



March 22, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 26 2018

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

RECEIVED

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Zeppelin 32 WOLI State Com #001H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
~~API# 30-015-44560~~

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>
Jimmy Walker	Original Hole	516 ft. to 14,184 ft.	02-13-18 to 02-26-18	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.


Todd 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\Zeppelin 32 WOLI State Com #1H\M181007

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



March 22, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of February 13, 2018, through February 26, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 516 feet to a depth of 14,184 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Zeppelin 32 WOLI State Com #001H well, API # 30-015-44560 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.

Todd Estes

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 32-23S-28E Zeppelin 32 WOLI St Com 1
Well: Zeppelin 32 WOLI State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 WOLI State Com 1H
TVD Reference: 3105 + 27 @ 3132.0usft (Patterson 245)
MD Reference: 3105 + 27 @ 3132.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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

Site	Section 32-23S-28E Zeppelin 32 WOLI St Com 1H				
Site Position:		Northing:	458,321.00 usft	Latitude:	32° 15' 35.335 N
From: Map		Easting:	608,048.30 usft	Longitude:	104° 7' 3.066 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Zeppelin 32 WOLI State Com 1H				
Well Position	+N/-S 0.0 usft	Northing:	458,321.00 usft	Latitude:	32° 15' 35.335 N
	+E/-W 0.0 usft	Easting:	608,048.30 usft	Longitude:	104° 7' 3.066 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,105.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/4/2018	7.15	60.00	47,846.61827484
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	211.03	



Microsoft MWD Surveys



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Survey Program Date 2/26/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
190.0	456.0	Teledrift Survey (Original Hole)	MWD	MWD v3:standard declination
516.0	14,250.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (")	Tie-In
456.0	1.20	228.90	456.0	-1.7	-3.0	3.5	240.28	
516.0	0.70	232.20	516.0	-2.4	-3.8	4.5	238.03	
578.0	0.10	294.50	578.0	-2.6	-4.1	4.9	238.11	
640.0	0.20	40.50	640.0	-2.5	-4.1	4.8	239.04	
702.0	0.40	59.00	702.0	-2.3	-3.9	4.5	239.48	
764.0	0.40	69.40	764.0	-2.1	-3.5	4.1	238.98	
831.0	0.70	69.80	831.0	-1.9	-2.9	3.4	238.99	
894.0	0.70	80.10	894.0	-1.7	-2.1	2.7	232.00	
958.0	0.70	81.80	958.0	-1.5	-1.4	2.1	221.45	
1,021.0	1.00	83.70	1,020.9	-1.4	-0.4	1.5	197.10	
1,084.0	0.20	178.00	1,083.9	-1.5	0.1	1.5	175.79	
1,147.0	0.90	239.00	1,146.9	-1.8	-0.3	1.9	189.55	
1,211.0	1.10	234.40	1,210.9	-2.5	-1.2	2.8	206.73	
1,274.0	0.40	202.40	1,273.9	-3.0	-1.8	3.5	211.03	
1,337.0	0.60	116.10	1,336.9	-3.4	-1.6	3.7	205.47	
1,401.0	0.90	110.00	1,400.9	-3.7	-0.8	3.8	192.70	
1,464.0	1.10	109.80	1,463.9	-4.1	0.2	4.1	177.15	
1,528.0	0.70	62.00	1,527.9	-4.1	1.1	4.2	164.60	
1,591.0	1.20	35.90	1,590.9	-3.4	1.9	3.8	151.22	
1,654.0	0.50	32.60	1,653.9	-2.6	2.4	3.5	137.51	
1,718.0	0.50	133.80	1,717.9	-2.6	2.7	3.8	133.10	



