



Mewbourne Oil Company

Eddy County, New Mexico

Section 25-36-23S-26E Ghost rider 25 W0DM Fed Com2H

Ghost rider 25-36 W0DM Fed Com 2H

Original Hole

30-015-44302

Design: Original Hole

Standard Survey Report

28 August, 2017

NM OIL CONSERVATION

ARTESIA DISTRICT

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Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 25-36-23S-26E Ghost rider 25 W0DM Fed Com2H
Well: Ghost rider 25-36 W0DM Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Ghost rider 25-36 W0DM Fed Com 2H
TVD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
MD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project Eddy County, New Mexico

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Section 25-36-23S-26E Ghost rider 25 W0DM Fed Com2H

Site Position: **Northing:** 466,383.60 usft **Latitude:** 32° 16' 55.847 N
From: Map **Easting:** 524,810.50 usft **Longitude:** 104° 15' 10.985 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.04 °

Well Ghost rider 25-36 W0DM Fed Com 2H

Well Position **+N/-S** 0.0 usft **Northing:** 466,383.60 usft **Latitude:** 32° 16' 55.847 N
+E/-W 0.0 usft **Easting:** 524,810.50 usft **Longitude:** 104° 15' 10.985 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 3,267.0 usft **Ground Level:** 3,240.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/13/2017	7.26	60.00	47,893.13464751

Design Original Hole

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	66.47

Survey Program Date 8/28/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
150.0	18,852.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

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
150.0	1.10	125.30	150.0	-0.8	1.2	0.7	0.73	0.73	0.00
210.0	1.30	101.80	210.0	-1.3	2.3	1.6	0.88	0.33	-39.17
282.0	1.60	97.10	282.0	-1.6	4.1	3.1	0.45	0.42	-6.53
341.0	1.50	62.10	340.9	-1.3	5.6	4.6	1.59	-0.17	-59.32
406.0	1.30	66.00	405.9	-0.6	7.0	6.2	0.34	-0.31	6.00
485.0	1.80	67.00	484.9	0.2	9.0	8.3	0.63	0.63	1.27
485' MD Rig Surveys									
563.0	2.20	63.80	562.8	1.4	11.5	11.1	0.53	0.51	-4.10
624.0	1.90	51.00	623.8	2.5	13.3	13.2	0.89	-0.49	-20.98



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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)
682.0	1.10	354.30	681.8	3.7	14.0	14.3	2.74	-1.38	-97.76
740.0	1.40	340.70	739.8	4.9	13.7	14.5	0.72	0.52	-23.45
836.0	1.40	334.70	835.7	7.1	12.8	14.6	0.15	0.00	-6.25
931.0	1.80	330.00	930.7	9.4	11.6	14.4	0.44	0.42	-4.95
1,026.0	1.20	300.30	1,025.7	11.2	10.0	13.6	1.01	-0.63	-31.26
1,121.0	0.90	287.20	1,120.7	11.9	8.4	12.5	0.40	-0.32	-13.79
1,216.0	0.20	162.40	1,215.7	12.0	7.7	11.9	1.08	-0.74	-131.37
1,312.0	1.20	99.00	1,311.6	11.7	8.8	12.7	1.17	1.04	-66.04
1,407.0	2.20	101.80	1,406.6	11.1	11.5	15.0	1.06	1.05	2.95
1,502.0	1.30	111.30	1,501.6	10.4	14.3	17.3	0.99	-0.95	10.00
1,597.0	1.50	142.00	1,596.5	9.0	16.1	18.4	0.81	0.21	32.32
1,679.0	1.30	123.70	1,678.5	7.6	17.5	19.1	0.59	-0.24	-22.32
1,759.0	1.40	125.60	1,758.5	6.6	19.1	20.1	0.14	0.13	2.38
1,823.0	1.30	122.70	1,822.5	5.7	20.3	20.9	0.19	-0.16	-4.53
1,917.0	0.50	315.70	1,916.5	5.4	20.9	21.4	1.91	-0.85	-177.66
2,013.0	0.70	304.70	2,012.5	6.1	20.2	20.9	0.24	0.21	-11.46
2,107.0	0.70	308.90	2,106.4	6.7	19.3	20.3	0.05	0.00	4.47
2,202.0	0.80	306.00	2,201.4	7.5	18.3	19.7	0.11	0.11	-3.05
2,298.0	0.90	307.20	2,297.4	8.4	17.1	19.0	0.11	0.10	1.25
2,393.0	0.60	304.80	2,392.4	9.1	16.1	18.4	0.32	-0.32	-2.53
2,488.0	0.80	301.30	2,487.4	9.7	15.1	17.8	0.22	0.21	-3.68
2,583.0	0.60	299.20	2,582.4	10.3	14.1	17.1	0.21	-0.21	-2.21
2,677.0	0.80	278.90	2,676.4	10.6	13.1	16.2	0.34	0.21	-21.60
2,772.0	0.80	292.90	2,771.4	11.0	11.8	15.2	0.21	0.00	14.74
2,868.0	1.00	296.40	2,867.4	11.6	10.4	14.2	0.22	0.21	3.65
2,963.0	0.90	293.00	2,962.4	12.3	9.0	13.2	0.12	-0.11	-3.58
3,057.0	0.80	279.10	3,056.4	12.7	7.7	12.1	0.24	-0.11	-14.79
3,152.0	0.90	293.70	3,151.3	13.1	6.3	11.0	0.25	0.11	15.37
3,247.0	1.00	291.90	3,246.3	13.7	4.9	9.9	0.11	0.11	-1.89
3,342.0	0.90	285.50	3,341.3	14.2	3.4	8.8	0.15	-0.11	-6.74
3,437.0	1.00	284.90	3,436.3	14.6	1.9	7.6	0.11	0.11	-0.63
3,532.0	1.00	279.20	3,531.3	15.0	0.3	6.2	0.10	0.00	-6.00
3,626.0	0.80	281.40	3,625.3	15.2	-1.2	5.0	0.22	-0.21	2.34
3,721.0	0.50	278.10	3,720.3	15.4	-2.3	4.1	0.32	-0.32	-3.47
3,816.0	0.20	225.10	3,815.3	15.4	-2.8	3.6	0.43	-0.32	-55.79
3,911.0	0.30	192.40	3,910.3	15.0	-3.0	3.3	0.18	0.11	-34.42
4,006.0	0.40	194.50	4,005.3	14.4	-3.1	2.9	0.11	0.11	2.21
4,101.0	0.60	253.50	4,100.3	14.0	-3.7	2.2	0.55	0.21	62.11
4,197.0	0.80	248.60	4,196.3	13.6	-4.8	1.1	0.22	0.21	-5.10
4,291.0	1.00	257.00	4,290.2	13.2	-6.2	-0.4	0.25	0.21	8.94
4,386.0	0.90	258.10	4,385.2	12.8	-7.7	-1.9	0.11	-0.11	1.16
4,481.0	0.90	259.10	4,480.2	12.5	-9.2	-3.4	0.02	0.00	1.05



