



August 10, 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
Hoss 2 11 W2BO Federal Com #001H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44153**

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>
Jimmy Walker	Original Hole	489ft. to 20,424ft.	06-14-17 to 07-22-17	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\Hoss 2 11 W2BO Fed Com #1H\M171045

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

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



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 16 2017

RECEIVED

August 10, 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 June 14, 2017, through July 22, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 489 feet to a depth of 20,424 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 Hoss 2 11 W2BO Federal Com #001H well, API # **30-015-44153** 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

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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 2-11-25S-28E Hoss 2-11 W2BO Fed Cor
Well: Hoss 2-11 W2BO Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 W2BO Fed Com 1H
TVD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
MD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
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 2-11-25S-28E Hoss 2-11 W2BO Fed Com 1H

Site Position: Northing: 424,177.60 usft Latitude: 32° 9' 57.145 N
From: Easting: 586,320.20 usft Longitude: 104° 3' 15.744 W
Position Uncertainty: Map 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.15 °

Well Hoss 2-11 W2BO Fed Com 1H

Well Position +N/-S 0.0 usft Latitude: 32° 9' 57.145 N
Well Position +E/-W 0.0 usft Longitude: 104° 3' 15.744 W
Position Uncertainty 0.0 usft Wellhead Elevation: 2,984.0 usft Ground Level: 2,957.0 usft

Wellbore Original Hole

Magnetics **Model Name** IGRF2015 **Sample Date** 6/6/2017 **Declination** (°) 7.18 **Dip Angle** (°) 59.93 **Field Strength** (nT) 47,858.26055215

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** (°) 215.86



Microsoft
MWD Surveys



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Survey Program Date 7/24/2017

From (usft)	To (usft)	Survey (Wellbore)
137.0	436.0	Rig Survey (Original Hole)
489.0	20,624.0	MWD Survey (Original Hole)

Tool Name Description

MWD	MWD v3-standard declination
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 (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
137.0	1.90	204.00	137.0	-2.1	-0.9	2.3	204.00
199.0	3.00	214.00	198.9	-4.4	-2.2	4.9	207.29
436.0	6.90	219.00	435.0	-20.6	-14.7	25.3	215.52 Tie-In
436' MD Rig Survey							
489.0	5.70	215.40	487.7	-25.2	-18.2	31.1	215.86
551.0	4.30	212.70	549.4	-29.7	-21.2	36.5	215.62
611.0	2.80	209.70	609.3	-32.8	-23.2	40.2	215.24
673.0	1.20	199.30	671.3	-34.8	-24.2	42.3	214.80
735.0	0.30	123.80	733.3	-35.5	-24.2	42.9	214.36
766.0	0.20	356.90	764.3	-35.4	-24.2	42.9	214.29
833.0	0.40	14.50	831.3	-35.1	-24.1	42.6	214.49
896.0	0.40	47.50	894.3	-34.7	-23.9	42.2	214.53
960.0	0.40	95.30	958.3	-34.6	-23.5	41.8	214.19
1,024.0	0.60	45.10	1,022.3	-34.4	-23.1	41.4	213.83
1,087.0	0.40	34.70	1,085.3	-34.0	-22.7	40.9	213.74
1,151.0	0.60	26.50	1,149.3	-33.5	-22.4	40.3	213.79
1,214.0	0.60	25.00	1,212.3	-32.9	-22.1	39.7	213.93
1,277.0	0.80	30.40	1,275.3	-32.2	-21.8	38.9	214.04
1,341.0	0.70	28.70	1,339.2	-31.5	-21.4	38.1	214.14
1,404.0	0.70	355.30	1,402.2	-30.8	-21.2	37.4	214.57

