



Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 27-24S-28E Rock Spur 27 W2AP St Com 1H

Rock Spur 27 W2AP State Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

07 June, 2018

30-015-44092

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 13 2018

RECEIVED



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rock Spur 27 W2AP State Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Site:	Section 27-24S-28E Rock Spur 27 W2AP St Com 1H	MD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Well:	Rock Spur 27 W2AP State Com 1H	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 27-24S-28E Rock Spur 27 W2AP St Com 1H			
Site Position:		Northing:	434,898.70 usft	Latitude:	32° 11' 43.219 N
From:	Map	Easting:	622,932.60 usft	Longitude:	104° 4' 10.390 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well	Rock Spur 27 W2AP State Com 1H					
Well Position	+N/-S	0.0 usft	Northing:	434,898.70 usft	Latitude:	32° 11' 43.219 N
	+E/-W	0.0 usft	Easting:	622,932.60 usft	Longitude:	104° 4' 10.390 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,963.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/18/2018	7.09	59.95	47,785.44521440

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	154.74

Survey Program		Date 6/7/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
479.0	15,370.0	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)
375.0	0.43	35.98	375.0	1.6	-1.1	-1.9	0.00	0.00	0.00
479.0	0.30	317.80	479.0	2.1	-1.0	-2.4	0.45	-0.13	-75.17
540.0	0.80	292.50	540.0	2.4	-1.5	-2.8	0.89	0.82	-41.48
601.0	1.50	269.30	601.0	2.6	-2.7	-3.5	1.36	1.15	-38.03
662.0	0.50	237.00	662.0	2.4	-3.7	-3.8	1.82	-1.64	-52.95
723.0	0.70	137.40	723.0	2.0	-3.7	-3.4	1.52	0.33	-163.28
784.0	0.80	123.90	784.0	1.5	-3.1	-2.7	0.33	0.16	-22.13
845.0	1.20	119.10	844.9	0.9	-2.2	-1.8	0.67	0.66	-7.87
942.0	0.70	42.60	941.9	0.9	-0.9	-1.2	1.28	-0.52	-78.87
1,035.0	1.60	358.60	1,034.9	2.6	-0.6	-2.6	1.29	0.97	-47.31

