



30-015-41660

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 35 26 23-24S-28E Rustler Breaks 26/23 W0ML

Rustler Breaks 26/23 W0ML Fee Com #2H

Original Hole

Design: Original Hole

Standard Survey Report

07 February, 2019



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rustler Breaks 26/23 W0ML Fee Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2969 + 27 @ 2996.0usft (Patterson 242)
Site:	Section 35 26 23-24S-28E Rustler Breaks 26/23 W0ML	MD Reference:	2969 + 27 @ 2996.0usft (Patterson 242)
Well:	Rustler Breaks 26/23 W0ML Fee Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Section 35 26 23-24S-28E Rustler Breaks 26/23 W0ML			
Site Position:		Northing:	429,580.90 usft	Latitude:	32° 10' 50.562 N
From:	Map	Easting:	624,276.00 usft	Longitude:	104° 3' 54.910 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well		Rustler Breaks 26/23 W0ML Fee Com #2H				
Well Position	+N/-S	0.0 usft	Northing:	429,580.90 usft	Latitude:	32° 10' 50.562 N
	+E/-W	0.0 usft	Easting:	624,276.00 usft	Longitude:	104° 3' 54.910 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,969.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/26/18	7.01	59.92	47,706.55557237

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	285.82

Survey Program		Date	02/07/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	595.0	Phoenix Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
719.0	17,330.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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
100.0	0.72	244.17	100.0	-0.3	-0.6	0.5	0.72	0.72	0.00
200.0	1.26	289.56	200.0	-0.2	-2.2	2.0	0.91	0.54	45.39
300.0	1.76	291.52	299.9	0.8	-4.6	4.7	0.50	0.50	1.96
400.0	1.59	292.55	399.9	1.8	-7.3	7.6	0.17	-0.17	1.03
500.0	1.44	286.27	499.9	2.7	-9.8	10.2	0.22	-0.15	-6.28
595.0	0.83	289.41	594.9	3.3	-11.6	12.1	0.65	-0.64	3.31
595.0' MD Phoenix Gyro									
719.0	1.30	284.30	718.8	3.9	-13.8	14.4	0.39	0.38	-4.12

