



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H

Lindale 24_25 W1AH Fed 1H

30-015-44713

Original Hole

RECEIVED

JUL 02 2018

Design: Original Hole

DISTRICT II-ARTESIA O.C.D.

Standard Survey Report

02 April, 2018





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H
Well: Lindale 24_25 W1AH Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Lindale 24_25 W1AH Fed 1H
TVD Reference: 3183 + 27 @ 3210.0usft (Patterson 245)
MD Reference: 3183 + 27 @ 3210.0usft (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 24_25-26S-30E Lindale 24_25 W1AH Fed 1H

Site Position:	Northing:	376,775.50 usft	Latitude:	32° 2' 5.373 N
From: Map	Easting:	698,169.40 usft	Longitude:	103° 49' 37.978 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.27 °

Well Lindale 24_25 W1AH Fed 1H

Well Position	+N/-S	0.0 usft	Northing:	376,775.50 usft	Latitude:	32° 2' 5.373 N
	+E/-W	0.0 usft	Easting:	698,169.40 usft	Longitude:	103° 49' 37.978 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,183.0 usft	

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/23/2018	6.98	59.84	47,729.72630504

Design Original Hole

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	27.99

Survey Program Date 4/2/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
182.0	980.0	Rig Survey s (Original Hole)	MWD	MWD v3:standard declination
1,044.0	18,393.0	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
182.0	0.60	41.20	182.0	0.7	0.6	0.9	0.33	0.33	0.00
282.0	0.40	354.70	282.0	1.5	0.9	1.7	0.44	-0.20	-46.50
382.0	0.40	3.80	382.0	2.2	0.9	2.3	0.06	0.00	9.10
482.0	0.70	38.90	482.0	3.0	1.3	3.3	0.44	0.30	35.10
582.0	0.70	56.50	582.0	3.8	2.2	4.4	0.21	0.00	17.60
682.0	0.70	6.40	682.0	4.7	2.8	5.5	0.59	0.00	-50.10
792.0	0.30	359.80	792.0	5.7	2.9	6.4	0.37	-0.36	-6.00
912.0	0.40	45.80	912.0	6.3	3.2	7.1	0.24	0.08	38.33

