



Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H

Viper 32/29 W2PI Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

25 April, 2019





Microsoft Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H			
Site Position:		Northing:	456,456.50 usft	Latitude: 32° 15' 17.320 N
From:	Map	Easting:	580,339.80 usft	Longitude: 104° 12' 25.792 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.07 °

Well	Viper 32/29 W2PI Fed Com 1H			
Well Position	+N/-S	0.0 usft	Northing:	456,456.50 usft
	+E/-W	0.0 usft	Easting:	580,339.80 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	28.0 usft
			Ground Level:	3,229.0 usft

Wellbore	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/18/19	7.06	59.97	47,710.16616825

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	5.79

Survey Program	Date 04/25/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	17,285.0	MWD Survey #1 (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	
100.0	0.18	32.57	100.0	0.1	0.1	0.1	0.18	0.18	0.00	
200.0	0.05	166.69	200.0	0.2	0.2	0.2	0.22	-0.13	134.12	
300.0	0.30	148.86	300.0	0.0	0.3	0.0	0.25	0.25	-17.83	
365.0	0.57	124.06	365.0	-0.4	0.7	-0.3	0.50	0.42	-38.15	
465.0	2.10	133.60	465.0	-1.9	2.4	-1.7	1.54	1.53	9.54	
643.0	1.80	121.70	642.9	-5.6	7.2	-4.9	0.28	-0.17	-6.69	
831.0	4.40	119.90	830.6	-10.8	15.9	-9.1	1.38	1.38	-0.96	
1,021.0	4.00	117.20	1,020.1	-17.4	28.1	-14.5	0.23	-0.21	-1.42	
1,211.0	5.10	115.10	1,209.5	-24.1	41.7	-19.7	0.59	0.58	-1.11	



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Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
1,400.0	5.50	122.60	1,397.7	-32.5	56.9	-26.6	0.42	0.21	3.97
1,590.0	5.80	120.70	1,586.7	-42.3	72.8	-34.7	0.19	0.16	-1.00
1,780.0	6.10	114.60	1,775.7	-51.4	90.3	-42.0	0.37	0.16	-3.21
1,969.0	5.50	128.10	1,963.8	-61.2	106.5	-50.1	0.79	-0.32	7.14
2,000.0	5.10	127.20	1,994.6	-62.9	108.8	-51.6	1.32	-1.29	-2.90
2,115.0	4.30	126.70	2,109.2	-68.6	116.3	-56.5	0.70	-0.70	-0.43
2,304.0	3.60	125.20	2,297.8	-76.2	126.9	-63.1	0.37	-0.37	-0.79
2,493.0	3.30	123.50	2,486.4	-82.7	136.2	-68.5	0.17	-0.16	-0.90
2,683.0	3.30	127.90	2,676.1	-89.0	145.1	-73.9	0.13	0.00	2.32
2,872.0	3.60	104.80	2,864.8	-93.9	155.2	-77.8	0.75	0.16	-12.22
3,062.0	5.30	125.60	3,054.2	-100.5	168.1	-83.1	1.22	0.89	10.95
3,252.0	4.70	128.60	3,243.5	-110.5	181.3	-91.6	0.34	-0.32	1.58
3,441.0	4.50	113.60	3,431.9	-118.3	194.1	-98.1	0.64	-0.11	-7.94
3,631.0	4.60	121.80	3,621.3	-125.3	207.4	-103.7	0.35	0.05	4.32
3,821.0	4.50	123.50	3,810.7	-133.4	220.1	-110.5	0.09	-0.05	0.89
4,011.0	4.10	117.00	4,000.2	-140.6	232.4	-116.5	0.33	-0.21	-3.42
4,200.0	3.60	117.70	4,188.7	-146.5	243.7	-121.1	0.27	-0.26	0.37
4,390.0	2.70	118.00	4,378.5	-151.3	252.9	-125.0	0.47	-0.47	0.16
4,580.0	3.80	115.60	4,568.1	-156.1	262.5	-128.9	0.58	0.58	-1.26
4,770.0	4.40	117.90	4,757.7	-162.3	274.6	-133.7	0.33	0.32	1.21
4,959.0	4.30	119.90	4,946.1	-169.2	287.2	-139.4	0.10	-0.05	1.06
5,149.0	3.80	119.50	5,135.6	-175.9	298.8	-144.8	0.26	-0.26	-0.21
5,338.0	3.90	121.30	5,324.2	-182.3	309.8	-150.1	0.08	0.05	0.95
5,528.0	4.10	117.60	5,513.7	-188.8	321.3	-155.4	0.17	0.11	-1.95
5,717.0	4.40	122.40	5,702.2	-195.8	333.4	-161.1	0.25	0.16	2.54
5,907.0	3.20	132.10	5,891.8	-203.3	343.5	-167.5	0.71	-0.63	5.11
6,097.0	3.30	121.10	6,081.5	-209.6	352.1	-173.0	0.33	0.05	-5.79
6,286.0	4.00	116.70	6,270.1	-215.4	362.7	-177.7	0.40	0.37	-2.33
6,476.0	5.30	123.50	6,459.5	-223.2	375.9	-184.1	0.74	0.68	3.58
6,665.0	5.70	127.30	6,647.6	-233.7	390.7	-193.1	0.29	0.21	2.01
6,854.0	4.00	124.90	6,835.9	-243.2	403.5	-201.2	0.91	-0.90	-1.27
7,044.0	2.70	117.90	7,025.6	-249.1	412.9	-206.1	0.72	-0.68	-3.68
7,233.0	4.00	125.10	7,214.3	-255.0	422.3	-211.0	0.72	0.69	3.81
7,423.0	3.70	111.70	7,403.9	-261.0	433.4	-216.0	0.50	-0.16	-7.05
7,613.0	2.50	121.90	7,593.6	-265.5	442.6	-219.5	0.69	-0.63	5.37
7,803.0	3.80	123.80	7,783.3	-271.2	451.3	-224.2	0.69	0.68	1.00
7,993.0	2.80	108.10	7,973.0	-276.1	461.0	-228.2	0.70	-0.53	-8.26
8,182.0	4.70	122.80	8,161.6	-281.8	471.9	-232.7	1.12	1.01	7.78
8,372.0	3.70	129.30	8,351.1	-289.9	483.2	-239.6	0.58	-0.53	3.42
8,561.0	3.10	127.80	8,539.7	-296.9	491.9	-245.7	0.32	-0.32	-0.79
8,751.0	2.70	124.30	8,729.5	-302.5	499.7	-250.5	0.23	-0.21	-1.84
8,940.0	3.50	113.90	8,918.2	-307.4	508.6	-254.5	0.52	0.42	-5.50