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
846.0	1.70	286.90	845.8	4.8	-17.0	17.7	0.32	0.31	2.05
1,036.0	2.40	123.10	1,035.7	3.5	-16.4	16.7	2.14	0.37	-86.21
1,226.0	2.50	125.70	1,225.6	-1.1	-9.7	9.0	0.08	0.05	1.37
1,416.0	2.50	123.40	1,415.4	-5.8	-2.9	1.2	0.05	0.00	-1.21
1,605.0	0.60	51.40	1,604.3	-7.5	1.3	-3.3	1.26	-1.01	-38.10
1,702.0	0.70	28.20	1,701.3	-6.6	2.0	-3.7	0.29	0.10	-23.92
1,890.0	1.50	93.80	1,889.3	-5.8	5.0	-6.4	0.73	0.43	34.89
2,078.0	3.10	104.00	2,077.1	-7.2	12.4	-13.9	0.88	0.85	5.43
2,266.0	2.40	127.00	2,264.9	-10.8	20.5	-22.6	0.69	-0.37	12.23
2,454.0	1.20	119.70	2,452.8	-14.1	25.3	-28.2	0.65	-0.64	-3.88
2,585.0	0.90	127.50	2,583.8	-15.4	27.3	-30.5	0.25	-0.23	5.95
2,737.0	1.10	123.90	2,735.8	-16.9	29.5	-33.0	0.14	0.13	-2.37
2,925.0	1.20	16.00	2,923.8	-16.1	31.5	-34.7	0.99	0.05	-57.39
3,113.0	1.10	345.50	3,111.7	-12.4	31.6	-33.8	0.33	-0.05	-16.22
3,301.0	1.40	351.40	3,299.7	-8.4	30.8	-32.0	0.17	0.16	3.14
3,489.0	1.20	340.70	3,487.6	-4.3	29.8	-29.9	0.17	-0.11	-5.69
3,676.0	1.20	326.00	3,674.6	-0.8	28.1	-27.3	0.16	0.00	-7.86
3,864.0	1.50	319.80	3,862.5	2.7	25.4	-23.7	0.18	0.16	-3.30
4,051.0	1.20	312.10	4,049.5	5.9	22.4	-19.9	0.19	-0.16	-4.12
4,239.0	2.00	349.30	4,237.4	10.4	20.3	-16.7	0.68	0.43	19.79
4,427.0	2.20	346.20	4,425.3	17.2	18.8	-13.4	0.12	0.11	-1.65
4,615.0	1.80	342.80	4,613.2	23.5	17.1	-10.1	0.22	-0.21	-1.81
4,803.0	1.40	330.30	4,801.1	28.3	15.1	-6.8	0.28	-0.21	-6.65
4,991.0	1.50	329.40	4,989.0	32.4	12.7	-3.4	0.05	0.05	-0.48
5,178.0	1.10	331.10	5,176.0	36.1	10.6	-0.3	0.21	-0.21	0.91
5,366.0	1.90	17.20	5,363.9	40.7	10.6	0.8	0.74	0.43	24.52
5,554.0	1.60	11.10	5,551.8	46.2	12.1	1.0	0.19	-0.16	-3.24
5,742.0	1.50	9.40	5,739.8	51.2	13.0	1.5	0.06	-0.05	-0.90
5,929.0	1.30	18.60	5,926.7	55.6	14.1	1.7	0.16	-0.11	4.92
6,117.0	1.20	16.10	6,114.7	59.5	15.3	1.5	0.06	-0.05	-1.33
6,305.0	0.80	30.70	6,302.6	62.6	16.5	1.2	0.25	-0.21	7.77
6,493.0	0.50	9.20	6,490.6	64.5	17.3	1.0	0.20	-0.16	-11.44
6,680.0	0.60	59.10	6,677.6	65.8	18.3	0.4	0.25	0.05	26.68
6,866.0	1.10	97.20	6,863.6	66.1	20.9	-2.1	0.39	0.27	20.48
7,054.0	1.10	148.30	7,051.6	64.3	23.6	-5.2	0.50	0.00	27.18
7,242.0	0.40	134.80	7,239.6	62.3	25.0	-7.1	0.38	-0.37	-7.18
7,430.0	1.00	61.00	7,427.5	62.7	26.9	-8.8	0.51	0.32	-39.26
7,619.0	2.50	83.50	7,616.4	63.9	32.5	-13.8	0.86	0.79	11.90
7,806.0	2.20	96.90	7,803.3	64.0	40.1	-21.1	0.33	-0.16	7.17
7,994.0	2.80	119.40	7,991.1	61.3	47.7	-29.1	0.61	0.32	11.97
8,181.0	2.90	124.30	8,177.9	56.4	55.5	-38.1	0.14	0.05	2.62
8,369.0	2.50	130.90	8,365.7	51.0	62.6	-46.3	0.27	-0.21	3.51