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Site:	Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H	MD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Well:	Lindale 24_25 W1AH Fed 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)
980.0	0.40	45.80	980.0	6.6	3.5	7.5	0.00	0.00	0.00
980.0 MD Survey Depth									
1,044.0	1.10	66.00	1,044.0	7.0	4.2	8.2	1.15	1.09	31.56
1,107.0	0.40	82.60	1,107.0	7.3	5.0	8.8	1.15	-1.11	26.35
1,171.0	0.50	165.20	1,171.0	7.1	5.3	8.7	0.94	0.16	129.06
1,234.0	0.80	160.00	1,233.9	6.4	5.5	8.2	0.48	0.48	-8.25
1,298.0	0.50	180.40	1,297.9	5.7	5.7	7.7	0.58	-0.47	31.88
1,361.0	0.40	182.70	1,360.9	5.2	5.7	7.2	0.16	-0.16	3.65
1,425.0	0.40	184.70	1,424.9	4.7	5.6	6.8	0.02	0.00	3.13
1,488.0	0.40	198.10	1,487.9	4.3	5.6	6.4	0.15	0.00	21.27
1,552.0	0.50	154.10	1,551.9	3.9	5.6	6.0	0.55	0.16	-68.75
1,615.0	0.60	163.20	1,614.9	3.3	5.8	5.6	0.21	0.16	14.44
1,678.0	0.40	190.10	1,677.9	2.8	5.9	5.2	0.48	-0.32	42.70
1,742.0	0.40	156.00	1,741.9	2.3	5.9	4.8	0.37	0.00	-53.28
1,805.0	0.70	135.20	1,804.9	1.9	6.3	4.6	0.56	0.48	-33.02
1,902.0	0.90	154.20	1,901.9	0.8	7.0	4.0	0.34	0.21	19.59
1,997.0	1.10	158.70	1,996.9	-0.8	7.7	2.9	0.23	0.21	4.74
2,092.0	0.60	126.10	2,091.9	-1.9	8.4	2.3	0.71	-0.53	-34.32
2,187.0	1.50	137.80	2,186.9	-3.1	9.7	1.8	0.97	0.95	12.32
2,280.0	1.20	157.20	2,279.9	-4.9	10.9	0.7	0.58	-0.32	20.86
2,376.0	0.50	217.70	2,375.8	-6.2	11.0	-0.3	1.09	-0.73	63.02
2,471.0	0.60	149.30	2,470.8	-6.9	11.0	-1.0	0.66	0.11	-72.00
2,566.0	0.70	132.30	2,565.8	-7.8	11.7	-1.4	0.23	0.11	-17.89
2,661.0	2.10	148.70	2,660.8	-9.6	13.0	-2.4	1.52	1.47	17.26
2,756.0	1.60	170.00	2,755.8	-12.4	14.1	-4.3	0.89	-0.53	22.42
2,852.0	1.00	159.80	2,851.7	-14.5	14.7	-5.9	0.67	-0.63	-10.63
2,946.0	1.10	67.80	2,945.7	-15.0	15.8	-5.8	1.61	0.11	-97.87
3,042.0	2.00	48.70	3,041.7	-13.5	17.9	-3.5	1.07	0.94	-19.90
3,138.0	0.40	41.60	3,137.7	-12.1	19.4	-1.6	1.67	-1.67	-7.40
3,233.0	0.90	113.90	3,232.7	-12.2	20.3	-1.3	0.91	0.53	76.11
3,328.0	1.30	195.70	3,327.6	-13.5	20.7	-2.3	1.55	0.42	86.11
3,424.0	1.40	244.00	3,423.6	-15.1	19.3	-4.3	1.15	0.10	50.31
3,519.0	0.40	271.00	3,518.6	-15.6	17.9	-5.4	1.12	-1.05	28.42
3,614.0	0.70	271.50	3,613.6	-15.6	17.0	-5.8	0.32	0.32	0.53
3,709.0	1.90	331.70	3,708.6	-14.2	15.7	-5.2	1.75	1.26	63.37
3,744.0	2.10	342.90	3,743.6	-13.1	15.2	-4.4	1.25	0.57	32.00
3,836.0	1.80	345.50	3,835.5	-10.1	14.4	-2.1	0.34	-0.33	2.83
3,930.0	3.40	308.30	3,929.4	-6.9	11.8	-0.5	2.39	1.70	-39.57
4,024.0	3.90	298.60	4,023.2	-3.6	6.8	0.0	0.84	0.53	-10.32
4,119.0	3.70	294.60	4,118.0	-0.8	1.2	-0.2	0.35	-0.21	-4.21
4,215.0	5.30	290.80	4,213.7	2.0	-5.8	-0.9	1.69	1.67	-3.96
4,309.0	5.40	288.20	4,307.3	5.0	-14.0	-2.2	0.28	0.11	-2.77

