



**MEWBOURNE
OIL COMPANY**

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUL 09 2018

RECEIVED

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 32-23S-28E Zeppelin 32 W0LI St Com 1H

Zeppelin 32 W0LI State Com 1H

Original Hole

30. 015-44560

Design: Original Hole

Standard Survey Report

26 February, 2018





Microsoft Survey Report



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

Site Position: **From:** Map **Northing:** 458,321.00 usft **Latitude:** 32° 15' 35.335 N
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	47,846.61827483

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

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

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Builde 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
190.0	0.80	241.00	190.0	-0.6	-1.2	1.1	0.42	0.42	0.00
320.0	0.40	246.00	320.0	-1.3	-2.4	2.3	0.31	-0.31	3.85
406.0	0.00	206.00	406.0	-1.4	-2.6	2.6	0.47	-0.47	0.00
456.0	1.20	228.90	456.0	-1.7	-3.0	3.1	2.40	2.40	0.00
456' MD Teledrift									
516.0	0.70	232.20	516.0	-2.4	-3.8	4.0	0.84	-0.83	5.50
578.0	0.10	294.50	578.0	-2.6	-4.1	4.4	1.06	-0.97	100.48
640.0	0.20	40.50	640.0	-2.5	-4.1	4.2	0.40	0.16	170.97



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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)
702.0	0.40	59.00	702.0	-2.3	-3.9	4.0	0.35	0.32	29.84
764.0	0.40	69.40	764.0	-2.1	-3.5	3.6	0.12	0.00	16.77
831.0	0.70	69.80	831.0	-1.9	-2.9	3.1	0.45	0.45	0.60
894.0	0.70	80.10	894.0	-1.7	-2.1	2.5	0.20	0.00	16.35
958.0	0.70	81.80	958.0	-1.5	-1.4	2.0	0.03	0.00	2.66
1,021.0	1.00	83.70	1,020.9	-1.4	-0.4	1.5	0.48	0.48	3.02
1,084.0	0.20	178.00	1,083.9	-1.5	0.1	1.2	1.64	-1.27	149.68
1,147.0	0.90	239.00	1,146.9	-1.8	-0.3	1.7	1.30	1.11	96.83
1,211.0	1.10	234.40	1,210.9	-2.5	-1.2	2.8	0.34	0.31	-7.19
1,274.0	0.40	202.40	1,273.9	-3.0	-1.8	3.5	1.25	-1.11	-50.79
1,337.0	0.60	116.10	1,336.9	-3.4	-1.6	3.7	1.11	0.32	-136.98
1,401.0	0.90	110.00	1,400.9	-3.7	-0.8	3.6	0.48	0.47	-9.53
1,464.0	1.10	109.80	1,463.9	-4.1	0.2	3.4	0.32	0.32	-0.32
1,528.0	0.70	62.00	1,527.9	-4.1	1.1	2.9	1.27	-0.63	-74.69
1,591.0	1.20	35.90	1,590.9	-3.4	1.9	1.9	1.03	0.79	-41.43
1,654.0	0.50	32.60	1,653.9	-2.6	2.4	1.0	1.11	-1.11	-5.24
1,718.0	0.50	133.80	1,717.9	-2.6	2.7	0.8	1.21	0.00	158.13
1,781.0	1.10	138.60	1,780.9	-3.2	3.3	1.0	0.96	0.95	7.62
1,910.0	1.80	4.00	1,909.9	-2.3	4.3	-0.2	1.94	0.39	-104.34
2,006.0	1.50	72.30	2,005.8	-0.6	5.6	-2.3	1.81	-0.10	71.15
2,101.0	0.70	121.60	2,100.8	-0.5	7.3	-3.3	1.23	-0.84	51.89
2,196.0	1.10	152.00	2,195.8	-1.7	8.2	-2.8	0.64	0.42	32.00
2,292.0	0.60	53.90	2,291.8	-2.2	9.0	-2.8	1.38	-0.52	-102.19
2,387.0	1.40	12.00	2,386.8	-0.7	9.7	-4.3	1.09	0.84	-44.11
2,483.0	1.60	4.40	2,482.8	1.7	10.0	-6.6	0.29	0.21	-7.92
2,602.0	1.70	358.10	2,601.7	5.2	10.1	-9.6	0.17	0.08	-5.29
2,697.0	1.80	2.60	2,696.7	8.1	10.1	-12.1	0.18	0.11	4.74
2,791.0	2.70	332.00	2,790.6	11.5	9.1	-14.5	1.56	0.96	-32.55
2,886.0	3.40	324.10	2,885.5	15.7	6.4	-16.8	0.86	0.74	-8.32
2,982.0	3.70	320.80	2,981.3	20.5	2.8	-19.0	0.38	0.31	-3.44
3,077.0	3.50	322.90	3,076.1	25.1	-0.9	-21.1	0.25	-0.21	2.21
3,173.0	3.40	319.90	3,171.9	29.7	-4.5	-23.1	0.21	-0.10	-3.13
3,267.0	3.30	317.30	3,265.7	33.8	-8.1	-24.8	0.19	-0.11	-2.77
3,363.0	3.20	316.80	3,361.6	37.8	-11.8	-26.3	0.11	-0.10	-0.52
3,458.0	3.10	315.50	3,456.5	41.5	-15.5	-27.6	0.13	-0.11	-1.37
3,553.0	3.10	313.90	3,551.3	45.1	-19.1	-28.8	0.09	0.00	-1.68
3,648.0	3.20	311.70	3,646.2	48.7	-22.9	-29.9	0.17	0.11	-2.32
3,743.0	3.20	311.30	3,741.0	52.2	-26.9	-30.9	0.02	0.00	-0.42
3,838.0	3.10	308.10	3,835.9	55.5	-30.9	-31.6	0.21	-0.11	-3.37
3,933.0	2.90	302.00	3,930.7	58.4	-35.0	-32.0	0.40	-0.21	-6.42
4,028.0	3.70	300.50	4,025.6	61.2	-39.7	-32.0	0.85	0.84	-1.58
4,124.0	3.90	300.50	4,121.4	64.4	-45.1	-32.0	0.21	0.21	0.00