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Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
9,129.0	2.20	119.80	9,107.0	-311.5	517.1	-257.7	0.70	-0.69	3.12
9,223.1	2.14	125.97	9,201.0	-313.4	520.1	-259.3	0.26	-0.07	6.56
B.B. Viper 32/29 W2PI Fed Com 1H									
9,318.0	2.10	132.50	9,295.8	-315.7	522.8	-261.3	0.26	-0.04	6.88
9,407.0	2.40	58.70	9,384.8	-315.8	525.6	-261.1	3.05	0.34	-82.92
9,438.0	6.20	29.20	9,415.7	-314.0	526.9	-259.2	13.80	12.26	-95.16
9,469.0	10.60	21.10	9,446.3	-309.9	528.8	-254.9	14.66	14.19	-26.13
9,501.0	14.10	15.30	9,477.6	-303.4	530.9	-248.2	11.59	10.94	-18.13
9,532.0	17.20	13.00	9,507.5	-295.2	532.9	-240.0	10.20	10.00	-7.42
9,564.0	20.60	12.40	9,537.7	-285.1	535.2	-229.7	10.64	10.63	-1.88
9,595.0	24.20	11.10	9,566.4	-273.6	537.6	-217.9	11.72	11.61	-4.19
9,627.0	27.20	8.80	9,595.2	-259.9	539.9	-204.1	9.88	9.38	-7.19
9,658.0	29.80	6.50	9,622.5	-245.2	541.9	-189.3	9.10	8.39	-7.42
9,690.0	32.40	5.00	9,649.9	-228.8	543.5	-172.8	8.48	8.13	-4.69
9,721.0	34.90	4.00	9,675.7	-211.7	544.9	-155.6	8.26	8.06	-3.23
9,753.0	36.80	3.70	9,701.6	-193.0	546.1	-136.9	5.96	5.94	-0.94
9,784.0	39.40	3.10	9,726.0	-173.9	547.3	-117.8	8.47	8.39	-1.94
9,816.0	42.20	1.90	9,750.2	-153.0	548.2	-96.9	9.09	8.75	-3.75
9,847.0	44.70	359.60	9,772.7	-131.7	548.5	-75.7	9.54	8.06	-7.42
9,879.0	46.50	359.20	9,795.1	-108.8	548.2	-52.9	5.70	5.63	-1.25
9,911.0	48.80	359.80	9,816.7	-85.2	548.0	-29.4	7.32	7.19	1.88
9,942.0	51.50	0.60	9,836.5	-61.4	548.1	-5.7	8.93	8.71	2.58
9,974.0	54.00	1.10	9,855.9	-35.9	548.5	19.6	7.91	7.81	1.56
10,005.0	56.40	1.60	9,873.6	-10.5	549.1	45.0	7.85	7.74	1.61
10,037.0	58.90	2.00	9,890.7	16.6	549.9	72.0	7.88	7.81	1.25
10,068.0	61.30	1.80	9,906.2	43.4	550.8	98.8	7.76	7.74	-0.65
10,100.0	63.60	1.60	9,921.0	71.8	551.7	127.1	7.21	7.19	-0.63
10,131.0	66.10	1.40	9,934.1	99.8	552.4	155.1	8.09	8.06	-0.65
10,162.0	68.60	1.50	9,946.1	128.4	553.1	183.6	8.07	8.06	0.32
10,194.0	71.40	1.20	9,957.0	158.5	553.8	213.6	8.79	8.75	-0.94
10,224.0	74.30	0.10	9,965.9	187.1	554.1	242.1	10.28	9.67	-3.67
10,282.0	76.90	0.30	9,980.3	243.3	554.3	298.0	4.50	4.48	0.34
10,314.0	77.60	0.30	9,987.3	274.5	554.5	329.1	2.19	2.19	0.00
10,345.0	79.10	0.30	9,993.6	304.9	554.7	359.3	4.84	4.84	0.00
10,373.0	78.30	0.70	9,999.1	332.3	554.9	386.6	3.18	-2.86	1.43
10,404.0	81.40	0.40	10,004.5	362.8	555.2	417.0	10.05	10.00	-0.97
10,425.0	87.60	1.40	10,006.6	383.7	555.5	437.8	29.90	29.52	4.76
10,470.0	98.00	4.10	10,004.4	428.6	557.7	482.7	23.87	23.11	6.00
10,504.0	95.70	4.40	10,000.3	462.2	560.2	516.4	6.82	-6.76	0.88
10,536.0	93.10	4.10	9,997.9	494.0	562.5	548.3	8.18	-8.13	-0.94
10,567.0	89.60	4.00	9,997.1	524.9	564.7	579.3	11.29	-11.29	-0.32
10,599.0	88.80	3.90	9,997.6	556.9	566.9	611.2	2.52	-2.50	-0.31
10,630.0	88.70	2.90	9,998.2	587.8	568.8	642.2	3.24	-0.32	-3.23