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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)
4,405.0	5.30	288.20	4,402.9	7.8	-22.5	-3.7	0.10	-0.10	0.00
4,500.0	5.10	267.80	4,497.5	9.0	-30.9	-6.6	1.95	-0.21	-21.47
4,595.0	4.80	265.70	4,592.1	8.5	-39.1	-10.8	0.37	-0.32	-2.21
4,690.0	4.80	267.00	4,686.8	8.0	-47.0	-15.0	0.11	0.00	1.37
4,786.0	4.60	268.50	4,782.5	7.7	-54.9	-19.0	0.24	-0.21	1.56
4,881.0	4.60	265.90	4,877.2	7.3	-62.5	-22.8	0.22	0.00	-2.74
4,976.0	4.60	261.90	4,971.9	6.5	-70.1	-27.1	0.34	0.00	-4.21
5,071.0	4.50	264.80	5,066.6	5.6	-77.5	-31.4	0.26	-0.11	3.05
5,166.0	4.80	265.00	5,161.3	5.0	-85.2	-35.6	0.32	0.32	0.21
5,261.0	4.70	264.70	5,255.9	4.3	-93.0	-39.9	0.11	-0.11	-0.32
5,357.0	4.50	264.40	5,351.6	3.5	-100.7	-44.1	0.21	-0.21	-0.31
5,451.0	4.20	263.30	5,445.4	2.8	-107.8	-48.1	0.33	-0.32	-1.17
5,546.0	5.10	266.20	5,540.0	2.1	-115.5	-52.3	0.98	0.95	3.05
5,642.0	5.10	267.40	5,635.7	1.6	-124.0	-56.8	0.11	0.00	1.25
5,737.0	5.00	270.20	5,730.3	1.4	-132.3	-60.8	0.28	-0.11	2.95
5,832.0	4.60	267.80	5,825.0	1.3	-140.3	-64.7	0.47	-0.42	-2.53
5,927.0	4.00	262.10	5,919.7	0.7	-147.4	-68.5	0.77	-0.63	-6.00
6,022.0	5.20	270.90	6,014.4	0.3	-155.0	-72.5	1.46	1.26	9.26
6,117.0	5.50	272.70	6,109.0	0.6	-163.8	-76.4	0.36	0.32	1.89
6,212.0	5.80	272.90	6,203.5	1.0	-173.2	-80.3	0.32	0.32	0.21
6,307.0	5.40	269.70	6,298.1	1.3	-182.4	-84.5	0.53	-0.42	-3.37
6,403.0	5.20	265.20	6,393.6	0.9	-191.3	-89.0	0.48	-0.21	-4.69
6,498.0	4.80	268.00	6,488.3	0.4	-199.5	-93.3	0.49	-0.42	2.95
6,593.0	4.50	267.10	6,583.0	0.0	-207.2	-97.2	0.32	-0.32	-0.95
6,688.0	4.40	263.50	6,677.7	-0.6	-214.6	-101.2	0.31	-0.11	-3.79
6,783.0	4.20	261.40	6,772.4	-1.5	-221.6	-105.3	0.27	-0.21	-2.21
6,879.0	5.10	268.50	6,868.1	-2.1	-229.4	-109.5	1.11	0.94	7.40
6,975.0	5.10	268.60	6,963.7	-2.3	-237.9	-113.7	0.01	0.00	0.10
7,069.0	5.10	264.60	7,057.4	-2.8	-246.2	-118.1	0.38	0.00	-4.26
7,165.0	5.10	266.50	7,153.0	-3.5	-254.8	-122.6	0.18	0.00	1.98
7,260.0	5.20	268.20	7,247.6	-3.9	-263.3	-127.0	0.19	0.11	1.79
7,356.0	4.70	273.30	7,343.2	-3.8	-271.5	-130.8	0.69	-0.52	5.31
7,450.0	4.40	271.50	7,436.9	-3.5	-279.0	-134.0	0.35	-0.32	-1.91
7,545.0	4.20	269.90	7,531.7	-3.4	-286.1	-137.3	0.25	-0.21	-1.68
7,640.0	3.90	264.70	7,626.4	-3.7	-292.8	-140.7	0.50	-0.32	-5.47
7,736.0	4.40	264.90	7,722.2	-4.3	-299.7	-144.5	0.52	0.52	0.21
7,830.0	4.70	271.50	7,815.9	-4.5	-307.2	-148.2	0.64	0.32	7.02
7,926.0	4.60	269.80	7,911.6	-4.5	-315.0	-151.7	0.18	-0.10	-1.77
8,021.0	3.30	261.80	8,006.3	-4.9	-321.5	-155.1	1.48	-1.37	-8.42
8,115.0	2.60	245.60	8,100.2	-6.1	-326.1	-158.4	1.15	-0.74	-17.23
8,211.0	2.30	245.60	8,196.1	-7.8	-329.8	-161.7	0.31	-0.31	0.00
8,306.0	2.50	247.10	8,291.0	-9.4	-333.5	-164.8	0.22	0.21	1.58
8,401.0	3.00	243.40	8,385.9	-11.3	-337.6	-168.4	0.56	0.53	-3.89