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Design: Original Hole

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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 (°)
1,468.0	0.60	345.70	1,466.2	-30.1	-21.3	36.9	215.34
1,531.0	0.70	3.50	1,529.2	-29.4	-21.4	36.3	216.06
1,595.0	0.60	335.30	1,593.2	-28.7	-21.5	35.8	216.86
1,658.0	0.50	357.30	1,656.2	-28.1	-21.6	35.5	217.62
1,722.0	0.30	346.40	1,720.2	-27.6	-21.7	35.1	218.12
1,817.0	0.30	200.00	1,815.2	-27.6	-21.8	35.2	218.31
1,914.0	0.60	136.80	1,912.2	-28.2	-21.6	35.5	217.38
2,009.0	1.20	101.90	2,007.2	-28.8	-20.3	35.2	215.12
2,105.0	1.80	90.90	2,103.2	-29.0	-17.8	34.1	211.46
2,201.0	0.70	97.70	2,199.2	-29.1	-15.7	33.1	208.28
2,295.0	1.40	92.40	2,293.1	-29.3	-14.0	32.4	205.51
2,390.0	1.70	79.60	2,388.1	-29.1	-11.4	31.2	201.45
2,486.0	1.70	66.20	2,484.1	-28.2	-8.7	29.6	197.16
2,514.0	2.00	65.70	2,512.0	-27.9	-7.9	29.0	195.82
2,574.0	1.90	68.60	2,572.0	-27.1	-6.0	27.7	192.52
2,670.0	1.30	60.30	2,668.0	-26.0	-3.6	26.2	187.87
2,765.0	1.50	46.80	2,762.9	-24.6	-1.7	24.6	184.06
2,850.0	1.80	344.60	2,857.9	-22.3	-1.2	22.3	183.17
2,956.0	1.80	344.40	2,953.9	-19.4	-2.0	19.5	186.01
3,052.0	1.80	345.70	3,049.8	-16.5	-2.8	16.7	189.71
3,147.0	1.60	341.10	3,144.8	-13.8	-3.6	14.2	194.72
3,242.0	1.50	339.80	3,239.7	-11.3	-4.5	12.2	201.53
3,338.0	1.30	338.10	3,335.7	-9.1	-5.3	10.6	210.15
3,432.0	1.00	328.50	3,429.7	-7.5	-6.1	9.7	219.46
3,528.0	1.10	284.20	3,525.7	-6.5	-7.5	9.9	228.90
3,624.0	1.10	281.40	3,621.7	-6.1	-9.3	11.1	236.61
3,718.0	1.10	282.10	3,715.6	-5.7	-11.0	12.4	242.51

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
3,814.0	1.10	277.00	3,811.6	-5.4	-12.8	14.0	247.07
3,909.0	0.80	105.80	3,906.6	-5.5	-13.1	14.2	247.23
4,004.0	0.80	132.20	4,001.6	-6.1	-12.0	13.5	242.91
4,100.0	0.70	167.60	4,097.6	-7.2	-11.4	13.4	237.81
4,195.0	1.00	164.60	4,192.6	-8.5	-11.0	13.9	232.29
4,290.0	0.80	134.60	4,287.6	-9.8	-10.3	14.2	226.54
4,385.0	0.70	126.90	4,382.6	-10.6	-9.4	14.2	221.54
4,480.0	1.00	119.40	4,477.6	-11.4	-8.2	14.0	215.85
4,575.0	1.90	325.40	4,572.5	-10.5	-8.4	13.4	218.67
4,670.0	2.00	324.20	4,667.5	-7.8	-10.2	12.9	232.62
4,765.0	1.80	323.20	4,762.4	-5.3	-12.1	13.2	246.41
4,860.0	0.90	314.70	4,857.4	-3.6	-13.5	14.0	255.23
4,955.0	0.50	294.00	4,952.4	-2.9	-14.4	14.7	258.75
5,050.0	2.20	323.80	5,047.4	-1.2	-15.9	15.9	265.56
5,145.0	1.80	331.90	5,142.3	1.6	-17.7	17.7	275.03
5,240.0	1.30	330.90	5,237.3	3.8	-18.9	19.3	281.40
5,336.0	2.50	325.70	5,333.2	6.5	-20.6	21.6	287.49
5,431.0	2.40	323.10	5,428.1	9.8	-23.0	25.0	293.10
5,525.0	2.80	343.00	5,522.0	13.6	-24.8	28.3	298.66
5,621.0	2.20	338.00	5,618.0	17.5	-26.2	31.5	303.77
5,717.0	1.70	342.40	5,713.9	20.6	-27.3	34.2	306.99
5,812.0	2.60	332.40	5,808.8	23.8	-28.7	37.3	309.66
5,907.0	2.10	333.20	5,903.8	27.3	-30.5	41.0	311.80
6,002.0	3.00	343.70	5,998.7	31.2	-32.0	44.7	314.30
6,097.0	2.40	347.60	6,093.6	35.6	-33.1	48.6	317.03
6,193.0	1.80	339.00	6,189.5	38.9	-34.1	51.8	318.78
6,288.0	1.80	323.30	6,284.4	41.5	-35.5	54.7	319.45

