



NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 30 2018

RECEIVED

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 32-23S-28E Zeppelin 32 W2LI St Com 2H

Zeppelin 32 W2LI State Com 2H

Original Hole

30.015-43165

Design: Original Hole

Standard Survey Report

09 February, 2018



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zeppelin 32 W2LI State Com 2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Site:	Section 32-23S-28E Zeppelin 32 W2LI St Com 2H	MD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Well:	Zeppelin 32 W2LI State Com 2H	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 32-23S-28E Zeppelin 32 W2LI St Com 2H			
Site Position:		Northing:	458,271.00 usft	Latitude:	32° 15' 34.840 N
From:	Map	Easting:	608,047.90 usft	Longitude:	104° 7' 3.072 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

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

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/4/2018	7.15	60.00	47,846.53654643

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	112.37

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									
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
222.0	0.80	220.00	222.0	-1.2	-1.0	-0.5	0.36	0.36	0.00
411.0	1.10	271.00	411.0	-2.2	-3.7	-2.6	0.46	0.16	26.98
411' MD Rig Survey									
420.0	1.10	220.70	420.0	-2.2	-3.8	-2.7	10.39	0.00	-558.89
481.0	1.10	247.30	481.0	-2.9	-4.7	-3.3	0.83	0.00	43.61
542.0	1.10	245.80	541.9	-3.4	-5.8	-4.1	0.05	0.00	-2.46
604.0	0.20	302.60	603.9	-3.6	-6.4	-4.6	1.62	-1.45	91.61
666.0	0.80	58.70	665.9	-3.3	-6.2	-4.4	1.46	0.97	187.26

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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)
728.0	1.00	68.20	727.9	-2.8	-5.3	-3.8	0.40	0.32	15.32
759.0	0.90	94.40	758.9	-2.8	-4.8	-3.4	1.42	-0.32	84.52
825.0	0.50	111.50	824.9	-2.9	-4.0	-2.6	0.68	-0.61	25.91
888.0	0.50	99.60	887.9	-3.1	-3.5	-2.1	0.16	0.00	-18.89
952.0	0.70	92.50	951.9	-3.1	-2.8	-1.4	0.33	0.31	-11.09
1,015.0	0.70	74.60	1,014.9	-3.0	-2.1	-0.7	0.35	0.00	-28.41
1,078.0	0.70	91.60	1,077.9	-2.9	-1.3	-0.1	0.33	0.00	26.98
