

OXY USA INC.
Oxy Amber Federal No.1, slot #1
, Eddy County New Mexico

SURVEY LISTING Page 4
Your ref : Gyro/MWD
Last revised : 14-Apr-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7500.00	1.05	267.65	7499.75	4.96 N	0.10	30.53
7600.00	1.35	257.00	7599.73	4.65 N	0.37	32.43
7700.00	1.20	254.85	7699.70	4.11 N	0.16	34.35
7800.00	1.21	259.07	7799.68	3.64 N	0.09	36.19
7900.00	1.08	263.87	7899.66	3.34 N	0.17	37.99
330.00	1.62	251.89	7929.65	3.18 N	2.05	38.60 Tie On
7959.00	1.62	250.10	7958.64	2.91 N	0.18	39.27
7992.00	2.20	250.50	7991.62	2.54 N	1.76	40.16
8055.00	4.50	250.40	8054.51	1.31 N	3.65	43.15
8117.00	7.20	254.60	8116.18	0.54 S	4.41	48.42
8148.00	8.70	256.90	8146.88	1.59 S	4.95	52.11
8180.00	10.30	259.00	8178.44	2.68 S	5.12	56.76
8210.00	11.70	261.40	8207.89	3.65 S	4.91	61.90
8240.00	12.90	263.80	8237.20	4.47 S	4.35	67.76
8271.00	14.30	266.90	8267.33	5.05 S	5.09	74.56
8302.00	15.80	269.50	8297.27	5.29 S	5.31	82.21
8334.00	16.70	272.00	8327.99	5.17 S	3.56	90.84
8365.00	17.20	273.50	8357.65	4.73 S	2.14	99.62
8397.00	17.90	277.30	8388.16	3.82 S	4.19	109.09
8429.00	18.50	279.60	8418.56	2.35 S	2.92	118.99
8498.00	18.50	284.90	8454.59	0.21 N	4.42	131.00
8529.00	18.10	289.50	8484.03	3.08 N	4.83	140.73
8560.00	18.40	292.10	8513.47	6.53 N	2.80	150.41
8591.00	18.50	292.80	8542.88	10.27 N	0.78	160.16
	17.50	292.80	8572.36	13.99 N	3.23	169.68

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TWD from rotary table.
Bottom hole distance is 242.09 on azimuth 279.99 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 286.34 degrees.
Calculation uses the minimum curvature method.

Presented by Baker Hughes INTEQ

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Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
8622.00	17.60	292.40	8601.92	17.58 N	0.51	178.97
8653.00	17.80	292.00	8631.45	21.14 N	0.76	188.35
8684.00	18.00	292.60	8660.95	24.76 N	0.88	197.82
8714.00	17.80	293.30	8689.50	28.35 N	0.98	206.98
745.00	18.20	293.20	8718.98	32.13 N	1.29	216.49
8776.00	17.30	294.10	8748.50	35.92 N	3.04	225.87
8826.00	17.30	294.10	8796.24	41.99 N	0.00	240.60 Projected

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 242.09 on azimuth 279.99 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 286.34 degrees.
Calculation uses the minimum curvature method.
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