

DEVIATION SURVEYS

Operator: Charles B. Read

Lease and Well No: Gulf State No. 1

Location: Sec. 12, T. 17S., R. 36E., Lea County, New Mexico

<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>
800	1/2	4855	2
1300	1/4	5094	1-3/4
1850	3/4	5785	2
2168	1/2	6318	2-3/4
2614	1/2	6990	3
3140	1 1/4	7599	3 1/2
3665	1 1/2	8090	3
3938	1 3/4	8365	3 1/4
4520	1 1/2	8903	3 1/2

I do hereby certify that the above information was furnished by Cactus Drilling Company and is true and complete to the best of my knowledge.

Charles B. Read
Charles B. Read

Subscribed and sworn to before me this 21st day of September 1964.

James Allen Wilson
Notary Public in and for
Chaves County, New Mexico

My Commission Expires:

June 20, 1967

DEVIATION SURVEYS

Operator: Charles E. Read

Lines and well logs: Gulf State No. 1

Location: Sec. 15, T. 17N., R. 36E., Ross County, New Mexico

<u>Depth</u>	<u>Feet</u>	<u>Degrees</u>	<u>Feet</u>
800	1.2	87.5	1.2
1300	1.4	87.5	1.4
1800	1.6	87.5	1.6
2300	1.8	87.5	1.8
2800	2.0	87.5	2.0
3300	2.2	87.5	2.2
3800	2.4	87.5	2.4
4300	2.6	87.5	2.6
4800	2.8	87.5	2.8
5300	3.0	87.5	3.0
5800	3.2	87.5	3.2
6300	3.4	87.5	3.4
6800	3.6	87.5	3.6
7300	3.8	87.5	3.8
7800	4.0	87.5	4.0
8300	4.2	87.5	4.2
8800	4.4	87.5	4.4
9300	4.6	87.5	4.6
9800	4.8	87.5	4.8
10300	5.0	87.5	5.0
10800	5.2	87.5	5.2
11300	5.4	87.5	5.4
11800	5.6	87.5	5.6
12300	5.8	87.5	5.8
12800	6.0	87.5	6.0
13300	6.2	87.5	6.2
13800	6.4	87.5	6.4
14300	6.6	87.5	6.6
14800	6.8	87.5	6.8
15300	7.0	87.5	7.0
15800	7.2	87.5	7.2
16300	7.4	87.5	7.4
16800	7.6	87.5	7.6
17300	7.8	87.5	7.8
17800	8.0	87.5	8.0
18300	8.2	87.5	8.2
18800	8.4	87.5	8.4
19300	8.6	87.5	8.6
19800	8.8	87.5	8.8
20300	9.0	87.5	9.0
20800	9.2	87.5	9.2
21300	9.4	87.5	9.4
21800	9.6	87.5	9.6
22300	9.8	87.5	9.8
22800	10.0	87.5	10.0
23300	10.2	87.5	10.2
23800	10.4	87.5	10.4
24300	10.6	87.5	10.6
24800	10.8	87.5	10.8
25300	11.0	87.5	11.0
25800	11.2	87.5	11.2
26300	11.4	87.5	11.4
26800	11.6	87.5	11.6
27300	11.8	87.5	11.8
27800	12.0	87.5	12.0
28300	12.2	87.5	12.2
28800	12.4	87.5	12.4
29300	12.6	87.5	12.6
29800	12.8	87.5	12.8
30300	13.0	87.5	13.0
30800	13.2	87.5	13.2
31300	13.4	87.5	13.4
31800	13.6	87.5	13.6
32300	13.8	87.5	13.8
32800	14.0	87.5	14.0
33300	14.2	87.5	14.2
33800	14.4	87.5	14.4
34300	14.6	87.5	14.6
34800	14.8	87.5	14.8