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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)
4,219.0	3.80	318.80	4,216.2	68.5	-50.0	-32.9	1.29	-0.11	19.26
4,315.0	3.90	316.90	4,312.0	73.2	-54.3	-34.8	0.17	0.10	-1.98
4,410.0	2.70	330.10	4,406.8	77.5	-57.6	-36.7	1.49	-1.26	13.89
4,505.0	2.60	327.90	4,501.7	81.3	-59.9	-38.8	0.15	-0.11	-2.32
4,600.0	2.50	323.30	4,596.6	84.8	-62.3	-40.5	0.24	-0.11	-4.84
4,695.0	2.40	320.60	4,691.5	88.0	-64.8	-42.0	0.16	-0.11	-2.84
4,790.0	3.10	322.90	4,786.4	91.8	-67.6	-43.6	0.75	0.74	2.42
4,885.0	3.00	316.60	4,881.3	95.4	-70.9	-45.2	0.37	-0.11	-6.63
4,979.0	3.50	327.20	4,975.1	99.6	-74.1	-47.2	0.83	0.53	11.28
5,074.0	3.50	326.00	5,069.9	104.5	-77.3	-49.7	0.08	0.00	-1.26
5,169.0	3.30	321.40	5,164.8	109.0	-80.6	-51.8	0.36	-0.21	-4.84
5,265.0	3.20	320.40	5,260.6	113.2	-84.1	-53.7	0.12	-0.10	-1.04
5,360.0	2.90	318.10	5,355.5	117.1	-87.4	-55.3	0.34	-0.32	-2.42
5,455.0	2.90	312.00	5,450.4	120.5	-90.7	-56.4	0.32	0.00	-6.42
5,551.0	2.50	304.60	5,546.3	123.3	-94.3	-57.0	0.55	-0.42	-7.71
5,646.0	2.80	321.00	5,641.2	126.3	-97.4	-58.0	0.85	0.32	17.26
5,741.0	3.70	320.10	5,736.0	130.4	-100.9	-59.8	0.95	0.95	-0.95
5,836.0	3.70	316.30	5,830.8	135.0	-104.9	-61.6	0.26	0.00	-4.00
5,931.0	3.30	308.80	5,925.6	138.9	-109.2	-62.7	0.64	-0.42	-7.89
6,026.0	3.40	313.60	6,020.5	142.6	-113.4	-63.7	0.31	0.11	5.05
6,121.0	4.40	332.00	6,115.2	147.7	-117.1	-66.2	1.67	1.05	19.37
6,216.0	4.30	333.10	6,210.0	154.1	-120.4	-70.0	0.14	-0.11	1.16
6,311.0	3.90	319.00	6,304.7	159.7	-124.2	-72.9	1.14	-0.42	-14.84
6,407.0	3.60	307.80	6,400.5	164.0	-128.7	-74.2	0.82	-0.31	-11.67
6,503.0	4.10	323.30	6,496.3	168.6	-133.1	-75.9	1.20	0.52	16.15
6,597.0	3.30	320.50	6,590.1	173.4	-136.9	-78.1	0.87	-0.85	-2.98
6,693.0	2.50	348.00	6,686.0	177.6	-139.0	-80.5	1.65	-0.83	28.65
6,789.0	2.60	355.10	6,781.9	181.8	-139.7	-83.8	0.34	0.10	7.40
6,883.0	2.40	350.40	6,875.8	185.9	-140.2	-87.0	0.30	-0.21	-5.00
6,978.0	2.50	343.60	6,970.7	189.8	-141.1	-89.9	0.32	0.11	-7.16
7,073.0	2.30	328.30	7,065.6	193.4	-142.7	-92.2	0.70	-0.21	-16.11
7,169.0	3.30	322.90	7,161.5	197.3	-145.4	-94.1	1.08	1.04	-5.63
7,264.0	3.70	339.20	7,256.4	202.3	-148.1	-97.0	1.12	0.42	17.16
7,359.0	3.30	342.90	7,351.2	207.8	-150.0	-100.8	0.48	-0.42	3.89
7,453.0	3.20	336.70	7,445.0	212.8	-151.8	-104.1	0.39	-0.11	-6.60
7,549.0	2.00	307.70	7,540.9	216.3	-154.2	-105.8	1.82	-1.25	-30.21
7,644.0	2.10	315.10	7,635.9	218.5	-156.8	-106.5	0.30	0.11	7.79
7,739.0	3.60	335.80	7,730.7	222.5	-159.2	-108.6	1.89	1.58	21.79
7,834.0	3.70	331.90	7,825.6	227.9	-161.9	-111.9	0.28	0.11	-4.11
7,929.0	3.60	329.10	7,920.4	233.2	-164.8	-114.8	0.22	-0.11	-2.95
8,022.0	3.00	323.50	8,013.2	237.6	-167.8	-117.1	0.73	-0.65	-6.02
8,117.0	3.60	328.90	8,108.1	242.2	-170.8	-119.5	0.71	0.63	5.68
8,212.0	3.20	321.80	8,202.9	246.8	-174.0	-121.8	0.61	-0.42	-7.47



