

30-015-42089



COMPANY: Mewbourne Oil Company
 WELL: Maverick 13 DM Fed Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 160

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.55°

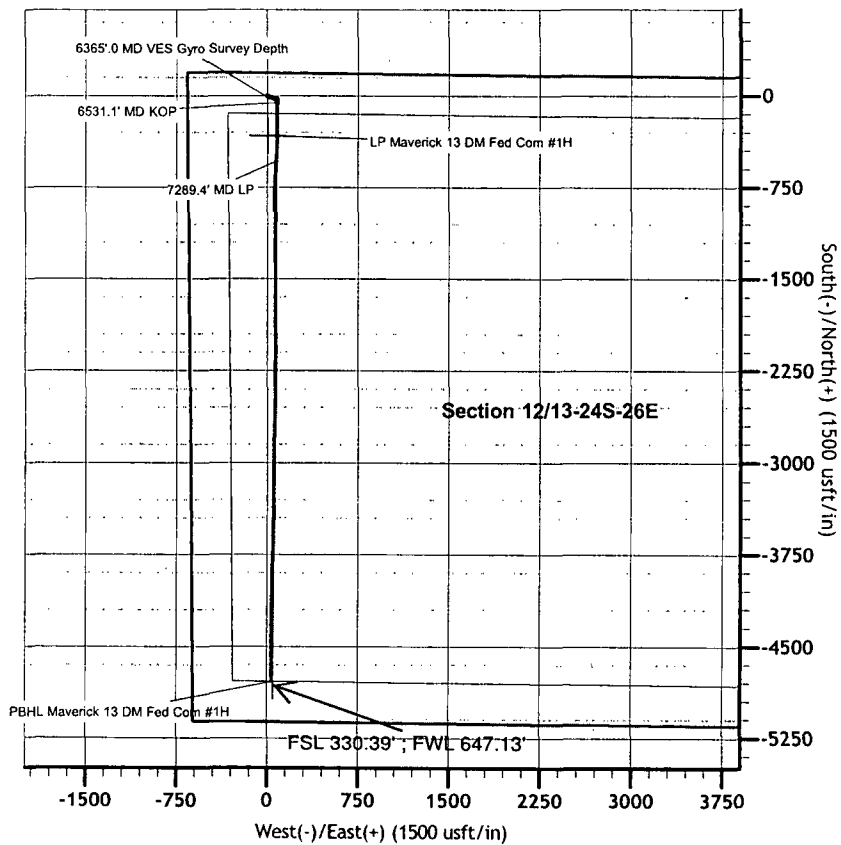
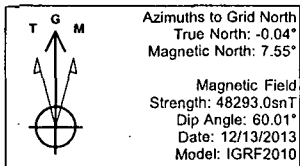
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
 GL 3253 + 32 @ 3285.0usft (Patterson 160)
 GROUND ELEVATION: 3253.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	445215.10	525007.40	32° 13' 26.355 N	104° 15' 8.877 W	