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Well:	Rock Spur 27 W2AP State Com 1H	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)
1,129.0	0.90	283.20	1,128.9	4.1	-1.3	-4.2	1.73	-0.74	-80.21
1,222.0	2.00	254.80	1,221.9	3.8	-3.6	-5.0	1.38	1.18	-30.54
1,316.0	0.20	352.70	1,315.9	3.6	-5.2	-5.4	2.17	-1.91	104.15
1,409.0	2.10	71.10	1,408.8	4.3	-3.6	-5.4	2.22	2.04	84.30
1,503.0	1.50	53.90	1,502.8	5.5	-1.0	-5.4	0.85	-0.64	-18.30
1,596.0	1.00	242.50	1,595.8	5.9	-0.7	-5.6	2.68	-0.54	-184.30
1,690.0	3.00	234.90	1,689.7	4.1	-3.5	-5.2	2.14	2.13	-8.09
1,783.0	1.80	219.20	1,782.6	1.6	-6.4	-4.1	1.46	-1.29	-16.88
1,877.0	1.40	91.90	1,876.6	0.4	-6.2	-3.0	3.06	-0.43	-135.43
1,970.0	3.50	79.90	1,969.5	0.8	-2.2	-1.7	2.31	2.26	-12.90
2,064.0	2.20	99.90	2,063.4	1.0	2.4	0.1	1.72	-1.38	21.28
2,157.0	1.50	219.80	2,156.4	-0.2	3.4	1.6	3.46	-0.75	128.92
2,251.0	2.30	231.30	2,250.3	-2.3	1.1	2.6	0.94	0.85	12.23
2,344.0	1.10	206.40	2,343.3	-4.3	-0.8	3.6	1.49	-1.29	-26.77
2,432.0	0.90	131.40	2,431.3	-5.5	-0.6	4.7	1.40	-0.23	-85.23
2,533.0	0.70	112.40	2,532.3	-6.3	0.6	5.9	0.33	-0.20	-18.81
2,627.0	2.00	63.10	2,626.2	-5.7	2.5	6.3	1.74	1.38	-52.45
2,720.0	5.20	57.90	2,719.0	-2.8	7.6	5.7	3.46	3.44	-5.59
2,813.0	5.20	58.20	2,811.7	1.7	14.7	4.8	0.03	0.00	0.32
2,907.0	3.00	60.20	2,905.4	5.2	20.5	4.1	2.35	-2.34	2.13
3,000.0	2.20	61.80	2,998.3	7.2	24.2	3.8	0.86	-0.86	1.72
3,094.0	3.30	53.30	3,092.2	9.7	27.9	3.2	1.24	1.17	-9.04
3,187.0	4.10	50.50	3,185.0	13.4	32.6	1.8	0.88	0.86	-3.01
3,281.0	4.10	50.00	3,278.8	17.7	37.8	0.1	0.04	0.00	-0.53
3,374.0	3.80	48.10	3,371.6	21.9	42.6	-1.6	0.35	-0.32	-2.04
3,467.0	3.40	49.40	3,464.4	25.7	47.0	-3.2	0.44	-0.43	1.40
3,561.0	3.40	41.80	3,558.2	29.6	51.0	-5.0	0.48	0.00	-8.09
3,654.0	3.70	61.40	3,651.0	33.1	55.5	-6.3	1.34	0.32	21.08
3,748.0	4.60	67.20	3,744.8	36.0	61.6	-6.3	1.06	0.96	6.17
3,841.0	3.80	75.20	3,837.5	38.3	68.0	-5.6	1.06	-0.86	8.60
3,935.0	3.80	76.70	3,931.3	39.8	74.1	-4.4	0.11	0.00	1.60
4,028.0	3.40	76.80	4,024.1	41.1	79.8	-3.2	0.43	-0.43	0.11
4,121.0	3.10	70.50	4,117.0	42.6	84.8	-2.3	0.50	-0.32	-6.77
4,215.0	2.80	73.90	4,210.9	44.1	89.4	-1.7	0.37	-0.32	3.62
4,308.0	3.60	69.00	4,303.7	45.7	94.3	-1.1	0.91	0.86	-5.27
4,402.0	4.70	66.30	4,397.5	48.4	100.6	-0.8	1.19	1.17	-2.87
4,495.0	5.10	69.80	4,490.1	51.3	108.0	-0.3	0.54	0.43	3.76
4,589.0	5.40	69.00	4,583.7	54.3	116.0	0.4	0.33	0.32	-0.85
4,682.0	4.70	77.50	4,676.4	56.7	123.8	1.5	1.10	-0.75	9.14
4,776.0	4.70	88.30	4,770.1	57.7	131.4	3.9	0.94	0.00	11.49
4,870.0	3.30	87.00	4,863.8	57.9	138.0	6.5	1.49	-1.49	-1.38
4,963.0	2.70	70.10	4,956.7	58.8	142.7	7.7	1.14	-0.65	-18.17