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Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
10,693.0	91.40	1.80	9,998.2	650.7	571.4	705.1	4.63	4.29	-1.75
10,788.0	91.50	1.60	9,995.8	745.7	574.2	799.8	0.24	0.11	-0.21
10,883.0	90.00	1.30	9,994.5	840.6	576.6	894.5	1.61	-1.58	-0.32
10,977.0	87.10	0.90	9,996.9	934.6	578.4	988.2	3.11	-3.09	-0.43
11,071.0	91.90	1.70	9,997.7	1,028.5	580.5	1,081.9	5.18	5.11	0.85
11,166.0	91.30	2.30	9,995.1	1,123.4	583.8	1,176.6	0.89	-0.63	0.63
11,261.0	94.00	3.10	9,990.7	1,218.2	588.3	1,271.4	2.96	2.84	0.84
11,355.0	89.20	1.60	9,988.1	1,312.1	592.1	1,365.1	5.35	-5.11	-1.60
11,449.0	87.30	0.20	9,990.9	1,406.0	593.6	1,458.7	2.51	-2.02	-1.49
11,544.0	88.20	2.00	9,994.7	1,500.9	595.4	1,553.3	2.12	0.95	1.89
11,639.0	89.80	2.90	9,996.3	1,595.8	599.5	1,648.2	1.93	1.68	0.95
11,733.0	87.30	359.90	9,998.7	1,689.7	601.8	1,741.8	4.15	-2.66	-3.19
11,828.0	88.30	1.00	10,002.4	1,784.6	602.5	1,836.3	1.56	1.05	1.16
11,923.0	87.50	1.00	10,005.8	1,879.6	604.2	1,931.0	0.84	-0.84	0.00
12,018.0	90.20	358.70	10,007.7	1,974.5	604.0	2,025.4	3.73	2.84	-2.42
12,113.0	94.90	3.00	10,003.5	2,069.4	605.4	2,119.9	6.70	4.95	4.53
12,207.0	90.30	359.40	9,999.3	2,163.2	607.3	2,213.5	6.21	-4.89	-3.83
12,302.0	88.80	359.30	10,000.0	2,258.2	606.2	2,307.9	1.58	-1.58	-0.11
12,397.0	87.80	0.10	10,002.8	2,353.2	605.7	2,402.3	1.35	-1.05	0.84
12,491.0	90.70	2.30	10,004.0	2,447.1	607.7	2,496.0	3.87	3.09	2.34
12,585.0	85.70	357.00	10,007.0	2,541.0	607.1	2,589.3	7.75	-5.32	-5.64
12,685.0	85.40	357.50	10,014.8	2,640.6	602.4	2,687.9	0.58	-0.30	0.50
12,780.0	88.60	358.70	10,019.7	2,735.4	599.2	2,781.9	3.60	3.37	1.26
12,874.0	91.90	0.10	10,019.3	2,829.4	598.2	2,875.3	3.81	3.51	1.49
12,968.0	91.00	0.30	10,016.9	2,923.3	598.6	2,968.8	0.98	-0.96	0.21
13,062.0	87.20	357.00	10,018.4	3,017.3	596.3	3,062.1	5.35	-4.04	-3.51
13,157.0	93.00	359.40	10,018.3	3,112.2	593.4	3,156.2	6.61	6.11	2.53
13,252.0	93.40	0.10	10,012.9	3,207.0	593.0	3,250.5	0.85	0.42	0.74
13,347.0	87.40	358.70	10,012.3	3,302.0	592.0	3,344.9	6.49	-6.32	-1.47
13,442.0	89.30	1.00	10,015.0	3,396.9	591.7	3,439.3	3.14	2.00	2.42
13,536.0	89.20	1.50	10,016.3	3,490.9	593.8	3,533.0	0.54	-0.11	0.53
13,631.0	90.50	3.80	10,016.5	3,585.8	598.2	3,627.8	2.78	1.37	2.42
13,726.0	87.30	357.30	10,018.3	3,680.7	599.1	3,722.4	7.62	-3.37	-6.84
13,821.0	87.70	357.70	10,022.5	3,775.5	594.9	3,816.3	0.60	0.42	0.42
13,915.0	90.70	358.80	10,023.8	3,869.5	592.1	3,909.4	3.40	3.19	1.17
14,010.0	91.40	358.50	10,022.0	3,964.4	589.8	4,003.7	0.80	0.74	-0.32
14,105.0	89.80	354.80	10,021.0	4,059.2	584.3	4,097.5	4.24	-1.68	-3.89
14,200.0	93.10	356.00	10,018.6	4,153.9	576.7	4,190.9	3.70	3.47	1.26
14,295.0	94.20	0.20	10,012.6	4,248.6	573.5	4,284.8	4.56	1.16	4.42
14,389.0	93.30	2.20	10,006.4	4,342.4	575.5	4,378.3	2.33	-0.96	2.13
14,484.0	91.00	2.40	10,002.9	4,437.2	579.3	4,473.0	2.43	-2.42	0.21
14,579.0	90.30	2.10	10,001.8	4,532.1	583.0	4,567.8	0.80	-0.74	-0.32



