



30.015-44870

October 29, 2018

**NM OIL CONSERVATION
ARTESIA DISTRICT**

DEC 28 2018

RECEIVED

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
Boston 7 WOLI Fee #002H
Purple Sage; Wolfcamp
Eddy County, New Mexico
API# 30-015-44870

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 & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Victor Anguiano	Original Hole	478ft. to 14,022ft.	09-09-18 to 09-22-18	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.


Eric 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\Boston 7 WOLI Fee #2H\181118

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163



October 29, 2018

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of September 9, 2018, through September 22, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 581feet to a depth of 7,792feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Boston 7 W0LI Fee #2H, well API # 30-015-44870 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.

Eric Estes

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Microsoft
MWD Surveys



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

Well	Boston 7 WOLI Fee 2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			27.0 usft
		Latitude:	32° 13' 48.718 N
		Longitude:	104° 8' 1.999 W
		Ground Level:	3,082.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/6/2018	(°)
			7.09
		Dip Angle	(°)
		59.96	
		Field Strength	(nT)
		47,767.42081992	

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			211.81



Microsoft MWD Surveys



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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

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (")	
291.0	0.80	223.70	291.0	2,818.0	-2.0	-0.3	2.0	187.01	Tie-In
478.0	0.50	261.60	478.0	2,631.0	-3.1	-2.0	3.7	212.32	
597.0	0.40	217.10	597.0	2,512.0	-3.5	-2.7	4.4	217.86	
746.0	0.50	84.30	746.0	2,363.0	-3.9	-2.4	4.5	211.81	
939.0	1.00	98.00	938.9	2,170.1	-4.0	0.1	4.0	178.35	
1,128.0	1.20	119.10	1,127.9	1,981.1	-5.2	3.5	6.3	146.21	
1,317.0	1.20	145.90	1,316.9	1,792.1	-7.8	6.3	10.0	140.99	
1,506.0	1.30	170.80	1,505.8	1,603.2	-11.6	7.8	13.9	146.08	
1,696.0	2.00	150.90	1,695.8	1,413.2	-16.6	9.7	19.2	149.60	
1,885.0	0.90	125.20	1,884.7	1,224.3	-20.3	12.5	23.9	148.31	
2,075.0	0.70	135.20	2,074.7	1,034.3	-22.0	14.6	26.4	146.47	
2,264.0	1.10	101.70	2,263.6	845.4	-23.2	17.2	28.9	143.48	
2,381.0	1.00	95.10	2,380.8	728.4	-23.5	19.3	30.4	140.63	
2,468.0	1.10	102.60	2,467.6	641.4	-23.8	20.9	31.6	138.71	
2,657.0	2.50	301.40	2,656.6	452.4	-22.0	19.1	29.1	139.02	
2,846.0	5.00	302.10	2,845.1	263.9	-15.5	8.6	17.7	150.91	
3,036.0	4.60	301.60	3,034.5	74.5	-7.1	-4.9	8.6	214.62	
3,225.0	4.10	297.10	3,222.9	-113.9	0.0	-17.4	17.4	269.88	
3,414.0	6.10	299.10	3,411.2	-302.2	7.9	-32.2	33.1	283.85	
3,604.0	6.50	298.80	3,600.0	-491.0	18.0	-50.4	53.5	289.67	
3,793.0	6.20	296.90	3,787.9	-678.9	27.8	-68.9	74.3	291.97	



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3,982.0	5.90	295.80	3,975.8	-868.8	36.8	-86.7	94.1	292.90
4,172.0	6.00	293.20	4,164.8	-1,055.8	44.8	-104.6	113.8	293.18
4,361.0	5.50	292.40	4,352.8	-1,243.8	52.1	-122.1	132.8	293.12
4,550.0	4.90	288.40	4,541.1	-1,432.1	57.9	-138.2	149.8	292.72
4,740.0	5.70	287.10	4,730.3	-1,621.3	62.9	-155.0	167.3	292.10
4,929.0	5.50	285.30	4,918.4	-1,809.4	68.1	-172.7	185.7	291.51
5,119.0	5.00	288.90	5,107.8	-1,998.6	73.2	-189.3	203.0	291.13
5,308.0	6.20	293.20	5,295.8	-2,186.6	79.9	-206.5	221.4	291.14
5,497.0	5.40	290.00	5,483.7	-2,374.7	86.9	-224.2	240.5	291.19
5,687.0	4.80	288.80	5,673.0	-2,564.0	92.4	-239.9	257.1	291.07
5,876.0	5.80	284.10	5,861.2	-2,752.2	97.2	-256.3	274.1	290.77
6,066.0	4.50	284.50	6,050.4	-2,941.4	101.4	-272.8	291.1	290.39
6,256.0	5.20	275.80	6,239.7	-3,130.7	104.1	-288.6	306.8	289.84
6,445.0	4.80	271.40	6,428.0	-3,319.0	105.2	-305.0	322.7	289.03
6,634.0	4.30	282.60	6,618.4	-3,507.4	106.9	-319.9	337.3	288.49
6,824.0	4.80	293.30	6,805.8	-3,696.8	111.6	-334.1	352.3	288.48
7,013.0	4.80	295.00	6,994.2	-3,885.2	118.1	-348.5	368.0	288.72
7,202.0	5.40	287.30	7,182.4	-4,073.4	124.1	-364.2	384.8	288.82
7,392.0	6.20	291.50	7,371.4	-4,262.4	130.5	-382.3	403.9	288.85
7,581.0	5.40	292.70	7,559.5	-4,450.5	137.7	-400.0	423.0	289.00
7,770.0	4.40	290.20	7,747.8	-4,638.8	143.8	-415.0	439.1	289.09
7,959.0	5.00	290.60	7,936.1	-4,827.1	149.0	-429.5	454.6	289.14
8,148.0	4.90	300.00	8,124.4	-5,015.4	156.0	-444.2	470.8	289.35
8,338.0	3.00	301.80	8,314.0	-5,205.0	162.6	-455.5	483.6	289.65
8,527.0	1.60	294.70	8,502.8	-5,393.8	166.3	-462.1	491.1	289.80
8,716.0	0.50	235.90	8,691.8	-5,582.8	167.0	-465.1	494.2	289.75