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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)
8,558.0	1.90	153.40	8,554.5	45.5	67.1	-52.1	0.55	-0.32	11.90
8,746.0	3.00	188.20	8,742.4	37.8	67.8	-54.9	0.96	0.59	18.51
8,934.0	2.00	188.80	8,930.2	29.7	66.6	-56.0	0.53	-0.53	0.32
9,001.7	1.96	190.33	8,997.9	27.4	66.2	-56.2	0.10	-0.06	2.26
B.B. Rustler Breaks 26/23 W0ML Fee Com 2H									
9,114.0	1.90	193.00	9,110.1	23.7	65.4	-56.5	0.10	-0.05	2.38
9,144.0	1.10	176.20	9,140.1	22.9	65.3	-56.6	3.02	-2.67	-56.00
9,175.0	0.90	327.10	9,171.1	22.9	65.2	-56.5	6.25	-0.65	486.77
9,207.0	4.40	349.10	9,203.0	24.3	64.9	-55.8	11.19	10.94	68.75
9,238.0	7.90	349.30	9,233.9	27.5	64.2	-54.3	11.29	11.29	0.65
9,269.0	10.20	350.60	9,264.5	32.3	63.4	-52.2	7.45	7.42	4.19
9,300.0	13.70	349.90	9,294.8	38.7	62.3	-49.4	11.30	11.29	-2.26
9,332.0	15.30	352.10	9,325.8	46.6	61.1	-46.0	5.29	5.00	6.88
9,359.0	19.90	355.30	9,351.5	54.7	60.2	-43.0	17.40	17.04	11.85
9,390.0	23.60	356.90	9,380.3	66.1	59.4	-39.1	12.09	11.94	5.16
9,421.0	28.40	357.50	9,408.1	79.7	58.8	-34.8	15.51	15.48	1.94
9,453.0	33.70	357.10	9,435.5	96.2	58.0	-29.6	16.57	16.56	-1.25
9,484.0	39.30	355.70	9,460.5	114.6	56.8	-23.4	18.26	18.06	-4.52
9,515.0	44.40	355.10	9,483.5	135.2	55.1	-16.2	16.50	16.45	-1.94
9,546.0	48.00	355.10	9,505.0	157.5	53.2	-8.3	11.61	11.61	0.00
9,577.0	51.50	355.40	9,525.0	181.1	51.3	0.0	11.31	11.29	0.97
9,609.0	55.60	356.30	9,544.0	206.7	49.4	8.8	13.01	12.81	2.81
9,640.0	59.30	356.60	9,560.7	232.8	47.8	17.5	11.96	11.94	0.97
9,671.0	63.10	356.70	9,575.6	259.9	46.2	26.4	12.26	12.26	0.32
9,702.0	66.80	356.50	9,588.8	287.9	44.6	35.7	11.95	11.94	-0.65
9,734.0	70.90	356.20	9,600.3	317.7	42.7	45.6	12.84	12.81	-0.94
9,765.0	75.00	356.10	9,609.4	347.3	40.7	55.6	13.23	13.23	-0.32
9,773.0	76.00	356.30	9,611.4	355.0	40.1	58.2	12.73	12.50	2.50
9,842.0	81.60	357.90	9,624.8	422.6	36.7	79.9	8.43	8.12	2.32
9,935.0	88.80	357.20	9,632.6	515.1	32.8	108.9	7.78	7.74	-0.75
9,960.5	89.26	357.42	9,633.0	540.6	31.6	117.0	2.00	1.81	0.85
LP Rustler Breaks 26/23 W0ML Fee Com 2H									
10,029.0	90.50	358.00	9,633.1	609.0	28.8	138.3	2.00	1.81	0.85
10,124.0	91.50	358.30	9,631.5	704.0	25.8	167.2	1.10	1.05	0.32
10,218.0	91.30	358.30	9,629.2	797.9	23.0	195.5	0.21	-0.21	0.00
10,311.0	91.20	358.00	9,627.2	890.8	20.0	223.7	0.34	-0.11	-0.32
10,404.0	89.40	358.00	9,626.7	983.8	16.7	252.2	1.94	-1.94	0.00
10,498.0	90.10	358.20	9,627.1	1,077.7	13.6	280.8	0.77	0.74	0.21
10,592.0	89.80	358.60	9,627.2	1,171.7	11.0	308.9	0.53	-0.32	0.43
10,685.0	91.10	359.00	9,626.4	1,264.6	9.0	336.1	1.46	1.40	0.43
10,779.0	89.70	359.20	9,625.8	1,358.6	7.6	363.2	1.50	-1.49	0.21
10,873.0	89.00	359.00	9,626.8	1,452.6	6.1	390.2	0.77	-0.74	-0.21
10,968.0	90.50	359.60	9,627.3	1,547.6	4.9	417.3	1.70	1.58	0.63