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4,577.0	1.00	256.90	4,576.2	12.2	-10.7	-5.0	0.11	0.10	-2.29
4,672.0	1.00	258.50	4,671.2	11.8	-12.3	-6.6	0.03	0.00	1.68
4,767.0	0.80	251.40	4,766.2	11.5	-13.8	-8.1	0.24	-0.21	-7.47
4,862.0	0.80	254.50	4,861.2	11.1	-15.1	-9.4	0.05	0.00	3.26
4,956.0	1.10	255.80	4,955.2	10.7	-16.6	-10.9	0.32	0.32	1.38
5,051.0	0.70	265.20	5,050.1	10.4	-18.0	-12.4	0.45	-0.42	9.89
5,146.0	1.00	346.40	5,145.1	11.2	-18.8	-12.8	1.19	0.32	85.47
5,241.0	1.60	351.00	5,240.1	13.3	-19.2	-12.3	0.64	0.63	4.84
5,336.0	2.40	11.50	5,335.1	16.5	-19.0	-10.8	1.12	0.84	21.58
5,431.0	3.60	18.50	5,429.9	21.3	-17.7	-7.7	1.32	1.26	7.37
5,526.0	2.80	28.10	5,524.8	26.2	-15.6	-3.9	1.01	-0.84	10.11
5,621.0	2.10	11.20	5,619.7	30.0	-14.2	-1.1	1.05	-0.74	-17.79
5,716.0	3.60	6.20	5,714.6	34.6	-13.5	1.4	1.60	1.58	-5.26
5,810.0	4.00	23.00	5,808.4	40.6	-11.9	5.3	1.25	0.43	17.87
5,905.0	2.80	19.10	5,903.2	45.8	-9.9	9.2	1.29	-1.26	-4.11
5,999.0	2.70	12.70	5,997.1	50.1	-8.6	12.1	0.34	-0.11	-6.81
6,094.0	3.60	8.30	6,091.9	55.3	-7.7	15.0	0.98	0.95	-4.63
6,190.0	3.40	12.90	6,187.8	61.0	-6.7	18.3	0.36	-0.21	4.79
6,284.0	2.90	13.70	6,281.6	66.1	-5.5	21.4	0.53	-0.53	0.85
6,379.0	3.10	356.40	6,376.5	71.0	-5.1	23.7	0.97	0.21	-18.21
6,474.0	2.50	346.80	6,471.4	75.5	-5.7	24.9	0.80	-0.63	-10.11
6,569.0	3.70	354.30	6,566.2	80.6	-6.5	26.2	1.33	1.26	7.89
6,664.0	3.20	359.20	6,661.1	86.3	-6.8	28.2	0.61	-0.53	5.16
6,759.0	2.60	3.90	6,755.9	91.1	-6.7	30.2	0.68	-0.63	4.95
6,854.0	3.90	0.30	6,850.8	96.5	-6.5	32.5	1.38	1.37	-3.79
6,949.0	3.30	357.30	6,945.6	102.5	-6.7	34.8	0.66	-0.63	-3.16
7,044.0	2.30	346.10	7,040.5	107.0	-7.2	36.1	1.20	-1.05	-11.79
7,139.0	3.40	358.20	7,135.4	111.7	-7.8	37.5	1.31	1.16	12.74
7,234.0	2.30	341.50	7,230.3	116.3	-8.5	38.7	1.44	-1.16	-17.58
7,328.0	3.20	358.40	7,324.1	120.7	-9.1	39.8	1.28	0.96	17.98
7,424.0	3.90	3.00	7,420.0	126.7	-9.1	42.3	0.79	0.73	4.79
7,518.0	2.40	327.10	7,513.8	131.5	-10.0	43.4	2.56	-1.60	-38.19
7,614.0	2.30	1.20	7,609.8	135.1	-11.0	43.9	1.44	-0.10	35.52
7,708.0	2.70	16.70	7,703.7	139.1	-10.3	46.1	0.83	0.43	16.49
7,804.0	3.00	15.30	7,799.5	143.7	-9.0	49.1	0.32	0.31	-1.46
7,899.0	3.90	0.00	7,894.4	149.4	-8.4	52.0	1.35	0.95	-16.11
7,994.0	3.80	344.20	7,989.2	155.6	-9.2	53.7	1.12	-0.11	-16.63
8,089.0	3.30	332.80	8,084.0	161.1	-11.3	53.9	0.91	-0.53	-12.00
8,182.0	2.70	319.30	8,176.9	165.1	-14.0	53.1	0.99	-0.65	-14.52
8,204.9	2.25	314.76	8,199.8	165.9	-14.6	52.8	2.14	-1.96	-19.80
B.B. Ghost rider									
8,309.0	1.00	238.90	8,303.8	166.8	-16.9	51.1	2.14	-1.20	-72.89
8,340.0	6.00	174.60	8,334.7	165.1	-17.0	50.3	18.19	16.13	-207.42



