



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 16 2017

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Mewbourne Oil Company

Eddy County, New Mexico

Section 2-11-25S-28E Hoss 2-11 W2BO Fed Com 1H

Hoss 2-11 W2BO Fed Com 1H

30-015-44153

Original Hole

Design: Original Hole

Standard Survey Report

24 July, 2017





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11-25S-28E Hoss 2-11 W2BO Fed Com 1H
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		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
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:
From: Map
Position Uncertainty: 0.0 usft
Northing: 424,177.60 usft
Easting: 586,320.20 usft
Slot Radius: 13-3/16 "
Latitude: 32° 9' 57.145 N
Longitude: 104° 3' 15.744 W
Grid Convergence: 0.15 °

Well Hoss 2-11 W2BO Fed Com 1H

Well Position +N/-S 0.0 usft **Northing:** 424,177.60 usft **Latitude:** 32° 9' 57.145 N
+E/-W 0.0 usft **Easting:** 586,320.20 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	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/6/2017	7.18	59.93	47,858.26055215

Design Original Hole

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	215.86

Survey Program Date 7/24/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
137.0	436.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
489.0	20,624.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

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
137.0	1.90	204.00	137.0	-2.1	-0.9	2.2	1.39	1.39	0.00
199.0	3.00	214.00	198.9	-4.4	-2.2	4.9	1.90	1.77	16.13
436.0	6.90	219.00	435.0	-20.6	-14.7	25.3	1.65	1.65	2.11
436' MD Rig Survey									
489.0	5.70	215.40	487.7	-25.2	-18.2	31.1	2.38	-2.26	-6.79
551.0	4.30	212.70	549.4	-29.7	-21.2	36.5	2.29	-2.26	-4.35
611.0	2.80	209.70	609.3	-32.8	-23.2	40.2	2.52	-2.50	-5.00
673.0	1.20	199.30	671.3	-34.8	-24.2	42.3	2.64	-2.58	-16.77