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8,774.3	0.22	204.84	8,750.1	-5,641.1	166.7	-465.4	494.4	289.71
B.B. Boston 7 WOLI Fee 2H								
8,780.0	0.20	197.60	8,755.8	-5,646.8	166.7	-465.4	494.4	289.71
8,848.0	2.40	79.10	8,823.8	-5,714.8	166.9	-464.0	493.1	289.78
8,880.0	6.00	84.20	8,855.7	-5,746.7	167.2	-461.7	491.1	289.90
8,911.0	9.90	80.20	8,888.4	-5,777.4	167.8	-457.5	487.3	290.14
8,943.0	13.10	76.70	8,917.7	-5,808.7	169.1	-451.2	481.9	290.54
8,974.0	16.80	76.50	8,947.7	-5,838.7	171.0	-443.5	475.3	291.08
9,006.0	20.60	80.10	8,978.0	-5,869.0	173.0	-433.4	466.7	291.76
9,037.0	23.50	81.50	9,006.7	-5,897.7	174.9	-421.9	456.7	292.51
9,069.0	27.70	82.90	9,035.6	-5,926.6	176.7	-408.2	444.8	293.41
9,101.0	31.80	83.20	9,063.3	-5,954.3	178.6	-392.5	431.2	294.47
9,132.0	35.70	82.60	9,089.1	-5,980.1	180.8	-375.4	416.6	295.71
9,164.0	39.70	79.70	9,114.4	-6,005.4	183.8	-356.1	400.7	297.30
9,195.0	43.30	76.80	9,137.6	-6,028.6	188.0	-336.0	385.0	299.23
9,227.0	46.60	76.40	9,160.3	-6,051.3	193.2	-314.0	368.7	301.61
9,258.0	49.90	76.60	9,180.9	-6,071.9	198.6	-291.5	352.7	304.27
9,290.0	52.70	77.00	9,200.9	-6,091.9	204.3	-267.2	336.4	307.41
9,321.0	54.90	77.00	9,219.2	-6,110.2	210.0	-242.8	321.0	310.85
9,353.0	57.50	77.40	9,237.0	-6,128.0	215.9	-216.9	306.0	314.86
9,384.0	61.50	77.60	9,252.8	-6,143.8	221.6	-190.8	292.4	319.28
9,416.0	65.10	77.10	9,267.1	-6,158.1	227.9	-162.9	280.1	324.44
9,447.0	67.90	76.40	9,279.5	-6,170.5	234.4	-135.2	270.6	330.02
9,479.0	70.20	75.90	9,290.9	-6,181.9	241.6	-106.2	263.9	336.26
9,511.0	73.30	76.00	9,301.0	-6,192.0	248.9	-76.7	260.5	342.87
9,542.0	75.50	76.30	9,309.3	-6,200.3	256.1	-47.8	260.5	349.44
9,575.0	78.90	77.10	9,316.6	-6,207.6	263.5	-16.4	264.0	356.43



