



September 5, 2017

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
Devon 12 1 W2PI Fee Com #001H
Wolfcamp D Shale
Eddy County, New Mexico
API# 30-015-43880

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>
David Calabrese	Original Hole	477ft. to 12,873ft.	07-02-17 to 07-15-17	MWD Survey
David Calabrese	"Sidetrack" Hole	12,339ft. to 17,834ft	07-17-17 to 08-07-17	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.


Todd 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\Devon 12 1 W2PI Fee Com #1H\M171049

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



September 5, 2017

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 02, 2017, through July 15, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 477 feet to a depth of 12,873 feet; and that I did on the day(s) of July 17, 2017, through August 07, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 12,339 feet to a depth of 17,834 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Devon 12 1 W2PI Fee Com #001H well, API # **30-015-43880** 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.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

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P.O. Box 1250

Montgomery, TX 77356

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

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1

Site Position: Northing: 413,498.50 usft Latitude: 32° 8' 12.015 N
From: Easting: 560,956.90 usft Longitude: 104° 8' 11.048 W
Position Uncertainty: Map Slot Radius: 13-3/16 " Grid Convergence: 0.10 °

Well Devon 12-1 W2PI Fee Com 1H

Well Position +N/-S 0.0 usft Latitude: 32° 8' 12.015 N
Well Position +E/-W 0.0 usft Longitude: 104° 8' 11.048 W
Position Uncertainty 0.0 usft Wellhead Elevation: 3,087.0 usft Ground Level: 3,060.0 usft

Wellbore Original Hole

Magnetics **Model Name** IGRF2015 **Sample Date** 6/16/2017 **Declination** (°) 7.21 **Dip Angle** (°) 59.89 **Field Strength** (nT) 47,828.35275204

Design Original Hole

Audit Notes: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0
Version: **Depth From (TVD)** (usft) 0.0 **+N/-S** (usft) 0.0 **+E/-W** (usft) 0.0 **Direction** (°) 355.47
Vertical Section:



Microsoft MWD Surveys



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Survey Program **Date** 8/8/2017

From (usft)	To (usft)	Survey (Wellbore)	
		Inc	Azi (azimuth)
149.0	12,499.0	MWD Survey #1 (Original Hole)	
12,499.0	12,500.0	STK#1 (Original Hole)	
12,953.0	12,953.0	Fish 12953-12923 (Original Hole)	

Tool Name		Description
MWD+IGRF	OWSG MWD + IGRF or WMM	
MWD+IGRF	OWSG MWD + IGRF or WMM	
MWD	MWD v3:standard declination	

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
149.0	1.60	308.00	149.0	1.3	-1.6	2.1	308.00
200.0	2.30	288.00	200.0	2.0	-3.2	3.8	302.67
262.0	2.00	272.10	261.9	2.5	-5.4	6.0	294.34
324.0	1.70	281.10	323.9	2.7	-7.4	7.9	289.83
384.0	2.50	281.10	383.8	3.1	-9.6	10.1	287.93
477.0	2.30	276.10	476.8	3.7	-13.4	13.9	285.36
562.0	1.40	274.00	561.7	4.2	-19.4	19.8	282.35
723.0	1.40	286.10	722.6	4.5	-20.8	21.3	282.19
784.0	1.50	288.70	783.6	5.0	-22.3	22.8	282.54
845.0	1.40	289.40	844.6	5.5	-23.8	24.4	282.95
907.0	1.30	286.90	906.6	5.9	-25.1	25.8	283.25
967.0	1.10	285.30	966.6	6.3	-26.4	27.1	283.38
1,028.0	1.00	278.00	1,027.6	6.5	-27.4	28.2	283.32
1,094.0	0.70	293.90	1,093.6	6.7	-28.4	29.2	283.36
1,157.0	0.60	302.80	1,156.5	7.1	-29.0	29.9	283.71
1,221.0	0.60	294.50	1,220.5	7.4	-29.6	30.5	284.03
1,284.0	0.50	272.00	1,283.5	7.5	-30.2	31.1	284.04
1,347.0	0.50	288.90	1,346.5	7.6	-30.7	31.6	283.98
1,411.0	0.40	250.70	1,410.5	7.7	-31.2	32.1	283.80

