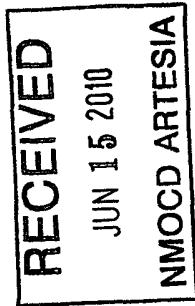


30 as 37685



A Gyrodata Directional Survey

for

MEWBOURNE OIL COMPANY

Lease: GUNSMOKE "9" EF FED COM Well: #1H, 4-1/2" DRILLPIPE
Location: PATTERSON DRILLING RIG #63, EDDY COUNTY, NEW MEXICO

Job Number: MD0510GBM204

Run Date: 5/1/2010 9:23:14 AM

Surveyor: Steve Winther

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Company Man

Survey Latitude: 32.588764 deg N Longitude: 104.488275 deg W

Azimuth Correction:

Gyro: 0.08000 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 Local Horizontal Reference

A handwritten signature in black ink, appearing to be "M" followed by a stylized flourish.

A Gyrodata Directional Survey

MEWBOURNE OIL COMPANY

Lease: GUNSMOKE "9" EF FED COM Well: #1H, 4-1/2" DRILLPIPE

Location: PATTERSON DRILLING RIG #63, EDDY COUNTY, NEW MEXICO

Job Number: MD0510GBM204

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0 0.0	0.00 N 0.00 E

0 TO 1848 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE

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

100.00	0.52	344.00	0.52	100.00	0.5 344.0	0.44 N 0.13 W
200.00	0.33	358.44	0.22	200.00	1.2 347.5	1.16 N 0.26 W
300.00	0.42	352.10	0.10	299.99	1.8 350.1	1.81 N 0.32 W
400.00	0.94	45.67	0.77	399.99	2.8 4.6	2.75 N 0.22 E
500.00	0.89	53.35	0.13	499.97	4.0 20.7	3.78 N 1.43 E
600.00	0.78	52.25	0.11	599.96	5.3 29.1	4.66 N 2.59 E
700.00	0.66	54.34	0.12	699.96	6.5 33.6	5.42 N 3.60 E
800.00	0.72	68.95	0.19	799.95	7.6 37.9	5.98 N 4.65 E
900.00	0.61	85.89	0.22	899.94	8.5 42.7	6.24 N 5.77 E
1000.00	1.04	143.54	0.88	999.93	8.8 50.9	5.55 N 6.84 E
1100.00	0.97	141.23	0.08	1099.92	8.9 62.3	4.16 N 7.91 E
1200.00	1.26	138.94	0.29	1199.90	9.5 73.7	2.67 N 9.16 E
1300.00	1.16	128.24	0.25	1299.88	10.7 83.5	1.22 N 10.68 E
1400.00	1.42	129.67	0.26	1399.85	12.4 90.9	0.20 S 12.43 E
1500.00	1.18	138.14	0.31	1499.83	14.2 97.1	1.76 S 14.07 E
1600.00	0.99	140.71	0.20	1599.81	15.6 101.8	3.19 S 15.30 E
1700.00	1.04	143.48	0.07	1699.79	17.0 105.7	4.59 S 16.39 E
1800.00	1.06	154.02	0.19	1799.77	18.4 109.5	6.15 S 17.33 E
1848.00	0.97	158.15	0.24	1847.77	19.0 111.4	6.93 S 17.68 E

Final Station Closure: Distance: 18.99 ft Az: 111.40 deg.



Company: **Mewbourne Oil Company**
Field: **Yesso Cementery**
County: **Eddy**
Well Name: **Gunsmoke 9 EF Fed #1H**
Rig: **Patterson 63**

Job Number: **3118114**
Magnetic Decl: **8.25**
Grid Corr: **-0.08**
Total Survey Corr: **8.33**
Date Printed: **05/07/2010**

Proposed Azimuth: **271.38**
Target Inclination: **90.72**
TVD: **2507.00**
BRN From Survey: **-0.45**
BRN From Bit: **-0.30**