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8,307.0	3.70	344.30	8,297.7	251.9	-178.5	-124.9	1.51	0.53	23.68
8,402.0	2.50	330.00	8,392.6	256.6	-178.3	-128.0	1.49	-1.26	-15.05
8,497.0	3.00	316.10	8,487.5	260.2	-181.1	-129.6	0.87	0.53	-14.63
8,593.0	3.90	323.00	8,583.3	264.6	-184.8	-131.5	1.03	0.94	7.19
8,688.0	3.50	312.40	8,678.1	269.1	-188.9	-133.3	0.83	-0.42	-11.16
8,783.0	2.40	310.50	8,773.0	272.4	-192.5	-134.2	1.16	-1.16	-2.00
8,878.0	1.60	295.60	8,867.9	274.3	-195.2	-134.4	1.00	-0.84	-15.68
8,909.0	1.40	295.50	8,898.9	274.6	-196.0	-134.3	0.65	-0.65	-0.32
8,910.1	1.40	295.20	8,900.0	274.6	-196.0	-134.3	0.67	-0.03	-27.46
B.B. Zeppelin 32 WOLI St Com 1H									
8,929.0	1.40	290.00	8,918.9	274.8	-196.4	-134.2	0.67	0.00	-27.50
8,961.0	0.80	294.20	8,950.9	275.0	-197.0	-134.1	1.89	-1.88	13.13
8,993.0	2.50	84.00	8,982.9	275.2	-198.5	-134.5	10.05	5.31	468.13
9,024.0	6.00	98.20	9,013.8	275.0	-194.2	-135.6	11.70	11.29	45.81
9,056.0	10.00	102.70	9,045.5	274.2	-189.9	-137.1	12.64	12.50	14.06
9,088.0	13.00	106.30	9,076.8	272.6	-183.7	-138.9	9.64	9.38	11.25
9,120.0	13.50	112.80	9,108.0	270.1	-176.8	-140.3	4.91	1.56	20.31
9,151.0	17.00	100.80	9,137.9	267.8	-169.0	-142.4	15.15	11.29	-38.71
9,183.0	21.40	96.90	9,168.1	266.3	-158.6	-146.4	14.31	13.75	-12.19
9,215.0	25.00	94.40	9,197.5	265.0	-146.1	-151.8	11.66	11.25	-7.81
9,246.0	29.10	91.10	9,225.1	264.4	-132.0	-158.5	14.08	13.23	-10.65
9,278.0	33.90	87.70	9,252.4	264.6	-115.3	-167.3	15.99	15.00	-10.63
9,310.0	39.20	85.20	9,278.1	265.8	-96.3	-178.2	17.20	16.56	-7.81
9,341.0	44.60	83.10	9,301.2	267.9	-75.7	-190.6	18.00	17.42	-6.77
9,373.0	47.50	82.40	9,323.4	270.9	-52.8	-204.9	9.20	9.06	-2.19
9,405.0	49.30	82.10	9,344.6	274.1	-29.1	-219.8	5.67	5.63	-0.94
9,437.0	53.10	83.70	9,364.7	277.2	-4.4	-235.2	12.50	11.88	5.00
9,468.0	57.70	84.60	9,382.3	279.7	21.0	-250.5	15.03	14.84	2.90
9,500.0	61.10	86.40	9,398.5	281.9	48.4	-266.5	11.68	10.63	5.63
9,531.0	64.70	87.50	9,412.7	283.4	76.0	-282.0	12.03	11.61	3.55
9,563.0	67.50	87.70	9,425.6	284.6	105.2	-298.1	8.77	8.75	0.63
9,595.0	70.20	87.90	9,437.2	285.7	135.0	-314.5	8.46	8.44	0.63
9,627.0	73.30	88.90	9,447.2	286.6	165.4	-330.8	10.13	9.69	3.13
9,659.0	75.70	90.90	9,455.7	286.6	196.3	-346.8	9.62	7.50	6.25
9,691.0	78.20	92.30	9,463.0	285.8	227.4	-362.1	8.90	7.81	4.38
9,747.0	85.00	95.20	9,471.1	282.1	282.6	-387.5	13.18	12.14	5.18
9,779.0	88.00	92.60	9,473.1	280.0	314.5	-402.0	12.40	9.38	-8.13
9,811.0	87.00	91.20	9,474.5	278.9	346.5	-417.6	5.37	-3.13	-4.38
9,905.0	89.70	90.30	9,477.2	277.7	440.4	-465.0	3.03	2.87	-0.96
9,942.0	89.51	89.75	9,477.5	277.7	477.4	-484.0	1.56	-0.53	-1.47
LP Zeppelin 32 WOLI St Com 1H									
10,000.0	89.20	88.90	9,478.1	278.3	535.4	-514.5	1.56	-0.53	-1.47
10,095.0	91.50	91.80	9,477.5	277.8	630.4	-563.0	3.90	2.42	3.05