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Well Hoss 2-11 W2BO Fed Cor 1H
2957 + 27 @ 2984.0usft (Patterson 245)
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
6,384.0	2.00	306.80	6,380.4	43.7	-37.8	57.8	319.18
6,479.0	2.30	307.40	6,475.3	45.9	-40.6	61.3	318.49
6,575.0	3.60	314.40	6,571.2	49.2	-44.3	66.2	317.98
6,671.0	3.30	325.60	6,667.0	53.6	-48.0	71.9	318.12
6,767.0	3.50	316.40	6,762.9	58.0	-51.6	77.6	318.32
6,861.0	2.00	318.10	6,856.7	61.3	-54.7	82.1	318.25
6,957.0	2.30	248.20	6,952.7	61.8	-57.6	84.5	317.02
7,052.0	3.00	302.60	7,047.6	62.4	-61.4	87.6	315.45
7,147.0	2.10	321.70	7,142.5	65.1	-64.6	91.7	315.22
7,243.0	2.00	319.90	7,238.4	67.8	-66.8	95.2	315.43
7,338.0	4.30	341.50	7,333.3	72.4	-69.0	100.0	316.40
7,433.0	3.60	348.30	7,428.1	78.7	-70.7	105.8	318.07
7,528.0	2.90	335.00	7,522.9	83.8	-72.3	110.7	319.21
7,624.0	2.50	317.00	7,618.8	87.6	-74.8	115.2	319.50
7,719.0	2.60	4.20	7,713.7	91.2	-76.1	118.8	320.18
7,815.0	1.10	347.10	7,809.7	94.3	-76.1	121.2	321.10
7,910.0	2.70	355.30	7,904.6	97.4	-76.5	123.9	321.86
8,005.0	2.20	332.60	7,999.5	101.3	-77.5	127.5	322.57
8,101.0	3.10	324.30	8,095.4	105.0	-79.9	131.9	322.74
8,196.0	3.90	350.00	8,190.3	110.3	-81.9	137.4	323.39
8,292.0	2.60	344.50	8,286.1	115.6	-83.1	142.4	324.29
8,387.0	1.90	27.70	8,381.0	119.1	-82.9	145.1	325.14
8,483.0	1.80	47.90	8,477.0	121.5	-81.1	146.0	326.29
8,579.0	1.40	313.10	8,573.0	123.3	-80.8	147.4	326.76
8,673.0	1.80	334.00	8,666.9	125.4	-82.3	150.0	326.73
8,769.0	1.40	304.10	8,762.9	127.4	-83.9	152.6	326.63
8,863.0	1.80	341.90	8,856.9	129.5	-85.3	155.1	326.61

