



MEWBOURNE
OIL COMPANY

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 28 2018

RECEIVED

Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 7-24S-28E Boston 7 W0LI Fee 2H

Boston 7 W0LI Fee 2H

30-015-44870

Original Hole

Design: Original Hole

Standard Survey Report

12 October, 2018





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 7-24S-28E Boston 7 WOLI Fee 2H
Well: Boston 7 WOLI Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Boston 7 WOLI Fee 2H
TVD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
MD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
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 7-24S-28E Boston 7 WOLI Fee 2H

Site Position:		Northing:	447,537.50 usft	Latitude:	32° 13' 48.718 N
From:	Map	Easting:	603,008.10 usft	Longitude:	104° 8' 1.999 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well Boston 7 WOLI Fee 2H

Well Position	+N/-S	0.0 usft	Northing:	447,537.50 usft	Latitude:	32° 13' 48.718 N
	+E/-W	0.0 usft	Easting:	603,008.10 usft	Longitude:	104° 8' 1.999 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,082.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/6/2018	7.09	59.96	47,767.42081991

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	211.81

Survey Program Date 10/12/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
120.0	291.0	Survey #1 (Original Hole)	MWD	MWD v3:standard declination
478.0	14,090.0	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
120.0	0.60	107.80	120.0	-0.2	0.6	-0.2	0.50	0.50	0.00
200.0	1.00	212.80	200.0	-0.9	0.6	0.4	1.62	0.50	131.25
291.0	0.80	223.70	291.0	-2.0	-0.3	1.9	0.29	-0.22	11.98
291.0' MD True Shot									
478.0	0.50	261.60	478.0	-3.1	-2.0	3.7	0.27	-0.16	20.27
597.0	0.40	217.10	597.0	-3.5	-2.7	4.4	0.30	-0.08	-37.39
746.0	0.50	84.30	746.0	-3.9	-2.4	4.5	0.55	0.07	-89.13
939.0	1.00	98.00	938.9	-4.0	0.1	3.3	0.27	0.26	7.10
1,128.0	1.20	119.10	1,127.9	-5.2	3.5	2.6	0.24	0.11	11.16