Projection	63'	Depth (ft)	5002	Incl.	88.50	Azimuth	271.40	TVD	2511.96	VS	2700.51	N/S	51.52 N	E/W	2700.05 W
No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Dist (ft)	Ang (°)	DLS (%/100')	Bld Rate (%/100')	Wlk Rate (%/100')
0	TIP	1800	1.06	154.02			1799.77	-6.20	6.15 S	17.33 E					
1	MWD	1889	1.20	158.70	S 21.30 E	89	1888.75	-18.21	7.76 S	18.03 E	19.63	113.28	0.19	0.16	5.26
2	MWD	1921	1.00	168.60	S 11.40 E	32	1920.75	-18.40	8.34 S	18.21 E	20.03	114.62	0.86	-0.63	30.94
3	MWD	1952	1.10	238.90	S 58.90 W	31	1951.74	-18.21	8.76 S	18.00 E	20.02	115.95	3.91	0.32	226.77
4	MWD	1984	2.90	265.20	S 85.20 W	32	1983.72	-17.15	8.99 S	16.93 E	19.17	117.96	6.17	5.63	82.19
5	MWD	2016	5.60	271.70	N 88.30 W	32	2015.63	-14.78	9.01 S	14.57 E	17.13	121.74	8.56	8.44	20.31
6	MWD	2047	9.10	275.40	N 84.60 W	31	2046.37	-10.82	8.74 S	10.61 E	13.75	129.46	11.39	11.29	11.94
7	MWD	2079	12.10	274.60	N 85.40 W	32	2077.82	-4.95	8.23 S	4.75 E	9.50	150.00	9.39	9.38	-2.50
8	MWD	2111	15.10	273.80	N 86.20 W	32	2108.92	2.57	7.68 S	2.75 W	8.16	199.72	9.39	9.38	-2.50
9	MWD	2143	18.60	273.60	N 86.40 W	32	2139.54	11.84	7.09 S	12.01 W	13.94	239.46	10.94	10.94	-0.62
10	MWD	2175	22.10	272.50	N 87.50 W	32	2169.54	22.96	6.50 S	23.12 W	24.02	254.29	11.00	10.94	-3.44
11	MWD	2207	25.10	270.10	N 89.90 W	32	2198.86	35.76	6.23 S	35.92 W	36.46	260.16	9.84	9.38	-7.50
12	MWD	2238	28.80	270.20	N 89.80 W	31	2226.49	49.81	6.19 S	49.97 W	50.35	262.94	11.94	11.94	0.32
13	MWD	2270	32.20	269.00	S 89.00 W	32	2254.06	66.04	6.31 S	66.21 W	66.51	264.55	10.79	10.63	-3.75
14	MWD	2302	35.60	268.90	S 88.90 W	32	2280.62	83.87	6.64 S	84.05 W	84.31	265.48	10.63	10.63	-0.31
15	MWD	2334	38.90	269.40	S 89.40 W	32	2306.08	103.22	6.92 S	103.42 W	103.65	266.17	10.36	10.31	1.56
16	MWD	2365	41.30	269.30	S 89.30 W	31	2329.80	123.17	7.15 S	123.38 W	123.59	266.68	7.74	7.74	-0.32
17	MWD	2397	43.50	269.50	S 89.50 W	32	2353.42	144.74	7.38 S	144.96 W	145.14	267.09	6.89	6.88	0.62
18	MWD	2429	46.00	269.70	S 89.70 W	32	2376.15	167.25	7.53 S	167.48 W	167.65	267.42	7.82	7.81	0.62
19	MWD	2461	48.90	269.50	S 89.50 W	32	2397.79	190.81	7.70 S	191.05 W	191.21	267.69	9.07	9.06	-0.62
20	MWD	2493	52.90	269.40	S 89.40 W	32	2417.96	215.63	7.94 S	215.88 W	216.03	267.89	12.50	12.50	-0.31
21	MWD	2524	56.70	269.10	S 89.10 W	31	2435.83	240.94	8.27 S	241.20 W	241.35	268.04	12.28	12.26	-0.97
22	MWD	2556	60.70	269.20	S 89.20 W	32	2452.45	268.25	8.68 S	268.54 W	268.68	268.15	12.50	12.50	0.31
23	MWD	2588	64.40	269.60	S 89.60 W	32	2467.20	296.63	8.97 S	296.93 W	297.06	268.27	11.62	11.56	1.25
24	MWD	2620	67.40	269.70	S 89.70 W	32	2480.26	325.82	9.15 S	326.14 W	326.26	268.39	9.38	9.38	0.31
25	MWD	2651	70.80	270.20	N 89.80 W	31	2491.32	354.77	9.17 S	355.09 W	355.21	268.52	11.07	10.97	1.61
26	MWD	2683	73.80	270.30	N 89.70 W	32	2501.05	385.24	9.04 S	385.57 W	385.68	268.66	9.38	9.38	0.31
27	MWD	2715	76.70	270.50	N 89.50 W	32	2509.20	416.18	8.82 S	416.51 W	416.61	268.79	9.08	9.06	0.62
28	MWD	2747	79.30	270.20	N 89.80 W	32	2515.85	447.48	8.63 S	447.81 W	447.90	268.90	8.18	8.12	-0.94
29	MWD	2779	82.10	270.70	N 89.30 W	32	2521.02	479.05	8.38 S	479.39 W	479.46	269.00	8.88	8.75	1.56
30	MWD	2810	84.70	270.70	N 89.30 W	31	2524.58	509.84	8.01 S	510.18 W	510.24	269.10	8.39	8.39	0.00
31	MWD	2842	86.20	270.50	N 89.50 W	32	2527.12	541.73	7.67 S	542.07 W	542.13	269.19	4.73	4.69	-0.62
32	MWD	2874	87.10	270.20	N 89.80 W	32	2528.99	573.67	7.48 S	574.02 W	574.07	269.25	2.96	2.81	-0.94