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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)
5,057.0	3.20	57.30	5,050.6	61.0	147.0	7.6	0.88	0.53	-13.62
5,150.0	3.50	52.60	5,143.4	64.1	151.4	6.6	0.44	0.32	-5.05
5,243.0	3.00	55.10	5,236.3	67.2	155.7	5.6	0.56	-0.54	2.69
5,337.0	2.50	55.20	5,330.2	69.8	159.4	4.9	0.53	-0.53	0.11
5,430.0	3.70	50.50	5,423.0	72.9	163.4	3.8	1.32	1.29	-5.05
5,524.0	5.10	61.30	5,516.8	76.8	169.4	2.8	1.72	1.49	11.49
5,617.0	5.10	67.50	5,609.4	80.4	176.8	2.7	0.59	0.00	6.67
5,711.0	4.60	66.30	5,703.1	83.5	184.1	3.0	0.54	-0.53	-1.28
5,804.0	4.00	71.50	5,795.8	86.0	190.6	3.5	0.77	-0.65	5.59
5,898.0	4.00	74.50	5,889.6	87.9	196.9	4.5	0.22	0.00	3.19
5,991.0	3.80	72.30	5,982.3	89.7	203.0	5.4	0.27	-0.22	-2.37
6,077.0	3.80	76.10	6,068.2	91.3	208.4	6.4	0.29	0.00	4.42
6,170.0	3.60	73.20	6,161.0	92.9	214.2	7.4	0.29	-0.22	-3.12
6,264.0	4.40	62.60	6,254.7	95.4	220.3	7.7	1.16	0.85	-11.28
6,357.0	4.00	67.70	6,347.5	98.3	226.4	7.7	0.59	-0.43	5.48
6,451.0	2.60	65.70	6,441.3	100.4	231.4	7.9	1.49	-1.49	-2.13
6,545.0	3.20	57.20	6,535.2	102.7	235.6	7.6	0.78	0.64	-9.04
6,638.0	2.90	57.50	6,628.1	105.4	239.7	7.0	0.32	-0.32	0.32
6,731.0	3.40	59.40	6,720.9	108.0	244.1	6.4	0.55	0.54	2.04
6,825.0	4.60	60.10	6,814.7	111.3	249.7	5.9	1.28	1.28	0.74
6,918.0	5.60	48.60	6,907.3	116.2	256.4	4.3	1.53	1.08	-12.37
7,012.0	6.50	44.50	7,000.8	123.0	263.6	1.2	1.06	0.96	-4.36
7,106.0	6.10	48.80	7,094.2	130.1	271.0	-2.0	0.66	-0.43	4.57
7,199.0	5.80	50.90	7,186.7	136.3	278.4	-4.5	0.40	-0.32	2.26
7,293.0	4.90	52.20	7,280.3	141.8	285.3	-6.5	0.97	-0.96	1.38
7,387.0	5.90	55.40	7,373.9	147.0	292.4	-8.2	1.11	1.06	3.40
7,480.0	3.60	59.50	7,466.6	151.2	298.9	-9.2	2.50	-2.47	4.41
7,573.0	2.80	70.20	7,559.4	153.4	303.5	-9.3	1.07	-0.86	11.51
7,667.0	4.40	48.90	7,653.3	156.6	308.4	-10.0	2.19	1.70	-22.66
7,760.0	4.70	42.60	7,746.0	161.7	313.7	-12.4	0.63	0.32	-6.77
7,854.0	4.40	47.40	7,839.7	167.0	318.9	-15.0	0.52	-0.32	5.11
7,947.0	4.50	44.70	7,932.4	172.0	324.1	-17.3	0.25	0.11	-2.90
8,041.0	4.10	48.20	8,026.1	176.9	329.2	-19.5	0.51	-0.43	3.72
8,134.0	2.90	46.70	8,119.0	180.7	333.4	-21.2	1.29	-1.29	-1.61
8,228.0	2.60	53.00	8,212.8	183.6	336.8	-22.3	0.45	-0.32	6.70
8,321.0	1.80	46.60	8,305.8	185.9	339.6	-23.2	0.90	-0.86	-6.88
8,415.0	1.90	55.30	8,399.7	187.8	341.9	-23.9	0.32	0.11	9.26
8,509.0	3.00	35.30	8,493.6	190.7	344.6	-25.4	1.47	1.17	-21.28
8,602.0	4.50	28.20	8,586.4	195.9	347.8	-28.8	1.69	1.61	-7.63
8,695.0	4.90	38.50	8,679.1	202.2	352.0	-32.7	1.00	0.43	11.08
8,789.0	4.10	59.80	8,772.8	207.0	357.4	-34.8	1.96	-0.85	22.66
8,882.0	3.60	65.50	8,865.6	209.9	362.9	-35.0	0.68	-0.54	6.13
8,975.0	2.80	60.40	8,958.5	212.3	367.5	-35.2	0.91	-0.86	-5.48

