



NM OIL CONSERVATION

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Mewbourne Oil Company .

Eddy County, New Mexico

Section 29/32-T23S-R27E Viper W0LM Fed Com #1H

Viper 29/32 W0LM Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

19 January, 2016

Provide signature page for Survey





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 29/32 W0LM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Site:	Section 29/32-T23S-R27E Viper W0LM Fed Com #1H	MD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Well:	Viper 29/32 W0LM Fed Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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

Site	Section 29/32-T23S-R27E Viper W0LM Fed Com #1H		
Site Position:		Northing:	463,802.19 usft
From:	Map	Easting:	535,416.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 30.205 N
		Longitude:	104° 13' 7.472 W
		Grid Convergence:	0.06 °

Well	Viper 29/32 W0LM Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 16' 30.205 N
		Longitude:	104° 13' 7.472 W
		Ground Level:	3,198.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/5/2016	7.41	60.02	48,048

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	222.32

Survey Program		Date	1/19/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,350.0	VES Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
8,557.0	16,160.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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	0.24	166.13	100.0	-0.2	0.1	0.1	0.24	0.24	0.00	
200.0	0.74	142.02	200.0	-0.9	0.5	0.3	0.53	0.50	-24.11	
300.0	1.64	133.14	300.0	-2.4	1.9	0.5	0.92	0.90	-8.87	
400.0	2.56	127.07	399.9	-4.7	4.8	0.3	0.95	0.93	-6.07	
500.0	2.83	132.71	499.8	-7.7	8.3	0.1	0.38	0.27	5.64	
600.0	0.71	192.34	599.7	-10.0	10.0	0.7	2.54	-2.12	59.63	
700.0	1.82	292.46	699.7	-10.0	8.4	1.7	2.07	1.11	100.12	
800.0	1.72	300.78	799.7	-8.6	5.7	2.6	0.28	-0.10	8.32	