Microsoft Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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)
14,674.0	89.60	4.00	10,001.9	4,627.0	588.1	4,662.7	2.13	-0.74	2.00
14,769.0	89.10	3.50	10,003.0	4,721.8	594.3	4,757.7	0.74	-0.53	-0.53
14,864.0	88.30	2.90	10,005.1	4,816.6	599.6	4,852.5	1.05	-0.84	-0.63
14,958.0	87.50	3.50	10,008.6	4,910.4	604.8	4,946.4	1.06	-0.85	0.64
15,053.0	90.00	2.20	10,010.6	5,005.3	609.5	5,041.2	2.97	2.63	-1.37
15,148.0	90.20	0.70	10,010.5	5,100.2	611.9	5,135.9	1.59	0.21	-1.58
15,243.0	90.70	0.90	10,009.7	5,195.2	613.3	5,230.6	0.57	0.53	0.21
15,307.0	90.80	1.30	10,008.9	5,259.2	614.5	5,294.4	0.64	0.16	0.63
15,349.0	91.30	2.00	10,008.1	5,301.2	615.7	5,336.2	2.05	1.19	1.67
15,444.0	87.10	3.00	10,009.4	5,396.1	619.9	5,431.1	4.54	-4.42	1.05
15,538.0	89.80	4.70	10,012.0	5,489.8	626.2	5,525.0	3.39	2.87	1.81
15,633.0	88.70	3.90	10,013.2	5,584.5	633.3	5,619.9	1.43	-1.16	-0.84
15,728.0	86.10	1.80	10,017.5	5,679.3	638.0	5,714.7	3.52	-2.74	-2.21
15,823.0	87.10	1.20	10,023.2	5,774.1	640.5	5,809.2	1.23	1.05	-0.63
15,918.0	88.80	0.20	10,026.6	5,869.0	641.6	5,903.8	2.08	1.79	-1.05
16,012.0	91.80	0.70	10,026.1	5,963.0	642.4	5,997.4	3.24	3.19	0.53
16,107.0	91.00	0.70	10,023.8	6,058.0	643.5	6,092.0	0.84	-0.84	0.00
16,201.0	93.40	2.10	10,020.1	6,151.9	645.8	6,185.6	2.96	2.55	1.49
16,296.0	92.00	2.10	10,015.7	6,246.7	649.3	6,280.3	1.47	-1.47	0.00
16,391.0	91.40	2.40	10,012.9	6,341.6	653.0	6,375.1	0.71	-0.63	0.32
16,485.0	88.90	2.30	10,012.6	6,435.5	656.9	6,468.9	2.66	-2.66	-0.11
16,580.0	86.90	3.70	10,016.1	6,530.3	661.9	6,563.7	2.57	-2.11	1.47
16,675.0	94.80	5.80	10,014.7	6,624.9	669.7	6,658.6	8.60	8.32	2.21
16,770.0	92.10	7.00	10,009.0	6,719.1	680.3	6,753.4	3.11	-2.84	1.26
16,864.0	92.00	5.90	10,005.6	6,812.4	690.8	6,847.4	1.17	-0.11	-1.17
16,959.0	87.00	3.30	10,006.4	6,907.1	698.5	6,942.3	5.93	-5.26	-2.74
17,053.0	92.80	7.10	10,006.6	7,000.6	707.0	7,036.2	7.38	6.17	4.04
17,147.0	88.00	6.00	10,005.9	7,094.0	717.7	7,130.2	5.24	-5.11	-1.17
17,235.0	89.10	6.90	10,008.2	7,181.4	727.6	7,218.2	1.61	1.25	1.02
17,285.0	89.10	6.90	10,009.0	7,231.0	733.6	7,268.2	0.00	0.00	0.00
17285.0' MD Projected to Bit - PBHL Viper 32/29 W2PI Fed Com #1H									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,285.0	10,009.0	7,231.0	733.6	17285.0' MD Projected to Bit

STRYKER

DIRECTIONAL

April 25, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Viper 32 29 W2PI Federal Com #001H
Wolfcamp D Shale
Eddy County, New Mexico
API# 30-015-44075