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1,781.0	1.10	138.60	1,780.9	-3.2	3.3	4.6	133.86
1,910.0	1.60	4.00	1,909.9	-2.3	4.3	4.9	118.65
2,008.0	1.50	72.30	2,005.8	-0.6	5.6	5.6	96.36
2,101.0	0.70	121.60	2,100.8	-0.5	7.3	7.3	94.31
2,198.0	1.10	152.00	2,195.8	-1.7	8.2	8.3	101.45
2,292.0	0.60	53.90	2,291.8	-2.2	9.0	9.3	103.56
2,387.0	1.40	12.00	2,386.8	-0.7	9.7	9.7	94.41
2,483.0	1.60	4.40	2,482.8	1.7	10.0	10.2	80.14
2,602.0	1.70	358.10	2,601.7	5.2	10.1	11.3	62.88
2,697.0	1.80	2.60	2,696.7	8.1	10.1	12.9	51.40
2,791.0	2.70	332.00	2,790.6	11.5	9.1	14.7	38.45
2,886.0	3.40	324.10	2,885.5	15.7	6.4	17.0	22.18
2,982.0	3.70	320.80	2,981.3	20.5	2.8	20.6	7.77
3,077.0	3.50	322.90	3,076.1	25.1	-0.9	25.2	357.96
3,173.0	3.40	319.90	3,171.9	29.7	-4.5	30.0	351.38
3,267.0	3.30	317.30	3,265.7	33.8	-8.1	34.7	346.47
3,363.0	3.20	316.80	3,361.6	37.8	-11.8	39.6	342.60
3,458.0	3.10	315.50	3,456.5	41.5	-15.5	44.3	339.59
3,553.0	3.10	313.90	3,551.3	45.1	-19.1	49.0	337.06
3,648.0	3.20	311.70	3,646.2	48.7	-22.9	53.8	334.78
3,743.0	3.20	311.30	3,741.0	52.2	-26.9	58.7	332.73
3,838.0	3.10	308.10	3,835.9	55.5	-30.9	63.6	330.89
3,933.0	2.90	302.00	3,930.7	58.4	-35.0	68.1	329.08
4,028.0	3.70	300.50	4,025.6	61.2	-39.7	72.9	327.07
4,124.0	3.90	300.50	4,121.4	64.4	-45.1	78.7	324.99
4,219.0	3.80	318.80	4,216.2	68.5	-50.0	84.8	323.86
4,315.0	3.90	316.90	4,312.0	73.2	-54.3	91.2	323.43



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4,410.0	2.70	330.10	4,406.8	77.5	-57.6	96.6	323.37
4,505.0	2.60	327.90	4,501.7	81.3	-59.9	101.0	323.61
4,600.0	2.50	323.30	4,596.6	84.8	-62.3	105.2	323.70
4,695.0	2.40	320.60	4,691.5	88.0	-64.8	109.3	323.63
4,790.0	3.10	322.90	4,786.4	91.6	-67.6	113.8	323.56
4,885.0	3.00	316.60	4,881.3	95.4	-70.9	118.9	323.40
4,979.0	3.50	327.20	4,975.1	99.6	-74.1	124.2	323.36
5,074.0	3.50	326.00	5,069.9	104.5	-77.3	130.0	323.50
5,169.0	3.30	321.40	5,164.8	109.0	-80.6	135.8	323.51
5,265.0	3.20	320.40	5,260.6	113.2	-84.1	141.0	323.41
5,360.0	2.90	318.10	5,355.5	117.1	-87.4	146.1	323.27
5,455.0	2.90	312.00	5,450.4	120.5	-90.7	150.8	323.01
5,551.0	2.50	304.60	5,546.3	123.3	-94.3	155.2	322.59
5,646.0	2.80	321.00	5,641.2	126.3	-97.4	159.5	322.34
5,741.0	3.70	320.10	5,738.0	130.4	-100.9	164.9	322.28
5,836.0	3.70	316.30	5,830.8	135.0	-104.9	171.0	322.13
5,931.0	3.30	308.80	5,925.6	138.9	-109.2	176.7	321.83
6,026.0	3.40	313.60	6,020.5	142.6	-113.4	182.1	321.51
6,121.0	4.40	332.00	6,115.2	147.7	-117.1	188.5	321.59
6,218.0	4.30	333.10	6,210.0	154.1	-120.4	195.6	321.99
6,311.0	3.90	318.00	6,304.7	159.7	-124.2	202.3	322.14
6,407.0	3.60	307.80	6,400.5	164.0	-128.7	208.5	321.88
6,503.0	4.10	323.30	6,496.3	168.6	-133.1	214.9	321.71
6,597.0	3.30	320.50	6,590.1	173.4	-136.9	220.9	321.72
6,693.0	2.50	348.00	6,686.0	177.6	-139.0	225.6	321.94
6,789.0	2.60	355.10	6,781.9	181.8	-139.7	229.3	322.47
6,883.0	2.40	350.40	6,875.8	185.9	-140.2	232.8	322.98