PLAN SECTIONS

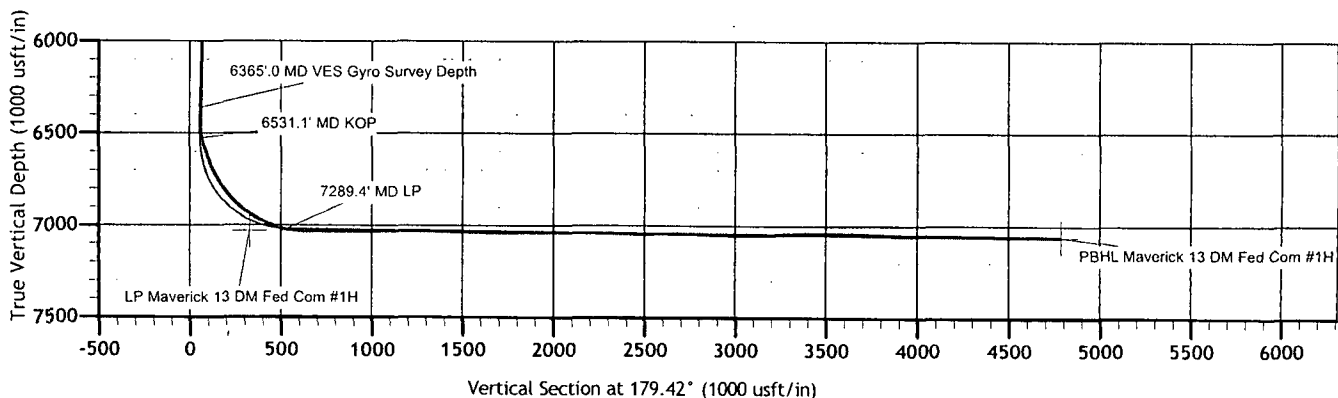
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet	Target
1	6365.0	1.40	3.73	6362.8	-61.9	82.1	0.00	0.00	62.7	
2	6531.1	1.40	3.73	6528.9	-57.9	82.4	0.00	0.00	58.7	
3	7288.1	89.43	180.42	7018.0	-530.5	79.6	12.00	176.69	531.2	
4	11545.7	89.43	180.42	7060.0	-4787.7	48.3	0.00	0.00	4788.0	PBHL Maverick 13 DM Fed Com #1H



NM OIL CONSERVATION
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Mewbourne Oil Company .

Eddy County, New Mexico

Section 13-24S-26E Maverick 13 DM

Maverick 13 DM Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

08 May, 2014

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well/Maverick 13 DM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E-Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

Project:	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site						Section 13-24S-26E Maverick 13.DM					
Site Position:			Northing:		445,215.10 usft		Latitude:		32° 13' 26.355 N		
From:		Map	Easting:		525,007.40 usft		Longitude:		104° 15' 8.877 W		
Position Uncertainty:		0.0 usft	Slot Radius:		13-3/16 "		Grid Convergence:		0.04 °		

Well	Maverick 13 DM Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	445,215.10 usft	Latitude:	32° 13' 26.355 N
	+E/-W	0.0 usft	Easting:	525,007.40 usft	Longitude:	104° 15' 8.877 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,253.0 usft

Wellbore:	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/13/2013	7.59	60.01	48,293

Design:	Original Hole				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	172.16

Survey Program		Date	5/8/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.0	6,365.0	VES Gyro Survey (Original Hole)	GyroFlex		
6,441.0	11,490.0	Stryker MWD Survey (Original Hole)	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.40	293.05	200.0	0.3	-0.6	-0.4	0.20	0.20	0.00
400.0	0.50	237.16	400.0	0.1	-2.0	-0.3	0.21	0.05	-27.95
600.0	0.89	160.85	600.0	-1.9	-2.2	1.5	0.45	0.19	-38.16
800.0	0.83	158.72	800.0	-4.7	-1.2	4.5	0.03	-0.03	-1.06
1,000.0	1.20	128.78	999.9	-7.3	1.0	7.4	0.32	0.18	-14.97
1,200.0	2.80	109.10	1,199.8	-10.3	7.2	11.1	0.86	0.80	-9.84
1,400.0	3.19	104.15	1,399.5	-13.2	17.2	15.4	0.24	0.20	-2.48
1,600.0	4.16	94.57	1,599.1	-15.2	29.9	19.1	0.57	0.48	-4.79
1,800.0	2.90	104.20	1,798.7	-17.0	42.0	22.5	0.69	-0.63	4.82

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well/Maverick 13 DM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253+ 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E, Maverick 13 DM	MDI Reference:	GL 3253+ 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000-1 Single User Db Todd