1,142.0	0.70	91.50	1,141.9	-3.0	-0.5	0.6	0.00	0.00	-0.16
1,205.0	0.70	98.30	1,204.9	-3.0	0.2	1.4	0.13	0.00	10.79
1,268.0	0.70	100.50	1,267.9	-3.2	1.0	2.1	0.04	0.00	3.49
1,332.0	0.70	109.70	1,331.9	-3.4	1.8	2.9	0.18	0.00	14.38
1,395.0	0.30	67.80	1,394.9	-3.4	2.3	3.4	0.82	-0.63	-66.51
1,459.0	0.30	14.80	1,458.9	-3.2	2.5	3.5	0.42	0.00	-82.81
1,522.0	0.40	26.30	1,521.9	-2.8	2.6	3.5	0.19	0.16	18.25
1,586.0	0.70	59.30	1,585.9	-2.4	3.0	3.7	0.66	0.47	51.56
1,649.0	1.30	76.60	1,648.9	-2.1	4.1	4.6	1.06	0.95	27.46
1,712.0	1.40	89.60	1,711.9	-1.9	5.5	5.8	0.51	0.16	20.63
1,776.0	1.30	113.60	1,775.8	-2.2	7.0	7.3	0.89	-0.16	37.50
1,810.0	1.10	119.90	1,809.8	-2.5	7.6	8.0	0.70	-0.59	18.53
1,905.0	0.40	157.30	1,904.8	-3.3	8.5	9.1	0.86	-0.74	39.37
2,000.0	1.00	104.50	1,999.8	-3.8	9.5	10.2	0.87	0.63	-55.58
2,096.0	1.00	55.40	2,095.8	-3.5	11.0	11.5	0.87	0.00	-51.15
2,191.0	0.30	296.20	2,190.8	-2.9	11.4	11.7	1.24	-0.74	-125.47
2,286.0	0.30	200.00	2,285.8	-3.1	11.1	11.5	0.47	0.00	-101.26
2,382.0	0.40	172.20	2,381.8	-3.6	11.1	11.6	0.20	0.10	-28.96
2,477.0	0.50	184.70	2,476.8	-4.4	11.1	11.9	0.15	0.11	13.16
2,498.0	0.50	188.30	2,497.8	-4.6	11.1	12.0	0.15	0.00	17.14
2,600.0	0.40	193.00	2,599.8	-5.3	10.9	12.1	0.10	-0.10	4.61
2,695.0	0.90	18.00	2,694.8	-5.0	11.1	12.1	1.37	0.53	-184.21
2,789.0	1.70	337.60	2,788.8	-3.0	10.8	11.1	1.24	0.85	-42.98
2,884.0	3.20	329.10	2,883.7	0.6	8.9	8.0	1.62	1.58	-8.95
2,980.0	3.50	331.30	2,979.5	5.5	6.1	3.6	0.34	0.31	2.29
3,075.0	3.90	318.60	3,074.3	10.5	2.6	-1.6	0.96	0.42	-13.37
3,171.0	3.80	313.10	3,170.1	15.1	-1.9	-7.5	0.40	-0.10	-5.73
3,265.0	3.40	310.40	3,263.9	19.0	-6.3	-13.1	0.46	-0.43	-2.87
3,360.0	3.10	307.20	3,358.8	22.4	-10.5	-18.2	0.37	-0.32	-3.37
3,456.0	2.90	305.90	3,454.6	25.4	-14.5	-23.1	0.22	-0.21	-1.35
3,551.0	3.00	304.10	3,549.5	28.2	-18.5	-27.9	0.14	0.11	-1.89
3,646.0	3.60	315.40	3,644.3	31.7	-22.7	-33.1	0.93	0.63	11.89
3,741.0	3.60	324.60	3,739.2	36.3	-26.5	-38.3	0.61	0.00	9.68
3,836.0	3.40	321.70	3,834.0	40.9	-30.0	-43.3	0.28	-0.21	-3.05
3,931.0	3.20	318.20	3,928.8	45.1	-33.5	-48.1	0.30	-0.21	-3.68