35300	15.0	87.5	15.0
35800	15.2	87.5	15.2
36300	15.4	87.5	15.4
36800	15.6	87.5	15.6
37300	15.8	87.5	15.8
37800	16.0	87.5	16.0
38300	16.2	87.5	16.2
38800	16.4	87.5	16.4
39300	16.6	87.5	16.6
39800	16.8	87.5	16.8
40300	17.0	87.5	17.0
40800	17.2	87.5	17.2
41300	17.4	87.5	17.4
41800	17.6	87.5	17.6
42300	17.8	87.5	17.8
42800	18.0	87.5	18.0
43300	18.2	87.5	18.2
43800	18.4	87.5	18.4
44300	18.6	87.5	18.6
44800	18.8	87.5	18.8
45300	19.0	87.5	19.0
45800	19.2	87.5	19.2
46300	19.4	87.5	19.4
46800	19.6	87.5	19.6
47300	19.8	87.5	19.8
47800	20.0	87.5	20.0
48300	20.2	87.5	20.2
48800	20.4	87.5	20.4
49300	20.6	87.5	20.6
49800	20.8	87.5	20.8
50300	21.0	87.5	21.0
50800	21.2	87.5	21.2
51300	21.4	87.5	21.4
51800	21.6	87.5	21.6
52300	21.8	87.5	21.8
52800	22.0	87.5	22.0
53300	22.2	87.5	22.2
53800	22.4	87.5	22.4
54300	22.6	87.5	22.6
54800	22.8	87.5	22.8
55300	23.0	87.5	23.0
55800	23.2	87.5	23.2
56300	23.4	87.5	23.4
56800	23.6	87.5	23.6
57300	23.8	87.5	23.8
57800	24.0	87.5	24.0
58300	24.2	87.5	24.2
58800	24.4	87.5	24.4
59300	24.6	87.5	24.6
59800	24.8	87.5	24.8
60300	25.0	87.5	25.0
60800	25.2	87.5	25.2
61300	25.4	87.5	25.4
61800	25.6	87.5	25.6
62300	25.8	87.5	25.8
62800	26.0	87.5	26.0
63300	26.2	87.5	26.2
63800	26.4	87.5	26.4
64300	26.6	87.5	26.6
64800	26.8	87.5	26.8
65300	27.0	87.5	27.0
65800	27.2	87.5	27.2
66300	27.4	87.5	27.4
66800	27.6	87.5	27.6
67300	27.8	87.5	27.8
67800	28.0	87.5	28.0
68300	28.2	87.5	28.2
68800	28.4	87.5	28.4
69300	28.6	87.5	28.6
69800	28.8	87.5	28.8
70300	29.0	87.5	29.0
70800	29.2	87.5	29.2
71300	29.4	87.5	29.4
71800	29.6	87.5	29.6
72300	29.8	87.5	29.8
72800	30.0	87.5	30.0
73300	30.2	87.5	30.2
73800	30.4	87.5	30.4
74300	30.6	87.5	30.6
74800	30.8	87.5	30.8
75300	31.0	87.5	31.0
75800	31.2	87.5	31.2
76300	31.4	87.5	31.4
76800	31.6	87.5	31.6
77300	31.8	87.5	31.8
77800	32.0	87.5	32.0
78300	32.2	87.5	32.2
78800	32.4	87.5	32.4
79300	32.6	87.5	32.6
79800	32.8	87.5	32.8
80300	33.0	87.5	33.0
80800	33.2	87.5	33.2
81300	33.4	87.5	33.4
81800	33.6	87.5	33.6
82300	33.8	87.5	33.8
82800	34.0	87.5	34.0
83300	34.2	87.5	34.2
83800	34.4	87.5	34.4
84300	34.6	87.5	34.6
84800	34.8	87.5	34.8
85300	35.0	87.5	35.0
85800	35.2	87.5	35.2
86300	35.4	87.5	35.4
86800	35.6	87.5	35.6
87300	35.8	87.5	35.8
87800	36.0	87.5	36.0
88300	36.2	87.5	36.2
88800	36.4	87.5	36.4
89300	36.6	87.5	36.6