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Boston 7 WOLI Fee 2H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3082 + 27 @ 3109.0usft (Patterson 560)
Site:	Section 7-24S-28E Boston 7 WOLI Fee 2H	MD Reference:	3082 + 27 @ 3109.0usft (Patterson 560)
Well:	Boston 7 WOLI Fee 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)
1,317.0	1.20	145.90	1,316.9	-7.8	6.3	3.3	0.29	0.00	14.18
1,506.0	1.30	170.80	1,505.8	-11.6	7.8	5.7	0.29	0.05	13.17
1,696.0	2.00	150.90	1,695.8	-16.6	9.7	9.0	0.47	0.37	-10.47
1,885.0	0.90	125.20	1,884.7	-20.3	12.5	10.7	0.66	-0.58	-13.60
2,075.0	0.70	135.20	2,074.7	-22.0	14.6	11.0	0.13	-0.11	5.26
2,264.0	1.10	101.70	2,263.6	-23.2	17.2	10.7	0.34	0.21	-17.72
2,381.0	1.00	95.10	2,380.6	-23.5	19.3	9.8	0.13	-0.09	-5.64
2,468.0	1.10	102.60	2,467.6	-23.8	20.9	9.2	0.20	0.11	8.62
2,657.0	2.50	301.40	2,656.6	-22.0	19.1	8.6	1.88	0.74	-85.29
2,846.0	5.00	302.10	2,845.1	-15.5	8.6	8.6	1.32	1.32	0.37
3,036.0	4.60	301.60	3,034.5	-7.1	-4.9	8.6	0.21	-0.21	-0.26
3,225.0	4.10	297.10	3,222.9	0.0	-17.4	9.2	0.32	-0.26	-2.38
3,414.0	6.10	299.10	3,411.2	7.9	-32.2	10.2	1.06	1.06	1.06
3,604.0	6.50	298.80	3,600.0	18.0	-50.4	11.3	0.21	0.21	-0.16
3,793.0	6.20	296.90	3,787.9	27.8	-68.9	12.7	0.19	-0.16	-1.01
3,982.0	5.90	295.80	3,975.8	36.6	-86.7	14.6	0.17	-0.16	-0.58
4,172.0	6.00	293.20	4,164.8	44.8	-104.6	17.1	0.15	0.05	-1.37
4,361.0	5.50	292.40	4,352.8	52.1	-122.1	20.0	0.27	-0.26	-0.42
4,550.0	4.90	286.40	4,541.1	57.9	-138.2	23.7	0.43	-0.32	-3.17
4,740.0	5.70	287.10	4,730.3	62.9	-155.0	28.2	0.42	0.42	0.37
4,929.0	5.50	285.30	4,918.4	68.1	-172.7	33.2	0.14	-0.11	-0.95
5,119.0	5.00	288.90	5,107.6	73.2	-189.3	37.6	0.32	-0.26	1.89
5,308.0	6.20	293.20	5,295.6	79.9	-206.5	41.0	0.67	0.63	2.28
5,497.0	5.40	290.00	5,483.7	86.9	-224.2	44.3	0.46	-0.42	-1.69
5,687.0	4.60	288.80	5,673.0	92.4	-239.9	47.9	0.42	-0.42	-0.63
5,876.0	5.80	284.10	5,861.2	97.2	-256.3	52.5	0.67	0.63	-2.49
6,066.0	4.50	284.50	6,050.4	101.4	-272.8	57.6	0.68	-0.68	0.21
6,256.0	5.20	275.80	6,239.7	104.1	-288.6	63.6	0.53	0.37	-4.58
6,445.0	4.80	271.40	6,428.0	105.2	-305.0	71.4	0.29	-0.21	-2.33
6,634.0	4.30	282.60	6,616.4	106.9	-319.9	77.7	0.54	-0.26	5.93
6,824.0	4.80	293.30	6,805.8	111.6	-334.1	81.2	0.52	0.26	5.63
7,013.0	4.80	295.00	6,994.2	118.1	-348.5	83.3	0.08	0.00	0.90
7,202.0	5.40	287.30	7,182.4	124.1	-364.2	86.5	0.48	0.32	-4.07
7,392.0	6.20	291.50	7,371.4	130.5	-382.3	90.6	0.48	0.42	2.21
7,581.0	5.40	292.70	7,559.5	137.7	-400.0	93.8	0.43	-0.42	0.63
7,770.0	4.40	290.20	7,747.8	143.6	-415.0	96.7	0.54	-0.53	-1.32
7,959.0	5.00	290.60	7,936.1	149.0	-429.5	99.7	0.32	0.32	0.21
8,148.0	4.90	300.00	8,124.4	156.0	-444.2	101.6	0.43	-0.05	4.97
8,338.0	3.00	301.80	8,314.0	162.6	-455.5	101.8	1.00	-1.00	0.95
8,527.0	1.60	294.70	8,502.8	166.3	-462.1	102.2	0.75	-0.74	-3.76
8,716.0	0.50	235.90	8,691.8	167.0	-465.1	103.2	0.74	-0.58	-31.11
8,774.3	0.22	204.84	8,750.1	166.7	-465.4	103.6	0.57	-0.48	-53.27