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Greg Morris	Original Hole	100ft. to 17,235ft.	03-15-19 to 04-12-19	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Viper 32/29 W2PI Fed Com #1HM191072

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



April 25, 2019

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of March 15, 2019, through April 12, 2019 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 100feet to a depth of 17,235feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Viper 32/29 W2PI Federal Com #1H, well API # 30-015-44075 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in black ink, appearing to read "Eric Estes", is written over a horizontal line.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



OCD Permitting

[Home](#) > [Wells](#) > [Well Details](#)

30-015-44075 VIPER 32 29 W2PI FEDERAL COM #001H [317465]

General Well Information

Operator: [14744] MEWBOURNE OIL CO
 Status: New Direction: Horizontal
 Well Type: Gas Multi-Lateral: No
 Work Type: New Mineral Owner: State
 Surface Owner: State
 Surface Location: P-32-23S-27E 188 FSL 990 FEL
 Lat/Long: 32.25426055,-104.20668092 NAD27
 GL Elevation: 3227
 KB Elevation:
 DF Elevation: Sing/Mult Compl: Single
 Potash Waiver: False

Proposed Formation and/or Notes

NSP REQUIRED.

Depths

Proposed: 17150 Total Vertical Depth: 0
 Measured Vertical Depth: 0 Plugback Measured: 0

Formation Tops

Formation	Top	Producing	Method Obtained
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Event Dates

Initial APD Approval: 02/17/2017
 Most Recent APD Approval: 03/01/2017 Current APD Expiration: 02/16/2021
 APD Cancellation:
 APD Extension Approval: 02/11/2019
 Spud:
 Approved Temporary Gas Capture Plan Received:
 Abandonment: TA Expiration:
 Shut In:
 Plug and Abandoned Intent PNR Expiration:
 Received: Last MIT/BHT:
 Well Plugged:
 Site Release:
 Last Inspection: 08/30/2017

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
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- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
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New Searches

- [New Well Search](#)



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey/Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

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 32/29-23S-27E Viper 32 29 W2PI Fed Com 1H
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Site Position:		Northing:	456,456.50 usft	Latitude:	32° 15' 17.320 N
From:	Map	Easting:	580,339.80 usft	Longitude:	104° 12' 25.792 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well:	Viper 32/29 W2PI Fed Com 1H
-------	-----------------------------

Well Position	+N/-S	0.0 usft	Northing:	456,456.50 usft	Latitude:	32° 15' 17.320 N
	+E/-W	0.0 usft	Easting:	580,339.80 usft	Longitude:	104° 12' 25.792 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	28.0 usft	Ground Level:	3,229.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/18/19	7.06	59.97	47,710.16616825

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	5.79

Survey Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	04/25/19	100.0	17,285.0	MWD Survey #1 (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	
100.0	0.18	32.57	100.0	0.1	0.1	0.2	32.57	
200.0	0.05	166.69	200.0	0.2	0.2	0.3	38.87	
300.0	0.30	148.86	300.0	0.0	0.3	0.3	97.76	
365.0	0.57	124.06	365.0	-0.4	0.7	0.8	118.60	
465.0	2.10	133.60	465.0	-1.9	2.4	3.1	128.33	
643.0	1.80	121.70	642.9	-5.6	7.2	9.1	128.19	
831.0	4.40	119.90	830.6	-10.8	15.9	19.2	124.09	
1,021.0	4.00	117.20	1,020.1	-17.4	28.1	33.1	121.79	
1,211.0	5.10	115.10	1,209.5	-24.1	41.7	48.1	119.99	
1,400.0	5.50	122.60	1,397.7	-32.5	56.9	65.5	119.72	
1,590.0	5.80	120.70	1,586.7	-42.3	72.8	84.2	120.15	
1,780.0	6.10	114.60	1,775.7	-51.4	90.3	103.9	119.66	
1,969.0	5.50	128.10	1,963.8	-61.2	106.5	122.9	119.87	
2,000.0	5.10	127.20	1,994.6	-62.9	108.8	125.7	120.04	
2,115.0	4.30	126.70	2,109.2	-68.6	116.3	135.0	120.53	
2,304.0	3.60	125.20	2,297.8	-76.2	126.9	148.0	121.01	
2,493.0	3.30	123.50	2,486.4	-82.7	136.2	159.4	121.25	
2,683.0	3.30	127.90	2,676.1	-89.0	145.1	170.3	121.53	
2,872.0	3.60	104.80	2,864.8	-93.9	155.2	181.4	121.18	
3,062.0	5.30	125.60	3,054.2	-100.5	168.1	195.8	120.89	
3,252.0	4.70	128.60	3,243.5	-110.5	181.3	212.3	121.37	
3,441.0	4.50	113.60	3,431.9	-118.3	194.1	227.3	121.36	
3,631.0	4.60	121.80	3,621.3	-125.3	207.4	242.3	121.14	
3,821.0	4.50	123.50	3,810.7	-133.4	220.1	257.4	121.22	
4,011.0	4.10	117.00	4,000.2	-140.6	232.4	271.6	121.18	
4,200.0	3.60	117.70	4,188.7	-146.5	243.7	284.3	121.01	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. N4d (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey/Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey:							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
4,390.0	2.70	118.00	4,378.5	-151.3	252.9	294.7	120.90
4,580.0	3.80	115.60	4,568.1	-156.1	262.5	305.4	120.74
4,770.0	4.40	117.90	4,757.7	-162.3	274.6	319.0	120.58
4,959.0	4.30	119.90	4,946.1	-169.2	287.2	333.3	120.51
5,149.0	3.80	119.50	5,135.6	-175.9	298.8	346.7	120.47
5,338.0	3.90	121.30	5,324.2	-182.3	309.8	359.4	120.47
5,528.0	4.10	117.60	5,513.7	-188.8	321.3	372.7	120.43
5,717.0	4.40	122.40	5,702.2	-195.8	333.4	386.7	120.42
5,907.0	3.20	132.10	5,891.8	-203.3	343.5	399.2	120.61
6,097.0	3.30	121.10	6,081.5	-209.6	352.1	409.8	120.77
6,286.0	4.00	116.70	6,270.1	-215.4	362.7	421.8	120.71
6,476.0	5.30	123.50	6,459.5	-223.2	375.9	437.2	120.70
6,665.0	5.70	127.30	6,647.6	-233.7	390.7	455.3	120.89
6,854.0	4.00	124.90	6,835.9	-243.2	403.5	471.2	121.08
7,044.0	2.70	117.90	7,025.6	-249.1	412.9	482.2	121.10
7,233.0	4.00	125.10	7,214.3	-255.0	422.3	493.3	121.12
7,423.0	3.70	111.70	7,403.9	-261.0	433.4	505.9	121.06
7,613.0	2.50	121.90	7,593.6	-265.5	442.6	516.1	120.96
7,803.0	3.80	123.80	7,783.3	-271.2	451.3	526.6	121.00
7,993.0	2.80	108.10	7,973.0	-276.1	461.0	537.4	120.92
8,182.0	4.70	122.80	8,161.6	-281.8	471.9	549.6	120.84
8,372.0	3.70	129.30	8,351.1	-289.9	483.2	563.5	120.96
8,561.0	3.10	127.80	8,539.7	-296.9	491.9	574.6	121.11
8,751.0	2.70	124.30	8,729.5	-302.5	499.7	584.1	121.19
8,940.0	3.50	113.90	8,918.2	-307.4	508.6	594.3	121.14
9,129.0	2.20	119.80	9,107.0	-311.5	517.1	603.7	121.07