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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey										
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11,061.0	91.00	359.70	9,626.0	1,640.6	4.4	443.2	0.55	0.54	0.11	
11,155.0	92.10	0.00	9,623.5	1,734.6	4.1	469.0	1.21	1.17	0.32	
11,249.0	90.90	359.00	9,621.0	1,828.5	3.3	495.4	1.66	-1.28	-1.06	
11,343.0	92.10	359.50	9,618.6	1,922.5	2.1	522.2	1.38	1.28	0.53	
11,437.0	90.80	359.50	9,616.2	2,016.4	1.3	548.6	1.38	-1.38	0.00	
11,531.0	88.50	358.60	9,616.8	2,110.4	-0.3	575.8	2.63	-2.45	-0.96	
11,625.0	90.40	359.20	9,617.7	2,204.4	-2.1	603.1	2.12	2.02	0.64	
11,720.0	89.50	358.70	9,617.8	2,299.4	-3.9	630.7	1.08	-0.95	-0.53	
11,814.0	89.90	359.00	9,618.3	2,393.3	-5.7	658.1	0.53	0.43	0.32	
11,908.0	90.10	359.60	9,618.3	2,487.3	-6.9	684.9	0.67	0.21	0.64	
12,001.0	91.30	359.80	9,617.1	2,580.3	-7.4	710.7	1.31	1.29	0.22	
12,095.0	90.70	359.50	9,615.5	2,674.3	-7.9	736.9	0.71	-0.64	-0.32	
12,189.0	89.30	358.90	9,615.5	2,768.3	-9.3	763.8	1.62	-1.49	-0.64	
12,283.0	90.70	359.50	9,615.5	2,862.3	-10.6	790.7	1.62	1.49	0.64	
12,378.0	90.60	359.90	9,614.4	2,957.3	-11.1	817.1	0.43	-0.11	0.42	
12,471.0	90.20	359.60	9,613.7	3,050.3	-11.5	842.8	0.54	-0.43	-0.32	
12,564.0	90.40	0.50	9,613.3	3,143.3	-11.4	868.1	0.99	0.22	0.97	
12,658.0	91.20	359.80	9,611.9	3,237.3	-11.1	893.5	1.13	0.85	-0.74	
12,752.0	91.80	0.10	9,609.5	3,331.2	-11.2	919.2	0.71	0.64	0.32	
12,845.0	91.10	359.80	9,607.1	3,424.2	-11.3	944.6	0.82	-0.75	-0.32	
12,939.0	90.30	359.70	9,606.0	3,518.2	-11.7	970.6	0.86	-0.85	-0.11	
13,033.0	89.90	0.20	9,605.8	3,612.2	-11.8	996.3	0.68	-0.43	0.53	
13,127.0	91.30	2.60	9,604.8	3,706.2	-9.5	1,019.8	2.96	1.49	2.55	
13,221.0	88.10	0.80	9,605.3	3,800.1	-6.7	1,042.7	3.91	-3.40	-1.91	
13,320.0	88.90	0.80	9,607.9	3,899.0	-5.3	1,068.3	0.81	0.81	0.00	
13,414.0	89.70	359.20	9,609.1	3,993.0	-5.3	1,094.0	1.90	0.85	-1.70	
13,508.0	91.60	358.20	9,608.0	4,087.0	-7.5	1,121.6	2.28	2.02	-1.06	
13,603.0	88.90	357.00	9,607.6	4,181.9	-11.4	1,151.4	3.11	-2.84	-1.26	
13,697.0	91.40	357.00	9,607.3	4,275.8	-16.4	1,181.7	2.66	2.66	0.00	
13,791.0	88.60	355.90	9,607.3	4,369.6	-22.2	1,212.9	3.20	-2.98	-1.17	
13,885.0	91.30	357.20	9,607.4	4,463.4	-27.8	1,243.9	3.19	2.87	1.38	
13,980.0	91.20	357.80	9,605.4	4,558.3	-32.0	1,273.7	0.64	-0.11	0.63	
14,074.0	91.60	359.80	9,603.1	4,652.2	-34.0	1,301.3	2.17	0.43	2.13	
14,168.0	91.30	359.10	9,600.7	4,746.2	-34.9	1,327.7	0.81	-0.32	-0.74	
14,263.0	87.90	357.50	9,601.3	4,841.1	-37.7	1,356.3	3.96	-3.58	-1.68	
14,357.0	91.90	0.40	9,601.5	4,935.1	-39.4	1,383.6	5.26	4.26	3.09	
14,452.0	91.50	0.80	9,598.7	5,030.0	-38.4	1,408.6	0.60	-0.42	0.42	
14,545.0	91.60	1.10	9,596.2	5,123.0	-36.9	1,432.4	0.34	0.11	0.32	