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,000.0	2.09	106.52	1,998.5	-19.3	50.4	25.9	0.41	-0.41	1.16
2,200.0	1.68	104.00	2,198.4	-21.0	56.7	28.5	0.21	-0.20	-1.26
2,400.0	1.46	104.04	2,398.4	-22.3	62.1	30.6	0.11	-0.11	0.02
2,600.0	1.37	99.50	2,598.3	-23.3	66.9	32.2	0.07	-0.05	-2.27
2,800.0	1.06	113.43	2,798.3	-24.5	70.9	33.9	0.21	-0.15	6.96
3,000.0	1.01	115.03	2,998.2	-26.0	74.2	35.8	0.03	-0.03	0.80
3,200.0	0.64	118.76	3,198.2	-27.2	76.8	37.5	0.19	-0.18	1.87
3,400.0	0.66	132.53	3,398.2	-28.5	78.6	39.0	0.08	0.01	6.89
3,600.0	0.69	151.15	3,598.2	-30.4	80.1	41.0	0.11	0.02	9.31
3,800.0	0.77	147.49	3,798.2	-32.6	81.4	43.4	0.05	0.04	-1.83
4,000.0	0.81	140.51	3,998.1	-34.8	83.0	45.8	0.05	0.02	-3.49
4,200.0	0.75	155.65	4,198.1	-37.1	84.4	48.3	0.11	-0.03	7.57
4,400.0	0.69	176.18	4,398.1	-39.5	85.0	50.7	0.13	-0.03	10.27
4,600.0	0.70	171.87	4,598.1	-41.9	85.3	53.1	0.03	0.00	-2.16
4,800.0	0.78	189.60	4,798.1	-44.5	85.2	55.7	0.12	0.04	8.86
5,000.0	1.01	182.58	4,998.0	-47.6	84.9	58.7	0.12	0.11	-3.51
5,200.0	1.24	196.81	5,198.0	-51.4	84.2	62.4	0.18	0.12	7.12
5,400.0	1.30	197.36	5,398.0	-55.6	82.9	66.4	0.03	0.03	0.28
5,600.0	1.04	210.82	5,597.9	-59.3	81.3	69.9	0.19	-0.13	6.73
5,800.0	1.19	205.25	5,797.9	-62.8	79.5	73.0	0.09	0.07	-2.78
6,000.0	0.63	140.16	5,997.9	-65.5	79.3	75.7	0.54	-0.28	-32.55
6,200.0	1.06	37.44	6,197.8	-64.9	81.1	75.4	0.67	0.21	-51.36
6,365.0	1.44	1.91	6,362.8	-61.6	82.1	72.2	0.51	0.24	-21.53
6365 VES Gyro Survey Tie-In									
6,441.0	0.60	306.70	6,438.8	-60.4	81.9	71.0	1.59	-1.11	-72.65
6,473.0	4.00	191.90	6,470.8	-61.4	81.5	71.9	13.39	10.63	-358.75
6,505.0	9.00	186.60	6,502.6	-65.0	81.0	75.4	15.72	15.63	-16.56
6,537.0	14.30	182.50	6,533.9	-71.4	80.5	81.7	16.75	16.56	-12.81
6,568.0	16.70	181.70	6,563.8	-79.7	80.2	89.9	7.77	7.74	-2.58
6,600.0	18.70	179.00	6,594.2	-89.4	80.2	99.5	6.75	6.25	-8.44
6,631.0	20.60	178.70	6,623.4	-99.9	80.4	109.9	6.14	6.13	-0.97
6,663.0	22.40	178.00	6,653.2	-111.6	80.7	121.5	5.68	5.63	-2.19
6,695.0	25.10	178.90	6,682.5	-124.5	81.1	134.3	8.51	8.44	2.81
6,727.0	27.30	179.60	6,711.2	-138.6	81.2	148.4	6.94	6.88	2.19
6,758.0	31.30	180.10	6,738.2	-153.8	81.3	163.4	12.93	12.90	1.61
6,790.0	34.90	179.00	6,765.0	-171.2	81.4	180.7	11.41	11.25	-3.44
6,822.0	36.60	178.40	6,791.0	-189.9	81.8	199.3	5.42	5.31	-1.88
6,853.0	39.50	178.60	6,815.4	-209.0	82.3	218.3	9.36	9.35	0.65
6,885.0	44.00	179.10	6,839.3	-230.3	82.8	239.4	14.10	14.06	1.56
6,917.0	45.80	179.40	6,861.9	-252.9	83.1	261.9	5.66	5.63	0.94
6,948.0	48.50	179.50	6,883.0	-275.6	83.3	284.4	8.71	8.71	0.32
6,980.0	53.00	179.80	6,903.3	-300.4	83.4	309.0	14.08	14.06	0.94
7,012.0	55.80	180.40	6,921.9	-326.4	83.4	334.7	8.88	8.75	1.88