Tie-In Rig Survey



Microsoft
MWD Surveys



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
1,475.0	0.30	281.30	1,474.5	7.6	-31.6	32.5	283.57
1,538.0	0.20	273.80	1,537.5	7.7	-31.8	32.7	283.53
1,601.0	0.30	55.40	1,600.5	7.8	-31.8	32.7	283.71
1,665.0	0.90	72.30	1,664.5	8.0	-31.2	32.2	284.40
1,728.0	2.00	74.20	1,727.5	8.5	-29.7	30.8	285.91
1,792.0	2.00	78.10	1,791.5	9.0	-27.5	28.9	288.11
1,855.0	2.20	68.30	1,854.4	9.7	-25.3	27.1	290.91
1,919.0	1.80	62.00	1,918.4	10.6	-23.3	25.6	294.48
1,982.0	1.10	54.60	1,981.4	11.4	-21.9	24.7	297.51
2,045.0	1.00	26.30	2,044.4	12.2	-21.2	24.5	300.06
2,175.0	1.50	58.70	2,174.3	14.2	-19.2	23.9	306.38
2,268.0	1.50	55.40	2,267.3	15.5	-17.2	23.1	312.04
2,355.0	1.40	34.80	2,354.3	17.0	-15.6	23.1	317.41
2,449.0	1.20	22.30	2,448.2	18.8	-14.6	23.8	322.25
2,542.0	1.20	34.20	2,541.2	20.6	-13.7	24.7	326.36
2,636.0	1.00	18.90	2,635.2	22.1	-12.9	25.6	329.86
2,729.0	0.90	34.60	2,728.2	23.5	-12.2	26.5	332.62
2,823.0	1.00	22.60	2,822.2	24.9	-11.4	27.4	335.30
2,916.0	0.90	7.90	2,915.2	26.3	-11.0	28.6	337.28
3,010.0	0.80	26.30	3,009.2	27.7	-10.6	29.6	338.97
3,101.0	0.70	353.00	3,100.2	28.8	-10.4	30.6	340.09
3,197.0	0.50	335.20	3,196.1	29.8	-10.7	31.6	340.27
3,290.0	0.70	326.80	3,289.1	30.6	-11.2	32.6	339.97
3,384.0	0.70	339.00	3,383.1	31.6	-11.7	33.7	339.73
3,477.0	0.80	335.50	3,476.1	32.7	-12.1	34.9	339.64
3,571.0	0.80	326.60	3,570.1	33.9	-12.8	36.2	339.33
3,664.0	0.70	321.80	3,663.1	34.9	-13.5	37.4	338.85



Microsoft
MWD Surveys



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,757.0	0.70	343.30	3,756.1	35.9	-14.0	38.5	338.67
3,851.0	0.70	327.00	3,850.1	36.9	-14.5	39.6	338.57
3,944.0	0.60	332.00	3,943.1	37.8	-15.0	40.7	338.33
4,037.0	0.50	307.70	4,036.1	38.5	-15.6	41.5	337.97
4,131.0	0.70	305.70	4,130.1	39.1	-16.4	42.3	337.27
4,224.0	0.40	312.80	4,223.1	39.6	-17.1	43.1	336.70
4,318.0	0.40	297.10	4,317.1	40.0	-17.6	43.7	336.25
4,411.0	0.40	279.70	4,410.1	40.2	-18.2	44.1	335.63
4,505.0	0.30	315.20	4,504.1	40.4	-18.7	44.5	335.17
4,598.0	0.10	22.00	4,597.1	40.7	-18.8	44.8	335.14
4,691.0	0.40	305.40	4,690.1	40.9	-19.1	45.2	335.02
4,785.0	0.30	333.90	4,784.1	41.3	-19.4	45.7	334.82
4,878.0	0.30	322.70	4,877.1	41.8	-19.7	46.2	334.75
4,972.0	0.50	279.60	4,971.1	42.0	-20.3	46.6	334.27
5,065.0	1.20	190.90	5,064.1	41.1	-20.8	46.1	333.14
5,159.0	1.70	190.80	5,158.0	38.8	-21.3	44.3	331.26
5,252.0	1.70	200.80	5,251.0	36.2	-22.0	42.3	328.65
5,346.0	1.60	210.40	5,344.9	33.7	-23.2	40.9	325.48
5,439.0	1.60	206.70	5,437.9	31.4	-24.4	39.8	322.15
5,533.0	1.50	221.60	5,531.9	29.3	-25.8	39.1	318.64
5,626.0	1.50	215.50	5,624.8	27.4	-27.4	38.7	315.10
5,719.0	1.60	219.80	5,717.8	25.5	-28.9	38.5	311.39
5,813.0	1.20	185.00	5,811.8	23.5	-29.8	37.9	308.21
5,906.0	0.90	151.30	5,904.8	21.9	-29.5	36.8	306.49
5,999.0	0.80	189.20	5,997.8	20.6	-29.3	35.8	305.08
6,093.0	1.90	219.20	6,091.7	18.7	-30.4	35.7	301.63
6,186.0	1.90	253.60	6,184.7	17.1	-32.8	37.0	297.49