B.B. Boston 7 WOLI Fee 2H

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 7-24S-28E Boston 7 WOLI Fee 2H
Well: Boston 7 WOLI Fee 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Boston 7 WOLI Fee 2H
TVD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
MD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
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)
8,780.0	0.20	197.60	8,755.8	166.7	-465.4	103.6	0.57	-0.33	-127.09
8,848.0	2.40	79.10	8,823.8	166.9	-464.0	102.8	3.68	3.24	-174.26
8,880.0	6.00	84.20	8,855.7	167.2	-461.7	101.3	11.30	11.25	15.94
8,911.0	9.90	80.20	8,886.4	167.8	-457.5	98.5	12.70	12.58	-12.90
8,943.0	13.10	76.70	8,917.7	169.1	-451.2	94.1	10.23	10.00	-10.94
8,974.0	16.80	76.50	8,947.7	171.0	-443.5	88.5	11.94	11.94	-0.65
9,006.0	20.60	80.10	8,978.0	173.0	-433.4	81.4	12.41	11.88	11.25
9,037.0	23.50	81.50	9,006.7	174.9	-421.9	73.8	9.51	9.35	4.52
9,069.0	27.70	82.90	9,035.6	176.7	-408.2	65.0	13.26	13.13	4.38
9,101.0	31.80	83.20	9,063.3	178.6	-392.5	55.0	12.82	12.81	0.94
9,132.0	35.70	82.60	9,089.1	180.8	-375.4	44.2	12.63	12.58	-1.94
9,164.0	39.70	79.70	9,114.4	183.8	-356.1	31.5	13.67	12.50	-9.06
9,195.0	43.30	76.80	9,137.6	188.0	-336.0	17.3	13.16	11.61	-9.35
9,227.0	46.60	76.40	9,160.3	193.2	-314.0	1.3	10.35	10.31	-1.25
9,258.0	49.90	76.60	9,180.9	198.6	-291.5	-15.2	10.66	10.65	0.65
9,290.0	52.70	77.00	9,200.9	204.3	-267.2	-32.8	8.80	8.75	1.25
9,321.0	54.90	77.00	9,219.2	210.0	-242.8	-50.5	7.10	7.10	0.00
9,353.0	57.50	77.40	9,237.0	215.9	-216.9	-69.1	8.19	8.13	1.25
9,384.0	61.50	77.60	9,252.8	221.6	-190.8	-87.8	12.92	12.90	0.65
9,416.0	65.10	77.10	9,267.1	227.9	-162.9	-107.8	11.34	11.25	-1.56
9,447.0	67.90	76.40	9,279.5	234.4	-135.2	-127.9	9.27	9.03	-2.26
9,479.0	70.20	75.90	9,290.9	241.6	-106.2	-149.3	7.33	7.19	-1.56
9,511.0	73.30	76.00	9,301.0	248.9	-76.7	-171.1	9.69	9.69	0.31
9,542.0	75.50	76.30	9,309.3	256.1	-47.8	-192.5	7.16	7.10	0.97
9,575.0	78.90	77.10	9,316.6	263.5	-16.4	-215.2	10.57	10.30	2.42
9,646.0	87.50	74.00	9,325.0	281.1	51.7	-266.1	12.86	12.11	-4.37
9,734.0	89.00	80.10	9,327.7	300.8	137.4	-328.0	7.13	1.70	6.93
9,829.0	91.70	81.30	9,327.1	316.1	231.2	-390.5	3.11	2.84	1.26
9,923.0	91.40	80.50	9,324.6	331.0	323.9	-452.0	0.91	-0.32	-0.85
10,018.0	90.80	80.60	9,322.8	346.6	417.6	-514.7	0.64	-0.63	0.11
10,089.5	89.58	79.16	9,322.5	359.1	488.0	-562.4	2.64	-1.70	-2.02
LP Boston 7 WOLI Fee 2H									
10,112.0	89.20	78.70	9,322.8	363.5	510.1	-577.7	2.64	-1.70	-2.02
10,207.0	89.50	80.90	9,323.8	380.3	603.6	-641.3	2.34	0.32	2.32
10,301.0	91.80	85.00	9,322.8	391.8	696.8	-700.3	5.00	2.45	4.36
10,396.0	90.60	83.60	9,320.8	401.3	791.4	-758.1	1.94	-1.26	-1.47
10,490.0	90.20	86.40	9,320.1	409.4	885.0	-814.4	3.01	-0.43	2.98
10,585.0	91.10	90.00	9,319.0	412.4	979.9	-867.0	3.91	0.95	3.79
10,679.0	90.90	91.50	9,317.4	411.2	1,073.9	-915.5	1.61	-0.21	1.60
10,774.0	90.30	91.70	9,316.4	408.5	1,168.8	-963.2	0.67	-0.63	0.21
10,869.0	86.90	89.50	9,318.7	407.6	1,263.8	-1,012.4	4.26	-3.58	-2.32
10,963.0	88.40	89.80	9,322.6	408.1	1,357.7	-1,062.4	1.63	1.60	0.32
11,058.0	88.70	89.40	9,325.0	408.8	1,452.7	-1,113.0	0.53	0.32	-0.42
11,152.0	89.10	89.70	9,326.8	409.5	1,546.7	-1,163.2	0.53	0.43	0.32

Company: Mewbourne Oil Company
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Design: Original Hole