89800	36.8	87.5	36.8
90300	37.0	87.5	37.0
90800	37.2	87.5	37.2
91300	37.4	87.5	37.4
91800	37.6	87.5	37.6
92300	37.8	87.5	37.8
92800	38.0	87.5	38.0
93300	38.2	87.5	38.2
93800	38.4	87.5	38.4
94300	38.6	87.5	38.6
94800	38.8	87.5	38.8
95300	39.0	87.5	39.0
95800	39.2	87.5	39.2
96300	39.4	87.5	39.4
96800	39.6	87.5	39.6
97300	39.8	87.5	39.8
97800	40.0	87.5	40.0
98300	40.2	87.5	40.2
98800	40.4	87.5	40.4
99300	40.6	87.5	40.6
99800	40.8	87.5	40.8
100300	41.0	87.5	41.0
100800	41.2	87.5	41.2
101300	41.4	87.5	41.4
101800	41.6	87.5	41.6
102300	41.8	87.5	41.8
102800	42.0	87.5	42.0
103300	42.2	87.5	42.2
103800	42.4	87.5	42.4
104300	42.6	87.5	42.6
104800	42.8	87.5	42.8
105300	43.0	87.5	43.0
105800	43.2	87.5	43.2
106300	43.4	87.5	43.4
106800	43.6	87.5	43.6
107300	43.8	87.5	43.8
107800	44.0	87.5	44.0
108300	44.2	87.5	44.2
108800	44.4	87.5	44.4
109300	44.6	87.5	44.6
109800	44.8	87.5	44.8
110300	45.0	87.5	45.0
110800	45.2	87.5	45.2
111300	45.4	87.5	45.4
111800	45.6	87.5	45.6
112300	45.8	87.5	45.8
112800	46.0	87.5	46.0
113300	46.2	87.5	46.2
113800	46.4	87.5	46.4
114300	46.6	87.5	46.6
114800	46.8	87.5	46.8
115300	47.0	87.5	47.0
115800	47.2	87.5	47.2
116300	47.4	87.5	47.4
116800	47.6	87.5	47.6
117300	47.8	87.5	47.8
117800	48.0	87.5	48.0
118300	48.2	87.5	48.2
118800	48.4	87.5	48.4
119300	48.6	87.5	48.6
119800	48.8	87.5	48.8
120300	49.0	87.5	49.0
120800	49.2	87.5	49.2
121300	49.4	87.5	49.4
121800	49.6	87.5	49.6
122300	49.8	87.5	49.8
122800	50.0	87.5	50.0
123300	50.2	87.5	50.2
123800	50.4	87.5	50.4
124300	50.6	87.5	50.6
124800	50.8	87.5	50.8
125300	51.0	87.5	51.0
125800	51.2	87.5	51.2
126300	51.4	87.5	51.4
126800	51.6	87.5	51.6
127300	51.8	87.5	51.8
127800	52.0	87.5	52.0
128300	52.2	87.5	52.2
128800	52.4	87.5	52.4
129300	52.6	87.5	52.6
129800	52.8	87.5	52.8
130300	53.0	87.5	53.0
130800	53.2	87.5	53.2
131300	53.4	87.5	53.4
131800	53.6	87.5	53.6
132300	53.8	87.5	53.8
132800	54.0	87.5	54.0
133300	54.2	87.5	54.2
133800	54.4	87.5	54.4
134300	54.6	87.5	54.6
134800	54.8	87.5	54.8
135300	55.0	87.5	55.0
135800	55.2	87.5	55.2
136300	55.4	87.5	55.4
136800	55.6	87.5	55.6
137300	55.8	87.5	55.8
137800	56.0	87.5	56.0
138300	56.2	87.5	56.2
138800	56.4	87.5	56.4
139300	56.6	87.5	56.6
139800	56.8	87.5	56.8
140300	57.0	87.5	57.0
140800	57.2	87.5	57.2
141300	57.4	87.5	57