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8,969.0	1.40	2.60	8,952.8	132.1	-85.7	157.5	327.01
9,054.0	2.10	340.90	9,047.8	134.9	-86.3	160.1	327.40
9,149.0	1.50	309.80	9,142.7	137.3	-87.8	163.0	327.41
9,244.0	2.50	347.60	9,237.7	140.1	-89.2	166.1	327.53
9,340.0	2.10	350.70	9,333.6	143.9	-89.9	169.7	328.00
9,435.0	1.50	344.30	9,428.6	146.8	-90.5	172.5	328.34
9,530.0	1.10	349.80	9,523.5	148.9	-91.0	174.5	328.56
9,626.0	1.60	4.10	9,619.5	151.2	-91.1	176.5	328.92
9,721.0	2.60	10.00	9,714.4	154.6	-90.6	179.2	329.62
9,816.0	2.70	18.60	9,809.3	158.9	-89.5	182.4	330.59
9,911.0	2.60	23.90	9,904.2	162.9	-88.0	185.2	331.64
10,006.0	2.20	19.80	9,999.2	166.6	-86.5	187.7	332.57
10,007.1	2.19	19.74	10,000.2	166.7	-86.5	187.8	332.58
BB							
10,101.0	1.60	12.00	10,094.1	169.6	-85.6	190.0	333.23
10,163.0	0.40	36.20	10,156.1	170.7	-85.3	190.8	333.45
10,195.0	2.60	166.10	10,188.1	170.1	-85.0	190.1	333.43
10,226.0	5.50	175.40	10,219.0	167.9	-84.7	188.1	333.22
10,258.0	8.50	177.30	10,250.8	164.0	-84.5	184.5	332.74
10,290.0	11.80	180.20	10,282.3	158.4	-84.4	179.5	331.94
10,321.0	14.60	180.90	10,312.4	151.3	-84.5	173.3	330.82
10,353.0	17.10	182.60	10,343.2	142.6	-84.8	165.8	329.27
10,385.0	20.10	183.40	10,373.5	132.4	-85.3	157.5	327.20
10,417.0	23.70	181.90	10,403.2	120.4	-85.8	147.9	324.52
10,449.0	27.00	181.40	10,432.1	106.7	-86.2	137.2	321.07
10,481.0	29.90	181.20	10,460.3	91.5	-86.6	126.0	316.59
10,512.0	32.50	183.10	10,486.8	75.5	-87.2	115.3	310.88

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10,544.0	34.30	184.70	10,513.5	57.9	-88.4	105.7	303.22
10,576.0	37.00	183.40	10,539.5	39.3	-89.7	97.9	293.65
10,608.0	39.20	181.60	10,564.7	19.6	-90.5	92.6	282.19
10,640.0	42.20	178.90	10,588.9	-1.3	-90.6	90.6	269.18
10,672.0	45.90	176.50	10,611.9	-23.5	-89.7	92.7	255.31
10,703.0	49.50	174.90	10,632.8	-46.4	-88.0	99.5	242.21
10,735.0	53.10	176.90	10,652.8	-71.3	-86.2	111.9	230.42
10,780.0	56.70	178.90	10,678.7	-108.1	-84.9	137.4	218.15
10,812.0	59.40	180.00	10,695.6	-135.2	-84.6	159.5	212.04
10,844.0	64.30	180.40	10,710.7	-163.4	-84.7	184.1	207.40
10,875.0	70.70	180.40	10,722.6	-192.0	-84.9	210.0	203.86
10,907.0	75.20	182.90	10,731.9	-222.6	-85.8	238.6	201.08
10,939.0	76.90	183.70	10,739.7	-253.6	-87.6	268.3	199.06
10,971.0	82.40	182.50	10,745.4	-285.0	-89.3	298.7	197.40
11,002.0	87.10	182.20	10,748.2	-315.9	-90.6	328.6	196.00
11,034.0	86.60	180.90	10,750.0	-347.8	-91.4	359.6	194.73
11,130.0	90.40	180.80	10,752.5	-443.8	-92.9	453.4	191.82
11,225.0	90.00	178.70	10,752.2	-538.7	-92.4	546.6	189.74
11,265.7	90.04	180.14	10,752.2	-579.4	-92.0	586.7	189.02
LP Hoss 2-11 W2BO Fed Com 1H							
11,321.0	90.10	182.10	10,752.1	-634.7	-93.1	641.5	188.35
11,417.0	89.80	185.40	10,752.2	-730.5	-99.4	737.2	187.75
11,512.0	90.20	186.90	10,752.2	-825.0	-109.6	832.2	187.57
11,607.0	92.30	180.70	10,750.1	-919.7	-115.9	926.9	187.18
11,701.0	89.00	175.10	10,749.0	-1,013.6	-112.4	1,019.8	186.33
11,797.0	89.10	173.80	10,750.6	-1,109.1	-103.1	1,113.9	185.31
11,892.0	90.50	176.00	10,751.0	-1,203.7	-94.7	1,207.4	184.50