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Well:	Viper 29/32 WOLM Fed 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)
900.0	1.54	304.38	899.6	-7.1	3.3	3.1	0.21	-0.18	3.60
1,000.0	1.71	295.86	999.6	-5.7	0.8	3.7	0.30	0.17	-8.52
1,100.0	1.28	289.27	1,099.6	-4.7	-1.6	4.5	0.46	-0.43	-6.59
1,200.0	1.02	215.76	1,199.6	-5.0	-3.2	5.9	1.39	-0.26	-73.51
1,300.0	2.74	150.26	1,299.5	-7.8	-2.5	7.5	2.50	1.72	-65.50
1,400.0	2.13	146.28	1,399.4	-11.5	-0.3	8.7	0.63	-0.61	-3.98
1,500.0	1.59	43.93	1,499.4	-12.0	1.7	7.7	2.92	-0.55	-102.35
1,600.0	2.83	81.82	1,599.3	-10.7	5.1	4.4	1.85	1.24	37.89
1,700.0	3.90	99.07	1,699.1	-10.8	10.9	0.7	1.46	1.07	17.25
1,800.0	2.08	163.08	1,799.0	-13.1	14.8	-0.3	3.53	-1.83	64.02
1,900.0	5.27	237.78	1,898.8	-17.3	11.4	5.1	5.13	3.20	74.70
2,000.0	5.29	247.68	1,998.4	-21.5	3.3	13.7	0.91	0.01	9.90
2,100.0	4.79	250.34	2,098.0	-24.7	-4.9	21.5	0.55	-0.50	2.66
2,200.0	4.24	257.81	2,197.7	-26.8	-12.4	28.2	0.80	-0.55	7.47
2,300.0	3.83	263.62	2,297.5	-28.0	-19.4	33.7	0.58	-0.41	5.81
2,400.0	3.09	254.68	2,397.3	-29.1	-25.3	38.5	0.91	-0.74	-8.93
2,500.0	2.67	263.91	2,497.2	-30.0	-30.2	42.5	0.62	-0.42	9.22
2,600.0	2.32	269.07	2,597.1	-30.3	-34.5	45.7	0.42	-0.36	5.17
2,700.0	1.78	252.58	2,697.0	-30.8	-38.0	48.4	0.79	-0.54	-16.49
2,800.0	1.22	271.33	2,797.0	-31.2	-40.6	50.4	0.74	-0.56	18.75
2,900.0	1.23	274.88	2,897.0	-31.1	-42.7	51.8	0.08	0.02	3.55
3,000.0	1.08	274.45	2,996.9	-31.0	-44.7	53.0	0.16	-0.16	-0.43
3,100.0	1.23	273.16	3,096.9	-30.8	-46.7	54.3	0.16	0.16	-1.29
3,200.0	0.99	262.89	3,196.9	-30.9	-48.7	55.6	0.31	-0.24	-10.26
3,300.0	1.27	262.08	3,296.9	-31.1	-50.6	57.1	0.28	0.28	-0.81
3,400.0	1.03	260.17	3,396.9	-31.4	-52.6	58.7	0.24	-0.24	-1.91
3,500.0	1.00	261.90	3,496.8	-31.7	-54.3	60.0	0.05	-0.03	1.74
3,600.0	0.95	267.27	3,596.8	-31.9	-56.0	61.3	0.10	-0.05	5.37
3,700.0	0.77	267.62	3,696.8	-32.0	-57.5	62.4	0.18	-0.18	0.35
3,800.0	0.53	242.13	3,796.8	-32.2	-58.6	63.3	0.37	-0.25	-25.49
3,900.0	0.41	254.64	3,896.8	-32.5	-59.4	64.0	0.15	-0.12	12.51
4,000.0	0.36	285.75	3,996.8	-32.5	-60.0	64.4	0.21	-0.05	31.11
4,100.0	0.44	235.55	4,096.8	-32.6	-60.6	65.0	0.34	0.08	-50.20
4,200.0	0.46	233.99	4,196.8	-33.1	-61.3	65.7	0.02	0.02	-1.56
4,300.0	0.41	232.40	4,296.8	-33.6	-61.9	66.5	0.05	-0.05	-1.59
4,400.0	0.43	255.27	4,396.8	-33.9	-62.5	67.1	0.17	0.02	22.87
4,500.0	0.58	227.23	4,496.8	-34.3	-63.2	67.9	0.28	0.15	-28.04
4,600.0	0.62	222.70	4,596.8	-35.0	-64.0	69.0	0.06	0.04	-4.53
4,700.0	0.46	215.57	4,696.8	-35.8	-64.6	69.9	0.17	-0.16	-7.12
4,800.0	0.43	208.09	4,796.8	-36.4	-65.0	70.7	0.07	-0.03	-7.48
4,900.0	0.43	223.60	4,896.8	-37.0	-65.4	71.4	0.11	0.00	15.51
5,000.0	0.54	238.21	4,996.8	-37.5	-66.1	72.2	0.17	0.12	14.61