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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)
8,496.0	4.00	271.10	8,480.8	-12.4	-343.1	-172.0	2.04	1.05	29.16
8,591.0	4.20	272.00	8,575.5	-12.2	-349.9	-175.0	0.22	0.21	0.95
8,687.0	6.10	274.80	8,671.1	-11.7	-358.5	-178.5	2.00	1.98	2.92
8,782.0	5.70	266.60	8,765.6	-11.5	-368.3	-183.0	0.98	-0.42	-8.63
8,877.0	3.70	266.50	8,860.3	-12.0	-376.0	-187.0	2.11	-2.11	-0.11
8,972.0	3.90	269.20	8,955.1	-12.2	-382.3	-190.2	0.28	0.21	2.84
9,067.0	3.60	275.50	9,049.9	-12.0	-388.5	-192.9	0.54	-0.32	6.63
9,162.0	4.20	285.40	9,144.7	-10.8	-394.8	-194.8	0.95	0.63	10.42
9,257.0	5.20	296.20	9,239.4	-7.9	-402.1	-195.7	1.40	1.05	11.37
9,352.0	5.60	302.50	9,333.9	-3.5	-409.8	-195.4	0.75	0.42	6.63
9,447.0	5.50	300.80	9,428.5	1.3	-417.7	-194.9	0.20	-0.11	-1.79
9,542.0	4.70	298.10	9,523.1	5.4	-425.0	-194.6	0.88	-0.84	-2.84
9,637.0	5.00	292.10	9,617.8	8.8	-432.3	-195.0	0.62	0.32	-6.32
9,731.0	4.70	271.20	9,711.4	10.5	-439.9	-197.2	1.90	-0.32	-22.23
9,825.0	4.40	262.50	9,805.1	10.1	-447.3	-201.0	0.80	-0.32	-9.26
9,920.0	3.30	252.70	9,899.9	8.8	-453.6	-205.1	1.35	-1.16	-10.32
10,015.0	4.00	259.60	9,994.7	7.4	-459.4	-209.1	0.87	0.74	7.26
10,110.0	3.70	262.70	10,089.5	6.4	-465.7	-212.9	0.38	-0.32	3.26
10,205.0	3.00	261.70	10,184.4	5.6	-471.2	-216.2	0.74	-0.74	-1.05
10,300.0	2.20	258.00	10,279.3	4.9	-475.5	-218.8	0.86	-0.84	-3.89
10,395.0	1.90	263.40	10,374.2	4.3	-478.8	-220.9	0.38	-0.32	5.68
10,466.0	1.80	261.00	10,445.2	4.0	-481.1	-222.2	0.18	-0.14	-3.38
10,492.0	1.40	258.90	10,471.2	3.9	-481.8	-222.6	1.55	-1.54	-8.08
10,514.5	2.03	249.65	10,493.7	3.7	-482.5	-223.1	3.03	2.78	-41.03
B.B. Lindale 24_25 W1AH Fed 1H									
10,518.4	2.14	248.61	10,497.6	3.7	-482.6	-223.2	3.03	2.87	-26.74
New B.B. Lindale 24_25 W1AH Fed 1H									
10,524.0	2.30	247.30	10,503.1	3.6	-482.8	-223.4	3.03	2.89	-23.57
10,556.0	6.50	240.50	10,535.0	2.4	-485.0	-225.4	13.20	13.13	-21.25
10,587.0	11.00	245.10	10,565.7	0.3	-489.2	-229.3	14.68	14.52	14.84
10,619.0	14.20	242.50	10,596.9	-2.8	-495.4	-234.9	10.15	10.00	-8.13
10,651.0	16.00	241.40	10,627.8	-6.7	-502.8	-241.8	5.70	5.63	-3.44
10,683.0	18.70	238.80	10,658.3	-11.5	-511.0	-249.9	8.78	8.44	-8.13
10,714.0	21.30	237.80	10,687.5	-17.0	-520.1	-259.1	8.46	8.39	-3.23
10,746.0	24.60	231.80	10,716.9	-24.3	-530.2	-270.2	12.63	10.31	-18.75
10,778.0	27.80	229.30	10,745.6	-33.3	-541.1	-283.3	10.58	10.00	-7.81
10,809.0	30.30	225.70	10,772.7	-43.4	-552.2	-297.5	9.84	8.06	-11.61
10,841.0	34.40	223.30	10,799.8	-55.7	-564.2	-313.9	13.42	12.81	-7.50
10,873.0	39.10	220.00	10,825.4	-70.0	-576.9	-332.5	15.93	14.69	-10.31
10,904.0	42.20	216.00	10,848.9	-85.9	-589.3	-352.4	13.06	10.00	-12.90
10,936.0	45.30	208.60	10,872.0	-104.6	-601.0	-374.4	18.68	9.69	-23.13
10,968.0	47.50	202.30	10,894.1	-125.5	-611.0	-397.5	15.82	6.88	-19.69
10,999.0	48.20	195.40	10,914.9	-147.2	-618.4	-420.2	16.65	2.26	-22.26