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11-25S-28E Hoss 2-11 W2BO Fed Cor
Well: Hoss 2-11 W2BO Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 W2BO Fed Com 1H
TVD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
MD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
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 (°)
11,988.0	88.00	174.40	10,752.2	-1,299.3	-86.7	1,302.2	183.82
12,082.0	92.40	177.30	10,751.9	-1,393.1	-79.9	1,395.4	183.28
12,178.0	87.40	172.80	10,752.1	-1,488.7	-71.6	1,490.4	182.75
12,273.0	89.80	176.00	10,754.4	-1,583.2	-62.3	1,584.4	182.25
12,369.0	91.10	178.50	10,753.6	-1,679.0	-57.7	1,680.0	181.97
12,464.0	90.10	178.90	10,752.6	-1,774.0	-55.5	1,774.9	181.79
12,559.0	92.40	181.30	10,750.6	-1,869.0	-55.7	1,869.8	181.71
12,654.0	89.90	179.30	10,748.6	-1,963.9	-56.2	1,964.7	181.64
12,749.0	90.80	180.80	10,748.1	-2,058.9	-56.3	2,059.7	181.57
12,843.0	89.50	179.20	10,747.8	-2,152.9	-56.3	2,153.7	181.50
12,938.0	89.30	180.60	10,748.8	-2,247.9	-56.1	2,248.6	181.43
13,033.0	89.60	179.20	10,749.7	-2,342.9	-56.0	2,343.6	181.37
13,128.0	90.70	179.00	10,749.5	-2,437.9	-54.5	2,438.5	181.28
13,224.0	93.50	181.90	10,746.0	-2,533.8	-55.2	2,534.4	181.25
13,319.0	90.70	179.50	10,742.5	-2,628.7	-56.4	2,629.3	181.23
13,413.0	92.60	180.60	10,739.8	-2,722.7	-56.5	2,723.3	181.19
13,508.0	91.00	181.80	10,736.8	-2,817.6	-58.4	2,818.2	181.19
13,602.0	86.10	178.50	10,739.2	-2,911.5	-58.7	2,912.1	181.15
13,697.0	90.20	179.60	10,742.2	-3,006.4	-57.1	3,007.0	181.09
13,791.0	89.00	177.60	10,742.9	-3,100.4	-54.8	3,100.9	181.01
13,886.0	90.20	179.20	10,743.6	-3,195.4	-52.2	3,195.8	180.94
13,980.0	89.80	180.70	10,743.6	-3,289.4	-52.1	3,289.8	180.91
14,074.0	90.20	180.40	10,743.6	-3,383.4	-53.0	3,383.8	180.90
14,169.0	89.90	179.60	10,743.5	-3,478.4	-53.0	3,478.8	180.87
14,264.0	89.90	179.10	10,743.6	-3,573.3	-51.9	3,573.7	180.83
14,358.0	90.60	179.10	10,743.2	-3,667.3	-50.4	3,667.7	180.79
14,453.0	88.80	179.00	10,743.7	-3,762.3	-48.9	3,762.6	180.74



