



NM OIL CONSERVATION  
ARTESIA DISTRICT

JUL 30 2018

RECEIVED

April 2, 2018

Survey Certification Report

30-015-43165

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 January 20, 2018, through February 08, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 420 feet to a depth of 15,105 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 W2LI State Com #002H well, API # 30-015-43165 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

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



NM OIL CONSERVATION  
ARTESIA DISTRICT

JUL 30 2018

RECEIVED

April 2, 2018

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  
Zeppelin 32 W2LI State Com #002H  
Purple Sage; Wolfcamp (Gas)  
Eddy County, New Mexico  
API# 30-015-43165

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 &amp; Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Dustin Doan	Original Hole	420ft. to 15,105ft.	01-20-18 to 02-08-18	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 W2LI State Com #2H\M181019

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



**Microsoft**  
MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 32-23S-28E Zeppelin 32 W2LI St Com 2I  
**Well:** Zeppelin 32 W2LI State Com 2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Zeppelin 32 W2LI State Com 2H  
**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

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

<b>Site</b>	Section 32-23S-28E Zeppelin 32 W2LI St Com 2H		
<b>Site Position:</b>		<b>Northing:</b>	458,271.00 usft
<b>From:</b>	Map	<b>Easting:</b>	608,047.90 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 15' 34.840 N
		<b>Longitude:</b>	104° 7' 3.072 W
		<b>Grid Convergence:</b>	0.12 °

<b>Well</b>	Zeppelin 32 W2LI State Com 2H		
<b>Well Position</b>	+N-S	0.0 usft	<b>Northing:</b> 458,271.00 usft
	+E-W	0.0 usft	<b>Easting:</b> 608,047.90 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b> 27.0 usft
			<b>Latitude:</b> 32° 15' 34.840 N
			<b>Longitude:</b> 104° 7' 3.072 W
			<b>Ground Level:</b> 3,105.0 usft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	1/4/2018	7.15	60.00	47,848.53654643
<b>Design</b>	Original Hole				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N-S (usft)</b>	<b>+E-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	112.37	



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2LI St Com 2f  
 Well: Zeppelin 32 W2LI State Com 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 W2LI State Com 2H  
 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 Program Date 2/9/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
222.0	411.0	Rig Survey s (Original Hole)	MWD	MWD v3:standard declination
420.0	15,170.0	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
411.0	1.10	271.00	411.0	-2.2	-3.7	4.3	239.37	
420.0	1.10	220.70	420.0	-2.2	-3.8	4.4	239.60	
481.0	1.10	247.30	481.0	-2.9	-4.7	5.5	238.45	
542.0	1.10	245.80	541.9	-3.4	-5.8	6.7	239.86	
604.0	0.20	302.60	603.9	-3.6	-6.4	7.3	241.09	
666.0	0.80	58.70	665.9	-3.3	-6.2	7.0	242.02	
728.0	1.00	68.20	727.9	-2.8	-5.3	6.0	241.70	
759.0	0.90	94.40	758.9	-2.8	-4.8	5.5	240.02	
825.0	0.50	111.50	824.9	-2.9	-4.0	4.9	234.01	
888.0	0.50	99.60	887.9	-3.1	-3.5	4.6	228.70	
952.0	0.70	92.50	951.9	-3.1	-2.8	4.2	222.03	
1,015.0	0.70	74.60	1,014.9	-3.0	-2.1	3.7	214.12	
1,078.0	0.70	91.60	1,077.9	-2.9	-1.3	3.2	203.82	
1,142.0	0.70	91.50	1,141.9	-3.0	-0.5	3.0	189.89	
1,205.0	0.70	98.30	1,204.9	-3.0	0.2	3.0	175.29	
1,268.0	0.70	100.50	1,267.9	-3.2	1.0	3.3	162.28	
1,332.0	0.70	109.70	1,331.9	-3.4	1.8	3.8	152.31	
1,395.0	0.30	67.80	1,394.9	-3.4	2.3	4.1	146.38	
1,459.0	0.30	14.80	1,458.9	-3.2	2.5	4.0	142.27	
1,522.0	0.40	26.30	1,521.9	-2.8	2.6	3.9	137.39	
1,586.0	0.70	59.30	1,585.9	-2.4	3.0	3.9	128.68	



