

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

MEWBOURNE OIL CO.

Location: PATTERSON #47, EDDY COUNTY, NEW MEXICO

Lease: COLT 5 FED Well: #2H, 4-1/2" DRILLPIPE

Job Number: MD0809GCM177

Run Date: 8/24/2009 5:49:02 PM

Surveyor: AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Directional Drilling Company

Survey Latitude: 32.609270 deg. N Longitude: 104.094500 deg. W

Azimuth Correction:

Gyro: -0.13000 deg to Grid North

Proposed Well Direction: 179.900 deg

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 DEPTH feet	I N C L deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 TO 4742 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #47 R.K.B. (+29 FT)							
200.00	0.59	196.85	1.0	0.30	200.00	1.0 196.9	0.99 S 0.30 W
300.00	1.41	198.81	2.6	0.82	299.98	2.8 197.7	2.65 S 0.85 W
400.00	1.85	192.78	5.4	0.47	399.94	5.6 196.5	5.39 S 1.60 W
500.00	1.87	187.13	8.6	0.18	499.89	8.9 194.1	8.59 S 2.16 W
600.00	1.67	158.46	11.6	0.90	599.84	11.7 189.0	11.56 S 1.83 W
700.00	2.03	109.00	13.5	1.58	699.79	13.5 178.4	13.50 S 0.38 E
800.00	3.33	91.36	14.2	1.53	799.68	15.0 160.7	14.14 S 4.96 E
900.00	3.68	82.79	13.8	0.63	899.50	17.7 141.3	13.81 S 11.06 E
1000.00	3.07	79.39	12.9	0.65	999.32	21.2 127.4	12.91 S 16.87 E
1100.00	2.64	75.12	11.9	0.48	1099.20	24.7 118.6	11.83 S 21.73 E
1200.00	2.20	66.16	10.5	0.58	1199.11	27.8 112.1	10.46 S 25.71 E
1300.00	1.83	59.73	8.9	0.43	1299.05	30.2 107.1	8.88 S 28.85 E
1400.00	1.99	56.73	7.2	0.19	1398.99	32.5 102.7	7.12 S 31.69 E
1500.00	1.62	64.97	5.6	0.45	1498.94	34.9 99.2	5.56 S 34.43 E
1600.00	1.60	67.54	4.5	0.08	1598.90	37.3 96.8	4.43 S 37.00 E
1700.00	1.78	72.60	3.5	0.24	1698.86	39.9 94.9	3.43 S 39.77 E
1800.00	2.05	79.60	2.7	0.36	1798.80	43.1 93.5	2.64 S 43.02 E

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1900.00	1.88	76.80	2.0	0.20	1898.75	46.4 92.4	1.95 S 46.37 E
2000.00	1.93	72.30	1.1	0.16	1998.69	49.6 91.2	1.06 S 49.57 E
2100.00	1.91	62.41	-0.1	0.33	2098.63	52.7 89.8	0.22 N 52.65 E
2200.00	1.61	79.01	-1.2	0.59	2198.59	55.5 88.7	1.26 N 55.51 E
2300.00	1.93	110.98	-0.8	1.02	2298.54	58.5 89.1	0.93 N 58.45 E
2400.00	1.92	113.99	0.5	0.10	2398.49	61.6 90.3	0.36 S 61.56 E
2500.00	1.29	110.01	1.5	0.64	2498.45	64.2 91.3	1.42 S 64.15 E
2600.00	0.45	80.70	1.9	0.92	2598.43	65.6 91.5	1.75 S 65.59 E
2700.00	0.50	11.56	1.4	0.54	2698.43	66.1 91.1	1.25 S 66.07 E
2800.00	0.99	4.51	0.1	0.49	2798.42	66.2 90.0	0.03 N 66.23 E
2900.00	1.57	3.50	-2.1	0.58	2898.40	66.4 88.1	2.26 N 66.38 E
3000.00	1.35	12.51	-4.7	0.32	2998.37	66.9 85.9	4.77 N 66.72 E
3100.00	1.21	5.10	-6.9	0.22	3098.34	67.4 84.1	6.98 N 67.07 E
3200.00	1.14	1.19	-8.9	0.10	3198.32	67.8 82.4	9.02 N 67.18 E
3300.00	1.11	355.27	-10.9	0.12	3298.30	68.0 80.7	10.98 N 67.12 E
3400.00	1.16	356.80	-12.9	0.06	3398.28	68.2 79.0	12.96 N 66.99 E
3500.00	1.37	352.15	-15.1	0.23	3498.26	68.5 77.2	15.16 N 66.77 E
3600.00	1.47	352.42	-17.5	0.10	3598.22	68.7 75.1	17.62 N 66.43 E
3700.00	1.74	346.93	-20.3	0.31	3698.19	69.0 72.8	20.38 N 65.92 E
3800.00	1.94	342.07	-23.4	0.25	3798.13	69.2 70.2	23.47 N 65.05 E
3900.00	2.28	336.26	-26.8	0.40	3898.07	69.2 67.1	26.90 N 63.73 E
4000.00	2.87	320.49	-30.5	0.92	3997.97	68.6 63.4	30.65 N 61.34 E

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4100.00	3.56	307.87	-34.4	0.98	4097.81	66.9	59.0	34.49 N	57.30 E
4200.00	4.26	303.33	-38.3	0.77	4197.58	64.5	53.4	38.43 N	51.75 E
4300.00	4.85	299.62	-42.5	0.66	4297.26	61.9	46.6	42.56 N	44.97 E
4400.00	5.44	296.74	-46.7	0.65	4396.86	59.7	38.4	46.78 N	37.06 E
4500.00	5.39	294.70	-50.8	0.20	4496.41	58.3	29.3	50.88 N	28.55 E
4600.00	5.31	293.72	-54.7	0.12	4595.97	58.3	20.1	54.71 N	20.05 E
4700.00	4.79	295.13	-58.3	0.53	4695.59	59.6	11.7	58.34 N	12.03 E
4742.00	4.79	295.93	-59.8	0.16	4737.44	60.5	8.4	59.85 N	8.87 E

Final Station Closure: Distance: 60.51 ft Az: 8.43 deg.