Company: Mewbourne Oil Company
Field: Yesso Cementery
County: Eddy
Well Name: Gunsmoke 9 EF Fed #1H
Rig: Patterson 63

Job Number: 3118114
Magnetic Decl: 8.25
Grid Corr: -0.08
Total Survey Corr: 8.33
Date Printed: 05/07/2010

Proposed Azimuth: 271.38
Target Inclination: 90.72
TVD: 2507.00
BRN From Survey: -0.45
BRN From Bit: -0.30

Projection	63'	Depth (ft)	5002	Incl.	88.50	Azimuth	271.40	TVD	2511.96	VS	2700.51	N/S	51.52 N	E/W	2700.05 W
No.	Tool Type	Survey Depth (ft)	Incl. (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Dist (ft)	Ang (°)	DLS (%/100)	Bld Rate (%/100)	Wlk Rate (%/100)
33	MWD	2906	87.90	270.00	N 90.00 W	32	2530.39	605.63	7.42 S	605.99 W	606.03	269.30	2.58	2.50	-0.62
34	MWD	2938	88.30	270.10	N 89.90 W	32	2531.45	637.61	7.40 S	637.97 W	638.01	269.34	1.29	1.25	0.31
35	MWD	2969	88.40	269.50	S 89.50 W	31	2532.34	668.58	7.50 S	668.96 W	669.00	269.36	1.96	0.32	-1.94
36	MWD	3001	88.60	269.10	S 89.10 W	32	2533.18	700.55	7.89 S	700.94 W	700.99	269.35	1.40	0.62	-1.25
37	MWD	3033	89.80	268.70	S 88.70 W	32	2533.62	732.52	8.51 S	732.93 W	732.98	269.33	3.95	3.75	-1.25
38	MWD	3065	90.60	268.50	S 88.50 W	32	2533.51	764.48	9.29 S	764.92 W	764.98	269.30	2.58	2.50	-0.62
39	MWD	3096	90.70	268.40	S 88.40 W	31	2533.16	795.44	10.13 S	795.91 W	795.97	269.27	0.46	0.32	-0.32
40	MWD	3128	90.60	268.90	S 88.90 W	32	2532.80	827.40	10.88 S	827.90 W	827.97	269.25	1.59	-0.31	1.56
41	MWD	3160	90.40	269.20	S 89.20 W	32	2532.52	859.37	11.41 S	859.89 W	859.97	269.24	1.13	-0.62	0.94
42	MWD	3192	90.30	269.70	S 89.70 W	32	2532.32	891.35	11.72 S	891.89 W	891.97	269.25	1.59	-0.31	1.56
43	MWD	3223	90.10	269.60	S 89.60 W	31	2532.22	922.34	11.91 S	922.89 W	922.97	269.26	0.72	-0.65	-0.32
44	MWD	3255	90.30	269.90	S 89.90 W	32	2532.10	954.32	12.05 S	954.89 W	954.97	269.28	1.13	0.63	0.94
45	MWD	3287	91.00	270.40	N 89.60 W	32	2531.74	986.31	11.97 S	986.89 W	986.96	269.31	2.69	2.19	1.56
46	MWD	3319	91.10	270.70	N 89.30 W	32	2531.15	1018.31	11.66 S	1018.88 W	1018.95	269.34	0.99	0.31	0.94
