

WELL NAME AND NUMBER Antelope Ridge No. 10
LOCATION Section 3 T-24-S, R-34-E, Lea County, New Mexico
(Give Unit, Section, Township and Range)
OPERATOR Shell Western E & P Inc.
DRILLING CONTRACTOR Sharp Drilling Co., Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
<u>1° 229'</u>	<u>1 1/2° 4616'</u>	<u>2° 9501'</u>
<u>1/2 530</u>	<u>1 4910</u>	<u>2 1/4 9674</u>
<u>1/4 827</u>	<u>1/2 5085</u>	<u>2 9951</u>
<u>3/4 1155</u>	<u>1 5285</u>	<u>2 1/2 10398</u>
<u>1/2 1466</u>	<u>3/4 5666</u>	<u>2 1/2 10650</u>
<u>1/2 1797</u>	<u>1/2 5993</u>	<u>2 1/4 11107</u>
<u>1/2 2047</u>	<u>1/2 6449</u>	<u>2 3/4 11578</u>
<u>1/4 2360</u>	<u>1- 6812</u>	<u>4 1/4 12069</u>
<u>3/4 2685</u>	<u>3/4 7260</u>	<u>4 3/4 12405</u>
<u>3/4 2961</u>	<u>1/4 7699</u>	<u>3 1/2 12875</u>
<u>3/4 3230</u>	<u>1 1/4 7920</u>	<u>2 3/4 13383</u>
<u>1 3588</u>	<u>1 3/4 8120</u>	<u>5 13630</u>
<u>1 3832</u>	<u>1 1/2 8418</u>	<u>3 13660</u>
<u>1 4056</u>	<u>1/2 8797</u>	
<u>1/4 4306</u>	<u>1 1/4 9170</u>	

Drilling Contractor Sharp Drilling Co., Inc.

By: Robert K. Staiff

Witnessed and sworn to before me this 9th day of July, 1985

Pat Buchanan
Notary Public

Drilling Date: 6-30-88

Midland County Texas

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DEVIATION SUMMARY
FIELD
WELL

SURVEY #	DEPTH	FOOTAGE DRILLED	HOLE ANGLE	AVERAGE INTERVAL ANGLE	INTERVAL DEVIATION	CUMULATIVE DEVIATION
=====	=====	=====	=====	=====	=====	=====
1	229	229	1.00	0.500	2.0	2.0
2	530	301	0.50	0.750	3.9	5.9
3	827	297	0.25	0.375	1.9	7.9
4	1,155	328	0.75	0.500	2.9	10.7
5	1,466	311	0.50	0.625	3.4	14.1
6	1,797	331	0.50	0.500	2.9	17.0
7	2,047	250	0.50	0.500	2.2	19.2
8	2,360	313	0.25	0.375	2.0	21.3
9	2,685	325	0.75	0.500	2.8	24.1
10	2,961	276	0.75	0.750	3.6	27.7
11	3,230	269	0.75	0.750	3.5	31.2
12	3,588	358	1.00	0.875	5.5	36.7
13	3,832	244	1.00	1.000	4.3	41.0
14	4,056	224	1.00	1.000	3.9	44.9
15	4,306	250	0.25	0.625	2.7	47.6
16	4,616	310	1.50	0.875	4.7	52.3
17	4,910	294	1.00	1.250	6.4	58.7
18	5,085	175	0.50	0.750	2.3	61.0
19	5,285	200	1.00	0.750	2.6	63.6
20	5,666	381	0.75	0.875	5.8	69.5
21	5,993	327	0.50	0.625	3.6	73.0
22	6,449	456	0.50	0.500	4.0	77.0
23	6,812	363	1.00	0.750	4.8	81.8
24	7,260	448	0.75	0.875	6.8	88.6
25	7,699	439	0.25	0.500	3.8	92.4
26	7,920	221	1.25	0.750	2.9	95.3
27	8,120	200	1.75	1.500	5.2	100.6
28	8,418	298	1.50	1.625	8.5	109.0
29	8,797	379	0.50	1.000	6.6	115.6
30	9,170	373	1.25	0.875	5.7	121.3
31	9,501	331	2.00	1.625	9.4	130.7
32	9,674	173	2.25	2.125	6.4	137.1
33	9,951	277	2.00	2.125	10.3	147.4
34	10,398	447	2.50	2.250	17.6	165.0
35	10,650	252	2.50	2.500	11.0	176.0
36	11,107	457	2.25	2.375	19.0	194.9
37	11,578	471	2.75	2.500	20.6	215.5
38	12,069	491	4.25	3.500	30.0	245.5
39	12,405	336	4.75	4.500	26.4	272.0
40	12,875	470	3.50	4.125	33.9	305.9
41	13,383	508	2.75	3.125	27.7	333.6
42	13,630	247	5.00	3.875	16.7	350.3
43	13,660	30	3.00	4.000	2.1	352.4