Local Co-ordinate Reference: Well Boston 7 WOLI Fee 2H
TVD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
MD Reference: 3082 + 27 @ 3109.0usft (Patterson 560)
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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)
11,247.0	88.50	89.80	9,328.8	409.9	1,641.6	-1,213.6	0.64	-0.63	0.11
11,342.0	87.00	89.90	9,332.5	410.2	1,736.6	-1,263.9	1.58	-1.58	0.11
11,436.0	90.50	90.10	9,334.6	410.2	1,830.5	-1,313.4	3.73	3.72	0.21
11,530.0	90.00	89.50	9,334.1	410.5	1,924.5	-1,363.2	0.83	-0.53	-0.64
11,625.0	88.10	88.70	9,335.7	412.0	2,019.5	-1,414.5	2.17	-2.00	-0.84
11,719.0	87.20	87.70	9,339.6	415.0	2,113.4	-1,466.5	1.43	-0.96	-1.06
11,814.0	89.50	88.60	9,342.3	418.0	2,208.3	-1,519.1	2.60	2.42	0.95
11,909.0	88.60	89.30	9,343.9	419.8	2,303.2	-1,570.7	1.20	-0.95	0.74
12,003.0	92.60	91.50	9,342.9	419.1	2,397.2	-1,619.6	4.86	4.26	2.34
12,098.0	92.10	91.80	9,339.0	416.4	2,492.1	-1,667.3	0.61	-0.53	0.32
12,192.0	91.30	91.90	9,336.2	413.3	2,586.0	-1,714.2	0.86	-0.85	0.11
12,287.0	86.10	90.80	9,338.4	411.1	2,680.9	-1,762.4	5.59	-5.47	-1.16
12,381.0	86.20	91.20	9,344.7	409.5	2,774.7	-1,810.4	0.44	0.11	0.43
12,476.0	86.40	91.00	9,350.8	407.7	2,869.5	-1,858.8	0.30	0.21	-0.21
12,570.0	87.80	89.40	9,355.6	407.3	2,963.3	-1,908.0	2.26	1.49	-1.70
12,665.0	90.20	89.30	9,357.2	408.4	3,058.3	-1,959.0	2.53	2.53	-0.11
12,760.0	88.40	88.00	9,358.4	410.6	3,153.3	-2,010.9	2.34	-1.89	-1.37
12,854.0	87.10	87.80	9,362.1	414.1	3,247.1	-2,063.3	1.40	-1.38	-0.21
12,949.0	90.20	89.40	9,364.3	416.4	3,342.1	-2,115.3	3.67	3.26	1.68
13,044.0	88.80	88.70	9,365.1	418.0	3,437.0	-2,166.7	1.65	-1.47	-0.74
13,138.0	90.60	88.70	9,365.6	420.1	3,531.0	-2,218.1	1.91	1.91	0.00
13,233.0	88.00	87.80	9,366.8	423.0	3,626.0	-2,270.6	2.90	-2.74	-0.95
13,327.0	89.80	87.30	9,368.6	427.0	3,719.8	-2,323.5	1.99	1.91	-0.53
13,422.0	88.80	88.60	9,369.8	430.4	3,814.8	-2,376.4	1.73	-1.05	1.37
13,516.0	92.40	91.50	9,368.8	430.3	3,908.7	-2,425.9	4.92	3.83	3.09
13,611.0	92.10	92.10	9,365.1	427.4	4,003.6	-2,473.3	0.71	-0.32	0.63
13,706.0	89.30	90.80	9,363.9	425.0	4,098.6	-2,521.3	3.25	-2.95	-1.37
13,800.0	86.40	90.40	9,367.4	424.0	4,192.5	-2,570.0	3.11	-3.09	-0.43
13,895.0	89.80	90.30	9,370.6	423.4	4,287.4	-2,619.5	3.58	3.58	-0.11
13,990.0	86.20	89.60	9,373.9	423.5	4,382.3	-2,669.6	3.86	-3.79	-0.74
14,022.0	85.50	89.50	9,376.2	423.7	4,414.3	-2,686.7	2.21	-2.19	-0.31
14,090.0	85.50	89.50	9,381.5	424.3	4,482.1	-2,722.9	0.00	0.00	0.00

14090.0' Projected to Bit - PBHL Boston 7 WOLI Fee 2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
291.0	291.0	-2.0	-0.3	291.0' MD True Shot
14,090.0	9,381.5	424.3	4,482.1	14090.0' Projected to Bit

GEODETIC ZONE: New Mexico Eastern Zone										
3082 + 27 @ 3109.0usft (Patterson 560)										
GROUND ELEVATION: 3082.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	447537.50	603008.10	32° 13' 48.718 N	104° 8' 1.999 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2834.1	5.01	289.11	2833.7	4.8	-13.8	1.50	289.11	-13.3	
4	8438.2	5.01	289.11	8416.3	165.0	-476.4	0.00	0.00	-457.7	
5	8772.3	0.00	0.00	8750.0	169.8	-490.2	1.50	180.00	-471.0	B.B. Boston 7 WOLI Fee 2H
6	8867.9	0.00	0.00	8845.6	169.8	-490.2	0.00	0.00	-471.0	
7	9609.6	89.00	76.80	9323.0	277.0	-33.4	12.00	76.80	-5.8	
8	10896.8	89.00	89.67	9345.5	428.2	1241.9	1.00	90.12	1278.2	
9	14143.9	89.00	89.67	9402.0	446.7	4488.5	0.00	0.00	4510.7	PBHL Boston 7 WOLI Fee 2H

