

We ran the memory tool in at 100/130 FPM, the times on the left corresponds to the depth, we hung the tool @ 8000' for 15 min.

Pressure Units : PSIG Temperature Units : FAHRE NHEIT

Start Time : October 9, 2002 12:53:00

Location : GM 31-17

Recorder Serial Number : 1054

Calibration Date : OCT.1 1-Jun

Pressure Range : 4993 psi 34425.7 Depth 364 kPag

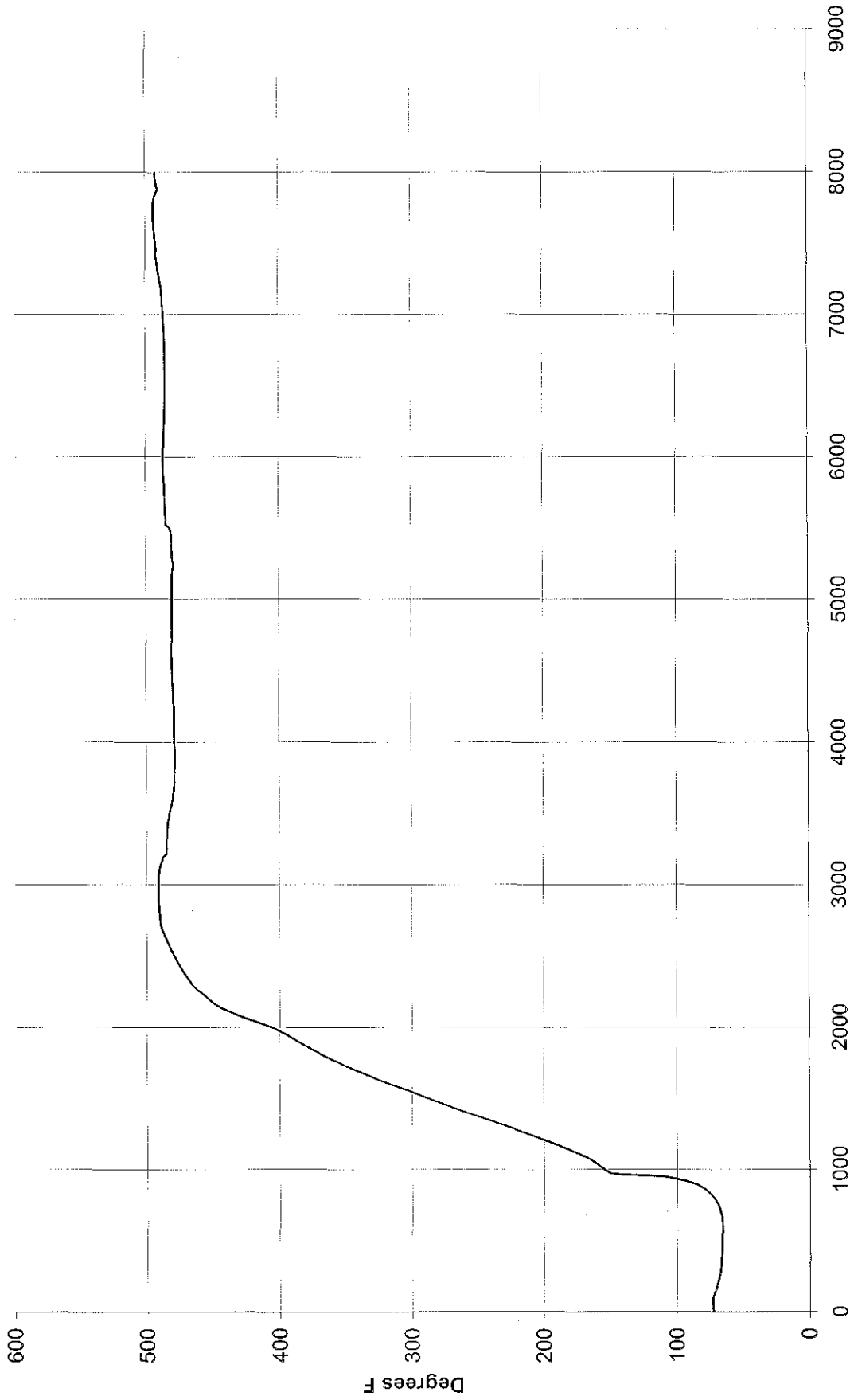
pg 1-2 of 182

10/9/2002	12:53:05	0.001389	-0.748	68.489
10/9/2002	12:53:05	0.001389	-0.748	68.489
10/9/2002	12:53:10	0.002778	-0.732	68.411
10/9/2002	12:53:15	0.004167	-0.735	67.838
10/9/2002	12:53:20	0.005556	-0.726	67.129
10/9/2002	12:53:25	0.006944	-0.705	66.93
10/9/2002	12:53:30	0.008333	-0.704	67.132
10/9/2002	12:53:35	0.009722	-0.713	67.23
10/9/2002	12:53:40	0.011111	-0.723	67.336
10/9/2002	12:53:45	0.0125	-0.717	67.051
10/9/2002	12:53:50	0.013889	-0.716	66.902
10/9/2002	12:53:55	0.015278	-0.704	66.813
10/9/2002	12:54:00	0.016667	-0.711	66.711
10/9/2002	12:54:05	0.018056	-0.741	66.836
10/9/2002	12:54:10	0.019444	-0.693	66.589
10/9/2002	12:54:15	0.020833	-0.73	66.362
10/9/2002	12:54:20	0.022222	-0.71	66.339
10/9/2002	12:54:25	0.023611	-0.725	66.412
10/9/2002	12:54:30	0.025	-0.722	66.52
10/9/2002	12:54:35	0.026389	-0.722	66.66
10/9/2002	12:54:40	0.027778	-0.726	66.871
10/9/2002	12:54:45	0.029167	-0.726	67.061
10/9/2002	12:54:50	0.030556	-0.743	67.088
10/9/2002	12:54:55	0.031944	-0.725	67.176
10/9/2002	12:55:00	0.033333	-0.725	67.047
10/9/2002	12:55:05	0.034722	-0.71	66.929
10/9/2002	12:55:10	0.036111	-0.739	66.89
10/9/2002	12:55:15	0.0375	-0.764	66.998
10/9/2002	12:55:20	0.038889	-0.772	66.992
10/9/2002	12:55:25	0.040278	-0.761	67.085
10/9/2002	12:55:30	0.041667	-0.771	67.024
10/9/2002	12:55:35	0.043056	-0.827	67.108
10/9/2002	12:55:40	0.044444	-0.874	67.212
10/9/2002	12:55:45	0.045833	-0.766	67.526
10/9/2002	12:55:50	0.047222	-0.828	67.46
10/9/2002	12:55:55	0.048611	-0.866	67.493
10/9/2002	12:56:00	0.05	-0.895	67.559
10/9/2002	12:56:05	0.051389	-0.862	67.487
10/9/2002	12:56:10	0.052778	-0.868	67.458
10/9/2002	12:56:15	0.054167	-0.86	67.379
10/9/2002	12:56:20	0.055556	-0.856	67.294
10/9/2002	12:56:25	0.056944	-0.866	67.201
10/9/2002	12:56:30	0.058333	-0.864	67.049