47	MWD	3351	91.20	270.50	N 89.50 W	32	2530.51	1050.30	11.32 S	1050.87 W	1050.93	269.38	0.70	0.31	-0.62
48	MWD	3383	91.30	270.40	N 89.60 W	32	2529.81	1082.28	11.07 S	1082.86 W	1082.92	269.41	0.44	0.31	-0.31
49	MWD	3414	91.40	270.10	N 89.90 W	31	2529.08	1113.27	10.94 S	1113.85 W	1113.91	269.44	1.02	0.32	-0.97
50	MWD	3446	91.40	270.20	N 89.80 W	32	2528.30	1145.25	10.85 S	1145.84 W	1145.90	269.46	0.31	0.00	0.31
51	MWD	3478	91.40	270.30	N 89.70 W	32	2527.52	1177.24	10.71 S	1177.83 W	1177.88	269.48	0.31	0.00	0.31
52	MWD	3509	91.00	271.40	N 88.60 W	31	2526.87	1208.23	10.25 S	1208.82 W	1208.87	269.51	3.77	-1.29	3.55
53	MWD	3541	90.90	271.80	N 88.20 W	32	2526.34	1240.22	9.36 S	1240.81 W	1240.84	269.57	1.29	-0.31	1.25
54	MWD	3574	91.00	271.90	N 88.10 W	33	2525.79	1273.22	8.30 S	1273.79 W	1273.81	269.63	0.43	0.30	0.30
55	MWD	3605	90.80	271.60	N 88.40 W	31	2525.31	1304.21	7.35 S	1304.77 W	1304.79	269.68	1.16	-0.65	-0.97
56	MWD	3637	90.70	271.10	N 88.90 W	32	2524.89	1336.21	6.59 S	1336.76 W	1336.77	269.72	1.59	-0.31	-1.56
57	MWD	3669	90.70	271.40	N 88.60 W	32	2524.50	1368.21	5.90 S	1368.75 W	1368.76	269.75	0.94	0.00	0.94
58	MWD	3701	91.20	272.30	N 87.70 W	32	2523.97	1400.20	4.86 S	1400.72 W	1400.73	269.80	3.22	1.56	2.81
59	MWD	3732	91.50	272.50	N 87.50 W	31	2523.24	1431.19	3.57 S	1431.69 W	1431.69	269.86	1.16	0.97	0.65
60	MWD	3764	91.60	272.70	N 87.30 W	32	2522.37	1463.17	2.11 S	1463.64 W	1463.64	269.92	0.70	0.31	0.62
61	MWD	3796	91.50	272.40	N 87.60 W	32	2521.50	1495.15	0.69 S	1495.60 W	1495.60	269.97	0.99	-0.31	-0.94
62	MWD	3828	91.50	272.50	N 87.50 W	32	2520.67	1527.13	0.68 N	1527.56 W	1527.56	270.03	0.31	0.00	0.31
63	MWD	3859	91.60	272.40	N 87.60 W	31	2519.83	1558.12	2.00 N	1558.52 W	1558.52	270.07	0.46	0.32	-0.32
64	MWD	3891	91.80	273.00	N 87.00 W	32	2518.88	1590.10	3.51 N	1590.47 W	1590.47	270.13	1.98	0.63	1.88
65	MWD	3923	91.30	273.00	N 87.00 W	32	2518.01	1622.07	5.18 N	1622.41 W	1622.42	270.18	1.56	-1.56	0.00