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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)
4,026.0	2.90	316.10	4,023.7	48.8	-36.9	-52.7	0.34	-0.32	-2.21
4,122.0	3.20	332.50	4,119.6	52.9	-39.9	-57.0	0.96	0.31	17.08
4,217.0	3.20	333.50	4,214.4	57.6	-42.3	-61.0	0.06	0.00	1.05
4,313.0	3.30	335.30	4,310.3	62.6	-44.6	-65.1	0.15	0.10	1.88
4,408.0	3.30	336.20	4,405.1	67.5	-46.9	-69.0	0.05	0.00	0.95
4,503.0	3.10	330.60	4,499.9	72.3	-49.2	-73.0	0.39	-0.21	-5.89
4,597.0	3.00	325.50	4,593.8	76.5	-51.9	-77.1	0.31	-0.11	-5.43
4,693.0	2.40	323.30	4,689.7	80.2	-54.5	-80.9	0.63	-0.63	-2.29
4,788.0	3.10	323.40	4,784.6	83.9	-57.2	-84.8	0.74	0.74	0.11
4,883.0	2.60	315.70	4,879.5	87.5	-60.2	-89.0	0.66	-0.53	-8.11
4,977.0	3.30	318.80	4,973.4	91.0	-63.5	-93.4	0.76	0.74	3.30
5,072.0	3.00	321.70	5,068.2	95.0	-66.9	-98.0	0.36	-0.32	3.05
5,167.0	2.60	323.30	5,163.1	98.7	-69.7	-102.0	0.43	-0.42	1.68
5,263.0	2.30	321.90	5,259.0	102.0	-72.2	-105.6	0.32	-0.31	-1.46
5,358.0	2.80	331.30	5,353.9	105.5	-74.5	-109.0	0.68	0.53	9.89
5,453.0	2.60	328.00	5,448.8	109.4	-76.7	-112.6	0.27	-0.21	-3.47
5,548.0	2.20	322.20	5,543.7	112.6	-79.0	-115.9	0.49	-0.42	-6.11
5,644.0	2.80	325.70	5,639.6	116.0	-81.4	-119.5	0.64	0.63	3.65
5,739.0	2.50	319.60	5,734.5	119.5	-84.1	-123.3	0.43	-0.32	-6.42
5,834.0	3.10	324.00	5,829.4	123.2	-86.9	-127.3	0.67	0.63	4.63
5,929.0	2.70	315.00	5,924.3	126.8	-90.0	-131.5	0.64	-0.42	-9.47
6,024.0	2.80	318.90	6,019.2	130.2	-93.1	-135.7	0.22	0.11	4.11
6,119.0	3.60	335.50	6,114.0	134.6	-95.9	-139.9	1.28	0.84	17.47
6,214.0	3.10	329.80	6,208.9	139.6	-98.4	-144.1	0.63	-0.53	-6.00
6,309.0	2.90	318.30	6,303.7	143.6	-101.3	-148.3	0.67	-0.21	-12.11
6,405.0	2.80	324.80	6,399.6	147.3	-104.3	-152.5	0.35	-0.10	6.77
6,500.0	2.90	326.20	6,494.5	151.2	-107.0	-156.5	0.13	0.11	1.47
6,595.0	1.40	330.30	6,589.4	154.2	-108.9	-159.4	1.59	-1.58	4.32
6,691.0	2.70	345.10	6,685.4	157.4	-110.0	-161.7	1.45	1.35	15.42
6,786.0	2.60	346.60	6,780.3	161.7	-111.1	-164.3	0.13	-0.11	1.58
6,881.0	1.80	348.20	6,875.2	165.2	-111.9	-166.4	0.84	-0.84	1.68
6,976.0	2.80	312.40	6,970.1	168.3	-113.9	-169.4	1.79	1.05	-37.68
7,071.0	3.10	298.10	7,065.0	171.0	-117.9	-174.1	0.83	0.32	-15.05
7,166.0	2.80	291.70	7,159.9	173.1	-122.3	-179.0	0.47	-0.32	-6.74
7,262.0	2.90	313.40	7,255.8	175.6	-126.3	-183.6	1.12	0.10	22.60
7,357.0	2.40	310.50	7,350.7	178.6	-129.5	-187.8	0.54	-0.53	-3.05
7,451.0	1.50	316.80	7,444.6	180.8	-131.9	-190.8	0.98	-0.96	6.70
7,547.0	2.50	329.60	7,540.6	183.5	-133.8	-193.6	1.13	1.04	13.33
7,642.0	2.40	335.60	7,635.5	187.1	-135.7	-196.7	0.29	-0.11	6.32
7,737.0	3.40	328.60	7,730.3	191.3	-138.0	-200.4	1.11	1.05	-7.37
7,831.0	3.20	322.50	7,824.2	195.8	-141.0	-204.9	0.43	-0.21	-6.49
7,926.0	2.70	324.50	7,919.1	199.7	-143.9	-209.1	0.54	-0.53	2.11
8,020.0	2.20	319.70	8,013.0	202.9	-146.4	-212.6	0.57	-0.53	-5.11