14,640.0	91.60	1.30	9,593.5	5,217.9	-34.9	1,456.4	0.21	0.00	0.21	
14,733.0	90.60	0.90	9,591.7	5,310.9	-33.1	1,480.0	1.16	-1.08	-0.43	
14,828.0	89.30	359.80	9,591.8	5,405.9	-32.5	1,505.4	1.79	-1.37	-1.16	
14,921.0	89.10	359.90	9,593.1	5,498.9	-32.7	1,531.0	0.24	-0.22	0.11	
15,015.0	91.40	359.00	9,592.7	5,592.9	-33.7	1,557.5	2.63	2.45	-0.96	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rustler Breaks 26/23 W0ML Fee Com #2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2969 + 27 @ 2996.0usft (Patterson 242)
Site:	Section 35 26 23-24S-28E Rustler Breaks 26/23 W0ML	MD Reference:	2969 + 27 @ 2996.0usft (Patterson 242)
Well:	Rustler Breaks 26/23 W0ML Fee Com #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)	
15,109.0	90.80	359.10	9,590.9	5,686.8	-35.2	1,584.6	0.65	-0.64	0.11	
15,203.0	91.30	359.40	9,589.2	5,780.8	-36.4	1,611.4	0.62	0.53	0.32	
15,297.0	92.50	0.30	9,586.1	5,874.8	-36.7	1,637.3	1.60	1.28	0.96	
15,391.0	90.60	359.20	9,583.5	5,968.7	-37.1	1,663.3	2.34	-2.02	-1.17	
15,484.0	90.70	359.70	9,582.5	6,061.7	-38.0	1,689.5	0.55	0.11	0.54	
15,578.0	89.10	357.60	9,582.6	6,155.7	-40.2	1,717.2	2.81	-1.70	-2.23	
15,672.0	89.40	357.60	9,583.9	6,249.6	-44.1	1,746.6	0.32	0.32	0.00	
15,764.0	90.20	358.30	9,584.2	6,341.5	-47.4	1,774.9	1.16	0.87	0.76	
15,858.0	89.80	357.80	9,584.2	6,435.5	-50.6	1,803.6	0.68	-0.43	-0.53	
15,952.0	91.30	357.90	9,583.3	6,529.4	-54.2	1,832.6	1.60	1.60	0.11	
16,046.0	91.80	357.60	9,580.7	6,623.3	-57.8	1,861.7	0.62	0.53	-0.32	
16,140.0	91.10	357.90	9,578.4	6,717.2	-61.5	1,890.9	0.81	-0.74	0.32	
16,234.0	89.60	357.50	9,577.8	6,811.1	-65.3	1,920.1	1.65	-1.60	-0.43	
16,328.0	91.60	0.50	9,576.8	6,905.1	-66.9	1,947.3	3.84	2.13	3.19	
16,422.0	92.60	1.50	9,573.4	6,999.0	-65.3	1,971.3	1.50	1.06	1.06	
16,516.0	90.10	359.00	9,571.1	7,093.0	-64.9	1,996.6	3.76	-2.66	-2.66	
16,610.0	89.60	359.10	9,571.4	7,186.9	-66.5	2,023.7	0.54	-0.53	0.11	
16,704.0	93.30	1.50	9,569.0	7,280.9	-66.0	2,048.8	4.69	3.94	2.55	
16,798.0	91.00	358.30	9,565.5	7,374.8	-66.1	2,074.6	4.19	-2.45	-3.40	
16,892.0	89.30	357.00	9,565.2	7,468.7	-70.0	2,103.9	2.28	-1.81	-1.38	
16,985.0	91.20	358.10	9,564.8	7,561.6	-74.0	2,133.1	2.36	2.04	1.18	
17,079.0	92.00	358.50	9,562.2	7,655.5	-76.7	2,161.4	0.95	0.85	0.43	
17,172.0	91.70	358.50	9,559.2	7,748.5	-79.2	2,189.1	0.32	-0.32	0.00	
17,203.0	92.00	358.60	9,558.2	7,779.4	-80.0	2,198.3	1.02	0.97	0.32	
17,282.0	91.90	358.80	9,555.5	7,858.4	-81.8	2,221.5	0.28	-0.13	0.25	
PBHL Rustler Breaks 26/23 W0ML Fee Com 2H										
17,330.0	91.90	358.80	9,553.9	7,906.3	-82.8	2,235.6	0.00	0.00	0.00	
17330' Projected to Bit										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
595.0	594.9	3.3	-11.6	595.0' MD Phoenix Gyro	
17,330.0	9,553.9	7,906.3	-82.8	17330' Projected to Bit	