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,223.1	2.14	125.97	9,201.0	-313.4	520.1	607.2	121.08	
B.B. Viper 32/29 W2PI Fed Com 1H								
9,318.0	2.10	132.50	9,295.8	-315.7	522.8	610.7	121.12	
9,407.0	2.40	58.70	9,384.8	-315.8	525.6	613.1	121.00	
9,438.0	6.20	29.20	9,415.7	-314.0	526.9	613.4	120.79	
9,469.0	10.60	21.10	9,446.3	-309.9	528.8	612.9	120.37	
9,501.0	14.10	15.30	9,477.6	-303.4	530.9	611.4	119.75	
9,532.0	17.20	13.00	9,507.5	-295.2	532.9	609.2	118.99	
9,564.0	20.60	12.40	9,537.7	-285.1	535.2	606.4	118.05	
9,595.0	24.20	11.10	9,566.4	-273.6	537.6	603.2	116.97	
9,627.0	27.20	8.80	9,595.2	-259.9	539.9	599.2	115.70	
9,658.0	29.80	6.50	9,622.5	-245.2	541.9	594.8	114.35	
9,690.0	32.40	5.00	9,649.9	-228.8	543.5	589.7	112.83	
9,721.0	34.90	4.00	9,675.7	-211.7	544.9	584.6	111.23	
9,753.0	36.80	3.70	9,701.6	-193.0	546.1	579.2	109.46	
9,784.0	39.40	3.10	9,726.0	-173.9	547.3	574.2	107.63	
9,816.0	42.20	1.90	9,750.2	-153.0	548.2	569.1	105.59	
9,847.0	44.70	359.60	9,772.7	-131.7	548.5	564.0	103.50	
9,879.0	46.50	359.20	9,795.1	-108.8	548.2	558.9	101.23	
9,911.0	48.80	359.80	9,816.7	-85.2	548.0	554.6	98.83	
9,942.0	51.50	0.60	9,836.5	-61.4	548.1	551.5	96.39	
9,974.0	54.00	1.10	9,855.9	-35.9	548.5	549.7	93.75	
10,005.0	56.40	1.60	9,873.6	-10.5	549.1	549.2	91.09	
10,037.0	58.90	2.00	9,890.7	16.6	549.9	550.2	88.28	
10,068.0	61.30	1.80	9,906.2	43.4	550.8	552.5	85.49	
10,100.0	63.60	1.60	9,921.0	71.8	551.7	556.3	82.59	
10,131.0	66.10	1.40	9,934.1	99.8	552.4	561.3	79.76	