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8,115.0	2.50	324.00	8,107.9	205.9	-148.8	-216.0	0.37	0.32	4.53	
8,211.0	1.80	311.40	8,203.8	208.6	-151.1	-219.2	0.88	-0.73	-13.13	
8,306.0	2.40	335.60	8,298.8	211.4	-153.1	-222.0	1.11	0.63	25.47	
8,401.0	1.90	335.60	8,393.7	214.7	-154.5	-224.6	0.53	-0.53	0.00	
8,496.0	3.00	336.00	8,488.6	218.4	-156.2	-227.6	1.16	1.16	0.42	
8,591.0	2.70	309.40	8,583.5	222.1	-158.9	-231.5	1.41	-0.32	-28.00	
8,687.0	3.40	323.30	8,679.4	225.8	-162.4	-236.1	1.06	0.73	14.48	
8,782.0	3.60	321.10	8,774.2	230.4	-165.9	-241.1	0.25	0.21	-2.32	
8,877.0	3.30	319.40	8,869.0	234.7	-169.6	-246.2	0.33	-0.32	-1.79	
8,972.0	2.60	336.60	8,963.9	238.8	-172.2	-250.2	1.18	-0.74	18.11	
9,068.0	1.80	328.40	9,059.8	242.1	-173.9	-252.9	0.89	-0.83	-8.54	
9,163.0	2.40	335.40	9,154.8	245.2	-175.5	-255.6	0.69	0.63	7.37	
9,258.0	2.90	335.20	9,249.6	249.2	-177.3	-258.8	0.53	0.53	-0.21	
9,353.0	2.40	332.50	9,344.5	253.1	-179.3	-262.1	0.54	-0.53	-2.84	
9,448.0	2.50	341.10	9,439.5	256.8	-180.9	-265.0	0.40	0.11	9.05	
9,543.0	3.70	343.20	9,534.3	261.7	-182.4	-268.3	1.27	1.26	2.21	
9,639.0	2.90	345.50	9,630.2	267.0	-183.9	-271.7	0.84	-0.83	2.40	
9,734.0	1.60	321.20	9,725.1	270.4	-185.3	-274.3	1.67	-1.37	-25.58	
9,759.3	1.74	314.49	9,750.3	270.9	-185.8	-275.0	0.95	0.56	-26.55	
B.B. Zeppelin 32 W2LI st Com 2H										
9,769.0	1.80	312.20	9,760.1	271.1	-186.1	-275.3	0.95	0.61	-23.55	
9,850.0	1.70	44.20	9,841.0	272.9	-186.2	-276.0	3.11	-0.12	113.58	
9,882.0	4.20	64.60	9,873.0	273.7	-184.8	-275.0	8.35	7.81	63.75	
9,913.0	7.30	71.40	9,903.8	274.8	-181.9	-272.8	10.22	10.00	21.94	
9,945.0	10.20	70.40	9,935.5	276.4	-177.3	-269.2	9.07	9.06	-3.13	
9,977.0	12.90	73.20	9,966.8	278.4	-171.2	-264.3	8.62	8.44	8.75	
10,008.0	15.80	74.10	9,996.8	280.6	-163.8	-258.3	9.38	9.35	2.90	
10,040.0	17.80	74.80	10,027.5	283.0	-154.9	-251.0	6.28	6.25	2.19	
10,072.0	20.70	75.70	10,057.7	285.7	-144.7	-242.6	9.11	9.06	2.81	
10,104.0	23.60	79.40	10,087.3	288.3	-132.9	-232.7	10.05	9.06	11.56	
10,135.0	25.50	81.60	10,115.5	290.4	-120.2	-221.7	6.80	6.13	7.10	
10,167.0	27.80	83.00	10,144.1	292.3	-106.0	-209.3	7.45	7.19	4.38	
10,198.0	29.90	83.70	10,171.3	294.1	-91.1	-196.2	6.86	6.77	2.26	
10,230.0	32.30	83.60	10,198.7	295.9	-74.7	-181.7	7.50	7.50	-0.31	
10,262.0	35.60	84.20	10,225.2	297.8	-57.0	-166.0	10.37	10.31	1.88	
10,293.0	38.80	85.70	10,249.9	299.4	-38.3	-149.4	10.73	10.32	4.84	
10,324.0	42.40	87.00	10,273.4	300.7	-18.2	-131.2	11.93	11.61	4.19	
10,356.0	45.70	87.90	10,296.4	301.7	4.1	-111.1	10.50	10.31	2.81	
10,395.0	49.10	86.70	10,322.8	303.0	32.7	-85.1	9.01	8.72	-3.08	
10,438.0	57.40	93.00	10,348.5	303.0	67.1	-53.3	22.58	19.30	14.65	
10,470.0	66.70	96.80	10,363.5	300.6	95.3	-26.3	30.89	29.06	11.88	
10,477.0	68.70	97.10	10,366.2	299.8	101.7	-20.1	28.85	28.57	4.29	
10,509.0	76.60	99.00	10,375.7	295.5	131.9	9.5	25.33	24.69	5.94	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zeppelin 32 W2LI State Com 2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Site:	Section 32-23S-28E Zeppelin 32 W2LI St Com 2H	MD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Well:	Zeppelin 32 W2LI State Com 2H	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)