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6,978.0	2.50	343.60	6,970.7	189.8	-141.1	236.5	323.38
7,073.0	2.30	328.30	7,065.6	193.4	-142.7	240.4	323.59
7,169.0	3.30	322.90	7,161.5	197.3	-145.4	245.1	323.62
7,264.0	3.70	339.20	7,256.4	202.3	-148.1	250.7	323.80
7,359.0	3.30	342.90	7,351.2	207.8	-150.0	256.3	324.18
7,453.0	3.20	336.70	7,445.0	212.8	-151.8	261.4	324.49
7,549.0	2.00	307.70	7,540.9	216.3	-154.2	265.6	324.51
7,644.0	2.10	315.10	7,635.9	218.5	-156.8	268.9	324.35
7,739.0	3.60	335.80	7,730.7	222.5	-159.2	273.6	324.41
7,834.0	3.70	331.90	7,825.6	227.9	-161.9	279.5	324.62
7,929.0	3.60	329.10	7,920.4	233.2	-164.8	285.6	324.74
8,022.0	3.00	323.50	8,013.2	237.6	-167.8	290.9	324.78
8,117.0	3.60	328.90	8,108.1	242.2	-170.8	296.4	324.81
8,212.0	3.20	321.80	8,202.9	246.8	-174.0	302.0	324.82
8,307.0	3.70	344.30	8,297.7	251.9	-176.5	307.5	324.98
8,402.0	2.50	330.00	8,392.6	256.6	-178.3	312.5	325.20
8,497.0	3.00	316.10	8,487.5	260.2	-181.1	317.0	325.16
8,593.0	3.90	323.00	8,583.3	264.8	-184.8	322.8	325.07
8,688.0	3.50	312.40	8,678.1	269.1	-188.9	328.8	324.94
8,783.0	2.40	310.50	8,773.0	272.4	-192.5	333.6	324.75
8,878.0	1.60	295.60	8,867.9	274.3	-195.2	336.7	324.55
8,909.0	1.40	295.50	8,898.9	274.6	-196.0	337.4	324.49
8,910.1	1.40	295.20	8,900.0	274.6	-196.0	337.4	324.48
B.B. Zeppelin 32 WOLI St Com 1H							
8,928.0	1.40	290.00	8,918.9	274.8	-196.4	337.8	324.44
8,961.0	0.80	294.20	8,950.9	275.0	-197.0	338.3	324.39
8,993.0	2.50	84.00	8,982.9	275.2	-196.5	338.1	324.47



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9,024.0	6.00	98.20	9,013.8	275.0	-194.2	336.7	324.77
9,056.0	10.00	102.70	9,045.5	274.2	-189.9	333.5	325.30
9,088.0	13.00	106.30	9,076.8	272.8	-183.7	328.7	326.02
9,120.0	13.50	112.80	9,108.0	270.1	-178.8	322.8	326.79
9,151.0	17.00	100.80	9,137.9	267.8	-169.0	316.7	327.75
9,183.0	21.40	96.90	9,168.1	266.3	-158.6	309.9	329.22
9,215.0	25.00	94.40	9,197.5	265.0	-146.1	302.6	331.14
9,246.0	29.10	91.10	9,225.1	264.4	-132.0	295.5	333.47
9,278.0	33.90	87.70	9,252.4	264.6	-115.3	288.6	336.46
9,310.0	39.20	85.20	9,278.1	265.8	-96.3	282.7	340.09
9,341.0	44.60	83.10	9,301.2	267.9	-75.7	278.4	344.23
9,373.0	47.50	82.40	9,323.4	270.9	-52.8	276.0	348.96
9,405.0	49.30	82.10	9,344.6	274.1	-29.1	275.6	353.93
9,437.0	53.10	83.70	9,364.7	277.2	-4.4	277.2	359.09
9,468.0	57.70	84.60	9,382.3	279.7	21.0	280.5	4.29
9,500.0	61.10	86.40	9,398.5	281.9	48.4	286.0	9.75
9,531.0	64.70	87.50	9,412.7	283.4	76.0	293.4	15.01
9,563.0	67.50	87.70	9,425.6	284.6	105.2	303.4	20.29
9,595.0	70.20	87.90	9,437.2	285.7	135.0	316.0	25.30
9,627.0	73.30	88.90	9,447.2	286.6	165.4	330.9	29.99
9,659.0	75.70	90.90	9,455.7	286.6	196.3	347.4	34.40
9,691.0	78.20	92.30	9,463.0	285.8	227.4	365.2	38.51
9,747.0	85.00	95.20	9,471.1	282.1	282.6	399.4	45.05
9,779.0	88.00	92.60	9,473.1	280.0	314.5	421.1	48.33
9,811.0	87.00	91.20	9,474.5	278.9	346.5	444.8	51.17
9,905.0	89.70	90.30	9,477.2	277.7	440.4	520.6	57.77