Microsoft
MWD Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 32/29 W2PI Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Site:	Section 32/29-23S-27E Viper 32.29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
10,162.0	68.60	1.50	9,946.1	128.4	553.1	567.8	76.93	
10,194.0	71.40	1.20	9,957.0	158.5	553.8	576.1	74.03	
10,224.0	74.30	0.10	9,965.9	187.1	554.1	584.9	71.34	
10,282.0	76.90	0.30	9,980.3	243.3	554.3	605.4	66.30	
10,314.0	77.60	0.30	9,987.3	274.5	554.5	618.7	63.66	
10,345.0	79.10	0.30	9,993.6	304.9	554.7	632.9	61.20	
10,373.0	78.30	0.70	9,999.1	332.3	554.9	646.8	59.08	
10,404.0	81.40	0.40	10,004.5	362.8	555.2	663.2	56.83	
10,425.0	87.60	1.40	10,006.6	383.7	555.5	675.2	55.37	
10,470.0	98.00	4.10	10,004.4	428.6	557.7	703.3	52.46	
10,504.0	95.70	4.40	10,000.3	462.2	560.2	726.3	50.47	
10,536.0	93.10	4.10	9,997.9	494.0	562.5	748.7	48.71	
10,567.0	89.60	4.00	9,997.1	524.9	564.7	771.0	47.09	
10,599.0	88.80	3.90	9,997.6	556.9	566.9	794.7	45.51	
10,630.0	88.70	2.90	9,998.2	587.8	568.8	817.9	44.06	
10,693.0	91.40	1.80	9,998.2	650.7	571.4	866.0	41.28	
10,788.0	91.50	1.60	9,995.8	745.7	574.2	941.1	37.60	
10,883.0	90.00	1.30	9,994.5	840.6	576.6	1,019.4	34.45	
10,977.0	87.10	0.90	9,996.9	934.6	578.4	1,099.1	31.75	
11,071.0	91.90	1.70	9,997.7	1,028.5	580.5	1,181.0	29.44	
11,166.0	91.30	2.30	9,995.1	1,123.4	583.8	1,266.1	27.46	
11,261.0	94.00	3.10	9,990.7	1,218.2	588.3	1,352.8	25.78	
11,355.0	89.20	1.60	9,988.1	1,312.1	592.1	1,439.5	24.29	
11,449.0	87.30	0.20	9,990.9	1,406.0	593.6	1,526.2	22.89	
11,544.0	88.20	2.00	9,994.7	1,500.9	595.4	1,614.7	21.64	
11,639.0	89.80	2.90	9,996.3	1,595.8	599.5	1,704.7	20.59	
11,733.0	87.30	359.90	9,998.7	1,689.7	601.8	1,793.7	19.60	



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Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,828.0	88.30	1.00	10,002.4	1,784.6	602.5	1,883.6	18.66
11,923.0	87.50	1.00	10,005.8	1,879.6	604.2	1,974.3	17.82
12,018.0	90.20	358.70	10,007.7	1,974.5	604.0	2,064.8	17.01
12,113.0	94.90	3.00	10,003.5	2,069.4	605.4	2,156.1	16.31
12,207.0	90.30	359.40	9,999.3	2,163.2	607.3	2,246.9	15.68
12,302.0	88.80	359.30	10,000.0	2,258.2	606.2	2,338.2	15.03
12,397.0	87.80	0.10	10,002.8	2,353.2	605.7	2,429.9	14.44
12,491.0	90.70	2.30	10,004.0	2,447.1	607.7	2,521.4	13.95
12,585.0	85.70	357.00	10,007.0	2,541.0	607.1	2,612.5	13.44
12,685.0	85.40	357.50	10,014.8	2,640.6	602.4	2,708.4	12.85
12,780.0	88.60	358.70	10,019.7	2,735.4	599.2	2,800.3	12.36
12,874.0	91.90	0.10	10,019.3	2,829.4	598.2	2,891.9	11.94
12,968.0	91.00	0.30	10,016.9	2,923.3	598.6	2,984.0	11.57
13,062.0	87.20	357.00	10,018.4	3,017.3	596.3	3,075.6	11.18
13,157.0	93.00	359.40	10,018.3	3,112.2	593.4	3,168.2	10.79
13,252.0	93.40	0.10	10,012.9	3,207.0	593.0	3,261.4	10.48
13,347.0	87.40	358.70	10,012.3	3,302.0	592.0	3,354.6	10.16
13,442.0	89.30	1.00	10,015.0	3,396.9	591.7	3,448.1	9.88
13,536.0	89.20	1.50	10,016.3	3,490.9	593.8	3,541.0	9.65
13,631.0	90.50	3.80	10,016.5	3,585.8	598.2	3,635.3	9.47
13,726.0	87.30	357.30	10,018.3	3,680.7	599.1	3,729.1	9.24
13,821.0	87.70	357.70	10,022.5	3,775.5	594.9	3,822.1	8.95
13,915.0	90.70	358.80	10,023.8	3,869.5	592.1	3,914.5	8.70
14,010.0	91.40	358.50	10,022.0	3,964.4	589.8	4,008.0	8.46
14,105.0	89.80	354.80	10,021.0	4,059.2	584.3	4,101.1	8.19
14,200.0	93.10	356.00	10,018.6	4,153.9	576.7	4,193.7	7.90
14,295.0	94.20	0.20	10,012.6	4,248.6	573.5	4,287.1	7.69