Microsoft MWD Surveys



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6,279.0	1.90	262.00	6,277.6	16.4	-35.9	39.4	294.64
6,373.0	1.30	251.50	6,371.6	15.9	-38.4	41.6	292.47
6,467.0	0.40	99.50	6,465.6	15.5	-39.1	42.1	291.62
6,560.0	0.80	267.40	6,558.6	15.4	-39.4	42.3	291.35
6,654.0	1.10	202.00	6,652.6	14.5	-40.4	43.0	289.79
6,747.0	0.60	134.60	6,745.6	13.4	-40.4	42.6	288.32
6,841.0	0.70	134.50	6,839.6	12.6	-39.6	41.6	287.67
6,934.0	1.30	260.50	6,932.6	12.1	-40.3	42.0	286.66
7,028.0	0.60	194.80	7,026.5	11.4	-41.5	43.0	285.38
7,121.0	0.70	184.60	7,119.5	10.4	-41.6	42.9	283.98
7,215.0	1.00	213.00	7,213.5	9.1	-42.1	43.1	282.20
7,308.0	1.80	226.60	7,306.5	7.4	-43.6	44.2	279.66
7,402.0	1.10	176.60	7,400.5	5.5	-44.6	45.0	277.03
7,495.0	1.10	292.70	7,493.5	5.0	-45.4	45.7	276.23
7,589.0	1.40	299.90	7,587.4	5.9	-47.2	47.6	277.10
7,682.0	0.40	196.70	7,680.4	6.1	-48.3	48.7	277.24
7,776.0	1.20	214.80	7,774.4	5.0	-49.0	49.2	275.84
7,869.0	1.00	218.50	7,867.4	3.6	-50.0	50.2	274.09
7,963.0	1.60	209.80	7,961.4	1.8	-51.2	51.2	272.01
8,056.0	0.70	156.10	8,054.4	0.2	-51.6	51.6	270.17
8,150.0	1.50	165.20	8,148.3	-1.6	-51.1	51.1	268.25
8,243.0	1.10	121.40	8,241.3	-3.2	-50.0	50.1	266.33
8,336.0	1.20	123.20	8,334.3	-4.2	-48.4	48.6	265.04
8,430.0	2.00	99.00	8,428.3	-5.0	-46.0	46.2	263.79
8,523.0	1.00	94.70	8,521.2	-5.3	-43.6	43.9	263.04
8,617.0	0.90	95.10	8,615.2	-5.5	-42.0	42.4	262.61
8,710.0	1.00	114.40	8,708.2	-5.9	-40.5	41.0	261.79