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2LI St Corn 2I  
 Well: Zeppelin 32 W2LI State Corn 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 W2LI State Corn 2H  
 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 (°)
1,649.0	1.30	76.60	1,648.9	-2.1	4.1	4.6	117.03
1,712.0	1.40	89.60	1,711.9	-1.9	5.5	5.9	109.00
1,776.0	1.30	113.60	1,775.8	-2.2	7.0	7.3	107.43
1,810.0	1.10	119.90	1,809.8	-2.5	7.8	8.0	108.23
1,905.0	0.40	157.30	1,904.8	-3.3	8.5	9.1	110.95
2,000.0	1.00	104.50	1,999.8	-3.8	9.5	10.2	111.78
2,096.0	1.00	55.40	2,095.8	-3.5	11.0	11.5	107.78
2,191.0	0.30	296.20	2,190.8	-2.9	11.4	11.8	104.41
2,286.0	0.30	200.00	2,285.8	-3.1	11.1	11.5	105.39
2,382.0	0.40	172.20	2,381.8	-3.6	11.1	11.7	108.13
2,477.0	0.50	184.70	2,476.8	-4.4	11.1	11.9	111.51
2,498.0	0.50	188.30	2,497.8	-4.6	11.1	12.0	112.35
2,600.0	0.40	193.00	2,599.8	-5.3	10.9	12.2	116.04
2,695.0	0.90	18.00	2,694.8	-5.0	11.1	12.1	114.08
2,789.0	1.70	337.60	2,788.8	-3.0	10.8	11.2	105.37
2,884.0	3.20	329.10	2,883.7	0.6	8.9	8.9	86.04
2,980.0	3.50	331.30	2,979.5	5.5	6.1	6.2	48.04
3,075.0	3.90	318.60	3,074.3	10.5	2.6	10.8	13.82
3,171.0	3.80	313.10	3,170.1	15.1	-1.9	15.2	352.78
3,265.0	3.40	310.40	3,263.9	19.0	-6.3	20.0	341.64
3,360.0	3.10	307.20	3,358.8	22.4	-10.5	24.7	334.87
3,456.0	2.90	305.90	3,454.6	25.4	-14.5	29.2	330.20
3,551.0	3.00	304.10	3,549.5	28.2	-18.5	33.7	326.66
3,646.0	3.60	315.40	3,644.3	31.7	-22.7	39.0	324.40
3,741.0	3.60	324.60	3,739.2	36.3	-26.5	44.9	323.82
3,836.0	3.40	321.70	3,834.0	40.9	-30.0	50.7	323.75
3,931.0	3.20	318.20	3,928.8	45.1	-33.5	56.2	323.39