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

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)
10,191.0	90.90	91.40	9,475.5	275.1	726.3	-610.1	0.75	-0.63	-0.42
10,286.0	88.70	91.90	9,475.9	272.3	821.3	-656.7	2.37	-2.32	0.53
10,382.0	89.20	91.80	9,477.6	269.2	917.2	-703.5	0.53	0.52	-0.10
10,477.0	87.60	90.70	9,480.3	267.2	1,012.1	-750.7	2.04	-1.68	-1.16
10,571.0	86.90	90.30	9,484.8	266.3	1,106.0	-798.4	0.86	-0.74	-0.43
10,666.0	86.70	90.10	9,490.1	266.0	1,200.9	-847.0	0.30	-0.21	-0.21
10,762.0	91.50	91.00	9,491.6	265.1	1,296.8	-895.7	5.09	5.00	0.94
10,857.0	87.10	88.50	9,492.8	265.5	1,391.8	-945.0	5.33	-4.63	-2.63
10,953.0	89.10	89.50	9,495.9	267.2	1,487.7	-995.8	2.33	2.08	1.04
11,048.0	88.40	88.20	9,498.0	269.1	1,582.7	-1,046.4	1.55	-0.74	-1.37
11,143.0	88.00	88.20	9,501.0	272.1	1,677.6	-1,097.9	0.42	-0.42	0.00
11,238.0	88.00	87.60	9,504.3	275.5	1,772.5	-1,149.8	0.63	0.00	-0.63
11,333.0	89.80	89.00	9,506.1	278.4	1,867.4	-1,201.1	2.40	1.89	1.47
11,428.0	89.60	88.90	9,506.6	280.1	1,962.4	-1,251.6	0.24	-0.21	-0.11
11,524.0	89.90	90.80	9,507.0	280.4	2,058.4	-1,301.3	2.00	0.31	1.98
11,620.0	89.80	90.10	9,507.3	279.6	2,154.4	-1,350.1	0.74	-0.10	-0.73
11,715.0	87.60	90.50	9,509.5	279.1	2,249.3	-1,398.7	2.35	-2.32	0.42
11,810.0	88.30	91.10	9,512.9	277.8	2,344.3	-1,446.5	0.97	0.74	0.63
11,905.0	88.30	90.60	9,515.7	276.4	2,439.2	-1,494.2	0.53	0.00	-0.53
12,000.0	90.00	91.10	9,517.1	275.0	2,534.2	-1,541.9	1.87	1.79	0.53
12,094.0	89.80	90.90	9,517.2	273.3	2,628.2	-1,589.0	0.30	-0.21	-0.21
12,189.0	90.50	91.40	9,517.0	271.4	2,723.2	-1,636.3	0.91	0.74	0.53
12,284.0	87.80	92.50	9,518.4	268.2	2,818.1	-1,682.5	3.07	-2.84	1.16
12,380.0	87.90	93.30	9,522.0	263.3	2,913.9	-1,727.7	0.84	0.10	0.83
12,475.0	88.00	95.20	9,525.4	256.3	3,008.6	-1,770.5	2.00	0.11	2.00
12,569.0	85.70	94.00	9,530.6	248.8	3,102.1	-1,812.3	2.76	-2.45	-1.28
12,665.0	85.10	91.10	9,538.3	244.5	3,197.7	-1,857.9	3.08	-0.63	-3.02
12,760.0	85.30	90.70	9,546.2	243.0	3,292.3	-1,905.4	0.47	0.21	-0.42