10,541.0	81.20	97.40	10,381.9	291.0	163.0	39.9	15.19	14.38	-5.00
10,572.0	82.30	94.70	10,386.3	287.8	193.5	69.4	9.32	3.55	-8.71
10,667.0	84.50	92.60	10,397.3	281.8	287.6	158.7	3.19	2.32	-2.21
10,763.0	88.20	91.50	10,403.4	278.4	383.4	248.6	4.02	3.85	-1.15
10,858.0	87.70	91.30	10,406.8	276.1	478.3	337.2	0.57	-0.53	-0.21
10,953.0	86.70	91.20	10,411.4	274.0	573.1	425.7	1.06	-1.05	-0.11
10,956.1	86.65	91.10	10,411.6	273.9	576.2	428.6	3.71	-1.58	-3.36
LP Zeppelin 32 W2LI St Com 2H									
11,048.0	85.20	88.00	10,418.1	274.6	667.9	513.1	3.71	-1.58	-3.37
11,144.0	85.80	86.80	10,425.6	279.0	763.5	599.8	1.39	0.63	-1.25
11,239.0	88.20	87.00	10,430.6	284.1	858.2	685.5	2.54	2.53	0.21
11,334.0	87.10	86.20	10,434.5	289.7	953.0	770.9	1.43	-1.16	-0.84
11,429.0	88.00	85.10	10,438.6	296.9	1,047.6	855.7	1.50	0.95	-1.16
11,525.0	88.80	84.00	10,441.3	306.1	1,143.1	940.6	1.42	0.83	-1.15
11,621.0	88.30	85.00	10,443.7	315.3	1,238.7	1,025.4	1.16	-0.52	1.04
11,716.0	87.60	87.10	10,447.1	321.8	1,333.4	1,110.5	2.33	-0.74	2.21
11,811.0	89.70	86.30	10,449.3	327.3	1,428.2	1,196.1	2.37	2.21	-0.84
11,906.0	89.70	88.30	10,449.8	331.7	1,523.1	1,282.1	2.11	0.00	2.11
12,000.0	88.20	88.10	10,451.5	334.7	1,617.0	1,367.9	1.61	-1.60	-0.21
12,095.0	91.40	97.20	10,451.9	330.3	1,711.8	1,457.2	10.15	3.37	9.58
12,189.0	91.60	98.30	10,449.4	317.6	1,804.9	1,548.1	1.19	0.21	1.17
12,285.0	91.30	99.80	10,447.0	302.5	1,899.7	1,641.5	1.59	-0.31	1.56
12,380.0	87.20	95.60	10,448.2	289.8	1,993.8	1,733.4	6.18	-4.32	-4.42
12,475.0	85.80	94.10	10,454.0	281.8	2,088.2	1,823.8	2.16	-1.47	-1.58
12,570.0	85.40	91.60	10,461.3	277.1	2,182.8	1,913.0	2.66	-0.42	-2.63
12,665.0	87.90	90.00	10,466.9	275.8	2,277.6	2,001.2	3.12	2.63	-1.68
12,760.0	86.60	87.50	10,471.4	277.8	2,372.5	2,088.2	2.96	-1.37	-2.63
12,855.0	88.40	87.80	10,475.6	281.7	2,467.3	2,174.4	1.92	1.89	0.32
12,950.0	87.80	88.80	10,478.7	284.5	2,562.2	2,261.1	1.23	-0.63	1.05
13,046.0	86.90	88.20	10,483.2	287.0	2,658.1	2,348.7	1.13	-0.94	-0.63
13,141.0	88.00	87.20	10,487.4	290.9	2,752.9	2,435.0	1.56	1.16	-1.05
13,236.0	89.90	87.30	10,489.1	295.4	2,847.8	2,521.0	2.00	2.00	0.11
13,332.0	89.50	86.60	10,489.6	300.5	2,943.7	2,607.7	0.84	-0.42	-0.73
13,427.0	90.40	86.60	10,489.7	306.2	3,038.5	2,693.2	0.95	0.95	0.00
13,522.0	89.80	89.00	10,489.5	309.8	3,133.4	2,779.6	2.60	-0.63	2.53
13,617.0	89.50	89.30	10,490.1	311.2	3,228.4	2,866.9	0.45	-0.32	0.32
13,712.0	89.50	89.10	10,491.0	312.5	3,323.4	2,954.3	0.21	0.00	-0.21
13,807.0	89.30	90.60	10,491.9	312.8	3,418.4	3,042.0	1.59	-0.21	1.58
13,902.0	87.40	91.00	10,494.7	311.5	3,513.3	3,130.3	2.04	-2.00	0.42
13,997.0	86.50	92.30	10,499.7	308.7	3,608.1	3,219.0	1.66	-0.95	1.37
14,092.0	88.60	92.10	10,503.8	305.1	3,703.0	3,308.1	2.22	2.21	-0.21
14,188.0	89.00	90.30	10,505.8	303.1	3,798.9	3,397.6	1.92	0.42	-1.88