10/9/2002	12:56:35	0.059722	-0.866	66.978
10/9/2002	12:56:40	0.061111	-0.852	67.087

10/9/2002	12:56:45	0.0625	-0.852	67.22
10/9/2002	12:56:50	0.063889	-0.847	67.328
10/9/2002	12:56:55	0.065278	-0.826	67.539
10/9/2002	12:57:00	0.066667	-0.843	67.576
10/9/2002	12:57:05	0.068056	-0.842	67.718
10/9/2002	12:57:10	0.069444	-0.83	67.711
10/9/2002	12:57:15	0.070833	-0.859	67.508
10/9/2002	12:57:20	0.072222	-0.872	67.4
10/9/2002	12:57:25	0.073611	-0.857	67.459
10/9/2002	12:57:30	0.075	-0.852	67.529
10/9/2002	12:57:35	0.076389	-0.851	67.461
10/9/2002	12:57:40	0.077778	-0.863	67.574
10/9/2002	12:57:45	0.079167	-0.846	67.77
10/9/2002	12:57:50	0.080556	-0.847	67.862
10/9/2002	12:57:55	0.081944	-0.844	67.92
10/9/2002	12:58:00	0.083333	-0.883	68.055
10/9/2002	12:58:05	0.084722	-0.879	68.126
10/9/2002	12:58:10	0.086111	-0.862	67.976
10/9/2002	12:58:15	0.0875	-0.867	68.248
10/9/2002	12:58:20	0.088889	-0.866	68.25
10/9/2002	12:58:25	0.090278	-0.874	67.564
10/9/2002	12:58:30	0.091667	-0.84	67.346
10/9/2002	12:58:35	0.093056	-0.885	66.944
10/9/2002	12:58:40	0.094444	-0.863	66.796
10/9/2002	12:58:45	0.095833	-0.857	66.818
10/9/2002	12:58:50	0.097222	-0.846	67.121
10/9/2002	12:58:55	0.098611	-0.836	67.797
10/9/2002	12:59:00	0.1	-0.831	68.188
10/9/2002	12:59:05	0.101389	-0.819	68.449
10/9/2002	12:59:10	0.102778	-0.851	68.515
10/9/2002	12:59:15	0.104167	-0.833	68.583
10/9/2002	12:59:20	0.105556	-0.839	68.749
10/9/2002	12:59:25	0.106944	-0.829	68.966
10/9/2002	12:59:30	0.108333	-0.824	69.248
10/9/2002	12:59:35	0.109722	-0.82	69.571
10/9/2002	12:59:40	0.111111	-0.823	69.579
10/9/2002	12:59:45	0.1125	-0.821	69.383
10/9/2002	12:59:50	0.113889	-0.842	69.1
10/9/2002	12:59:55	0.115278	-0.82	68.918
10/9/2002	13:00:00	0.116667	-0.838	68.922
10/9/2002	13:00:05	0.118056	-0.821	69.103
10/9/2002	13:00:10	0.119444	-0.827	69.319
10/9/2002	13:00:15	0.120833	-0.813	69.302
10/9/2002	13:00:20	0.122222	-0.816	69.498
10/9/2002	13:00:25	0.123611	-0.827	69.696
10/9/2002	13:00:30	0.125	-0.814	69.681
10/9/2002	13:00:35	0.126389	-0.818	69.807
10/9/2002	13:00:40	0.127778	-0.817	69.831
10/9/2002	13:00:45	0.129167	-0.818	69.875
10/9/2002	13:00:50	0.130556	-0.828	69.847
10/9/2002	13:00:55	0.131944	-0.82	69.838