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Maverick 13 DM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E -Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db Todd

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (%/100usft)	Build Rate (%/100usft)	Turn Rate (%/100usft)
7,044.0	59.20	180.50	6,939.1	-353.4	83.2	361.4	10.63	10.63	0.31
7,075.0	62.20	180.30	6,954.3	-380.4	83.0	388.2	9.69	9.68	-0.65
7,107.0	65.10	180.40	6,968.5	-409.1	82.8	416.6	9.07	9.06	0.31
7,139.0	67.80	181.20	6,981.2	-438.4	82.4	445.6	8.74	8.44	2.50
7,170.0	71.20	184.30	6,992.1	-467.4	81.0	474.1	14.42	10.97	10.00
7,202.0	73.50	184.80	7,001.8	-497.8	78.6	503.9	7.34	7.19	1.56
7,234.0	78.60	184.40	7,009.5	-528.8	76.1	534.2	15.98	15.94	-1.25
7,250.0	80.80	184.00	7,012.4	-544.5	74.9	549.6	13.97	13.75	-2.50
7,340.0	90.60	183.00	7,019.1	-633.9	69.5	637.5	10.94	10.89	-1.11
7,435.0	90.00	181.90	7,018.6	-728.8	65.4	730.9	1.32	-0.63	-1.16
7,499.0	89.30	181.60	7,019.0	-792.8	63.4	794.1	1.19	-1.09	-0.47
7,562.0	90.10	179.80	7,019.3	-855.8	62.7	856.4	3.13	1.27	-2.86
7,625.0	89.30	178.80	7,019.7	-918.8	63.4	918.9	2.03	-1.27	-1.59
7,721.0	91.30	178.60	7,019.2	-1,014.8	65.6	1,014.2	2.09	2.08	-0.21
7,815.0	90.80	179.80	7,017.4	-1,108.7	66.9	1,107.5	1.38	-0.53	1.28
7,910.0	89.10	180.60	7,017.5	-1,203.7	66.6	1,201.6	1.98	-1.79	0.84
8,005.0	88.70	179.50	7,019.4	-1,298.7	66.5	1,295.6	1.23	-0.42	-1.16
8,100.0	89.10	179.80	7,021.2	-1,393.7	67.1	1,389.8	0.53	0.42	0.32
8,195.0	88.10	178.90	7,023.5	-1,488.7	68.2	1,484.0	1.42	-1.05	-0.95
8,290.0	90.30	180.30	7,024.8	-1,583.6	68.8	1,578.2	2.74	2.32	1.47
8,385.0	89.10	179.10	7,025.3	-1,678.6	69.3	1,672.4	1.79	-1.26	-1.26
8,480.0	90.60	180.20	7,025.6	-1,773.6	69.9	1,766.6	1.96	1.58	1.16
8,575.0	90.50	180.10	7,024.7	-1,868.6	69.7	1,860.7	0.15	-0.11	-0.11
8,670.0	90.10	179.00	7,024.2	-1,963.6	70.4	1,954.9	1.23	-0.42	-1.16
8,765.0	89.30	179.60	7,024.7	-2,058.6	71.6	2,049.1	1.05	-0.84	0.63
8,860.0	89.30	181.40	7,025.8	-2,153.6	70.8	2,143.1	1.89	0.00	1.89
8,955.0	88.70	181.50	7,027.5	-2,248.5	68.3	2,236.9	0.64	-0.63	0.11
9,050.0	88.20	180.70	7,030.0	-2,343.5	66.5	2,330.7	0.99	-0.53	-0.84
9,146.0	90.50	181.80	7,031.1	-2,439.4	64.4	2,425.5	2.66	2.40	1.15
9,241.0	90.30	181.40	7,030.5	-2,534.4	61.8	2,519.2	0.47	-0.21	-0.42
9,335.0	89.80	180.40	7,030.4	-2,628.4	60.3	2,612.1	1.19	-0.53	-1.06
9,430.0	89.10	180.00	7,031.3	-2,723.4	60.0	2,706.1	0.85	-0.74	-0.42
9,525.0	87.80	179.20	7,033.9	-2,818.3	60.6	2,800.3	1.61	-1.37	-0.84
9,620.0	88.50	181.00	7,036.9	-2,913.3	60.5	2,894.3	2.03	0.74	1.89
9,715.0	89.80	181.50	7,038.3	-3,008.3	58.4	2,988.1	1.47	1.37	0.53
9,810.0	90.10	181.20	7,038.4	-3,103.2	56.2	3,081.9	0.45	0.32	-0.32
9,905.0	92.10	180.80	7,036.6	-3,198.2	54.5	3,175.8	2.15	2.11	-0.42
9,999.0	91.80	179.90	7,033.4	-3,292.1	53.9	3,268.7	1.01	-0.32	-0.96
10,094.0	91.30	179.30	7,030.8	-3,387.1	54.6	3,362.9	0.82	-0.53	-0.63
10,189.0	90.40	180.80	7,029.4	-3,482.1	54.5	3,457.0	1.84	-0.95	1.58
10,284.0	89.20	181.10	7,029.8	-3,577.1	52.9	3,550.9	1.30	-1.26	0.32
10,379.0	88.40	181.60	7,031.7	-3,672.0	50.7	3,644.6	0.99	-0.84	0.53
10,474.0	87.30	180.80	7,035.3	-3,766.9	48.7	3,738.4	1.43	-1.16	-0.84