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9,646.0	87.50	74.00	9,325.0	-6,216.0	281.1	51.7	285.8	10.43
9,734.0	89.00	80.10	9,327.7	-6,218.7	300.8	137.4	330.7	24.56
9,829.0	91.70	81.30	9,327.1	-6,218.1	316.1	231.2	391.6	36.18
9,923.0	91.40	80.50	9,324.6	-6,215.6	331.0	323.9	463.1	44.38
10,018.0	90.80	80.60	9,322.8	-6,213.8	346.6	417.6	542.7	50.31
10,089.5	89.58	79.16	9,322.5	-6,213.5	359.1	488.0	605.9	53.65
LP Boston 7 WOLI Fee 2H								
10,112.0	89.20	78.70	9,322.8	-6,213.8	363.5	510.1	626.3	54.53
10,207.0	89.50	80.90	9,323.8	-6,214.8	380.3	603.6	713.4	57.79
10,301.0	91.80	85.00	9,322.8	-6,213.8	391.8	696.8	799.4	60.65
10,398.0	90.60	83.60	9,320.8	-6,211.8	401.3	791.4	887.3	63.11
10,490.0	90.20	86.40	9,320.1	-6,211.1	409.4	885.0	975.1	65.17
10,585.0	91.10	90.00	9,319.0	-6,210.0	412.4	979.9	1,063.2	67.17
10,679.0	90.90	91.50	9,317.4	-6,208.4	411.2	1,073.9	1,149.9	69.05
10,774.0	90.30	91.70	9,316.4	-6,207.4	408.5	1,168.8	1,238.2	70.73
10,869.0	86.90	89.50	9,318.7	-6,209.7	407.6	1,263.8	1,327.9	72.13
10,963.0	88.40	89.80	9,322.6	-6,213.6	408.1	1,357.7	1,417.7	73.27
11,058.0	88.70	89.40	9,325.0	-6,216.0	408.8	1,452.7	1,509.1	74.28
11,152.0	89.10	89.70	9,326.8	-6,217.8	409.5	1,546.7	1,600.0	75.17
11,247.0	88.50	89.80	9,328.8	-6,219.8	409.9	1,641.6	1,692.0	75.98
11,342.0	87.00	89.90	9,332.5	-6,223.5	410.2	1,736.6	1,784.3	76.71
11,436.0	90.50	90.10	9,334.6	-6,225.6	410.2	1,830.5	1,875.9	77.37
11,530.0	90.00	89.50	9,334.1	-6,225.1	410.5	1,924.5	1,967.8	77.96
11,625.0	88.10	88.70	9,335.7	-6,226.7	412.0	2,019.5	2,061.1	78.47
11,719.0	87.20	87.70	9,339.6	-6,230.6	415.0	2,113.4	2,153.7	78.89
11,814.0	89.50	88.60	9,342.3	-6,233.3	418.0	2,208.3	2,247.5	79.28
11,909.0	88.60	89.30	9,343.9	-6,234.9	419.8	2,303.2	2,341.2	79.67



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12,003.0	92.60	91.50	9,342.9	-6,233.9	419.1	2,397.2	2,433.6	80.08
12,098.0	92.10	91.80	9,339.0	-6,230.0	416.4	2,492.1	2,526.6	80.51
12,192.0	91.30	91.90	9,336.2	-6,227.2	413.3	2,586.0	2,618.8	80.92
12,287.0	88.10	90.80	9,338.4	-6,229.4	411.1	2,680.9	2,712.2	81.28
12,381.0	86.20	91.20	9,344.7	-6,235.7	409.5	2,774.7	2,804.7	81.61
12,476.0	86.40	91.00	9,350.8	-6,241.8	407.7	2,869.5	2,898.3	81.91
12,570.0	87.80	89.40	9,355.6	-6,246.6	407.3	2,963.3	2,991.2	82.17
12,665.0	90.20	89.30	9,357.2	-6,248.2	408.4	3,058.3	3,085.5	82.39
12,760.0	88.40	88.00	9,358.4	-6,249.4	410.6	3,153.3	3,179.9	82.58
12,854.0	87.10	87.80	9,362.1	-6,253.1	414.1	3,247.1	3,273.4	82.73
12,949.0	90.20	89.40	9,364.3	-6,255.3	416.4	3,342.1	3,367.9	82.90
13,044.0	88.80	88.70	9,365.1	-6,256.1	418.0	3,437.0	3,462.4	83.07
13,138.0	90.60	88.70	9,365.6	-6,256.6	420.1	3,531.0	3,555.9	83.22
13,233.0	88.00	87.80	9,366.8	-6,257.8	423.0	3,626.0	3,650.5	83.35
13,327.0	89.80	87.30	9,368.6	-6,259.6	427.0	3,719.8	3,744.3	83.45
13,422.0	88.80	88.60	9,369.8	-6,260.8	430.4	3,814.8	3,839.0	83.56
13,516.0	92.40	91.50	9,368.8	-6,259.8	430.3	3,908.7	3,932.4	83.72
13,611.0	92.10	92.10	9,365.1	-6,256.1	427.4	4,003.6	4,026.4	83.91
13,706.0	89.30	90.80	9,363.9	-6,254.9	425.0	4,098.6	4,120.5	84.08
13,800.0	86.40	90.40	9,367.4	-6,258.4	424.0	4,192.5	4,213.9	84.23
13,895.0	89.80	90.30	9,370.6	-6,261.6	423.4	4,287.4	4,308.3	84.36
13,990.0	86.20	89.60	9,373.9	-6,264.9	423.5	4,382.3	4,402.8	84.48
14,022.0	85.50	89.50	9,376.2	-6,267.2	423.7	4,414.3	4,434.6	84.52
14,090.0	85.50	89.50	9,381.5	-6,272.5	424.3	4,482.1	4,502.1	84.59

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



Microsoft
MWD Surveys



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 Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,090.0	9,381.5	424.3	4,482.1	14090.0' Projected to Bit