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Project: Eddy County, N.M. Nad (83)
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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Rock Spur 27 W2AP State Com 1H
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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)
9,069.0	2.50	63.30	9,052.4	214.3	371.4	-35.4	0.35	-0.32	3.09
9,163.0	2.80	74.70	9,146.3	215.8	375.4	-35.0	0.64	0.32	12.13
9,256.0	2.90	76.30	9,239.2	217.0	379.9	-34.2	0.14	0.11	1.72
9,350.0	3.30	69.80	9,333.0	218.5	384.7	-33.5	0.57	0.43	-6.91
9,444.0	2.80	63.50	9,426.9	220.4	389.3	-33.3	0.64	-0.53	-6.70
9,538.0	2.10	57.70	9,520.8	222.4	392.8	-33.5	0.79	-0.74	-6.17
9,631.0	1.80	62.50	9,613.8	224.0	395.6	-33.8	0.37	-0.32	5.16
9,725.0	1.70	85.80	9,707.7	224.8	398.3	-33.4	0.76	-0.11	24.79
9,819.0	1.70	99.10	9,801.7	224.6	401.0	-32.1	0.42	0.00	14.15
9,913.0	1.80	101.50	9,895.6	224.1	403.9	-30.4	0.13	0.11	2.55
9,917.6	1.75	101.86	9,900.2	224.1	404.0	-30.3	1.03	-1.00	7.81
B.B. Rock Spur 27 W2AP St Com 1H									
10,006.0	0.90	115.80	9,988.6	223.5	406.0	-29.0	1.03	-0.97	15.77
10,086.0	3.60	163.70	10,068.5	220.8	407.2	-26.0	3.84	3.38	59.88
10,117.0	6.30	172.20	10,099.4	218.2	407.7	-23.4	9.00	8.71	27.42
10,148.0	10.10	171.70	10,130.1	213.8	408.4	-19.2	12.26	12.26	-1.61
10,179.0	14.20	173.00	10,160.4	207.4	409.2	-13.0	13.25	13.23	4.19
10,210.0	17.50	180.40	10,190.2	198.9	409.6	-5.1	12.46	10.65	23.87
10,241.0	20.20	184.20	10,219.6	188.9	409.2	3.7	9.56	8.71	12.26
10,273.0	23.60	185.80	10,249.2	177.0	408.2	14.0	10.79	10.63	5.00
10,304.0	27.30	184.80	10,277.2	163.8	406.9	25.5	12.02	11.94	-3.23
10,335.0	29.30	185.50	10,304.5	149.1	405.6	38.2	6.54	6.45	2.26
10,367.0	32.00	183.20	10,332.1	132.9	404.4	52.4	9.20	8.44	-7.19
10,398.0	36.00	181.10	10,357.7	115.6	403.8	67.7	13.45	12.90	-6.77
10,429.0	39.80	179.40	10,382.2	96.5	403.7	84.9	12.71	12.26	-5.48
10,460.0	44.10	178.00	10,405.3	75.8	404.2	103.9	14.19	13.87	-4.52
10,492.0	49.10	177.20	10,427.2	52.6	405.1	125.3	15.73	15.63	-2.50
10,523.0	52.30	177.10	10,446.9	28.6	406.3	147.5	10.33	10.32	-0.32
10,554.0	54.30	176.90	10,465.4	3.8	407.6	170.5	6.47	6.45	-0.65
10,586.0	56.20	176.10	10,483.6	-22.4	409.2	194.9	6.28	5.94	-2.50
10,617.0	58.40	175.80	10,500.4	-48.4	411.1	219.2	7.14	7.10	-0.97
10,648.0	60.70	175.60	10,516.1	-75.1	413.1	244.2	7.44	7.42	-0.65
10,679.0	63.50	175.60	10,530.6	-102.4	415.2	269.8	9.03	9.03	0.00
10,711.0	65.50	176.10	10,544.4	-131.2	417.3	296.7	6.41	6.25	1.56
10,742.0	67.90	176.80	10,556.6	-159.6	419.0	323.2	8.01	7.74	2.26
10,760.0	69.50	177.30	10,563.2	-176.4	419.9	338.7	9.26	8.89	2.78
10,828.0	73.20	177.50	10,584.9	-240.7	422.8	398.1	5.45	5.44	0.29
10,859.0	77.10	177.40	10,592.9	-270.7	424.2	425.8	12.58	12.58	-0.32
10,890.0	78.90	177.50	10,599.3	-300.9	425.5	453.7	5.82	5.81	0.32
10,921.0	79.70	178.00	10,605.1	-331.4	426.7	481.8	3.03	2.58	1.61
10,953.0	81.80	178.80	10,610.2	-363.0	427.6	510.7	7.01	6.56	2.50
10,984.0	83.90	178.60	10,614.1	-393.7	428.3	538.8	6.80	6.77	-0.65