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Lindale 24_25 W1AH Fed 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Site:	Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H	MD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Well:	Lindale 24_25 W1AH Fed 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)
11,031.0	49.90	187.50	10,935.9	-170.9	-623.1	-443.3	19.38	5.31	-24.69
11,063.0	52.00	181.30	10,956.1	-195.6	-625.0	-466.1	16.41	6.56	-19.38
11,095.0	54.30	178.60	10,975.3	-221.2	-625.0	-488.6	9.86	7.19	-8.44
11,127.0	57.10	177.80	10,993.3	-247.7	-624.2	-511.6	8.99	8.75	-2.50
11,159.0	60.40	177.80	11,009.9	-275.0	-623.1	-535.2	10.31	10.31	0.00
11,191.0	62.80	178.30	11,025.1	-303.1	-622.2	-559.6	7.62	7.50	1.56
11,222.0	64.40	179.90	11,038.9	-330.9	-621.7	-583.9	6.93	5.16	5.16
11,254.0	65.60	180.40	11,052.5	-359.9	-621.8	-609.6	4.01	3.75	1.56
11,286.0	67.10	181.00	11,065.3	-389.2	-622.2	-635.6	4.99	4.69	-1.88
11,317.0	68.40	181.30	11,077.0	-417.9	-622.7	-661.2	4.29	4.19	0.97
11,349.0	69.50	181.30	11,088.5	-447.7	-623.4	-687.9	3.44	3.44	0.00
11,381.0	70.20	181.00	11,099.5	-477.8	-624.0	-714.7	2.36	2.19	-0.94
11,391.0	70.40	180.90	11,102.9	-487.2	-624.2	-723.1	2.21	2.00	-1.00
11,456.0	73.70	181.00	11,122.9	-549.0	-625.2	-778.2	5.08	5.08	0.15
11,488.0	74.80	181.40	11,131.6	-579.8	-625.8	-805.7	3.64	3.44	1.25
11,492.8	75.23	181.63	11,132.9	-584.4	-626.0	-809.8	10.14	9.05	4.74
LP Lindale 24_25 W1AH Fed 1H									
11,520.0	77.70	182.90	11,139.2	-610.9	-627.0	-833.6	10.14	9.06	4.68
11,551.0	80.30	182.30	11,145.2	-641.2	-628.4	-861.1	8.60	8.39	-1.94
11,583.0	83.30	182.60	11,149.7	-672.9	-629.7	-889.7	9.42	9.38	0.94
11,614.0	85.00	182.30	11,152.9	-703.7	-631.1	-917.5	5.57	5.48	-0.97
11,645.0	86.20	182.20	11,155.3	-734.6	-632.3	-945.4	3.88	3.87	-0.32
11,677.0	87.30	182.10	11,157.1	-766.5	-633.5	-974.1	3.45	3.44	-0.31
11,771.0	91.00	180.70	11,158.5	-860.4	-635.8	-1,058.2	4.21	3.94	-1.49
11,866.0	91.30	180.50	11,156.6	-955.4	-636.8	-1,142.5	0.38	0.32	-0.21
11,961.0	90.80	178.80	11,154.8	-1,050.4	-636.2	-1,226.1	1.86	-0.53	-1.79
12,057.0	88.80	177.70	11,155.1	-1,146.4	-633.3	-1,309.5	2.38	-2.08	-1.15
12,152.0	88.50	176.60	11,157.4	-1,241.2	-628.5	-1,391.0	1.20	-0.32	-1.16
12,247.0	87.60	176.30	11,160.6	-1,336.0	-622.7	-1,471.9	1.00	-0.95	-0.32
12,342.0	87.10	177.30	11,165.0	-1,430.7	-617.4	-1,553.1	1.18	-0.53	1.05
12,437.0	86.50	177.00	11,170.3	-1,525.5	-612.6	-1,634.6	0.71	-0.63	-0.32
12,532.0	87.40	177.80	11,175.4	-1,620.2	-608.3	-1,716.2	1.27	0.95	0.84
12,626.0	92.00	184.40	11,175.9	-1,714.1	-610.1	-1,800.0	8.56	4.89	7.02
12,721.0	91.80	183.70	11,172.7	-1,808.8	-616.8	-1,886.8	0.77	-0.21	-0.74
12,816.0	90.80	182.80	11,170.6	-1,903.7	-622.2	-1,973.0	1.42	-1.05	-0.95
12,911.0	92.70	185.00	11,167.7	-1,998.4	-628.7	-2,059.7	3.06	2.00	2.32
13,007.0	91.30	181.80	11,164.3	-2,094.1	-634.4	-2,146.9	3.64	-1.46	-3.33
13,101.0	90.10	179.60	11,163.2	-2,188.1	-635.5	-2,230.5	2.67	-1.28	-2.34
13,196.0	89.80	179.00	11,163.2	-2,283.1	-634.4	-2,313.8	0.71	-0.32	-0.63
13,291.0	88.90	179.70	11,164.3	-2,378.1	-633.3	-2,397.2	1.20	-0.95	0.74
13,386.0	89.30	179.40	11,165.8	-2,473.1	-632.5	-2,480.7	0.53	0.42	-0.32
13,482.0	92.10	180.40	11,164.6	-2,569.1	-632.4	-2,565.4	3.10	2.92	1.04