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8,372.0	13.00	168.20	8,366.3	159.9	-16.1	49.1	22.09	21.88	-20.00
8,404.0	17.90	164.50	8,397.1	151.6	-14.0	47.7	15.61	15.31	-11.56
8,435.0	19.90	159.10	8,426.4	142.1	-10.9	46.8	8.56	6.45	-17.42
8,467.0	23.60	158.60	8,456.2	131.0	-6.6	46.3	11.58	11.56	-1.56
8,499.0	25.90	162.80	8,485.2	118.4	-2.2	45.3	9.04	7.19	13.13
8,530.0	27.50	167.40	8,512.9	104.9	1.4	43.2	8.43	5.16	14.84
8,562.0	31.30	174.70	8,540.8	89.4	3.8	39.2	16.30	11.88	22.81
8,594.0	33.60	178.00	8,567.8	72.3	4.9	33.3	9.07	7.19	10.31
8,625.0	36.00	179.00	8,593.3	54.6	5.3	26.7	7.96	7.74	3.23
8,656.0	38.00	179.00	8,618.0	36.0	5.6	19.5	6.45	6.45	0.00
8,687.0	40.30	182.80	8,642.1	16.4	5.3	11.4	10.72	7.42	12.26
8,719.0	45.70	185.30	8,665.5	-5.3	3.7	1.3	17.69	16.88	7.81
8,750.0	51.10	183.60	8,686.0	-28.5	2.0	-9.6	17.89	17.42	-5.48
8,782.0	54.10	182.30	8,705.5	-53.8	0.7	-20.9	9.91	9.38	-4.06
8,814.0	58.90	180.20	8,723.1	-80.5	0.1	-32.0	15.97	15.00	-6.56
8,845.0	63.20	179.20	8,738.1	-107.6	0.2	-42.7	14.16	13.87	-3.23
8,877.0	69.10	177.60	8,751.1	-136.9	1.1	-53.7	19.00	18.44	-5.00
8,900.0	73.90	178.00	8,758.4	-158.7	1.9	-61.6	20.93	20.87	1.74
8,967.0	80.00	180.00	8,773.5	-223.9	3.0	-86.6	9.56	9.10	2.99
8,999.0	82.90	180.40	8,778.2	-255.5	2.9	-99.3	9.15	9.06	1.25
9,031.0	84.10	179.90	8,781.9	-287.3	2.8	-112.1	4.06	3.75	-1.56
9,062.0	85.60	180.20	8,784.6	-318.2	2.8	-124.4	4.93	4.84	0.97
9,094.0	88.00	180.50	8,786.4	-350.1	2.6	-137.4	7.56	7.50	0.94
9,188.0	90.60	181.80	8,787.6	-444.1	0.7	-176.6	3.09	2.77	1.38
9,224.1	91.20	181.91	8,787.0	-480.2	-0.4	-192.1	1.70	1.67	0.31
LP Ghost rider 25/36 W0DM Fed Com2H									
9,284.0	92.20	182.10	8,785.2	-540.0	-2.5	-217.9	1.70	1.67	0.31
9,380.0	90.00	182.40	8,783.4	-635.9	-6.3	-259.6	2.31	-2.29	0.31
9,475.0	91.40	182.80	8,782.2	-730.8	-10.6	-301.5	1.53	1.47	0.42
9,570.0	86.20	181.00	8,784.2	-825.7	-13.8	-342.2	5.79	-5.47	-1.89
9,666.0	87.30	180.60	8,789.7	-921.5	-15.1	-381.7	1.22	1.15	-0.42
9,761.0	92.10	181.00	8,790.1	-1,016.5	-16.4	-420.8	5.07	5.05	0.42
9,856.0	90.40	179.60	8,788.1	-1,111.5	-16.9	-459.2	2.32	-1.79	-1.47
9,951.0	90.40	179.90	8,787.4	-1,206.5	-16.5	-496.7	0.32	0.00	0.32
10,046.0	89.80	180.30	8,787.2	-1,301.5	-16.7	-534.8	0.76	-0.63	0.42
10,141.0	90.70	180.40	8,786.8	-1,396.5	-17.3	-573.3	0.95	0.95	0.11
10,235.0	88.30	180.00	8,787.7	-1,490.4	-17.6	-611.1	2.59	-2.55	-0.43
10,329.0	90.20	178.70	8,788.9	-1,584.4	-16.5	-647.6	2.45	2.02	-1.38
10,425.0	91.20	179.30	8,787.7	-1,680.4	-14.8	-684.4	1.21	1.04	0.63
10,520.0	93.80	179.90	8,783.6	-1,775.3	-14.2	-721.7	2.81	2.74	0.63
10,614.0	90.70	179.10	8,779.9	-1,869.2	-13.4	-758.4	3.41	-3.30	-0.85
10,710.0	89.60	178.20	8,779.6	-1,965.2	-11.1	-794.6	1.48	-1.15	-0.94
10,805.0	90.30	178.30	8,779.7	-2,060.1	-8.2	-829.9	0.74	0.74	0.11