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rock Spur 27 W2AP State Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Site:	Section 27-24S-28E Rock Spur 27 W2AP St Com 1H	MD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Well:	Rock Spur 27 W2AP State Com 1H	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)
11,015.0	85.10	179.30	10,617.0	-424.6	428.9	566.9	4.48	3.87	2.26
11,046.0	86.20	179.40	10,619.4	-455.5	429.2	595.0	3.56	3.55	0.32
11,077.0	88.10	179.40	10,620.9	-486.4	429.5	623.2	6.13	6.13	0.00
11,108.0	88.40	179.80	10,621.9	-517.4	429.7	651.3	1.61	0.97	1.29
11,161.7	89.96	180.90	10,622.6	-571.1	429.4	699.7	3.55	2.90	2.04
LP Rock Spur 27 W2AP St Com 1H									
11,201.0	91.10	181.70	10,622.3	-610.4	428.5	734.9	3.55	2.90	2.04
11,295.0	88.70	181.10	10,622.4	-704.3	426.2	818.9	2.63	-2.55	-0.64
11,388.0	85.00	179.00	10,627.5	-797.2	426.1	902.8	4.57	-3.98	-2.26
11,481.0	86.50	178.80	10,634.4	-889.9	427.9	987.4	1.63	1.61	-0.22
11,575.0	88.30	176.80	10,638.7	-983.7	431.5	1,073.8	2.86	1.91	-2.13
11,668.0	89.00	179.20	10,640.9	-1,076.6	434.8	1,159.2	2.69	0.75	2.58
11,762.0	89.10	176.50	10,642.5	-1,170.6	438.3	1,245.7	2.87	0.11	-2.87
11,855.0	91.60	175.20	10,641.9	-1,263.3	445.0	1,332.4	3.03	2.69	-1.40
11,948.0	91.30	177.60	10,639.5	-1,356.1	450.9	1,418.8	2.60	-0.32	2.58
12,042.0	92.20	180.90	10,636.7	-1,450.0	452.1	1,504.3	3.64	0.96	3.51
12,136.0	91.00	181.10	10,634.0	-1,544.0	450.5	1,588.6	1.29	-1.28	0.21
12,229.0	89.90	181.10	10,633.3	-1,636.9	448.7	1,671.9	1.18	-1.18	0.00
12,323.0	89.50	180.50	10,633.8	-1,730.9	447.4	1,756.3	0.77	-0.43	-0.64
12,416.0	88.50	179.80	10,635.4	-1,823.9	447.1	1,840.3	1.31	-1.08	-0.75
12,510.0	88.50	179.40	10,637.9	-1,917.9	447.8	1,925.6	0.43	0.00	-0.43
12,603.0	94.70	183.70	10,635.3	-2,010.7	445.3	2,008.5	8.11	6.67	4.62
12,696.0	89.80	183.20	10,631.6	-2,103.5	439.7	2,090.0	5.30	-5.27	-0.54
12,790.0	87.40	180.80	10,633.9	-2,197.4	436.4	2,173.5	3.61	-2.55	-2.55
12,883.0	90.20	182.10	10,635.9	-2,290.3	434.0	2,256.6	3.32	3.01	1.40
12,976.0	87.00	181.90	10,638.1	-2,383.2	430.8	2,339.2	3.45	-3.44	-0.22
13,070.0	86.60	181.10	10,643.4	-2,477.0	428.3	2,423.0	0.95	-0.43	-0.85
13,163.0	88.00	180.90	10,647.8	-2,569.9	426.7	2,506.3	1.52	1.51	-0.22
13,257.0	90.10	182.00	10,649.3	-2,663.9	424.3	2,590.3	2.52	2.23	1.17
13,350.0	91.30	183.10	10,648.2	-2,756.8	420.2	2,672.5	1.75	1.29	1.18
13,444.0	89.50	180.30	10,647.5	-2,850.7	417.4	2,756.3	3.54	-1.91	-2.98
13,537.0	88.70	179.80	10,649.0	-2,943.7	417.3	2,840.4	1.01	-0.86	-0.54
13,630.0	90.90	181.10	10,649.3	-3,036.7	416.6	2,924.2	2.75	2.37	1.40
13,723.0	90.10	178.20	10,648.5	-3,129.7	417.2	3,008.5	3.23	-0.86	-3.12
13,817.0	90.00	179.00	10,648.4	-3,223.6	419.5	3,094.5	0.86	-0.11	0.85
13,910.0	87.50	178.70	10,650.5	-3,316.6	421.3	3,179.3	2.71	-2.69	-0.32
14,003.0	90.80	181.00	10,651.8	-3,409.6	421.6	3,263.5	4.32	3.55	2.47
14,097.0	88.20	179.00	10,652.7	-3,503.5	421.6	3,348.5	3.49	-2.77	-2.13
14,190.0	87.40	178.00	10,656.2	-3,596.4	424.0	3,433.6	1.38	-0.86	-1.08
14,283.0	89.80	178.80	10,658.5	-3,689.4	426.6	3,518.7	2.72	2.58	0.86
14,377.0	90.50	178.80	10,658.3	-3,783.3	428.6	3,604.6	0.74	0.74	0.00
14,468.0	88.70	177.40	10,658.9	-3,874.3	431.6	3,688.1	2.51	-1.98	-1.54
14,561.0	88.40	178.00	10,661.2	-3,967.2	435.3	3,773.7	0.72	-0.32	0.65