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Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28 @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid:
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure/Distance (usft)	Closure Azimuth (°)	
14,389.0	93.30	2.20	10,006.4	4,342.4	575.5	4,380.3	7.55	
14,484.0	91.00	2.40	10,002.9	4,437.2	579.3	4,474.9	7.44	
14,579.0	90.30	2.10	10,001.8	4,532.1	583.0	4,569.5	7.33	
14,674.0	89.60	4.00	10,001.9	4,627.0	588.1	4,664.2	7.24	
14,769.0	89.10	3.50	10,003.0	4,721.8	594.3	4,759.0	7.17	
14,864.0	88.30	2.90	10,005.1	4,816.6	599.6	4,853.8	7.10	
14,958.0	87.50	3.50	10,008.6	4,910.4	604.8	4,947.5	7.02	
15,053.0	90.00	2.20	10,010.6	5,005.3	609.5	5,042.2	6.94	
15,148.0	90.20	0.70	10,010.5	5,100.2	611.9	5,136.8	6.84	
15,243.0	90.70	0.90	10,009.7	5,195.2	613.3	5,231.3	6.73	
15,307.0	90.80	1.30	10,008.9	5,259.2	614.5	5,295.0	6.66	
15,349.0	91.30	2.00	10,008.1	5,301.2	615.7	5,336.8	6.63	
15,444.0	87.10	3.00	10,009.4	5,396.1	619.9	5,431.5	6.55	
15,538.0	89.80	4.70	10,012.0	5,489.8	626.2	5,525.4	6.51	
15,633.0	88.70	3.90	10,013.2	5,584.5	633.3	5,620.3	6.47	
15,728.0	86.10	1.80	10,017.5	5,679.3	638.0	5,715.0	6.41	
15,823.0	87.10	1.20	10,023.2	5,774.1	640.5	5,809.5	6.33	
15,918.0	88.80	0.20	10,026.6	5,869.0	641.6	5,904.0	6.24	
16,012.0	91.80	0.70	10,026.1	5,963.0	642.4	5,997.5	6.15	
16,107.0	91.00	0.70	10,023.8	6,058.0	643.5	6,092.0	6.06	
16,201.0	93.40	2.10	10,020.1	6,151.9	645.8	6,185.7	5.99	
16,296.0	92.00	2.10	10,015.7	6,246.7	649.3	6,280.3	5.93	
16,391.0	91.40	2.40	10,012.9	6,341.6	653.0	6,375.1	5.88	
16,485.0	88.90	2.30	10,012.6	6,435.5	656.9	6,468.9	5.83	
16,580.0	86.90	3.70	10,016.1	6,530.3	661.9	6,563.7	5.79	
16,675.0	94.80	5.80	10,014.7	6,624.9	669.7	6,658.6	5.77	
16,770.0	92.10	7.00	10,009.0	6,719.1	680.3	6,753.4	5.78	



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Site:	Section 32/29-23S-27E Viper 32 29 W2PI Fed Co	MD Reference:	3229 +28' @ 3257.0usft (Patterson 217)
Well:	Viper 32/29 W2PI Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM5000

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
16,864.0	92.00	5.90	10,005.6	6,812.4	690.8	6,847.4	5.79	
16,959.0	87.00	3.30	10,006.4	6,907.1	698.5	6,942.3	5.77	
17,053.0	92.80	7.10	10,006.6	7,000.6	707.0	7,036.2	5.77	
17,147.0	88.00	6.00	10,005.9	7,094.0	717.7	7,130.2	5.78	
17,235.0	89.10	6.90	10,008.2	7,181.4	727.6	7,218.2	5.79	
17,285.0	89.10	6.90	10,009.0	7,231.0	733.6	7,268.2	5.79	
17285.0' MD Projected to Bit - PBHL Viper 32/29 W2PI Fed Com #1H								

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
17,285.0	10,009.0	7,231.0	733.6	17285.0' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Viper 32/29 W2PI Fed Com 1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983

STRYKER
DIRECTIONAL

OFFICE: 936.582.7296

RIG: Patterson 217
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.99°

GEODETIC ZONE: New Mexico Eastern Zone										
3229 +28 @ 3257.0usft (Patterson 217)										
GROUND ELEVATION: 3229.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	456456.50	580339.80	32° 15' 17.320 N	104° 12' 25.792 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	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	787.1	4.31	121.47	786.8	-5.6	9.2	1.50	121.47	-4.7	
4	8936.5	4.31	121.47	8913.2	-325.1	531.1	0.00	0.00	-274.1	
5	9223.5	0.00	0.00	9200.0	-330.7	540.3	1.50	180.00	-278.9	B.B. Viper 32/29 W2PI Fed Corn 1H
6	9420.6	0.00	0.00	9397.1	-330.7	540.3	0.00	0.00	-278.9	
7	10320.6	90.00	1.04	9970.0	242.2	550.8	10.00	1.04	292.5	
8	17320.1	90.00	1.04	9970.0	7240.5	678.2	0.00	0.00	7272.2	PBHL Viper 32/29 W2PI Fed Corn #1H

SHL: 345' FSL; 990' FEL
Section 32-23S-27E
PBHL: 2310' FSL; 440' FEL
Section 29-23S-27E