Microsoft
MWD Surveys



Company: Newbourn Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11-25S-28E Hoss 2-11 W280 Fed Cor
Well: Hoss 2-11 W280 Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 W280 Fed Com 1H
TVD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
MD Reference: 2957 + 27 @ 2984.0usft (Patterson 245)
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 (°)
14,547.0	90.60	179.60	10,744.2	-3,856.3	-47.7	3,856.6	180.71
14,643.0	88.80	177.60	10,744.7	-3,952.3	-45.4	3,952.5	180.66
14,763.0	89.20	177.90	10,746.8	-4,072.2	-40.7	4,072.4	180.57
14,858.0	90.60	183.80	10,747.0	-4,167.1	-42.1	4,167.3	180.58
14,953.0	89.80	184.00	10,746.6	-4,261.9	-48.5	4,262.2	180.65
15,047.0	90.80	182.40	10,746.2	-4,355.7	-53.8	4,356.1	180.71
15,143.0	90.80	181.10	10,744.8	-4,451.7	-56.7	4,452.0	180.73
15,238.0	90.80	181.80	10,743.5	-4,546.6	-59.1	4,547.0	180.74
15,333.0	88.80	180.10	10,743.8	-4,641.6	-60.7	4,642.0	180.75
15,428.0	91.00	181.90	10,744.0	-4,736.6	-62.3	4,737.0	180.75
15,523.0	89.30	179.20	10,743.7	-4,831.6	-63.3	4,832.0	180.75
15,618.0	92.90	179.60	10,741.9	-4,926.5	-62.3	4,926.9	180.72
15,713.0	92.00	181.60	10,737.9	-5,021.4	-63.3	5,021.8	180.72
15,808.0	90.90	180.40	10,735.4	-5,116.4	-64.9	5,116.8	180.73
15,902.0	89.50	180.90	10,735.1	-5,210.4	-66.0	5,210.8	180.73
15,997.0	88.60	183.30	10,736.7	-5,305.3	-69.5	5,305.7	180.75
16,092.0	90.90	184.80	10,737.1	-5,400.0	-76.2	5,400.6	180.81
16,188.0	92.00	183.80	10,734.7	-5,495.7	-83.4	5,496.4	180.87
16,283.0	89.10	179.30	10,733.8	-5,590.7	-85.9	5,591.3	180.88
16,379.0	89.90	180.40	10,734.6	-5,686.7	-85.7	5,687.3	180.86
16,473.0	92.70	177.60	10,732.5	-5,780.6	-84.0	5,781.2	180.83
16,568.0	90.00	175.00	10,730.2	-5,875.4	-77.9	5,875.9	180.76
16,663.0	88.70	174.50	10,731.3	-5,970.0	-69.2	5,970.4	180.66
16,758.0	88.80	174.30	10,733.4	-6,064.5	-60.0	6,064.8	180.57
16,855.0	89.10	175.60	10,735.2	-6,161.1	-51.4	6,161.3	180.48
16,951.0	90.60	177.40	10,735.4	-6,256.9	-45.6	6,257.1	180.42
17,045.0	90.40	179.30	10,734.6	-6,350.8	-42.9	6,351.0	180.39



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11-25S-28E Hoss 2-11 W2BO Fed Cor
Well: Hoss 2-11 W2BO Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference:
TVD Reference: 2957 + 27 @ 2984.0ust (Patterson 245)
MD Reference: 2957 + 27 @ 2984.0ust (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Well Hoss 2-11 W2BO Fed Com 1H
2957 + 27 @ 2984.0ust (Patterson 245)
2957 + 27 @ 2984.0ust (Patterson 245)
Grid
Minimum Curvature
Stryker_EDM

Survey

MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	N/S (ustf)	EW (ustf)	Closure Distance (ustf)	Closure Azimuth (°)
17,140.0	90.50	179.80	10,733.8	-6,445.8	-42.1	6,446.0	180.37
17,235.0	90.90	182.80	10,732.7	-6,540.8	-44.3	6,541.0	180.39
17,305.0	90.70	184.00	10,731.7	-6,610.7	-48.4	6,610.8	180.42
17,400.0	92.20	178.30	10,729.3	-6,705.6	-50.3	6,705.8	180.43
17,495.0	90.10	176.70	10,727.4	-6,800.5	-46.2	6,800.6	180.39
17,590.0	90.20	175.20	10,727.1	-6,895.2	-39.5	6,895.3	180.33
17,686.0	89.80	174.80	10,727.1	-6,990.9	-31.1	6,990.9	180.25
17,808.0	91.50	176.70	10,725.8	-7,112.5	-22.1	7,112.5	180.18
17,903.0	87.80	173.20	10,726.3	-7,207.1	-13.7	7,207.1	180.11
17,998.0	87.20	174.60	10,730.5	-7,301.5	-3.6	7,301.5	180.03
18,094.0	88.40	173.40	10,734.2	-7,396.9	6.4	7,396.9	179.95
18,188.0	91.80	175.90	10,734.0	-7,490.4	15.2	7,490.5	179.88
18,283.0	91.40	173.70	10,731.4	-7,585.0	23.8	7,585.0	179.82
18,378.0	89.50	170.60	10,730.6	-7,679.1	36.8	7,679.2	179.73
18,473.0	85.50	165.60	10,734.8	-7,771.9	56.3	7,772.1	179.58
18,569.0	86.20	167.70	10,741.7	-7,865.1	78.4	7,865.5	179.43
18,664.0	89.80	175.50	10,745.0	-7,958.9	92.3	7,959.4	179.34
18,759.0	89.90	175.80	10,745.3	-8,053.6	99.5	8,054.2	179.29
18,854.0	91.60	179.80	10,744.0	-8,148.5	103.1	8,149.2	179.28
18,950.0	92.60	182.00	10,740.5	-8,244.5	101.6	8,245.1	179.29
19,045.0	92.00	181.30	10,736.7	-8,339.3	98.9	8,339.9	179.32
19,140.0	89.00	180.60	10,735.9	-8,434.3	97.3	8,434.9	179.34
19,235.0	89.50	183.30	10,737.1	-8,529.2	94.1	8,529.8	179.37
19,330.0	90.20	184.40	10,737.4	-8,624.0	87.7	8,624.5	179.42
19,425.0	90.50	183.00	10,736.8	-8,718.8	81.6	8,719.2	179.46
19,521.0	89.80	181.90	10,736.5	-8,814.7	77.5	8,815.1	179.50
19,616.0	88.00	180.50	10,738.4	-8,909.7	75.5	8,910.0	179.51