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Projection	63	Depth (ft)	5002	Incl.	88.50	Azimuth	271.40	TVD	2511.96	VS	2700.51	N/S	51.52 N	E/W	2700.05 W
No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Dist (ft)	Ang (°)	DLS (%/100')	Bld Rate (%/100')	Wlk Rate (%/100')
66	MWD	3955	91.20	273.20	N 86.80 W	32	2517.31	1654.05	6.91 N	1654.36 W	1654.37	270.24	0.70	-0.31	0.62
67	MWD	3987	90.50	274.10	N 85.90 W	32	2516.84	1686.02	8.95 N	1686.29 W	1686.31	270.30	3.56	-2.19	2.81
68	MWD	4019	90.20	273.80	N 86.20 W	32	2516.64	1717.99	11.15 N	1718.21 W	1718.25	270.37	1.33	-0.94	-0.94
69	MWD	4050	90.30	274.40	N 85.60 W	31	2516.51	1748.95	13.37 N	1749.13 W	1749.19	270.44	1.96	0.32	1.94
70	MWD	4080	90.40	274.30	N 85.70 W	30	2516.33	1778.91	15.64 N	1779.05 W	1779.12	270.50	0.47	0.33	-0.33
71	MWD	4111	90.50	274.20	N 85.80 W	31	2516.08	1809.87	17.94 N	1809.96 W	1810.05	270.57	0.46	0.32	-0.32
72	MWD	4144	90.70	274.10	N 85.90 W	33	2515.74	1842.83	20.33 N	1842.87 W	1842.99	270.63	0.68	0.61	-0.30
73	MWD	4174	90.80	273.00	N 87.00 W	30	2515.34	1872.80	22.19 N	1872.81 W	1872.94	270.68	3.68	0.33	-3.67
74	MWD	4205	90.90	272.50	N 87.50 W	31	2514.88	1903.79	23.67 N	1903.77 W	1903.92	270.71	1.64	0.32	-1.61
75	MWD	4236	90.80	272.30	N 87.70 W	31	2514.42	1934.78	24.97 N	1934.74 W	1934.90	270.74	0.72	-0.32	-0.65
76	MWD	4268	91.20	272.60	N 87.40 W	32	2513.87	1966.77	26.34 N	1966.71 W	1966.88	270.77	1.56	1.25	0.94
77	MWD	4298	91.30	272.40	N 87.60 W	30	2513.21	1996.76	27.65 N	1996.67 W	1996.86	270.79	0.75	0.33	-0.67
78	MWD	4329	91.50	272.60	N 87.40 W	31	2512.45	2027.75	29.00 N	2027.63 W	2027.84	270.82	0.91	0.65	0.65
79	MWD	4359	91.60	272.60	N 87.40 W	30	2511.64	2057.73	30.36 N	2057.59 W	2057.82	270.85	0.33	0.33	0.00
80	MWD	4391	91.80	272.70	N 87.30 W	32	2510.69	2089.71	31.84 N	2089.54 W	2089.79	270.87	0.70	0.63	0.31
81	MWD	4422	91.60	272.50	N 87.50 W	31	2509.77	2120.68	33.24 N	2120.50 W	2120.76	270.90	0.91	-0.65	-0.65
82	MWD	4453	91.80	272.60	N 87.40 W	31	2508.85	2151.66	34.62 N	2151.45 W	2151.73	270.92	0.72	0.65	0.32
83	MWD	4485	92.00	272.70	N 87.30 W	32	2507.79	2183.64	36.10 N	2183.40 W	2183.70	270.95	0.70	0.63	0.31
84	MWD	4516	91.10	272.30	N 87.70 W	31	2506.95	2214.62	37.45 N	2214.36 W	2214.68	270.97	3.18	-2.90	-1.29
85	MWD	4547	90.70	272.00	N 88.00 W	31	2506.47	2245.61	38.62 N	2245.33 W	2245.67	270.99	1.61	-1.29	-0.97
86	MWD	4578	90.70	272.10	N 87.90 W	31	2506.09	2276.61	39.73 N	2276.31 W	2276.66	271.00	0.32	0.00	0.32
87	MWD	4609	90.70	272.00	N 88.00 W	31	2505.71	2307.61	40.83 N	2307.29 W	2307.65	271.01	0.32	0.00	-0.32
88	MWD	4640	90.70	271.90	N 88.10 W	31	2505.33	2338.60	41.89 N	2338.27 W	2338.65	271.03	0.32	0.00	-0.32
89	MWD	4672	90.70	272.00	N 88.00 W	32	2504.94	2370.60	42.98 N	2370.25 W	2370.64	271.04	0.31	0.00	0.31
90	MWD	4703	89.50	271.70	N 88.30 W	31	2504.89	2401.60	43.98 N	2401.23 W	2401.64	271.05	3.99	-3.87	-0.97
91	MWD	4733	88.80	271.70	N 88.30 W	30	2505.33	2431.59	44.87 N	2431.22 W	2431.63	271.06	2.33	-2.33	0.00
92	MWD	4764	88.70	271.50	N 88.50 W	31	2506.01	2462.58	45.73 N	2462.20 W	2462.62	271.06	0.72	-0.32	-0.65
93	MWD	4796	88.70	271.40	N 88.60 W	32	2506.73	2494.58	46.54 N	2494.18 W	2494.61	271.07	0.31	0.00	-0.31
94	MWD	4827	88.60	271.40	N 88.60 W	31	2507.46	2525.57	47.30 N	2525.16 W	2525.60	271.07	0.32	-0.32	0.00
95	MWD	4858	88.60	271.30	N 88.70 W	31	2508.22	2556.56	48.03 N	2556.14 W	2556.59	271.08	0.32	0.00	-0.32
96	MWD	4889	88.50	271.40	N 88.60 W	31	2509.01	2587.55	48.76 N	2587.12 W	2587.58	271.08	0.46	-0.32	0.32
97	BIT	4939	88.50	271.40	N 88.60 W	50	2510.31	2637.53	49.98 N	2637.09 W	2637.56	271.09	0.00	0.00	0.00