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Well:	Viper 29/32 W0LM Fed 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)
5,100.0	0.57	234.17	5,096.8	-38.1	-66.9	73.2	0.05	0.03	-4.04
5,200.0	0.86	212.22	5,196.8	-39.0	-67.7	74.4	0.40	0.29	-21.96
5,300.0	1.21	197.67	5,296.7	-40.6	-68.4	76.1	0.43	0.34	-14.55
5,400.0	1.16	192.11	5,396.7	-42.6	-68.9	77.9	0.12	-0.05	-5.56
5,500.0	1.01	186.62	5,496.7	-44.5	-69.2	79.5	0.19	-0.15	-5.49
5,600.0	1.00	179.48	5,596.7	-46.2	-69.3	80.9	0.13	0.00	-7.14
5,700.0	1.42	166.96	5,696.7	-48.3	-69.0	82.2	0.49	0.42	-12.52
5,800.0	2.95	156.39	5,796.6	-51.9	-67.7	84.0	1.58	1.54	-10.57
5,900.0	3.22	164.65	5,896.4	-57.0	-66.0	86.5	0.52	0.27	8.26
6,000.0	2.92	185.49	5,996.3	-62.2	-65.5	90.1	1.15	-0.31	20.84
6,100.0	3.42	198.23	6,096.1	-67.6	-66.6	94.8	0.86	0.50	12.75
6,200.0	4.10	208.72	6,195.9	-73.5	-69.3	101.0	0.97	0.68	10.49
6,300.0	4.23	219.68	6,295.7	-79.5	-73.4	108.2	0.80	0.13	10.96
6,400.0	4.10	213.27	6,395.4	-85.3	-77.7	115.4	0.48	-0.13	-6.41
6,500.0	3.38	211.15	6,495.2	-90.8	-81.2	121.8	0.73	-0.72	-2.12
6,600.0	2.66	221.55	6,595.1	-95.1	-84.2	127.0	0.90	-0.72	10.40
6,700.0	2.10	230.35	6,695.0	-98.0	-87.2	131.2	0.67	-0.56	8.80
6,800.0	1.85	229.91	6,794.9	-100.2	-89.8	134.6	0.25	-0.25	-0.44
6,900.0	1.40	234.48	6,894.9	-102.0	-92.0	137.4	0.47	-0.45	4.57
7,000.0	0.76	222.74	6,994.9	-103.2	-93.5	139.2	0.68	-0.65	-11.74
7,100.0	0.67	197.73	7,094.8	-104.2	-94.1	140.4	0.32	-0.08	-25.01
7,200.0	1.13	215.33	7,194.8	-105.6	-94.9	141.9	0.53	0.46	17.60
7,300.0	1.38	219.01	7,294.8	-107.3	-96.2	144.1	0.26	0.25	3.67
7,400.0	1.18	214.54	7,394.8	-109.1	-97.5	146.3	0.22	-0.20	-4.47
7,500.0	1.13	218.90	7,494.8	-110.7	-98.7	148.3	0.10	-0.05	4.36
7,600.0	1.15	239.03	7,594.7	-112.0	-100.2	150.3	0.40	0.02	20.13
7,700.0	0.68	290.06	7,694.7	-112.3	-101.6	151.5	0.90	-0.47	51.03
7,800.0	0.60	196.24	7,794.7	-112.6	-102.3	152.2	0.94	-0.08	-93.82
7,900.0	1.11	194.01	7,894.7	-114.1	-102.7	153.5	0.51	0.51	-2.24
8,000.0	1.13	215.23	7,994.7	-115.8	-103.5	155.3	0.41	0.02	21.22
8,100.0	1.57	230.90	8,094.7	-117.5	-105.2	157.7	0.57	0.44	15.67
8,200.0	1.63	231.81	8,194.6	-119.2	-107.3	160.4	0.06	0.06	0.91
8,300.0	1.43	237.22	8,294.6	-120.8	-109.5	163.0	0.24	-0.20	5.42
8,350.0	1.41	238.12	8,344.6	-121.4	-110.6	164.2	0.07	-0.05	1.79
8350' MD VES Gryo									
8,557.0	2.90	183.90	8,551.4	-128.0	-113.1	170.8	1.14	0.72	-26.19
8,589.0	7.30	176.00	8,583.3	-130.8	-113.0	172.8	13.89	13.75	-24.69
8,621.0	11.60	172.50	8,614.9	-136.1	-112.4	176.3	13.55	13.44	-10.94
8,652.0	14.60	175.70	8,645.1	-143.0	-111.7	181.0	9.95	9.68	10.32
8,684.0	18.90	170.30	8,675.7	-152.2	-110.6	187.0	14.28	13.44	-16.88
8,716.0	22.90	166.50	8,705.6	-163.4	-108.2	193.7	13.19	12.50	-11.88
8,747.0	26.90	166.20	8,733.7	-176.0	-105.1	201.0	12.91	12.90	-0.97
8,779.0	31.00	165.80	8,761.7	-191.1	-101.4	209.5	12.83	12.81	-1.25