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Design: Original Hole

Local Co-ordinate Reference: Well Ghost rider 25-36 W0DM Fed Com 2H
TVD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
MD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
10,900.0	86.90	179.30	8,782.0	-2,155.1	-6.2	-866.0	3.73	-3.58	1.05
10,995.0	91.30	180.10	8,783.5	-2,250.0	-5.7	-903.4	4.71	4.63	0.84
11,090.0	89.10	179.20	8,783.2	-2,345.0	-5.1	-940.8	2.50	-2.32	-0.95
11,185.0	91.50	179.40	8,782.7	-2,440.0	-4.0	-977.7	2.54	2.53	0.21
11,280.0	92.00	180.80	8,779.8	-2,535.0	-4.1	-1,015.7	1.56	0.53	1.47
11,374.0	90.90	180.40	8,777.4	-2,628.9	-5.1	-1,054.1	1.25	-1.17	-0.43
11,469.0	87.50	181.00	8,778.7	-2,723.9	-6.3	-1,093.1	3.63	-3.58	0.63
11,564.0	89.50	181.00	8,781.2	-2,818.8	-7.9	-1,132.5	2.11	2.11	0.00
11,658.0	90.20	180.80	8,781.5	-2,912.8	-9.4	-1,171.4	0.77	0.74	-0.21
11,754.0	91.10	180.20	8,780.4	-3,008.8	-10.3	-1,210.5	1.13	0.94	-0.63
11,848.0	88.90	180.20	8,780.4	-3,102.8	-10.6	-1,248.3	2.34	-2.34	0.00
11,944.0	88.80	181.10	8,782.3	-3,198.8	-11.7	-1,287.6	0.94	-0.10	0.94
12,039.0	89.80	181.70	8,783.5	-3,293.7	-14.0	-1,327.6	1.23	1.05	0.63
12,134.0	90.10	182.90	8,783.6	-3,388.7	-17.8	-1,369.0	1.30	0.32	1.26
12,229.0	90.80	183.20	8,782.8	-3,483.5	-22.9	-1,411.5	0.80	0.74	0.32
12,324.0	88.70	182.80	8,783.2	-3,578.4	-27.8	-1,454.0	2.25	-2.21	-0.42
12,419.0	92.30	183.40	8,782.4	-3,673.2	-33.0	-1,496.5	3.84	3.79	0.63
12,515.0	90.40	182.20	8,780.1	-3,769.1	-37.7	-1,539.1	2.34	-1.98	-1.25
12,610.0	89.50	179.40	8,780.2	-3,864.1	-39.0	-1,578.2	3.10	-0.95	-2.95
12,706.0	89.50	177.90	8,781.1	-3,960.0	-36.7	-1,614.5	1.56	0.00	-1.56
12,801.0	88.60	178.10	8,782.6	-4,055.0	-33.4	-1,649.3	0.97	-0.95	0.21
12,896.0	88.90	176.70	8,784.7	-4,149.8	-29.1	-1,683.2	1.51	0.32	-1.47
12,991.0	89.10	177.70	8,786.4	-4,244.7	-24.5	-1,716.8	1.07	0.21	1.05
13,086.0	90.50	176.70	8,786.7	-4,339.6	-19.8	-1,750.5	1.81	1.47	-1.05
13,181.0	88.70	176.90	8,787.4	-4,434.4	-14.5	-1,783.5	1.91	-1.89	0.21
13,276.0	94.20	178.70	8,784.9	-4,529.3	-10.9	-1,818.0	6.09	5.79	1.89
13,371.0	94.90	179.30	8,777.4	-4,624.0	-9.2	-1,854.3	0.97	0.74	0.63
13,466.0	93.90	180.40	8,770.1	-4,718.7	-9.0	-1,891.9	1.56	-1.05	1.16
13,561.0	84.70	180.50	8,771.3	-4,813.6	-9.7	-1,930.4	9.68	-9.68	0.11
13,656.0	84.20	181.00	8,780.5	-4,908.1	-10.9	-1,969.3	0.74	-0.53	0.53
13,752.0	85.40	181.50	8,789.2	-5,003.7	-13.0	-2,009.4	1.35	1.25	0.52
13,783.0	85.30	181.70	8,791.7	-5,034.6	-13.9	-2,022.5	0.72	-0.32	0.65
13,815.0	85.30	182.20	8,794.3	-5,066.5	-15.0	-2,036.2	1.56	0.00	1.56
13,847.0	87.50	182.50	8,796.3	-5,098.4	-16.3	-2,050.1	6.94	6.88	0.94
13,878.0	88.50	182.50	8,797.4	-5,129.3	-17.6	-2,063.7	3.23	3.23	0.00
13,910.0	88.70	182.50	8,798.2	-5,161.3	-19.0	-2,077.8	0.63	0.63	0.00
13,942.0	88.20	182.30	8,799.0	-5,193.3	-20.4	-2,091.8	1.68	-1.56	-0.63
13,973.0	88.60	181.80	8,799.9	-5,224.2	-21.5	-2,105.1	2.07	1.29	-1.61
14,005.0	88.20	180.50	8,800.8	-5,256.2	-22.1	-2,118.5	4.25	-1.25	-4.06
14,037.0	88.90	181.00	8,801.6	-5,288.2	-22.5	-2,131.6	2.69	2.19	1.56
14,069.0	91.30	181.30	8,801.6	-5,320.2	-23.2	-2,145.0	7.56	7.50	0.94
14,100.0	91.20	181.30	8,800.9	-5,351.2	-23.9	-2,158.0	0.32	-0.32	0.00