31-17 Temperature Log, Oct. 9, 2002



GMF31-17.DAT
~~GMF31-17.DAT~~

07/22/1992G31171

DEPTH LOG OF GMF 33-17 WITHUNOCAL SLICKLINE TRUCK AND
TOOL 0 REF SWAB VALVE

DEPTH DEPTH TEMP WELL TEMP INT TEMP
FEET TIME HRS TIME HRS DEG F DEG C

0	0.005	0.002	58.9	55.98
0	0.006	0.003	58.83	56.01
0	0.007	0.004	58.77	56.04
0	0.008	0.005	58.7	56.08
0	0.009	0.006	58.63	56.11
0	0.01	0.007	58.59	56.14
0	0.011	0.008	58.55	56.18
0	0.012	0.009	58.53	56.21
0	0.013	0.01	58.49	56.24
0	0.014	0.011	58.45	56.28
0	0.015	0.012	58.44	56.31
0	0.016	0.013	58.46	56.35
0	0.017	0.014	58.47	56.38
0	0.018	0.015	58.51	56.41
0	0.019	0.016	58.55	56.45
0	0.02	0.017	58.57	56.48
0	0.021	0.018	58.58	56.51
0	0.022	0.019	58.58	56.55
0	0.023	0.02	58.6	56.58
0	0.024	0.021	58.61	56.61
0	0.025	0.022	58.61	56.65
0	0.026	0.023	58.61	56.68
0	0.027	0.024	58.61	56.72
0	0.028	0.025	58.62	56.75
0	0.029	0.026	58.64	56.78
0	0.03	0.027	58.67	56.82
0	0.031	0.028	58.68	56.85
0	0.032	0.029	58.69	56.88
0	0.033	0.03	58.69	56.92
0	0.034	0.031	58.7	56.95
0	0.035	0.032	58.72	56.98
0	0.036	0.033	58.76	57.02
0	0.037	0.034	58.78	57.05
0	0.038	0.035	58.79	57.08

INC. 7-187M6
INC. 10-107M6

GM31-17.DAT

PT TOOL DATA FILE SERIAL # V2_2

Log Date: 10-21-98

CT Tool Started at --- 11:26:20

EncoderStart Point--- 11:36:31, 0, 37,2220.0

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Depth Ft,Rate, Enc. Sec, TT(SEC),PRESSPSIA,EXTEMPDEGC,INTERNAL
TEMP,PTEMPC,BAT VOLTS