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Survey										
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8,811.0	35.60	165.50	8,788.4	-208.1	-97.0	219.2	14.38	14.38	-0.94	
8,842.0	38.60	167.10	8,813.2	-226.2	-92.6	229.6	10.17	9.68	5.16	
8,874.0	40.50	168.80	8,837.8	-246.2	-88.4	241.5	6.83	5.94	5.31	
8,906.0	42.50	169.30	8,861.8	-267.0	-84.3	254.2	6.34	6.25	1.56	
8,938.0	44.70	170.10	8,885.0	-288.7	-80.4	267.6	7.09	6.88	2.50	
8,969.0	47.50	169.80	8,906.5	-310.7	-76.5	281.2	9.06	9.03	-0.97	
9,001.0	49.60	168.80	8,927.6	-334.2	-72.1	295.7	6.97	6.56	-3.13	
9,032.0	52.40	166.80	8,947.2	-357.8	-67.0	309.6	10.33	9.03	-6.45	
9,064.0	55.30	166.30	8,966.0	-382.9	-60.9	324.2	9.15	9.06	-1.56	
9,096.0	57.80	166.50	8,983.7	-408.9	-54.7	339.1	7.83	7.81	0.63	
9,127.0	59.90	167.20	8,999.7	-434.7	-48.6	354.2	7.04	6.77	2.26	
9,159.0	61.90	167.30	9,015.3	-462.0	-42.5	370.2	6.26	6.25	0.31	
9,190.0	63.00	168.70	9,029.6	-488.9	-36.7	386.2	5.35	3.55	4.52	
9,220.9	65.51	170.54	9,043.0	-516.2	-31.7	403.1	9.73	8.12	5.94	
LP Viper 29/32 WOLM Fed Com 1H										
9,222.0	65.60	170.60	9,043.5	-517.2	-31.6	403.7	9.73	8.16	5.82	
9,254.0	68.70	172.60	9,055.9	-546.4	-27.3	422.4	11.27	9.69	6.25	
9,286.0	76.40	174.40	9,065.5	-576.7	-23.8	442.5	24.65	24.06	5.63	
9,317.0	76.40	175.20	9,072.8	-606.7	-21.1	462.8	2.51	0.00	2.58	
9,359.0	82.50	175.70	9,080.5	-647.8	-17.8	491.0	14.57	14.52	1.19	
9,426.0	85.90	178.10	9,087.2	-714.4	-14.2	537.8	6.20	5.07	3.58	
9,457.0	85.80	177.90	9,089.5	-745.3	-13.1	559.9	0.72	-0.32	-0.65	
9,489.0	86.50	177.40	9,091.6	-777.2	-11.8	582.6	2.69	2.19	-1.56	
9,552.0	88.40	177.60	9,094.4	-840.1	-9.1	627.3	3.03	3.02	0.32	
9,648.0	89.90	178.00	9,095.9	-936.0	-5.4	695.7	1.62	1.56	0.42	
9,743.0	89.50	178.90	9,096.4	-1,030.9	-2.8	764.2	1.04	-0.42	0.95	
9,838.0	89.10	178.90	9,097.5	-1,125.9	-1.0	833.2	0.42	-0.42	0.00	
9,933.0	89.30	179.50	9,098.8	-1,220.9	0.3	902.5	0.67	0.21	0.63	
10,029.0	90.10	179.30	9,099.3	-1,316.9	1.3	972.9	0.86	0.83	-0.21	
10,124.0	90.30	179.00	9,099.0	-1,411.9	2.7	1,042.1	0.38	0.21	-0.32	
10,219.0	90.50	178.90	9,098.3	-1,506.9	4.5	1,111.2	0.24	0.21	-0.11	
10,314.0	90.90	179.50	9,097.2	-1,601.8	5.8	1,180.5	0.76	0.42	0.63	
10,409.0	91.20	179.60	9,095.4	-1,696.8	6.5	1,250.3	0.33	0.32	0.11	
10,505.0	90.40	180.80	9,094.1	-1,792.8	6.2	1,321.5	1.50	-0.83	1.25	
10,600.0	91.00	180.70	9,092.9	-1,887.8	5.0	1,392.5	0.64	0.63	-0.11	
10,696.0	89.50	181.80	9,092.5	-1,983.8	2.9	1,464.9	1.94	-1.56	1.15	
10,791.0	89.90	182.40	9,093.0	-2,078.7	-0.6	1,537.5	0.76	0.42	0.63	
10,887.0	90.50	182.60	9,092.7	-2,174.6	-4.8	1,611.2	0.66	0.63	0.21	
10,982.0	90.90	182.60	9,091.5	-2,269.5	-9.1	1,684.3	0.42	0.42	0.00	
11,077.0	89.80	180.90	9,090.9	-2,364.5	-12.0	1,756.4	2.13	-1.16	-1.79	
11,172.0	89.80	180.50	9,091.3	-2,459.4	-13.2	1,827.4	0.42	0.00	-0.42	
11,267.0	90.00	180.30	9,091.4	-2,554.4	-13.8	1,898.1	0.30	0.21	-0.21	
11,363.0	90.20	180.20	9,091.3	-2,650.4	-14.3	1,969.4	0.23	0.21	-0.10	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Viper 29/32 W0LM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Site:	Section 29/32-T23S-R27E Viper W0LM Fed Com #1H	MD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Well:	Viper 29/32 W0LM Fed 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)