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2L1 St Com 2l  
 Well: Zeppelin 32 W2L1 State Com 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 W2L1 State Com 2H  
 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 (°)
4,026.0	2.90	316.10	4,023.7	48.8	-36.9	61.2	322.88
4,122.0	3.20	332.50	4,119.6	52.9	-39.9	66.3	323.02
4,217.0	3.20	333.50	4,214.4	57.6	-42.3	71.5	323.75
4,313.0	3.30	335.30	4,310.3	62.6	-44.6	76.8	324.50
4,408.0	3.30	336.20	4,405.1	67.5	-46.9	82.2	325.25
4,503.0	3.10	330.60	4,499.9	72.3	-49.2	87.4	325.74
4,597.0	3.00	325.50	4,593.8	76.5	-51.9	92.4	325.87
4,693.0	2.40	323.30	4,689.7	80.2	-54.5	97.0	325.81
4,788.0	3.10	323.40	4,784.6	83.9	-57.2	101.5	325.70
4,883.0	2.60	315.70	4,879.5	87.5	-60.2	106.2	325.44
4,977.0	3.30	318.80	4,973.4	91.0	-63.5	111.0	325.09
5,072.0	3.00	321.70	5,068.2	95.0	-66.9	116.2	324.87
5,167.0	2.60	323.30	5,163.1	98.7	-69.7	120.8	324.78
5,263.0	2.30	321.90	5,259.0	102.0	-72.2	124.9	324.71
5,358.0	2.80	331.30	5,353.9	105.5	-74.5	129.1	324.79
5,453.0	2.60	328.00	5,448.8	109.4	-76.7	133.6	324.95
5,548.0	2.20	322.20	5,543.7	112.6	-79.0	137.6	324.96
5,644.0	2.80	325.70	5,639.6	116.0	-81.4	141.8	324.94
5,739.0	2.50	319.60	5,734.5	119.5	-84.1	146.1	324.87
5,834.0	3.10	324.00	5,829.4	123.2	-86.9	150.8	324.79
5,929.0	2.70	315.00	5,924.3	126.8	-90.0	155.5	324.63
6,024.0	2.80	318.90	6,019.2	130.2	-93.1	160.1	324.42
6,119.0	3.60	335.50	6,114.0	134.6	-95.9	165.3	324.54
6,214.0	3.10	329.80	6,208.9	139.6	-98.4	170.8	324.81
6,309.0	2.90	318.30	6,303.7	143.6	-101.3	175.7	324.79
6,405.0	2.80	324.80	6,399.6	147.3	-104.3	180.5	324.71
6,500.0	2.90	326.20	6,494.5	151.2	-107.0	185.2	324.73



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2LI St Com 2I  
 Well: Zeppelin 32 W2LI State Com 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 W2LI State Com 2H  
 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 (°)
6,595.0	1.40	330.30	6,589.4	154.2	-108.9	188.8	324.78
6,691.0	2.70	345.10	6,685.4	157.4	-110.0	192.1	325.05
6,786.0	2.60	346.60	6,780.3	161.7	-111.1	196.2	325.50
6,881.0	1.80	348.20	6,875.2	165.2	-111.9	199.6	325.89
6,976.0	2.80	312.40	6,970.1	168.3	-113.9	203.2	325.90
7,071.0	3.10	298.10	7,065.0	171.0	-117.9	207.7	325.42
7,166.0	2.80	291.70	7,159.9	173.1	-122.3	212.0	324.75
7,262.0	2.90	313.40	7,255.8	175.6	-126.3	216.3	324.29
7,357.0	2.40	310.50	7,350.7	178.6	-129.5	220.6	324.04
7,451.0	1.50	316.80	7,444.6	180.8	-131.9	223.7	323.89
7,547.0	2.50	329.60	7,540.6	183.5	-133.8	227.1	323.90
7,642.0	2.40	335.60	7,635.5	187.1	-135.7	231.1	324.05
7,737.0	3.40	328.60	7,730.3	191.3	-138.0	235.8	324.20
7,831.0	3.20	322.50	7,824.2	195.8	-141.0	241.2	324.23
7,926.0	2.70	324.50	7,919.1	199.7	-143.9	246.1	324.22
8,020.0	2.20	319.70	8,013.0	202.9	-146.4	250.1	324.19
8,115.0	2.50	324.00	8,107.9	205.9	-148.8	254.0	324.15
8,211.0	1.80	311.40	8,203.8	208.6	-151.1	257.6	324.08
8,306.0	2.40	335.80	8,298.8	211.4	-153.1	261.0	324.09
8,401.0	1.90	335.60	8,393.7	214.7	-154.5	264.5	324.25
8,496.0	3.00	336.00	8,488.6	218.4	-156.2	268.5	324.42
8,591.0	2.70	309.40	8,583.5	222.1	-158.9	273.1	324.41
8,687.0	3.40	323.30	8,679.4	225.8	-162.4	278.1	324.27
8,782.0	3.60	321.10	8,774.2	230.4	-165.9	283.9	324.23
8,877.0	3.30	319.40	8,869.0	234.7	-169.6	289.6	324.15
8,972.0	2.80	336.60	8,963.9	238.8	-172.2	294.4	324.20
9,068.0	1.80	328.40	9,059.8	242.1	-173.9	298.1	324.31