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 25-36-23S-26E Ghost rider 25 W0DM Fed Com2H
Well: Ghost rider 25-36 W0DM Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Ghost rider 25-36 W0DM Fed Com 2H
TVD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
MD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
14,131.0	91.30	181.20	8,800.2	-5,382.1	-24.6	-2,171.0	0.46	0.32	-0.32
14,227.0	91.60	181.90	8,797.8	-5,478.1	-27.2	-2,211.7	0.79	0.31	0.73
14,256.0	91.70	181.90	8,796.9	-5,507.1	-28.1	-2,224.1	0.34	0.34	0.00
14,319.0	91.30	182.00	8,795.3	-5,570.0	-30.3	-2,251.2	0.65	-0.63	0.16
14,414.0	90.50	183.10	8,793.8	-5,664.9	-34.5	-2,293.0	1.43	-0.84	1.16
14,509.0	87.50	178.40	8,795.5	-5,759.8	-35.7	-2,332.0	5.87	-3.16	-4.95
14,604.0	92.30	179.10	8,795.6	-5,854.8	-33.7	-2,368.0	5.11	5.05	0.74
14,699.0	91.00	177.80	8,792.9	-5,949.7	-31.1	-2,403.5	1.93	-1.37	-1.37
14,794.0	89.40	177.40	8,792.6	-6,044.6	-27.1	-2,437.8	1.74	-1.68	-0.42
14,826.0	87.50	177.50	8,793.4	-6,076.6	-25.7	-2,449.2	5.95	-5.94	0.31
14,889.0	87.00	178.30	8,796.4	-6,139.5	-23.4	-2,472.2	1.50	-0.79	1.27
14,921.0	86.70	178.70	8,798.2	-6,171.4	-22.6	-2,484.2	1.56	-0.94	1.25
14,953.0	88.40	178.30	8,799.6	-6,203.4	-21.7	-2,496.2	5.46	5.31	-1.25
14,984.0	88.60	178.30	8,800.4	-6,234.3	-20.8	-2,507.7	0.65	0.65	0.00
15,016.0	88.80	178.00	8,801.1	-6,266.3	-19.8	-2,519.5	1.13	0.63	-0.94
15,048.0	89.80	179.00	8,801.5	-6,298.3	-18.9	-2,531.5	4.42	3.13	3.13
15,080.0	88.20	179.70	8,802.1	-6,330.3	-18.6	-2,544.0	5.46	-5.00	2.19
15,111.0	87.90	179.50	8,803.1	-6,361.3	-18.3	-2,556.1	1.16	-0.97	-0.65
15,143.0	89.90	179.60	8,803.7	-6,393.3	-18.1	-2,568.7	6.26	6.25	0.31
15,175.0	90.70	179.90	8,803.6	-6,425.3	-18.0	-2,581.3	2.67	2.50	0.94
15,207.0	90.50	180.40	8,803.2	-6,457.2	-18.0	-2,594.2	1.68	-0.63	1.56
15,270.0	89.80	180.50	8,803.1	-6,520.2	-18.5	-2,619.8	1.12	-1.11	0.16
15,366.0	88.50	179.90	8,804.5	-6,616.2	-18.9	-2,658.4	1.49	-1.35	-0.63
15,461.0	90.30	181.60	8,805.5	-6,711.2	-20.1	-2,697.5	2.61	1.89	1.79
15,556.0	90.70	181.60	8,804.7	-6,806.2	-22.8	-2,737.8	0.42	0.42	0.00
15,651.0	89.20	181.20	8,804.7	-6,901.1	-25.1	-2,777.8	1.63	-1.58	-0.42
15,747.0	88.40	177.60	8,806.7	-6,997.1	-24.1	-2,815.2	3.84	-0.83	-3.75
15,779.0	87.70	177.80	8,807.8	-7,029.1	-22.8	-2,826.8	2.27	-2.19	0.63
15,811.0	89.90	179.10	8,808.5	-7,061.0	-21.9	-2,838.8	7.99	6.88	4.06
15,843.0	92.70	179.70	8,807.8	-7,093.0	-21.6	-2,851.2	8.95	8.75	1.88
15,938.0	92.40	179.60	8,803.6	-7,187.9	-21.0	-2,888.6	0.33	-0.32	-0.11
16,034.0	92.00	180.40	8,799.9	-7,283.9	-21.0	-2,926.9	0.93	-0.42	0.83
16,128.0	89.50	179.70	8,798.6	-7,377.8	-21.1	-2,964.5	2.76	-2.66	-0.74
16,223.0	92.70	179.80	8,796.8	-7,472.8	-20.7	-3,002.0	3.37	3.37	0.11
16,319.0	93.30	180.40	8,791.8	-7,568.7	-20.9	-3,040.4	0.88	0.63	0.63
16,414.0	92.40	180.80	8,787.1	-7,663.5	-21.8	-3,079.2	1.04	-0.95	0.42
16,508.0	91.40	181.60	8,783.9	-7,757.5	-23.8	-3,118.5	1.36	-1.06	0.85
16,603.0	89.80	181.00	8,783.0	-7,852.4	-26.0	-3,158.4	1.80	-1.68	-0.63
16,697.0	87.40	180.60	8,785.2	-7,946.4	-27.3	-3,197.1	2.59	-2.55	-0.43
16,729.0	87.20	180.50	8,786.8	-7,978.4	-27.6	-3,210.1	0.70	-0.63	-0.31
16,792.0	88.70	181.60	8,789.0	-8,041.3	-28.7	-3,236.3	2.95	2.38	1.75
16,890.0	89.20	182.30	8,790.8	-8,139.2	-32.1	-3,278.5	0.88	0.51	0.71
16,985.0	89.20	183.40	8,792.1	-8,234.1	-36.8	-3,320.7	1.16	0.00	1.16