11,457.0	90.70	179.60	9,090.5	-2,744.4	-14.1	2,038.8	0.83	0.53	-0.64
11,553.0	90.70	179.60	9,089.4	-2,840.4	-13.4	2,109.3	0.00	0.00	0.00
11,648.0	90.90	181.50	9,088.0	-2,935.4	-14.3	2,180.2	2.01	0.21	2.00
11,743.0	91.40	181.60	9,086.1	-3,030.4	-16.9	2,252.1	0.54	0.53	0.11
11,838.0	91.40	182.70	9,083.8	-3,125.3	-20.5	2,324.7	1.16	0.00	1.16
11,933.0	90.00	182.70	9,082.7	-3,220.1	-24.9	2,397.8	1.47	-1.47	0.00
12,028.0	89.80	182.80	9,082.8	-3,315.0	-29.5	2,471.1	0.24	-0.21	0.11
12,123.0	89.70	182.60	9,083.2	-3,409.9	-34.0	2,544.2	0.24	-0.11	-0.21
12,218.0	90.00	183.10	9,083.5	-3,504.8	-38.7	2,617.6	0.61	0.32	0.53
12,313.0	89.70	183.30	9,083.7	-3,599.7	-44.0	2,691.3	0.38	-0.32	0.21
12,409.0	89.80	183.40	9,084.1	-3,695.5	-49.6	2,765.9	0.15	0.10	0.10
12,504.0	91.10	181.60	9,083.4	-3,790.4	-53.8	2,838.9	2.34	1.37	-1.89
12,600.0	91.50	181.90	9,081.2	-3,886.3	-56.7	2,911.8	0.52	0.42	0.31
12,695.0	91.30	182.50	9,078.9	-3,981.2	-60.3	2,984.4	0.67	-0.21	0.63
12,790.0	92.30	181.00	9,075.9	-4,076.1	-63.2	3,056.6	1.90	1.05	-1.58
12,885.0	92.60	180.90	9,071.9	-4,171.0	-64.8	3,127.8	0.33	0.32	-0.11
12,981.0	90.40	181.40	9,069.3	-4,267.0	-66.7	3,200.0	2.35	-2.29	0.52
13,076.0	90.80	181.60	9,068.4	-4,361.9	-69.2	3,271.9	0.47	0.42	0.21
13,171.0	89.50	181.90	9,068.1	-4,456.9	-72.1	3,344.1	1.40	-1.37	0.32
13,266.0	89.30	182.00	9,069.1	-4,551.8	-75.3	3,416.5	0.24	-0.21	0.11
13,361.0	89.30	182.20	9,070.3	-4,646.8	-78.8	3,489.0	0.21	0.00	0.21
13,456.0	89.90	182.60	9,070.9	-4,741.7	-82.8	3,561.9	0.76	0.63	0.42
13,551.0	90.20	182.80	9,070.8	-4,836.6	-87.3	3,635.0	0.38	0.32	0.21
13,646.0	91.00	183.20	9,069.8	-4,931.4	-92.3	3,708.5	0.94	0.84	0.42
13,741.0	91.30	183.80	9,067.9	-5,026.2	-98.1	3,782.5	0.71	0.32	0.63
13,836.0	90.60	182.50	9,066.4	-5,121.1	-103.3	3,856.2	1.55	-0.74	-1.37
13,931.0	90.10	180.40	9,065.8	-5,216.0	-105.7	3,928.0	2.27	-0.53	-2.21
14,026.0	90.70	180.80	9,065.1	-5,311.0	-106.7	3,998.9	0.76	0.63	0.42
14,121.0	90.60	180.70	9,064.0	-5,406.0	-107.9	4,070.0	0.15	-0.11	-0.11
14,216.0	90.80	180.40	9,062.9	-5,501.0	-108.8	4,140.8	0.38	0.21	-0.32
14,311.0	91.20	180.50	9,061.2	-5,596.0	-109.6	4,211.6	0.43	0.42	0.11
14,406.0	91.50	180.80	9,059.0	-5,690.9	-110.7	4,282.5	0.45	0.32	0.32
14,501.0	90.50	180.20	9,057.3	-5,785.9	-111.5	4,353.3	1.23	-1.05	-0.63
14,596.0	90.40	180.30	9,056.6	-5,880.9	-111.9	4,423.8	0.15	-0.11	0.11
14,691.0	90.50	180.30	9,055.8	-5,975.9	-112.4	4,494.4	0.11	0.11	0.00
14,786.0	90.60	180.40	9,054.9	-6,070.9	-113.0	4,565.0	0.15	0.11	0.11
14,881.0	90.50	180.30	9,054.0	-6,165.9	-113.6	4,635.7	0.15	-0.11	-0.11
14,976.0	90.70	181.00	9,053.0	-6,260.9	-114.6	4,706.6	0.77	0.21	0.74
15,071.0	89.40	180.40	9,052.9	-6,355.9	-115.8	4,777.6	1.51	-1.37	-0.63
15,166.0	89.30	180.60	9,054.0	-6,450.9	-116.6	4,848.4	0.24	-0.11	0.21
15,261.0	89.50	181.00	9,055.0	-6,545.9	-117.9	4,919.6	0.47	0.21	0.42
15,356.0	89.70	181.20	9,055.7	-6,640.8	-119.8	4,991.0	0.30	0.21	0.21