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8,803.0	1.10	148.30	8,801.2	-6.9	-39.3	39.9	259.98
8,896.0	1.30	152.30	8,894.2	-8.6	-38.4	39.3	257.31
8,990.0	0.90	162.80	8,988.2	-10.3	-37.7	39.0	254.72
9,083.0	1.00	173.10	9,081.1	-11.8	-37.3	39.2	252.48
9,176.0	0.90	167.80	9,174.1	-13.3	-37.1	39.4	250.26
9,269.0	1.20	184.70	9,267.1	-15.0	-37.0	39.9	247.95
9,363.0	1.30	184.40	9,361.1	-17.0	-37.2	40.9	245.38
9,456.0	1.50	187.80	9,454.1	-19.3	-37.4	42.1	242.72
9,502.4	1.49	195.16	9,500.5	-20.5	-37.7	42.9	241.46
BB Devon 12-1 W2PI Fee Corn 1H							
9,550.0	1.50	202.70	9,548.0	-21.7	-38.1	43.8	240.37
9,643.0	1.00	205.40	9,641.0	-23.5	-38.9	45.4	238.85
9,704.0	1.00	343.30	9,702.0	-23.5	-39.3	45.8	239.12
9,735.0	6.00	5.10	9,732.9	-21.6	-39.2	44.8	241.14
9,766.0	11.60	5.30	9,763.6	-16.9	-38.8	42.3	246.47
9,797.0	15.00	6.00	9,793.7	-9.8	-38.1	39.3	255.58
9,828.0	17.50	6.00	9,823.5	-1.2	-37.2	37.2	268.21
9,860.0	19.20	6.70	9,853.9	8.8	-36.0	37.1	283.79
9,891.0	19.70	6.80	9,883.1	19.1	-34.8	39.7	298.74
9,922.0	21.00	5.40	9,912.2	29.8	-33.7	45.0	311.52
9,953.0	25.20	3.80	9,940.7	41.9	-32.7	53.2	322.04
9,984.0	29.80	2.10	9,968.2	56.2	-32.0	64.7	330.35
10,015.0	34.10	0.90	9,994.4	72.6	-31.6	79.2	336.49
10,046.0	37.90	0.00	10,019.5	90.8	-31.4	96.1	340.90
10,077.0	39.40	1.70	10,043.7	110.2	-31.2	114.5	344.21
10,109.0	39.40	3.30	10,068.5	130.5	-30.3	134.0	346.94
10,140.0	43.10	3.00	10,091.8	150.9	-29.2	153.7	349.07



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10,171.0	48.00	0.80	10,113.5	173.0	-28.4	175.3	350.67
10,202.0	53.80	359.00	10,133.0	197.0	-28.5	199.1	351.77
10,232.0	59.40	359.40	10,149.5	222.1	-28.8	223.9	352.60
10,263.0	63.40	0.00	10,164.4	249.3	-29.0	251.0	353.37
10,294.0	66.90	0.80	10,177.4	277.4	-28.8	278.9	354.08
10,326.0	70.10	1.10	10,189.1	307.2	-28.3	308.5	354.74
10,358.0	72.30	0.90	10,199.4	337.5	-27.8	338.6	355.30
10,369.0	73.40	1.40	10,202.7	348.0	-27.5	349.1	355.47
10,442.0	77.70	3.10	10,220.9	418.6	-24.8	419.3	356.61
10,474.0	81.70	3.80	10,226.6	450.0	-22.9	450.6	357.09
10,505.0	83.50	3.80	10,230.6	480.7	-20.8	481.1	357.52
10,536.0	83.00	3.50	10,234.2	511.4	-18.9	511.8	357.89
10,567.0	82.80	3.60	10,238.1	542.1	-17.0	542.4	358.21
10,598.0	84.80	3.30	10,241.4	572.9	-15.1	573.1	358.49
10,607.2	85.87	3.24	10,242.2	582.0	-14.6	582.2	358.56
LP Devon 12-1 W2PI Fee Com 1H							
10,629.0	88.40	3.10	10,243.3	603.8	-13.4	603.9	358.73
10,661.0	90.80	2.50	10,243.5	635.7	-11.8	635.8	358.93
10,723.0	90.60	3.00	10,242.7	697.6	-8.8	697.7	359.27
10,816.0	90.50	5.40	10,241.8	790.4	-2.0	790.4	359.85
10,910.0	87.30	1.80	10,243.6	884.2	3.9	884.2	0.25
11,003.0	90.50	3.10	10,245.4	977.0	7.8	977.1	0.46
11,097.0	87.30	359.50	10,247.2	1,071.0	10.0	1,071.0	0.53
11,190.0	90.10	1.90	10,249.3	1,163.9	11.1	1,164.0	0.55
11,284.0	89.50	358.80	10,249.7	1,257.9	11.7	1,258.0	0.53
11,377.0	90.20	358.60	10,249.9	1,350.9	9.6	1,350.9	0.41
11,471.0	90.10	358.90	10,249.7	1,444.9	7.5	1,444.9	0.30