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11-25S-28E Hoss 2-11 W2BO Fed Cor
Well: Hoss 2-11 W2BO Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 W2BO Fed Com 1H
TVD Reference: 2957 + 27 @ 2984.0ust (Patterson 245)
MD Reference: 2957 + 27 @ 2984.0ust (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
19,711.0	92.00	182.60	10,738.4	-9,004.6	72.9	9,004.9	179.54
19,806.0	88.40	181.10	10,738.0	-9,099.6	69.8	9,099.8	179.56
19,901.0	90.20	183.60	10,739.2	-9,194.5	65.9	9,194.7	179.59
19,995.0	92.90	180.50	10,736.6	-9,288.3	62.6	9,288.5	179.61
20,091.0	92.30	180.30	10,732.3	-9,384.2	61.9	9,384.4	179.62
20,186.0	90.20	179.30	10,730.2	-9,479.2	62.2	9,479.4	179.62
20,281.0	88.30	178.60	10,731.5	-9,574.2	64.0	9,574.4	179.62
20,376.0	90.50	182.20	10,732.5	-9,669.1	63.3	9,669.4	179.62
20,424.0	90.50	182.90	10,732.0	-9,717.1	61.2	9,717.3	179.64
20,624.0	90.50	182.90	10,730.3	-9,916.8	51.1	9,917.0	179.71

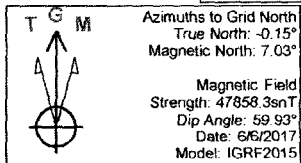
20624' MD Projected to Bit - PBHL Hoss 2-11 W2BO Fed Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
436.0	435.0	-20.6	-14.7	436' MD Rig Survey
20,624.0	10,730.3	-9,916.8	51.1	20624' MD Projected to Bit

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.03°

GEODETIC ZONE: New Mexico East 3001 2957 + 27 @ 2954.0usft (Patterson 245) GROUND ELEVATION: 2957.0										Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	424177.60	586320.20	32° 9' 57.145 N	104° 3' 15.744 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	
3	5155.0	2.33	332.78	5155.0	2.8	-1.4	1.50	332.78	-2.8	
4	9848.9	2.33	332.78	9848.0	172.2	-88.6	0.00	0.00	-172.7	
5	10004.0	0.00	0.00	10000.0	174.9	-90.0	1.50	180.00	-175.5	BB
6	10181.0	0.00	0.00	10177.0	174.9	-90.0	0.00	0.00	-175.5	
7	11082.5	90.15	179.16	10750.0	-399.4	-81.6	10.00	179.16	398.9	
8	20740.4	90.15	179.16	10725.0	-10056.3	59.9	0.00	0.00	10056.5	PBHL Hoss 2-11 W2BO Fed Com 1H



SHL: 165' FNL: 1700' FEL
Section 2-25S-28E
PBHL: 330' FSL: 1650' FEL
Section 11-25S-28E

