

A Gyrodata Directional Survey

for

MEWBOURNE OIL CO.

**Lease: LIMOUSINE 15 CD FED COM Well: #1H, 4-1/2" XH DRILLPIPE
Location: PATTERSON DRILLING RIG #63, EDDY COUNTY, NEW MEXICO**

Job Number: MD0510GBM234

Run Date: 6/1/2010 3:53:30 AM

Surveyor: Steve Winther

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 32.577683 deg. N Longitude: 104.470217 deg. W

Azimuth Correction:

Gyro: 0.07000 deg to Grid North

Rotary Table Elevation: 15.00

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



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MEASURED IN C LAZIMUTH	DOGLEG	VERTICAL	CLOSURE	HORIZONTAL
DEPTH	SEVERITY	DEPTH	DIST. AZIMUTH	COORDINATES
feet	deg.	deg.	feet deg.	feet
		deg./		
		100 ft.		

0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N	0.00 E
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0 TO 2065 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" XH DRILLPIPE

ALL MEASURED DEPTHS AND COORDINATES ARE REFERENCED TO PATTERSON DRILLING RIG #63 AND R.K.B. HEIGHT OF 15 FT.

100.00	0.47	330.80	0.47	100.00	0.4	330.8	0.36 N	0.20 W
200.00	0.60	327.36	0.14	199.99	1.3	329.5	1.16 N	0.68 W
300.00	0.43	15.42	0.45	299.99	2.1	336.2	1.96 N	0.86 W
400.00	0.37	23.54	0.08	399.99	2.7	346.5	2.63 N	0.63 W
500.00	0.27	21.38	0.11	499.99	3.2	352.4	3.15 N	0.42 W
600.00	0.40	42.92	0.18	599.99	3.6	358.5	3.62 N	0.09 W
700.00	0.46	37.55	0.07	699.98	4.2	5.3	4.19 N	0.39 E
800.00	0.83	112.78	0.84	799.98	4.4	17.1	4.23 N	1.30 E
900.00	0.93	106.88	0.14	899.97	4.6	36.5	3.72 N	2.75 E
1000.00	0.83	108.10	0.10	999.95	5.3	52.3	3.26 N	4.21 E
1100.00	0.80	88.72	0.28	1099.94	6.4	61.4	3.05 N	5.59 E
1200.00	0.84	85.25	0.07	1199.93	7.7	66.0	3.12 N	7.02 E
1300.00	0.76	95.18	0.16	1299.92	9.0	69.6	3.13 N	8.41 E
1400.00	0.76	104.25	0.12	1399.92	10.1	73.4	2.90 N	9.71 E
1500.00	0.81	90.44	0.20	1499.91	11.4	76.1	2.73 N	11.06 E
1600.00	0.67	102.86	0.21	1599.90	12.6	78.1	2.60 N	12.34 E
1700.00	0.44	114.35	0.25	1699.89	13.5	80.1	2.31 N	13.26 E

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DEPTH		SEVERITY	DEPTH	DIST. AZIMUTH	COORDINATES	
feet	deg.	deg.	feet	feet deg.	feet	
		deg./				
		100 ft.				
1800.00	0.55	117.89	0.11	1799.89	14.2 82.2	1.93 N 14.03 E
1900.00	0.49	122.09	0.07	1899.88	14.9 84.3	1.48 N 14.81 E
2000.00	0.62	107.74	0.19	1999.88	15.7 86.0	1.09 N 15.69 E
2065.00	0.36	89.59	0.47	2064.88	16.3 86.5	0.98 N 16.23 E

Final Station Closure: Distance: 16.26 ft Az: 86.54 deg.