Microsoft  
MWD Surveys



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 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2LI St Com 2f  
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,163.0	2.40	335.40	9,154.8	245.2	-175.5	301.5	324.40
9,258.0	2.90	335.20	9,249.6	249.2	-177.3	305.8	324.56
9,353.0	2.40	332.50	9,344.5	253.1	-179.3	310.2	324.69
9,448.0	2.50	341.10	9,439.5	256.8	-180.9	314.1	324.85
9,543.0	3.70	343.20	9,534.3	261.7	-182.4	319.0	325.12
9,639.0	2.90	345.50	9,630.2	267.0	-183.9	324.2	325.44
9,734.0	1.60	321.20	9,725.1	270.4	-185.3	327.8	325.57
9,759.3	1.74	314.49	9,750.3	270.9	-185.8	328.6	325.55
<b>B.B. Zeppelin 32 W2LI st Com 2H</b>							
9,769.0	1.80	312.20	9,760.1	271.1	-186.1	328.8	325.54
9,850.0	1.70	44.20	9,841.0	272.9	-186.2	330.3	325.70
9,882.0	4.20	64.60	9,873.0	273.7	-184.8	330.2	325.98
9,913.0	7.30	71.40	9,903.8	274.8	-181.9	329.6	326.50
9,945.0	10.20	70.40	9,935.5	276.4	-177.3	328.4	327.33
9,977.0	12.90	73.20	9,966.8	278.4	-171.2	326.8	328.41
10,008.0	15.80	74.10	9,996.8	280.6	-163.8	324.9	329.72
10,040.0	17.80	74.80	10,027.5	283.0	-154.9	322.7	331.31
10,072.0	20.70	75.70	10,057.7	285.7	-144.7	320.3	333.14
10,104.0	23.60	78.40	10,087.3	288.3	-132.9	317.5	335.25
10,135.0	25.50	81.60	10,115.5	290.4	-120.2	314.3	337.51
10,167.0	27.80	83.00	10,144.1	292.3	-106.0	311.0	340.07
10,198.0	29.90	83.70	10,171.3	294.1	-91.1	307.9	342.78
10,230.0	32.30	83.60	10,198.7	295.9	-74.7	305.2	345.83
10,262.0	35.60	84.20	10,225.2	297.8	-57.0	303.2	349.17
10,293.0	38.80	85.70	10,249.9	299.4	-38.3	301.9	352.71
10,324.0	42.40	87.00	10,273.4	300.7	-18.2	301.2	356.54
10,356.0	45.70	87.90	10,296.4	301.7	4.1	301.7	0.77





Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 W2LI St Com 2I  
 Well: Zeppelin 32 W2LI State Com 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 W2LI State Com 2H  
 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 (°)
10,395.0	49.10	86.70	10,322.8	303.0	32.7	304.8	6.17
10,438.0	57.40	93.00	10,348.5	303.0	67.1	310.4	12.49
10,470.0	66.70	96.80	10,363.5	300.6	95.3	315.3	17.58
10,477.0	68.70	97.10	10,366.2	299.8	101.7	316.6	18.74
10,509.0	76.60	99.00	10,375.7	295.5	131.9	323.6	24.05
10,541.0	81.20	97.40	10,381.9	291.0	163.0	333.6	29.25
10,572.0	82.30	94.70	10,386.3	287.8	193.5	346.8	33.91
10,667.0	84.50	92.60	10,397.3	281.8	287.6	402.7	45.59
10,763.0	88.20	91.50	10,403.4	278.4	383.4	473.8	54.02
10,858.0	87.70	91.30	10,406.8	276.1	478.3	552.2	60.01
10,953.0	86.70	91.20	10,411.4	274.0	573.1	635.3	64.45
10,956.1	86.85	91.10	10,411.6	273.9	576.2	638.0	64.57
<b>LP Zeppelin 32 W2LI St Com 2H</b>							
11,048.0	85.20	88.00	10,418.1	274.6	667.9	722.2	67.65
11,144.0	85.80	88.80	10,425.6	279.0	763.5	812.9	69.93
11,239.0	88.20	87.00	10,430.6	284.1	858.2	904.0	71.68
11,334.0	87.10	88.20	10,434.5	289.7	953.0	996.0	73.09
11,429.0	88.00	85.10	10,438.6	296.9	1,047.8	1,088.9	74.17
11,525.0	88.80	84.00	10,441.3	306.1	1,143.1	1,183.4	75.01
11,621.0	88.30	85.00	10,443.7	315.3	1,238.7	1,278.1	75.72
11,716.0	87.60	87.10	10,447.1	321.8	1,333.4	1,371.6	76.43
11,811.0	89.70	86.30	10,449.3	327.3	1,428.2	1,465.2	77.09
11,906.0	89.70	88.30	10,449.8	331.7	1,523.1	1,558.8	77.71
12,000.0	88.20	88.10	10,451.5	334.7	1,617.0	1,651.3	78.31
12,095.0	91.40	97.20	10,451.9	330.3	1,711.8	1,743.4	79.08
12,189.0	91.60	98.30	10,449.4	317.6	1,804.9	1,832.6	80.02
12,285.0	91.30	99.80	10,447.0	302.5	1,899.7	1,923.6	80.95