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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)
735.0	0.30	123.80	733.3	-35.5	-24.2	42.9	1.87	-1.45	-121.77
766.0	0.20	356.90	764.3	-35.4	-24.2	42.9	1.45	-0.32	-409.35
833.0	0.40	14.50	831.3	-35.1	-24.1	42.6	0.33	0.30	26.27
896.0	0.40	47.50	894.3	-34.7	-23.9	42.2	0.36	0.00	52.38
960.0	0.40	95.30	958.3	-34.6	-23.5	41.8	0.51	0.00	74.69
1,024.0	0.60	45.10	1,022.3	-34.4	-23.1	41.4	0.72	0.31	-78.44
1,087.0	0.40	34.70	1,085.3	-34.0	-22.7	40.8	0.35	-0.32	-16.51
1,151.0	0.60	26.50	1,149.3	-33.5	-22.4	40.3	0.33	0.31	-12.81
1,214.0	0.60	25.00	1,212.3	-32.9	-22.1	39.6	0.02	0.00	-2.38
1,277.0	0.80	30.40	1,275.3	-32.2	-21.8	38.9	0.33	0.32	8.57
1,341.0	0.70	28.70	1,339.2	-31.5	-21.4	38.0	0.16	-0.16	-2.66
1,404.0	0.70	355.30	1,402.2	-30.8	-21.2	37.4	0.64	0.00	-53.02
1,468.0	0.60	345.70	1,466.2	-30.1	-21.3	36.9	0.23	-0.16	-15.00
1,531.0	0.70	3.50	1,529.2	-29.4	-21.4	36.3	0.36	0.16	28.25
1,595.0	0.60	335.30	1,593.2	-28.7	-21.5	35.8	0.52	-0.16	-44.06
1,658.0	0.50	357.30	1,656.2	-28.1	-21.6	35.4	0.37	-0.16	34.92
1,722.0	0.30	346.40	1,720.2	-27.6	-21.7	35.1	0.33	-0.31	-17.03
1,817.0	0.30	200.00	1,815.2	-27.6	-21.8	35.2	0.60	0.00	-154.11
1,914.0	0.60	136.80	1,912.2	-28.2	-21.6	35.5	0.55	0.31	-65.15
2,009.0	1.20	101.90	2,007.2	-28.8	-20.3	35.2	0.83	0.63	-36.74
2,105.0	1.80	90.90	2,103.2	-29.0	-17.8	34.0	0.69	0.63	-11.46
2,201.0	0.70	97.70	2,199.2	-29.1	-15.7	32.8	1.15	-1.15	7.08
2,295.0	1.40	92.40	2,293.1	-29.3	-14.0	31.9	0.75	0.74	-5.64
2,390.0	1.70	79.60	2,388.1	-29.1	-11.4	30.2	0.48	0.32	-13.47
2,486.0	1.70	66.20	2,484.1	-28.2	-8.7	28.0	0.41	0.00	-13.96
2,514.0	2.00	65.70	2,512.0	-27.9	-7.9	27.2	1.07	1.07	-1.79
2,574.0	1.90	68.60	2,572.0	-27.1	-6.0	25.5	0.23	-0.17	4.83
2,670.0	1.30	60.30	2,668.0	-26.0	-3.6	23.1	0.67	-0.63	-8.65
2,765.0	1.50	46.80	2,762.9	-24.6	-1.7	20.9	0.40	0.21	-14.21
2,860.0	1.80	344.60	2,857.9	-22.3	-1.2	18.8	1.81	0.32	-65.47
2,956.0	1.80	344.40	2,953.9	-19.4	-2.0	16.9	0.01	0.00	-0.21
3,052.0	1.80	345.70	3,049.8	-16.5	-2.8	15.0	0.04	0.00	1.35
3,147.0	1.60	341.10	3,144.8	-13.8	-3.6	13.3	0.25	-0.21	-4.84
3,242.0	1.50	339.80	3,239.7	-11.3	-4.5	11.8	0.11	-0.11	-1.37
3,338.0	1.30	338.10	3,335.7	-9.1	-5.3	10.5	0.21	-0.21	-1.77
3,432.0	1.00	328.50	3,429.7	-7.5	-6.1	9.6	0.38	-0.32	-10.21
3,528.0	1.10	284.20	3,525.7	-6.5	-7.5	9.7	0.83	0.10	-46.15
3,624.0	1.10	281.40	3,621.7	-6.1	-9.3	10.4	0.06	0.00	-2.92
3,718.0	1.10	282.10	3,715.6	-5.7	-11.0	11.1	0.01	0.00	0.74
3,814.0	1.10	277.00	3,811.6	-5.4	-12.8	11.9	0.10	0.00	-5.31
3,909.0	0.80	105.80	3,906.6	-5.5	-13.1	12.1	1.99	-0.32	-180.21
4,004.0	0.80	132.20	4,001.6	-6.1	-12.0	12.0	0.38	0.00	27.79