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,564.0	93.90	0.70	10,246.4	1,537.8	7.2	1,537.8	0.27
11,658.0	87.60	358.50	10,245.2	1,631.7	6.5	1,631.7	0.23
11,751.0	91.30	1.70	10,246.1	1,724.7	6.7	1,724.7	0.22
11,844.0	92.90	3.40	10,242.7	1,817.5	10.8	1,817.6	0.34
11,938.0	87.70	1.80	10,242.2	1,911.4	15.1	1,911.5	0.45
12,031.0	86.90	0.00	10,246.6	2,004.3	16.6	2,004.3	0.47
12,125.0	90.40	357.30	10,248.8	2,098.2	14.3	2,098.2	0.39
12,218.0	87.70	355.30	10,250.3	2,191.0	8.3	2,191.0	0.22
12,303.0	90.86	355.84	10,251.4	2,275.7	1.8	2,275.7	0.04
Interp @ 10251.4 (Devon 12-1 W2PI Fee Com 1H Origi							
12,312.0	91.20	355.90	10,251.2	2,284.7	1.1	2,284.7	0.03
12,405.0	90.60	354.20	10,249.8	2,377.3	-6.9	2,377.3	359.83
12,499.0	91.50	352.40	10,248.0	2,470.7	-17.9	2,470.7	359.59
12,555.0	90.78	352.34	10,246.9	2,526.2	-25.3	2,526.3	359.43
12,592.0	90.30	352.30	10,246.6	2,562.8	-30.2	2,563.0	359.32
12,686.0	90.80	353.50	10,245.7	2,656.1	-41.8	2,656.4	359.10
12,779.0	89.30	352.30	10,245.6	2,748.4	-53.3	2,748.9	358.89
12,873.0	89.70	353.20	10,246.4	2,841.6	-65.2	2,842.4	358.69
12,953.0	89.70	353.20	10,246.8	2,921.1	-74.7	2,922.0	358.54
12953' MD Projected to Bit - PBHL Devon 12-1 W2PI Fee Com 1H							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
12,953.0	10,246.8	2,921.1	-74.7	12953' MD Projected to Bit



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)			
Geo Datum:	NAD 1927 (NADCON CONUS)			
Map Zone:	New Mexico East 3001			

Site Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1

Site Position: Northing: 413,498.50 usft Latitude: 32° 8' 12.015 N
From: Easting: 560,956.90 usft Longitude: 104° 8' 11.048 W
Position Uncertainty: Map Slot Radius: 13-3/16 " Grid Convergence: 0.10 °

Well Devon 12-1 W2PI Fee Com 1H

Well Position +N/-S 0.0 usft Northing: 413,498.50 usft Latitude: 32° 8' 12.015 N
+E/-W 0.0 usft Easting: 560,956.90 usft Longitude: 104° 8' 11.048 W
Position Uncertainty 0.0 usft Wellhead Elevation: 3,087.0 usft Ground Level: 3,060.0 usft

Well bore Original Hole

Magnetics **Model Name** IGRF2015 **Sample Date** 6/16/2017 **Declination** (°) 7.21 **Dip Angle** (°) 59.89 **Field Strength** (nT) 47,828.35275204

Design Original Hole

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section: **Depth From (TVD)** (usft) 0.0 **+N/-S** (usft) 0.0 **+E/-W** (usft) 0.0 **Direction** (°) 355.47