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
 Project: Eddy County, N.M. Nad (83)  
 Site: Section 32-23S-28E Zeppelin 32 WZLI St Com 2f  
 Well: Zeppelin 32 WZLI State Com 2H  
 Wellbore: Original Hole  
 Design: Original Hole

Local Co-ordinate Reference: Well Zeppelin 32 WZLI State Com 2H  
 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	87.20	95.60	10,448.2	289.8	1,993.8	2,014.7	81.73
12,475.0	85.80	94.10	10,454.0	281.8	2,088.2	2,107.2	82.31
12,570.0	85.40	91.60	10,461.3	277.1	2,182.8	2,200.3	82.77
12,665.0	87.90	90.00	10,466.9	275.8	2,277.6	2,294.3	83.10
12,760.0	86.60	87.50	10,471.4	277.8	2,372.5	2,388.7	83.32
12,855.0	88.40	87.80	10,475.6	281.7	2,467.3	2,483.4	83.49
12,950.0	87.80	88.80	10,478.7	284.5	2,562.2	2,578.0	83.66
13,046.0	86.90	88.20	10,483.2	287.0	2,658.1	2,673.6	83.84
13,141.0	88.00	87.20	10,487.4	290.9	2,752.9	2,768.2	83.97
13,236.0	89.90	87.30	10,489.1	295.4	2,847.8	2,863.1	84.08
13,332.0	89.50	86.60	10,489.6	300.5	2,943.7	2,959.0	84.17
13,427.0	90.40	86.60	10,489.7	306.2	3,038.5	3,053.9	84.25
13,522.0	89.80	89.00	10,489.5	309.8	3,133.4	3,148.7	84.35
13,617.0	89.50	89.30	10,490.1	311.2	3,228.4	3,243.4	84.49
13,712.0	89.50	89.10	10,491.0	312.5	3,323.4	3,338.0	84.63
13,807.0	89.30	90.60	10,491.9	312.8	3,418.4	3,432.7	84.77
13,902.0	87.40	91.00	10,494.7	311.5	3,513.3	3,527.1	84.93
13,997.0	86.50	92.30	10,499.7	308.7	3,608.1	3,621.3	85.11
14,092.0	88.60	92.10	10,503.8	305.1	3,703.0	3,715.5	85.29
14,188.0	89.00	90.30	10,505.8	303.1	3,798.9	3,811.0	85.44
14,284.0	88.40	88.00	10,509.7	304.5	3,894.8	3,906.7	85.53
14,379.0	86.50	88.20	10,515.5	307.6	3,989.6	4,001.4	85.59
14,474.0	83.80	87.70	10,523.6	311.0	4,084.2	4,096.0	85.65
14,569.0	87.00	86.20	10,531.2	316.1	4,178.7	4,190.7	85.67
14,664.0	90.20	89.00	10,533.5	320.0	4,273.6	4,285.6	85.72
14,759.0	88.00	86.20	10,535.0	324.0	4,368.5	4,380.5	85.76
14,854.0	90.20	85.80	10,536.5	330.6	4,463.2	4,475.5	85.76