37.00	0.00	1.00	612	12.74	17.700	0.
37.00	0.00	3.00	614	12.74	17.700	0.
37.00	0.00	5.00	616	12.74	17.701	0.
37.00	0.00	7.00	618	12.74	17.700	0.
37.00	0.00	9.00	620	12.74	17.702	0.
37.10	6.00	11.00	622	12.74	17.702	0.
37.85	39.00	13.00	624	12.74	17.706	0.
39.20	42.00	15.00	626	12.74	17.709	0.
40.65	45.00	17.00	628	12.74	17.710	0.
42.25	51.00	19.00	630	12.74	17.713	0., 23.2, 17.2, 14.3
44.20	66.00	21.00	632	12.74	17.717	0.
46.60	78.00	23.00	634	12.74	17.720	0.
49.15	75.00	25.00	636	12.73	17.724	0.
51.60	72.00	27.00	638	12.74	17.729	0.
53.90	66.00	29.00	640	12.74	17.735	0.
56.10	66.00	31.00	642	12.74	17.742	0.
58.30	66.00	33.00	644	12.74	17.750	0.
60.60	72.00	35.00	646	12.74	17.760	0.
63.15	81.00	37.00	648	12.74	17.761	0.
65.90	84.00	39.00	650	12.74	17.757	0.
68.75	87.00	41.00	652	12.74	17.750	0.
71.70	90.00	43.00	654	12.74	17.739	0.
74.80	96.00	45.00	656	12.74	17.721	0.
78.05	99.00	47.00	658	12.74	17.690	0.
81.30	96.00	49.00	660	12.74	17.651	0., 23.2, 17.2, 14.3
84.65	105.00	51.00	662	12.74	17.612	0.
88.35	117.00	53.00	664	12.74	17.574	0.
92.40	126.00	55.00	666	12.74	17.535	0.
96.65	129.00	57.00	668	12.74	17.501	0.
100.90	126.00	59.00	670	12.74	17.465	0.
105.15	129.00	61.00	672	12.74	17.435	0.
109.55	135.00	63.00	674	12.74	17.408	0.
114.05	135.00	65.00	676	12.74	17.382	0.
118.60	138.00	67.00	678	12.74	17.356	0.
123.10	132.00	69.00	680	12.74	17.324	0.
127.60	138.00	71.00	682	12.74	17.287	0.
132.20	138.00	73.00	684	12.74	17.252	0.
136.90	144.00	75.00	686	12.74	17.212	0.

THE NAME

of the ...

GMF3117A.DAT

PT TOOL DATA FILE SERIAL # V2_2

Log Date: 10-21-98

CT Tool Started at --- 10:11:02

EncoderStart Point--- 10:16:33, 0, 30.9,1854.0

pg 1 of many

Depth Ft,Rate, Enc. Sec, TT(SEC),PRESSPSIA,EXTEMPDEGC,INTERNAL
TEMP,PTEMPC,BAT VOLTS

30.90	0.00	1.00	332	12.80	18.465	0.
30.90	0.00	3.00	334	12.80	18.445	0.
30.90	0.00	5.00	336	12.79	18.414	0.
30.90	0.00	7.00	338	12.80	18.380	0.
30.90	0.00	9.00	340	12.80	18.341	0.
30.90	0.00	11.00	342	12.80	18.287	0.
30.90	0.00	13.00	344	12.80	18.246	0.
30.90	0.00	15.00	346	12.80	18.212	0.
30.90	0.00	17.00	348	12.80	18.178	0.
30.90	0.00	19.00	350	12.80	18.145	0.
30.90	0.00	21.00	352	12.80	18.095	0.
30.90	0.00	23.00	354	12.81	18.024	0.
30.90	0.00	25.00	356	12.80	17.944	0.
30.90	0.00	27.00	358	12.80	17.866	0.
30.90	0.00	29.00	360	12.80	17.804	0., 9.8, 13.5, 11.3
30.90	0.00	31.00	362	12.81	17.751	0.
30.90	0.00	33.00	364	12.80	17.700	0.
30.90	0.00	35.00	366	12.81	17.660	0.
30.90	0.00	37.00	368	12.82	17.619	0.
30.90	0.00	39.00	370	12.80	17.576	0.
30.90	0.00	41.00	372	12.80	17.508	0.
30.90	0.00	43.00	374	12.81	17.433	0.
30.90	0.00	45.00	376	12.82	17.375	0.
30.90	0.00	47.00	378	12.83	17.320	0.
30.90	0.00	49.00	380	12.81	17.285	0.
30.90	0.00	51.00	382	12.80	17.259	0.
30.90	0.00	53.00	384	12.76	17.183	0.
30.90	0.00	55.00	386	12.71	17.104	0.
30.90	0.00	57.00	388	12.67	17.045	0.
30.90	0.00	59.00	390	12.64	16.990	0., 9.9, 13.5, 11.3
30.90	0.00	61.00	392	12.62	16.943	0.
30.90	0.00	63.00	394	12.60	16.902	0.
30.90	0.00	65.00	396	12.58	16.871	0.
30.90	0.00	67.00	398	12.57	16.832	0.
30.90	0.00	69.00	400	12.57	16.782	0.
30.90	0.00	71.00	402	12.56	16.740	0.
30.90	0.00	73.00	404	12.56	16.695	0.
30.90	0.00	75.00	406	12.55	16.654	0.

1947. APRIL 1947

1947. APRIL 1947