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 8/8/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
149.0	12,953.0	MWD Survey #1 (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM
12,339.0	17,880.0	STK#1 (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,312.0	91.20	355.90	10,251.2	2,284.7	1.1	2,284.7	0.03
Interp @ 10251.4 (Devon 12-1 W2PI Fee Com 1H Orig - BB Devon 12-1 W2PI Fee Com 1H - LP Devon 12-1 W2PI Fee Com 1H							
12,339.0	89.00	356.50	10,251.2	2,311.6	-0.7	2,311.6	359.98
12,370.0	89.90	359.70	10,251.5	2,342.6	-1.7	2,342.6	359.96
12,401.0	90.60	0.00	10,251.3	2,373.6	-1.8	2,373.6	359.96
12,432.0	90.00	359.00	10,251.2	2,404.6	-2.0	2,404.6	359.95
12,495.0	88.50	357.40	10,252.0	2,467.6	-4.0	2,467.6	359.91
12,526.0	90.70	358.90	10,252.2	2,498.5	-5.0	2,498.5	359.89
12,554.0	89.34	358.67	10,252.2	2,526.5	-5.6	2,526.5	359.87
Interp @ 10246.9 (Devon 12-1 W2PI Fee Com 1H Orig							
12,588.0	87.70	358.40	10,253.1	2,560.5	-6.5	2,560.5	359.86
12,681.0	92.30	2.10	10,253.1	2,653.5	-6.1	2,653.5	359.87
12,775.0	88.20	0.10	10,252.7	2,747.4	-4.3	2,747.4	359.91
12,869.0	90.10	1.80	10,254.1	2,841.4	-2.7	2,841.4	359.95
12,961.0	92.70	3.60	10,251.8	2,933.2	1.6	2,933.2	0.03
13,054.0	93.80	5.10	10,246.5	3,025.8	8.7	3,025.8	0.16
13,148.0	92.00	3.20	10,241.8	3,119.5	15.5	3,119.5	0.28
13,247.0	87.90	359.30	10,241.9	3,218.4	17.6	3,218.4	0.31
13,341.0	88.00	359.80	10,245.2	3,312.3	16.9	3,312.4	0.29
13,433.0	87.80	358.40	10,248.6	3,404.3	15.4	3,404.3	0.26
13,527.0	89.90	359.50	10,250.5	3,498.2	13.7	3,498.2	0.22
13,620.0	90.00	356.60	10,250.6	3,591.1	10.6	3,591.2	0.17



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,714.0	89.60	354.50	10,250.9	3,684.9	3.3	3,684.9	0.05
13,807.0	88.60	357.40	10,252.4	3,777.6	-3.3	3,777.6	359.95
13,901.0	89.40	358.10	10,254.0	3,871.5	-7.0	3,871.5	359.90
13,994.0	90.20	357.80	10,254.3	3,964.5	-10.3	3,964.5	359.85
14,087.0	89.80	0.50	10,254.3	4,057.4	-11.7	4,057.4	359.83
14,180.0	90.30	1.30	10,254.2	4,150.4	-10.2	4,150.4	359.86
14,274.0	88.60	0.10	10,255.1	4,244.4	-9.1	4,244.4	359.88
14,367.0	90.60	1.30	10,255.8	4,337.4	-8.0	4,337.4	359.89
14,461.0	89.60	358.70	10,255.6	4,431.4	-8.0	4,431.4	359.90
14,554.0	87.60	1.70	10,257.9	4,524.3	-7.6	4,524.3	359.90
14,648.0	87.90	2.70	10,261.6	4,618.2	-4.0	4,618.2	359.95
14,741.0	92.90	5.80	10,260.9	4,710.9	2.9	4,710.9	0.03
14,835.0	89.50	4.70	10,259.0	4,804.5	11.5	4,804.5	0.14
14,929.0	88.20	3.30	10,260.9	4,898.2	18.0	4,898.2	0.21
15,022.0	87.90	1.30	10,264.0	4,991.1	21.7	4,991.1	0.25
15,116.0	86.00	359.80	10,269.0	5,084.9	22.6	5,085.0	0.26
15,209.0	87.70	358.70	10,274.1	5,177.8	21.4	5,177.8	0.24
15,305.0	88.30	358.60	10,277.5	5,273.7	19.2	5,273.7	0.21
15,398.0	90.80	359.50	10,278.2	5,366.7	17.6	5,366.7	0.19
15,492.0	88.90	357.30	10,278.5	5,460.6	15.0	5,460.6	0.16
15,585.0	89.70	357.20	10,279.6	5,553.5	10.5	5,553.5	0.11
15,679.0	87.60	357.90	10,281.8	5,647.4	6.5	5,647.4	0.07
15,772.0	88.50	357.40	10,285.0	5,740.3	2.7	5,740.3	0.03
15,866.0	87.90	358.20	10,287.9	5,834.1	-0.9	5,834.1	359.99
15,959.0	88.70	357.40	10,290.7	5,927.0	-4.5	5,927.0	359.96
16,053.0	90.70	359.60	10,291.2	6,021.0	-6.9	6,021.0	359.93
16,146.0	86.90	357.70	10,293.1	6,113.9	-9.1	6,113.9	359.91