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Lindale 24_25 W1AH Fed 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Site:	Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H	MD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Well:	Lindale 24_25 W1AH Fed 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)
13,578.0	89.70	180.60	11,163.1	-2,665.0	-633.2	-2,650.5	2.51	-2.50	0.21
13,673.0	89.90	180.40	11,163.5	-2,760.0	-634.0	-2,734.8	0.30	0.21	-0.21
13,768.0	90.70	179.40	11,163.0	-2,855.0	-633.9	-2,818.6	1.35	0.84	-1.05
13,862.0	89.10	178.10	11,163.1	-2,949.0	-631.8	-2,900.7	2.19	-1.70	-1.38
13,958.0	88.60	178.00	11,165.1	-3,044.9	-628.6	-2,983.8	0.53	-0.52	-0.10
14,053.0	90.50	180.20	11,165.8	-3,139.9	-627.1	-3,067.0	3.06	2.00	2.32
14,148.0	89.80	179.10	11,165.5	-3,234.9	-626.5	-3,150.6	1.37	-0.74	-1.16
14,244.0	87.70	178.70	11,167.6	-3,330.9	-624.6	-3,234.5	2.23	-2.19	-0.42
14,338.0	88.10	179.30	11,171.1	-3,424.8	-623.0	-3,316.7	0.77	0.43	0.64
14,433.0	87.90	179.50	11,174.4	-3,519.7	-622.0	-3,400.0	0.30	-0.21	0.21
14,528.0	88.60	180.00	11,177.3	-3,614.7	-621.6	-3,483.7	0.91	0.74	0.53
14,623.0	91.50	181.40	11,177.2	-3,709.6	-622.8	-3,568.1	3.39	3.05	1.47
14,718.0	96.50	184.00	11,170.6	-3,804.3	-627.2	-3,653.7	5.93	5.26	2.74
14,814.0	93.90	182.30	11,161.9	-3,899.7	-632.5	-3,740.5	3.23	-2.71	-1.77
14,909.0	91.80	180.70	11,157.2	-3,994.6	-634.9	-3,825.4	2.78	-2.21	-1.68
15,004.0	92.20	179.50	11,153.9	-4,089.5	-635.1	-3,909.3	1.33	0.42	-1.26
15,099.0	90.90	179.70	11,151.3	-4,184.5	-634.4	-3,992.9	1.38	-1.37	0.21
15,194.0	90.40	179.60	11,150.2	-4,279.5	-633.9	-4,076.5	0.54	-0.53	-0.11
15,290.0	89.50	178.70	11,150.3	-4,375.4	-632.4	-4,160.6	1.33	-0.94	-0.94
15,385.0	91.00	178.60	11,149.9	-4,470.4	-630.2	-4,243.4	1.58	1.58	-0.11
15,481.0	88.40	177.70	11,150.4	-4,566.4	-627.1	-4,326.7	2.87	-2.71	-0.94
15,575.0	87.40	176.50	11,153.8	-4,660.2	-622.4	-4,407.3	1.66	-1.06	-1.28
15,670.0	87.50	176.10	11,158.1	-4,754.9	-616.2	-4,488.0	0.43	0.11	-0.42
15,766.0	87.80	177.00	11,162.0	-4,850.6	-610.5	-4,569.9	0.99	0.31	0.94
15,861.0	86.10	174.90	11,167.0	-4,945.2	-603.8	-4,650.3	2.84	-1.79	-2.21
15,956.0	87.10	174.90	11,172.7	-5,039.7	-595.3	-4,729.7	1.05	1.05	0.00
16,052.0	87.90	175.50	11,176.9	-5,135.3	-587.3	-4,810.4	1.04	0.83	0.63
16,147.0	90.40	176.30	11,178.3	-5,230.0	-580.5	-4,890.9	2.76	2.63	0.84
16,242.0	89.60	178.00	11,178.3	-5,324.9	-575.8	-4,972.4	1.98	-0.84	1.79
16,337.0	89.60	179.20	11,178.9	-5,419.8	-573.5	-5,055.2	1.26	0.00	1.26
16,433.0	89.70	180.70	11,179.5	-5,515.8	-573.4	-5,139.9	1.57	0.10	1.56
16,528.0	90.80	180.10	11,179.1	-5,610.8	-574.0	-5,224.1	1.32	1.16	-0.63
16,623.0	90.90	180.40	11,177.7	-5,705.8	-574.5	-5,308.2	0.33	0.11	0.32
16,718.0	90.30	179.30	11,176.7	-5,800.8	-574.2	-5,392.0	1.32	-0.63	-1.16
16,816.0	89.90	180.30	11,176.5	-5,898.8	-573.9	-5,478.3	1.10	-0.41	1.02
16,911.0	89.80	181.50	11,176.8	-5,993.8	-575.4	-5,562.9	1.27	-0.11	1.26
17,005.0	89.10	180.20	11,177.7	-6,087.8	-576.8	-5,646.6	1.57	-0.74	-1.38
17,100.0	90.00	181.40	11,178.4	-6,182.8	-578.1	-5,731.1	1.58	0.95	1.26
17,195.0	89.60	181.40	11,178.8	-6,277.7	-580.4	-5,816.0	0.42	-0.42	0.00
17,290.0	91.10	182.30	11,178.2	-6,372.7	-583.5	-5,901.3	1.84	1.58	0.95
17,385.0	90.50	182.10	11,176.9	-6,467.6	-587.1	-5,986.8	0.67	-0.63	-0.21
17,480.0	89.60	182.40	11,176.8	-6,562.5	-590.8	-6,072.4	1.00	-0.95	0.32
17,575.0	92.80	184.30	11,174.8	-6,657.3	-596.4	-6,158.7	3.92	3.37	2.00