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 25-36-23S-26E Ghost rider 25 W0DM Fed Com2H
Well: Ghost rider 25-36 W0DM Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Ghost rider 25-36 W0DM Fed Com 2H
TVD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
MD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
17,080.0	94.50	185.60	8,789.1	-8,328.7	-44.2	-3,365.3	6.04	5.58	2.32
17,112.0	93.80	185.60	8,786.8	-8,360.5	-47.4	-3,380.8	2.19	-2.19	0.00
17,176.0	92.00	184.40	8,783.5	-8,424.2	-52.9	-3,411.3	3.38	-2.81	-1.88
17,271.0	91.50	182.70	8,780.6	-8,518.9	-58.8	-3,454.5	1.86	-0.53	-1.79
17,367.0	89.50	182.00	8,779.8	-8,614.8	-62.7	-3,496.4	2.21	-2.08	-0.73
17,462.0	88.80	182.90	8,781.2	-8,709.7	-66.8	-3,538.0	1.20	-0.74	0.95
17,557.0	87.60	181.30	8,784.2	-8,804.6	-70.3	-3,579.1	2.10	-1.26	-1.68
17,589.0	87.60	182.00	8,785.5	-8,836.6	-71.2	-3,592.7	2.19	0.00	2.19
17,620.0	87.00	180.30	8,787.0	-8,867.5	-71.8	-3,605.6	5.81	-1.94	-5.48
17,652.0	86.40	179.50	8,788.8	-8,899.5	-71.8	-3,618.3	3.12	-1.88	-2.50
17,684.0	87.50	179.50	8,790.5	-8,931.4	-71.5	-3,630.8	3.44	3.44	0.00
17,716.0	86.20	179.60	8,792.3	-8,963.4	-71.2	-3,643.4	4.07	-4.06	0.31
17,748.0	85.50	179.70	8,794.6	-8,995.3	-71.0	-3,655.9	2.21	-2.19	0.31
17,779.0	86.80	178.30	8,796.7	-9,026.2	-70.5	-3,667.8	6.16	4.19	-4.52
17,811.0	87.70	178.30	8,798.2	-9,058.2	-69.6	-3,679.7	2.81	2.81	0.00
17,843.0	87.30	178.30	8,799.6	-9,090.1	-68.6	-3,691.5	1.25	-1.25	0.00
17,874.0	88.60	178.30	8,800.7	-9,121.1	-67.7	-3,703.1	4.19	4.19	0.00
17,906.0	88.90	178.30	8,801.4	-9,153.1	-66.7	-3,715.0	0.94	0.94	0.00
17,938.0	92.80	179.10	8,800.9	-9,185.1	-66.0	-3,727.1	12.44	12.19	2.50
17,970.0	93.20	179.20	8,799.3	-9,217.0	-65.5	-3,739.4	1.29	1.25	0.31
18,001.0	92.50	179.30	8,797.7	-9,248.0	-65.1	-3,751.4	2.28	-2.26	0.32
18,033.0	90.60	178.80	8,796.9	-9,279.9	-64.6	-3,763.6	6.14	-5.94	-1.56
18,065.0	90.00	178.70	8,796.7	-9,311.9	-63.9	-3,775.8	1.90	-1.88	-0.31
18,096.0	89.60	178.70	8,796.8	-9,342.9	-63.2	-3,787.5	1.29	-1.29	0.00
18,128.0	89.00	178.50	8,797.2	-9,374.9	-62.4	-3,799.6	1.98	-1.88	-0.63
18,159.0	88.80	178.50	8,797.8	-9,405.9	-61.6	-3,811.2	0.65	-0.65	0.00
18,223.0	91.90	179.50	8,797.4	-9,469.9	-60.5	-3,835.7	5.09	4.84	1.56
18,318.0	91.20	179.50	8,794.8	-9,564.8	-59.7	-3,872.8	0.74	-0.74	0.00
18,413.0	88.00	178.50	8,795.5	-9,659.8	-58.0	-3,909.2	3.53	-3.37	-1.05
18,508.0	90.40	176.70	8,796.8	-9,754.7	-54.0	-3,943.5	3.16	2.53	-1.89
18,603.0	90.90	177.60	8,795.7	-9,849.6	-49.3	-3,977.0	1.08	0.53	0.95
18,698.0	91.10	179.20	8,794.1	-9,944.5	-46.7	-4,012.5	1.70	0.21	1.68
18,801.0	92.70	181.10	8,790.7	-10,047.5	-46.9	-4,053.8	2.41	1.55	1.84
18,852.0	92.70	181.10	8,788.3	-10,098.4	-47.9	-4,075.0	0.00	0.00	0.00