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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)
4,100.0	0.70	167.60	4,097.6	-7.2	-11.4	12.5	0.49	-0.10	36.88
4,195.0	1.00	164.60	4,192.6	-8.5	-11.0	13.4	0.32	0.32	-3.16
4,290.0	0.80	134.60	4,287.6	-9.8	-10.3	14.0	0.53	-0.21	-31.58
4,385.0	0.70	126.90	4,382.6	-10.6	-9.4	14.1	0.15	-0.11	-8.11
4,480.0	1.00	119.40	4,477.6	-11.4	-8.2	14.0	0.34	0.32	-7.89
4,575.0	1.90	325.40	4,572.5	-10.5	-8.4	13.4	2.98	0.95	-162.11
4,670.0	2.00	324.20	4,667.5	-7.8	-10.2	12.3	0.11	0.11	-1.26
4,765.0	1.80	323.20	4,762.4	-5.3	-12.1	11.4	0.21	-0.21	-1.05
4,860.0	0.90	314.70	4,857.4	-3.6	-13.5	10.8	0.97	-0.95	-8.95
4,955.0	0.50	294.00	4,952.4	-2.9	-14.4	10.8	0.49	-0.42	-21.79
5,050.0	2.20	323.80	5,047.4	-1.2	-15.9	10.3	1.88	1.79	31.37
5,145.0	1.80	331.90	5,142.3	1.6	-17.7	9.1	0.51	-0.42	8.53
5,240.0	1.30	330.90	5,237.3	3.8	-18.9	8.0	0.53	-0.53	-1.05
5,336.0	2.50	325.70	5,333.2	6.5	-20.6	6.8	1.26	1.25	-5.42
5,431.0	2.40	323.10	5,428.1	9.8	-23.0	5.5	0.16	-0.11	-2.74
5,525.0	2.80	343.00	5,522.0	13.6	-24.8	3.5	1.04	0.43	21.17
5,621.0	2.20	338.00	5,618.0	17.5	-26.2	1.2	0.66	-0.63	-5.21
5,717.0	1.70	342.40	5,713.9	20.6	-27.3	-0.7	0.54	-0.52	4.58
5,812.0	2.60	332.40	5,808.8	23.8	-28.7	-2.5	1.02	0.95	-10.53
5,907.0	2.10	333.20	5,903.8	27.3	-30.5	-4.2	0.53	-0.53	0.84
6,002.0	3.00	343.70	5,998.7	31.2	-32.0	-6.6	1.06	0.95	11.05
6,097.0	2.40	347.60	6,093.6	35.6	-33.1	-9.4	0.66	-0.63	4.11
6,193.0	1.80	339.00	6,189.5	38.9	-34.1	-11.6	0.70	-0.63	-8.96
6,288.0	1.80	323.30	6,284.4	41.5	-35.5	-12.8	0.52	0.00	-16.53
6,384.0	2.00	306.80	6,380.4	43.7	-37.8	-13.3	0.60	0.21	-17.19
6,479.0	2.30	307.40	6,475.3	45.9	-40.6	-13.4	0.32	0.32	0.63
6,575.0	3.60	314.40	6,571.2	49.2	-44.3	-13.9	1.40	1.35	7.29
6,671.0	3.30	325.60	6,667.0	53.6	-48.0	-15.3	0.77	-0.31	11.67
6,767.0	3.50	316.40	6,762.9	58.0	-51.6	-16.7	0.60	0.21	-9.58
6,861.0	2.00	318.10	6,856.7	61.3	-54.7	-17.6	1.60	-1.60	1.81
6,957.0	2.30	248.20	6,952.7	61.8	-57.6	-16.3	2.58	0.31	-72.81
7,052.0	3.00	302.60	7,047.6	62.4	-61.4	-14.6	2.63	0.74	57.26
7,147.0	2.10	321.70	7,142.5	65.1	-64.6	-14.9	1.29	-0.95	20.11
7,243.0	2.00	319.90	7,238.4	67.8	-66.8	-15.8	0.12	-0.10	-1.88
7,338.0	4.30	341.50	7,333.3	72.4	-69.0	-18.3	2.68	2.42	22.74
7,433.0	3.60	348.30	7,428.1	78.7	-70.7	-22.4	0.89	-0.74	7.16
7,528.0	2.90	335.00	7,522.9	83.8	-72.3	-25.6	1.08	-0.74	-14.00
7,624.0	2.50	317.00	7,618.8	87.6	-74.8	-27.1	0.97	-0.42	-18.75
7,719.0	2.60	4.20	7,713.7	91.2	-76.1	-29.4	2.15	0.11	49.68
7,815.0	1.10	347.10	7,809.7	94.3	-76.1	-31.8	1.65	-1.56	-17.81
7,910.0	2.70	355.30	7,904.6	97.4	-76.5	-34.1	1.70	1.68	8.63
8,005.0	2.20	332.60	7,999.5	101.3	-77.5	-36.7	1.14	-0.53	-23.89
8,101.0	3.10	324.30	8,095.4	105.0	-79.9	-38.3	1.02	0.94	-8.65