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9,942.0	89.51	89.75	9,477.5	277.7	477.4	552.3	59.82
LP Zeppelin 32 WOLI St Com 1H							
10,000.0	89.20	88.90	9,478.1	278.3	535.4	603.4	62.53
10,095.0	91.50	91.80	9,477.5	277.8	630.4	688.9	66.22
10,191.0	90.90	91.40	9,475.5	275.1	726.3	776.7	69.26
10,286.0	88.70	91.90	9,475.9	272.3	821.3	865.2	71.65
10,382.0	89.20	91.80	9,477.6	269.2	917.2	955.9	73.64
10,477.0	87.60	90.70	9,480.3	267.2	1,012.1	1,046.8	75.21
10,571.0	86.90	90.30	9,484.8	266.3	1,106.0	1,137.6	76.46
10,666.0	86.70	90.10	9,490.1	266.0	1,200.9	1,230.0	77.51
10,762.0	91.50	91.00	9,491.6	265.1	1,296.8	1,323.6	78.45
10,857.0	87.10	88.50	9,492.8	265.5	1,391.8	1,416.9	79.20
10,953.0	89.10	89.50	9,495.9	267.2	1,487.7	1,511.5	79.82
11,048.0	88.40	88.20	9,498.0	269.1	1,582.7	1,605.4	80.35
11,143.0	88.00	88.20	9,501.0	272.1	1,677.6	1,699.5	80.79
11,238.0	88.00	87.60	9,504.3	275.5	1,772.5	1,793.7	81.16
11,333.0	89.80	89.00	9,506.1	278.4	1,867.4	1,888.0	81.52
11,428.0	89.60	88.90	9,506.6	280.1	1,962.4	1,982.3	81.88
11,524.0	89.90	90.80	9,507.0	280.4	2,058.4	2,077.4	82.24
11,620.0	89.80	90.10	9,507.3	279.6	2,154.4	2,172.4	82.61
11,715.0	87.60	90.50	9,509.5	279.1	2,249.3	2,266.6	82.93
11,810.0	88.30	91.10	9,512.9	277.8	2,344.3	2,360.7	83.24
11,905.0	88.30	90.60	9,515.7	276.4	2,439.2	2,454.8	83.54
12,000.0	90.00	91.10	9,517.1	275.0	2,534.2	2,549.1	83.81
12,094.0	89.80	90.90	9,517.2	273.3	2,628.2	2,642.3	84.06
12,189.0	90.50	91.40	9,517.0	271.4	2,723.2	2,736.6	84.31
12,284.0	87.80	92.50	9,518.4	268.2	2,818.1	2,830.8	84.56



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 32-23S-28E Zeppelin 32 WOLI St Com 1
Well: Zeppelin 32 WOLI State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 WOLI State Com 1H
TVD Reference: 3105 + 27 @ 3132.0usft (Patterson 245)
MD Reference: 3105 + 27 @ 3132.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,380.0	87.90	93.30	9,522.0	263.3	2,913.9	2,925.8	84.84
12,475.0	88.00	95.20	9,525.4	256.3	3,008.6	3,019.5	85.13
12,569.0	85.70	94.00	9,530.6	248.8	3,102.1	3,112.1	85.42
12,665.0	85.10	91.10	9,538.3	244.5	3,197.7	3,207.0	85.63
12,760.0	85.30	90.70	9,546.2	243.0	3,292.3	3,301.3	85.78
12,855.0	87.30	90.00	9,552.3	242.4	3,387.1	3,395.8	85.91
12,950.0	87.00	89.10	9,557.1	243.2	3,482.0	3,490.5	86.00
13,045.0	88.10	88.10	9,561.1	245.5	3,576.9	3,585.3	86.07
13,140.0	91.80	87.50	9,561.2	249.2	3,671.8	3,680.3	86.12
13,236.0	89.80	86.60	9,559.9	254.1	3,767.7	3,776.2	86.14
13,331.0	90.80	86.90	9,559.4	259.5	3,862.5	3,871.2	86.16
13,426.0	89.50	85.60	9,559.1	265.7	3,957.3	3,966.2	86.16
13,521.0	87.70	85.00	9,561.5	273.5	4,052.0	4,061.2	86.14
13,616.0	92.00	87.60	9,561.7	279.6	4,146.7	4,156.1	86.14
13,711.0	91.90	87.80	9,558.5	283.4	4,241.6	4,251.1	86.18
13,807.0	89.10	85.80	9,557.6	288.8	4,337.4	4,347.0	86.19
13,901.0	90.10	88.70	9,558.3	293.3	4,431.3	4,441.0	86.21
13,997.0	90.30	91.20	9,558.0	293.4	4,527.3	4,536.8	86.29
14,092.0	88.60	90.50	9,558.9	292.0	4,622.3	4,631.5	86.39
14,184.0	84.90	90.20	9,564.1	291.4	4,714.1	4,723.1	86.46
14,250.0	84.90	90.20	9,569.9	291.2	4,779.9	4,788.7	86.51

14250.0' MD Projected to Bit - PBHL Zeppelin 32 WOLI St Com 1H