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zeppelin 32 W2LI State Com 2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Site:	Section 32-23S-28E Zeppelin 32 W2LI St Com 2H	MD Reference:	3105 + 27 @ 3132.0usft (Patterson 245)
Well:	Zeppelin 32 W2LI State Com 2H	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)
14,284.0	86.40	88.00	10,509.7	304.5	3,894.8	3,485.8	3.61	-2.71	-2.40
14,379.0	86.50	88.20	10,515.5	307.6	3,989.6	3,572.2	0.24	0.11	0.21
14,474.0	83.80	87.70	10,523.6	311.0	4,084.2	3,658.4	2.89	-2.84	-0.53
14,569.0	87.00	86.20	10,531.2	316.1	4,178.7	3,743.9	3.72	3.37	-1.58
14,664.0	90.20	89.00	10,533.5	320.0	4,273.6	3,830.1	4.48	3.37	2.95
14,759.0	88.00	86.20	10,535.0	324.0	4,368.5	3,916.3	3.75	-2.32	-2.95
14,854.0	90.20	85.80	10,536.5	330.6	4,463.2	4,001.4	2.35	2.32	-0.42
14,949.0	90.20	86.80	10,536.2	336.8	4,558.0	4,086.8	1.05	0.00	1.05
15,043.0	89.20	84.30	10,536.7	344.1	4,651.8	4,170.6	2.86	-1.06	-2.66
15,105.0	90.80	83.80	10,536.7	350.5	4,713.4	4,225.2	2.70	2.58	-0.81
15,170.0	90.80	83.80	10,535.8	357.5	4,778.0	4,282.3	0.00	0.00	0.00
15170.0' MD Projected to Bit - PBHL Zeppelin 32 W2LI St Coim 2H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
411.0	411.0	-2.2	-3.7	411' MD Rig Survey
15,170.0	10,535.8	357.5	4,778.0	15170.0' MD Projected to Bit

GEODEIC ZONE: New Mexico Eastern Zone
3105 + 27 @ 3132.0usft (Patterson 245)
GROUND ELEVATION: 3105.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	458271.00	608047.90	32° 15' 34.840 N	104° 7' 3.072 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2600.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
3	2786.3	2.80	325.49	2786.3	3.7	-2.6	1.50	325.49	-2.3	
4	9571.9	2.80	325.49	9563.7	276.4	-190.0	0.00	0.00	-170.0	
5	9758.2	0.00	0.00	9750.0	280.2	-192.6	1.50	180.00	-172.3	B.B. Zeppelin 32 W2LI st Com 2H
6	9860.5	0.00	0.00	9852.3	280.2	-192.6	0.00	0.00	-172.3	
7	10745.3	88.48	85.88	10425.0	320.2	363.7	10.00	85.88	385.4	
8	10943.3	88.48	89.84	10430.3	327.6	561.5	2.00	89.98	583.2	
9	15168.1	88.48	89.84	10542.0	339.3	4784.8	0.00	0.00	4796.8	PBHL Zeppelin 32 W2LI St Com 2H