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8,196.0	3.90	350.00	8,190.3	110.3	-81.9	-41.4	1.83	0.84	27.05
8,292.0	2.60	344.50	8,286.1	115.6	-83.1	-45.0	1.39	-1.35	-5.73
8,387.0	1.90	27.70	8,381.0	119.1	-82.9	-47.9	1.87	-0.74	45.47
8,483.0	1.80	47.90	8,477.0	121.5	-81.1	-51.0	0.68	-0.10	21.04
8,579.0	1.40	313.10	8,573.0	123.3	-80.8	-52.6	2.47	-0.42	-98.75
8,673.0	1.80	334.00	8,666.9	125.4	-82.3	-53.4	0.75	0.43	22.23
8,769.0	1.40	304.10	8,762.9	127.4	-83.9	-54.1	0.95	-0.42	-31.15
8,863.0	1.80	341.90	8,856.9	129.5	-85.3	-54.9	1.17	0.43	40.21
8,959.0	1.40	2.60	8,952.8	132.1	-85.7	-56.8	0.73	-0.42	21.56
9,054.0	2.10	340.90	9,047.8	134.9	-86.3	-58.8	1.00	0.74	-22.84
9,149.0	1.50	309.80	9,142.7	137.3	-87.8	-59.9	1.18	-0.63	-32.74
9,244.0	2.50	347.60	9,237.7	140.1	-89.2	-61.3	1.69	1.05	39.79
9,340.0	2.10	350.70	9,333.6	143.9	-89.9	-64.0	0.44	-0.42	3.23
9,435.0	1.50	344.30	9,428.6	146.8	-90.5	-66.0	0.67	-0.63	-6.74
9,530.0	1.10	349.80	9,523.5	148.9	-91.0	-67.4	0.44	-0.42	5.79
9,626.0	1.60	4.10	9,619.5	151.2	-91.1	-69.1	0.62	0.52	14.90
9,721.0	2.60	10.00	9,714.4	154.6	-90.6	-72.2	1.08	1.05	6.21
9,816.0	2.70	18.60	9,809.3	158.9	-89.5	-76.3	0.43	0.11	9.05
9,911.0	2.60	23.90	9,904.2	162.9	-88.0	-80.5	0.28	-0.11	5.58
10,006.0	2.20	19.80	9,999.2	166.6	-86.5	-84.4	0.46	-0.42	-4.32
10,007.1	2.19	19.74	10,000.2	166.7	-86.5	-84.4	0.69	-0.65	-5.97
BB									
10,101.0	1.60	12.00	10,094.1	169.6	-85.6	-87.4	0.69	-0.63	-8.24
10,163.0	0.40	36.20	10,156.1	170.7	-85.3	-88.4	2.01	-1.94	39.03
10,195.0	2.60	166.10	10,188.1	170.1	-85.0	-88.0	8.98	6.88	405.94
10,226.0	5.50	175.40	10,219.0	167.9	-84.7	-86.4	9.56	9.35	30.00
10,258.0	8.50	177.30	10,250.8	164.0	-84.5	-83.4	9.40	9.38	5.94
10,290.0	11.80	180.20	10,282.3	158.4	-84.4	-78.9	10.43	10.31	9.06
10,321.0	14.60	180.90	10,312.4	151.3	-84.5	-73.1	9.05	9.03	2.26
10,353.0	17.10	182.60	10,343.2	142.6	-84.8	-65.9	7.95	7.81	5.31
10,385.0	20.10	183.40	10,373.5	132.4	-85.3	-57.3	9.41	9.38	2.50
10,417.0	23.70	181.90	10,403.2	120.4	-85.8	-47.3	11.38	11.25	-4.69
10,449.0	27.00	181.40	10,432.1	106.7	-86.2	-36.0	10.33	10.31	-1.56
10,481.0	29.90	181.20	10,460.3	91.5	-86.6	-23.4	9.07	9.06	-0.63
10,512.0	32.50	183.10	10,486.8	75.5	-87.2	-10.1	8.97	8.39	6.13
10,544.0	34.30	184.70	10,513.5	57.9	-88.4	4.9	6.26	5.63	5.00
10,576.0	37.00	183.40	10,539.5	39.3	-89.7	20.7	8.76	8.44	-4.06
10,608.0	39.20	181.60	10,564.7	19.6	-90.5	37.2	7.70	6.88	-5.63
10,640.0	42.20	178.90	10,588.9	-1.3	-90.6	54.1	10.87	9.38	-8.44
<u>10,672.0</u>	45.90	176.50	10,611.9	<u>-23.5</u>	<u>-89.7</u>	71.6	12.68	11.56	-7.50
10,703.0	49.50	174.90	10,632.8	-46.4	-88.0	89.1	12.22	11.61	-5.16
10,735.0	53.10	176.90	10,652.8	-71.3	-86.2	108.3	12.26	11.25	6.25
10,780.0	56.70	178.90	10,678.7	-108.1	-84.9	137.3	8.79	8.00	4.44