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Viper 29/32 W0LM Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Site:	Section 29/32-T23S-R27E Viper W0LM Fed Com #1H	MD Reference:	GL 3198+27 @ 3225.0usft (Patterson #243)
Well:	Viper 29/32 W0LM Fed 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)	
15,451.0	89.90	181.60	9,056.0	-6,735.8	-122.1	5,062.8	0.47	0.21	0.42	
15,546.0	89.70	181.30	9,056.3	-6,830.8	-124.5	5,134.7	0.38	-0.21	-0.32	
15,641.0	89.90	181.40	9,056.7	-6,925.8	-126.7	5,206.4	0.24	0.21	0.11	
15,736.0	90.30	182.00	9,056.5	-7,020.7	-129.6	5,278.5	0.76	0.42	0.63	
15,831.0	90.90	182.80	9,055.5	-7,115.6	-133.5	5,351.4	1.05	0.63	0.84	
15,926.0	91.00	183.00	9,053.9	-7,210.5	-138.3	5,424.7	0.24	0.11	0.21	
16,021.0	91.50	183.80	9,051.9	-7,305.3	-144.0	5,498.6	0.99	0.53	0.84	
16,107.0	92.00	184.00	9,049.2	-7,391.1	-149.8	5,566.0	0.63	0.58	0.23	
16,160.0	92.00	184.00	9,047.4	-7,443.9	-153.5	5,607.5	0.00	0.00	0.00	
16160' MD Projected to Bit - PBHL Viper 29/32 W0LM Fed Com #1H										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,350.0	8,344.6	-121.4	-110.6	8350' MD VES Gryo
16,160.0	9,047.4	-7,443.9	-153.5	16160' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Viper 29/32 WOLM Fed Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #243

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.35°



GEODETTIC ZONE: New Mexico East 3001					
GL 3198+27 @ 3225.0usft (Patterson #243)					
GROUND ELEVATION: 3198.0					
+N-S	+E-W	North	East	Latitude	Longitude
0.0	0.0	463802.15	535416.20	32° 16' 30.205 N	104° 13' 7.472 W
					Slot

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	8350.0	1.41	238.12	8344.6	-121.4	-110.6	0.00	0.00	123.1	
2	8420.4	0.00	238.12	8415.0	-121.9	-111.3	2.00	180.00	123.6	
3	8544.0	0.00	238.12	8538.6	-121.9	-111.3	0.00	238.12	123.6	
4	8784.1	25.00	152.00	8771.1	-167.4	-87.1	10.41	152.00	168.7	
5	9444.5	90.50	180.83	9109.0	-684.3	-17.9	10.41	31.15	684.5	
6	16208.7	90.50	180.83	9050.0	-7447.6	-115.8	0.00	0.00	7448.5	PBHL Viper 29/32 WOLM Fed Com #1H

SHL: 2455' FSL; 450' FWL
 Section 29-23S-27E
 PBHL: 330' FSL; 450' FWL
 Section 32-23S-27E