18852' MD Projected to Bit - PBHL Ghost rider 25/36 W0DM Fed Com 2H



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 25-36-23S-26E Ghost rider 25 W0DM
Fed Com2H
Well: Ghost rider 25-36 W0DM Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Ghost rider 25-36 W0DM Fed Com 2H
TVD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
MD Reference: 3240 + 27 @ 3267.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
485.0	484.9	0.2	9.0	485' MD Rig Surveys
18,852.0	8,788.3	-10,098.4	-47.9	18852' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Ghost rider 25-36 W0DM Fed Com 2H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 231



Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 7.22°

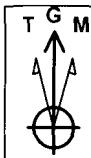
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001
3240 + 27 @ 3267.0usft (Patterson 231)
GROUND ELEVATION: 3240.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	466383.60	524810.50	32° 16' 55.847 N	104° 15' 10.985 W	

PLAN SECTIONS

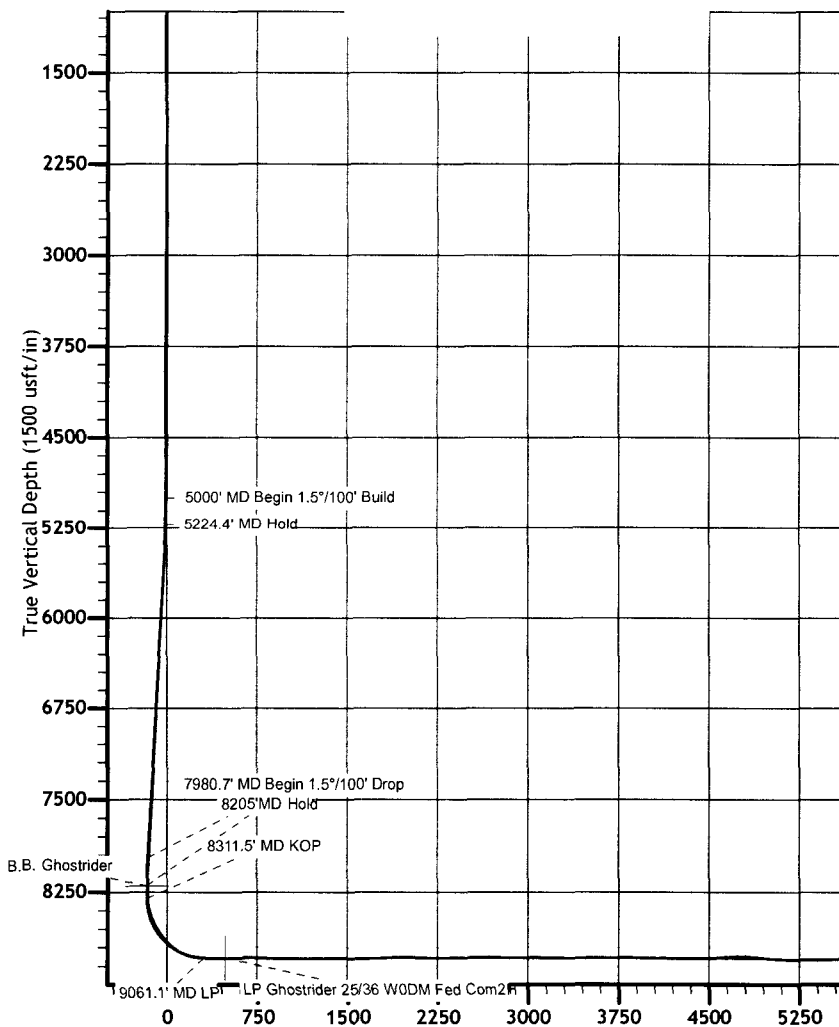
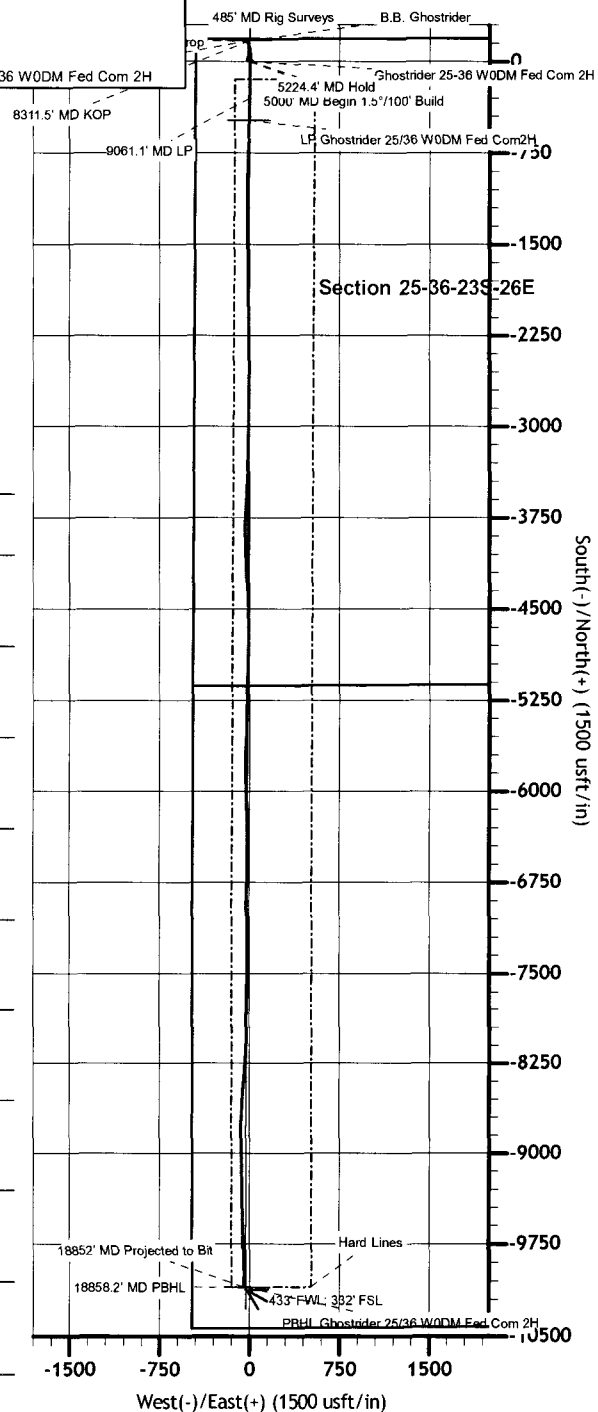
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	
3	5224.4	3.37	0.32	5224.2	6.6	0.0	1.50	0.32	-6.6	
4	7980.7	3.37	0.32	7975.8	168.4	0.9	0.00	0.00	-168.4	
5	8205.0	0.00	0.00	8200.0	175.0	1.0	1.50	180.00	-175.0	B.B. Ghost rider
6	8311.5	0.00	0.00	8306.5	175.0	1.0	0.00	0.00	-175.0	
7	9061.1	89.95	180.18	8784.0	-302.0	-0.5	12.00	180.18	302.0	
8	18858.2	89.95	180.18	8793.0	-10099.1	-31.0	0.00	0.00	10099.1	PBHL Ghost rider 25/36 W0DM Fed Com 2H



Azimuths to Grid North
True North: -0.04°
Magnetic North: 7.22°

Magnetic Field
Strength: 47893.1snT
Dip Angle: 60.00°
Date: 7/13/2017
Model: IGRF2015

SHL 185' FNL; 450' FWL
Section 25-23S-26E
PBHL 330' FSL; 450" FWL
Section 36-23S-26E



Vertical Section at 180.18° (1500 usft/in)