12,855.0	87.30	90.00	9,552.3	242.4	3,387.1	-1,953.8	2.23	2.11	-0.74
12,950.0	87.00	89.10	9,557.1	243.2	3,482.0	-2,003.3	1.00	-0.32	-0.95
13,045.0	88.10	88.10	9,561.1	245.5	3,576.9	-2,054.2	1.56	1.16	-1.05
13,140.0	91.80	87.50	9,561.2	249.2	3,671.8	-2,106.3	3.95	3.89	-0.63
13,236.0	89.80	86.60	9,559.9	254.1	3,767.7	-2,159.9	2.28	-2.08	-0.94
13,331.0	90.80	86.90	9,559.4	259.5	3,862.5	-2,213.4	1.10	1.05	0.32
13,426.0	89.50	85.60	9,559.1	265.7	3,957.3	-2,267.6	1.94	-1.37	-1.37
13,521.0	87.70	85.00	9,561.5	273.5	4,052.0	-2,323.1	2.00	-1.89	-0.63
13,616.0	92.00	87.60	9,561.7	279.6	4,146.7	-2,377.2	5.29	4.53	2.74
13,711.0	91.90	87.80	9,558.5	283.4	4,241.6	-2,429.3	0.24	-0.11	0.21
13,807.0	89.10	85.80	9,557.6	288.8	4,337.4	-2,483.3	3.58	-2.92	-2.08
13,901.0	90.10	88.70	9,558.3	293.3	4,431.3	-2,535.6	3.26	1.06	3.09
13,997.0	90.30	91.20	9,557.9	293.4	4,527.3	-2,585.1	2.61	0.21	2.60
14,092.0	88.60	90.50	9,558.9	292.0	4,622.3	-2,632.9	1.94	-1.79	-0.74



Microsoft Survey Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
14,184.0	84.90	90.20	9,564.1	291.4	4,714.1	-2,679.7	4.03	-4.02	-0.33
14,250.0	84.90	90.20	9,569.9	291.2	4,779.9	-2,713.4	0.00	0.00	0.00

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

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	Comment	
		+N/-S (usft)	+E/-W (usft)	
456.0	456.0	-1.7	-3.0	456' MD Teledrift
14,250.0	9,569.9	291.2	4,779.9	14250.0' MD Projected to Bit

GEOIDETIC 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	458321.00	608048.30	32° 15' 35.335 N	104° 7' 3.066 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	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	2813.1	3.20	325.49	2813.0	4.5	-3.4	1.50	325.49	-3.1	
4	8696.3	3.20	325.49	8687.0	275.3	-189.2	0.00	0.00	-172.3	
5	8909.4	0.00	0.00	8900.0	280.2	-192.6	1.50	180.00	-175.3	B.B. Zeppelin 32 WOLI St Com 1H
6	9004.0	0.00	0.00	8994.6	280.2	-192.6	0.00	0.00	-175.3	
7	9744.5	88.86	89.89	9472.0	281.0	275.3	12.00	89.89	291.8	
8	14254.4	88.86	89.89	9562.0	289.3	4784.4	0.00	0.00	4793.1	PBHL Zeppelin 32 WOLI St Com 1H