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Lindale 24_25 W1AH Fed 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Site:	Section 24_25-26S-30E Lindale 24_25 W1AH Fed 1H	MD Reference:	3183 + 27 @ 3210.0usft (Patterson 245)
Well:	Lindale 24_25 W1AH Fed 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)
17,670.0	91.40	183.60	11,171.3	-6,752.0	-602.9	-6,245.4	1.65	-1.47	-0.74
17,766.0	90.20	181.40	11,170.0	-6,847.9	-607.1	-6,332.1	2.61	-1.25	-2.29
17,861.0	89.50	181.80	11,170.2	-6,942.9	-609.8	-6,417.2	0.85	-0.74	0.42
17,956.0	89.50	180.60	11,171.0	-7,037.9	-611.8	-6,502.0	1.26	0.00	-1.26
18,051.0	89.20	180.50	11,172.1	-7,132.9	-612.7	-6,586.3	0.33	-0.32	-0.11
18,147.0	86.30	179.70	11,175.9	-7,228.8	-612.8	-6,671.1	3.13	-3.02	-0.83
18,242.0	83.90	177.20	11,184.0	-7,323.4	-610.3	-6,753.4	3.64	-2.53	-2.63
18,337.0	86.70	178.20	11,191.8	-7,418.0	-606.5	-6,835.2	3.13	2.95	1.05
18,393.0	86.70	178.20	11,195.0	-7,473.8	-604.7	-6,883.7	0.00	0.00	0.00
18393.0' MD Projected to Bit - PBHL Lindale 24_25 W1AH Fed 1H									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
980.0	980.0	6.6	3.5	980.0 MD Survey Depth
18,393.0	11,195.0	-7,473.8	-604.7	18393.0' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Lindale 24_25 W1AH Fed 1H
COUNTY: Eddy County, N.M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 245
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.72°



OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico Eastern Zone
3183 + 27 @ 3210.0usft (Patterson 245)

GROUND ELEVATION: 3183.0

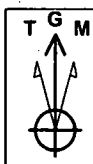
+N/-S +E/-W Northing Easting Latitude Longitude Slot

0.0 0.0 376775.50 698169.40 32° 2' 5.373 N 103° 49' 37.978 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	3850.0	0.00	0.00	3850.0	0.0	0.0	0.00	0.00	0.0	
3	4150.3	4.50	270.00	4150.0	0.0	-11.8	1.50	270.00	1.0	
4	10216.0	4.50	270.00	10197.0	0.0	-488.2	0.00	0.00	40.8	
5	10516.4	0.00	0.00	10497.0	0.0	-500.0	1.50	180.00	41.8	New B.B. Lindale 24_25 W1AH Fed 1H
6	10525.0	0.00	0.00	10505.6	0.0	-500.0	0.00	0.00	41.8	
7	10681.9	15.79	254.33	10660.5	-5.8	-520.7	10.07	254.33	49.3	
8	11534.8	90.00	179.75	11170.0	-574.1	-657.1	10.07	-75.14	627.1	LP Lindale 24_25 W1AH Fed 1H
9	18440.4	90.00	179.75	11170.0	-7479.7	-627.5	0.00	0.00	7505.9	PBHL Lindale 24_25 W1AH Fed 1H

SHL: 185' FNL: 830' FEL
Section 24-26S-30E
PBHL: 2333' FNL: 990' FEL
Section 25-26S-30E



Azimuths to Grid North
True North: -0.27°
Magnetic North: 6.72°

Magnetic Field
Strength: 47729.7nT
Dip Angle: 59.84°
Date: 2/23/2018
Model: IGRF2015

Start Drop -1.50 - New B.B. Lindale 24_25 W1AH Fed 1H - Section 24
Start 8.6 hold at 10516.4 MD
Start Build 10.07
Start DLS 10.07 TFO -75.14
Start 6905.6 hold at 11534.8 MD