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well/Maverick 13 DM Fed Corn #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Site:	Section 13-24S-26E, Maverick 13 DM	MD Reference:	GL 3253 + 20 @ 3273.0usft (Patterson 41)
Well:	Maverick 13 DM Fed Corn #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db, Todd

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,569.0	89.00	181.20	7,038.4	-3,861.9	47.0	3,832.2	1.84	1.79	0.42
10,664.0	88.40	180.80	7,040.5	-3,956.8	45.4	3,926.1	0.76	-0.63	-0.42
10,759.0	90.50	181.00	7,041.4	-4,051.8	43.9	4,020.0	2.22	2.21	0.21
10,854.0	89.50	181.00	7,041.4	-4,146.8	42.2	4,113.8	1.05	-1.05	0.00
10,949.0	88.90	180.80	7,042.8	-4,241.8	40.7	4,207.7	0.67	-0.63	-0.21
11,044.0	90.20	180.70	7,043.5	-4,336.8	39.5	4,301.6	1.37	1.37	-0.11
11,139.0	88.50	180.20	7,044.6	-4,431.7	38.8	4,395.6	1.87	-1.79	-0.53
11,235.0	90.70	180.10	7,045.3	-4,527.7	38.5	4,490.7	2.29	2.29	-0.10
11,330.0	89.90	179.80	7,044.8	-4,622.7	38.6	4,584.8	0.90	-0.84	-0.32
11,425.0	88.80	179.20	7,045.8	-4,717.7	39.4	4,679.0	1.32	-1.16	-0.63
11,447.0	88.60	178.80	7,046.3	-4,739.7	39.8	4,700.9	2.03	-0.91	-1.82
11,490.0	88.20	178.20	7,047.5	-4,782.7	40.9	4,743.6	1.68	-0.93	-1.40
11490' MD Projected to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,365.0	6,362.8	-61.6	82.1	6365' VES Gyro Survey Tie-In
11,490.0	7,047.5	-4,782.7	40.9	11490' MD Projected to Bit