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Rock Spur 27 W2AP State Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Site:	Section 27-24S-28E Rock Spur 27 W2AP St Com 1H	MD Reference:	2963 + 27 @ 2990.0usft (Patterson 250)
Well:	Rock Spur 27 W2AP State Com 1H	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)
14,654.0	88.40	177.90	10,663.8	-4,060.1	438.6	3,859.2	0.11	0.00	-0.11
14,747.0	88.60	178.10	10,666.3	-4,153.0	441.9	3,944.6	0.30	0.22	0.22
14,840.0	92.50	180.10	10,665.4	-4,246.0	443.4	4,029.3	4.71	4.19	2.15
14,933.0	90.10	179.80	10,663.3	-4,338.9	443.4	4,113.4	2.60	-2.58	-0.32
15,026.0	89.90	179.80	10,663.3	-4,431.9	443.8	4,197.6	0.22	-0.22	0.00
15,119.0	83.70	177.60	10,668.5	-4,524.7	445.9	4,282.5	7.07	-6.67	-2.37
15,212.0	84.80	179.80	10,677.8	-4,617.2	448.0	4,367.0	2.63	1.18	2.37
15,314.0	85.10	180.30	10,686.8	-4,718.8	447.9	4,458.9	0.57	0.29	0.49
15,370.0	85.10	180.30	10,691.5	-4,774.6	447.6	4,509.2	0.00	0.00	0.00

15370.0' MD Projected to Bit - PBHL Rock Spur 27 W2AP St Com1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,370.0	10,691.5	-4,774.6	447.6	15370.0' MD Projected to Bit

Checked By: _____ Approved By: _____ Date: _____



COMPANY: Mewbourne Oil Company
WELL: Rock Spur 27 W2AP State Com 1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 250



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.95°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico Eastern Zone
2983 + 27 @ 2990.0usft (Patterson 250)

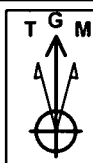
GROUND ELEVATION: 2963.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	434898.70	622932.60	32° 11' 43.219 N	104° 4' 10.390 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2575.0	0.00	0.00	2575.0	0.0	0.0	0.00	0.00	0.0	
3	2835.1	3.90	60.00	2834.9	4.4	7.7	1.50	60.00	-3.7	
4	9656.1	3.90	60.00	9640.1	236.5	409.6	0.00	0.00	-195.4	
5	9916.2	0.00	0.00	9900.0	240.9	417.3	1.50	180.00	-199.1	B.B. Rock Spur 27 W2AP St Com 1H
6	10065.3	0.00	0.00	10049.1	240.9	417.3	0.00	0.00	-199.1	
7	10958.5	69.32	179.42	10622.0	-325.2	423.0	10.00	179.42	364.9	
A	15411.3	69.32	179.42	10675.0	-477.5	468.1	0.00	0.00	4800.4	PBHL Rock Spur 27 W2AP St Com 1H

SHL: 250' FNL: 870' FEL
Section 27-24S-28E
PBHL: 330' FSL: 450' FEL
Section 27-4S-28E



Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.95°
Magnetic Field
Strength: 47785.4sn
Dip Angle: 59.9°
Date: 4/18/201
Model: IGRF201