Microsoft
MWD Surveys



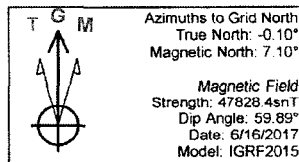
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 13-12-1-25S-27E Devon 12-1 W2PI Fee
Well: Devon 12-1 W2PI Fee Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Devon 12-1 W2PI Fee Com 1H
TVD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
MD Reference: 3060 + 27 @ 3087.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,240.0	88.40	356.80	10,297.0	6,207.7	-13.6	6,207.7	359.87
16,333.0	89.80	358.50	10,298.4	6,300.6	-17.4	6,300.7	359.84
16,426.0	89.70	358.70	10,298.9	6,393.6	-19.7	6,393.6	359.82
16,520.0	90.10	357.90	10,299.0	6,487.6	-22.5	6,487.6	359.80
16,613.0	90.10	357.30	10,298.9	6,580.5	-26.4	6,580.5	359.77
16,707.0	90.70	357.10	10,298.2	6,674.4	-31.0	6,674.4	359.73
16,802.0	88.00	356.60	10,299.3	6,769.2	-36.2	6,769.3	359.69
16,897.0	89.40	356.60	10,301.4	6,864.0	-41.8	6,864.1	359.65
16,992.0	90.90	355.90	10,301.2	6,958.8	-48.0	6,959.0	359.60
17,088.0	91.60	357.30	10,299.1	7,054.6	-53.7	7,054.8	359.56
17,183.0	91.40	356.80	10,298.6	7,149.5	-58.6	7,149.7	359.53
17,278.0	89.50	350.80	10,295.9	7,243.8	-68.9	7,244.2	359.46
17,373.0	89.10	348.60	10,297.0	7,337.3	-85.9	7,337.8	359.33
17,468.0	88.70	342.40	10,298.8	7,429.2	-109.6	7,430.0	359.15
17,563.0	89.20	341.90	10,300.6	7,519.6	-138.7	7,520.9	358.94
17,658.0	88.20	341.30	10,302.7	7,609.7	-168.7	7,611.6	358.73
17,753.0	89.90	341.20	10,304.3	7,699.7	-199.3	7,702.3	358.52
17,820.6	91.15	343.20	10,303.7	7,764.1	-219.9	7,767.2	358.38
PSHL Devon 12-1 W2PI Fee Com 1H							
17,834.0	91.40	343.60	10,303.4	7,776.9	-223.7	7,780.1	358.35
17,880.0	91.40	343.60	10,302.3	7,821.0	-236.7	7,824.6	358.27
17 880.0' MD Projected to Bit							

GEODETIC ZONE: New Mexico East 3001 3060 + 27 @ 3087.0usft (Patterson 250) GROUND ELEVATION: 3060.0										
			+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
			0.0	0.0	413498.50	560956.90	32° 8' 12.015 N	104° 8' 11.048 W		
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet	Target
1	12218.0	87.70	355.30	10250.3	2191.0	8.3	0.00	0.00	2190.9	Interp @ 10251.4 (Devon 12-1 W2PI Fee Com 1H Ongi
2	12299.7	90.75	355.82	10251.4	2272.4	2.0	3.78	9.73	2272.4	
3	12303.0	90.75	355.82	10251.4	2275.7	1.8	0.00	0.00	2275.7	
4	12343.3	89.00	356.83	10251.5	2316.0	-0.8	5.00	150.00	2315.9	
5	12449.5	88.72	0.00	10253.6	2422.1	-3.7	3.00	95.00	2422.1	
6	12559.3	89.50	0.78	10255.3	2531.8	-3.0	1.00	45.00	2531.8	
7	12677.3	89.32	359.61	10256.5	2649.8	-2.6	1.00	-98.84	2649.8	
8	12850.1	89.32	359.61	10318.0	7822.1	-37.4	0.00	0.00	7822.2	



SHL 200 FNL; 450' FEL
Section 13-25S-27'E PBHL
2310' FSL, 450' FEL
Section 1-25S-27'E