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

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)
10,812.0	59.40	180.00	10,695.6	-135.2	-84.6	159.2	8.93	8.44	3.44
10,844.0	64.30	180.40	10,710.7	-163.4	-84.7	182.1	15.35	15.31	1.25
10,875.0	70.70	180.40	10,722.6	-192.0	-84.9	205.4	20.65	20.65	0.00
10,907.0	75.20	182.90	10,731.9	-222.6	-85.8	230.7	15.92	14.06	7.81
10,939.0	76.90	183.70	10,739.7	-253.6	-87.6	256.9	5.84	5.31	2.50
10,971.0	82.40	182.50	10,745.4	-285.0	-89.3	283.3	17.58	17.19	-3.75
11,002.0	87.10	182.20	10,748.2	-315.9	-90.6	309.0	15.19	15.16	-0.97
11,034.0	86.60	180.90	10,750.0	-347.8	-91.4	335.4	4.35	-1.56	-4.06
11,130.0	90.40	180.80	10,752.5	-443.8	-92.9	414.0	3.96	3.96	-0.10
11,225.0	90.00	178.70	10,752.2	-538.7	-92.4	490.8	2.25	-0.42	-2.21
11,265.7	90.04	180.14	10,752.2	-579.4	-92.0	523.5	3.54	0.10	3.54
LP Hoss 2-11 W2BO Fed Com 1H									
11,321.0	90.10	182.10	10,752.1	-634.7	-93.1	568.9	3.54	0.10	3.54
11,417.0	89.80	185.40	10,752.2	-730.5	-99.4	650.2	3.45	-0.31	3.44
11,512.0	90.20	186.90	10,752.2	-825.0	-109.6	732.8	1.63	0.42	1.58
11,607.0	92.30	180.70	10,750.1	-919.7	-115.9	813.2	6.89	2.21	-6.53
11,701.0	89.00	175.10	10,749.0	-1,013.6	-112.4	887.3	6.91	-3.51	-5.96
11,797.0	89.10	173.80	10,750.6	-1,109.1	-103.1	959.3	1.36	0.10	-1.35
11,892.0	90.50	176.00	10,751.0	-1,203.7	-94.7	1,031.0	2.74	1.47	2.32
11,988.0	88.00	174.40	10,752.2	-1,299.3	-86.7	1,103.8	3.09	-2.60	-1.67
12,082.0	92.40	177.30	10,751.9	-1,393.1	-79.9	1,175.8	5.61	4.68	3.09
12,178.0	87.40	172.80	10,752.1	-1,488.7	-71.6	1,248.4	7.01	-5.21	-4.69
12,273.0	89.80	176.00	10,754.4	-1,583.2	-62.3	1,319.5	4.21	2.53	3.37
12,369.0	91.10	178.50	10,753.6	-1,679.0	-57.7	1,394.5	2.94	1.35	2.60
12,464.0	90.10	178.90	10,752.6	-1,774.0	-55.5	1,470.2	1.13	-1.05	0.42
12,559.0	92.40	181.30	10,750.6	-1,869.0	-55.7	1,547.3	3.50	2.42	2.53
12,654.0	89.90	179.30	10,748.6	-1,963.9	-56.2	1,624.6	3.37	-2.63	-2.11
12,749.0	90.80	180.80	10,748.1	-2,058.9	-56.3	1,701.6	1.84	0.95	1.58
12,843.0	89.50	179.20	10,747.8	-2,152.9	-56.3	1,777.8	2.19	-1.38	-1.70
12,938.0	89.30	180.60	10,748.8	-2,247.9	-56.1	1,854.7	1.49	-0.21	1.47
13,033.0	89.60	179.20	10,749.7	-2,342.9	-56.0	1,931.5	1.51	0.32	-1.47
13,128.0	90.70	179.00	10,749.5	-2,437.9	-54.5	2,007.6	1.18	1.16	-0.21
13,224.0	93.50	181.90	10,746.0	-2,533.8	-55.2	2,085.8	4.20	2.92	3.02
13,319.0	90.70	179.50	10,742.5	-2,628.7	-56.4	2,163.4	3.88	-2.95	-2.53
13,413.0	92.60	180.60	10,739.8	-2,722.7	-56.5	2,239.6	2.34	2.02	1.17
13,508.0	91.00	181.80	10,736.8	-2,817.6	-58.4	2,317.7	2.10	-1.68	1.26
13,602.0	86.10	178.50	10,739.2	-2,911.5	-58.7	2,394.0	6.28	-5.21	-3.51
13,697.0	90.20	179.60	10,742.2	-3,006.4	-57.1	2,470.0	4.47	4.32	1.16
13,791.0	89.00	177.60	10,742.9	-3,100.4	-54.8	2,544.8	2.48	-1.28	-2.13
13,886.0	90.20	179.20	10,743.6	-3,195.4	-52.2	2,620.2	2.11	1.26	1.68
13,980.0	89.80	180.70	10,743.6	-3,289.4	-52.1	2,696.3	1.65	-0.43	1.60
14,074.0	90.20	180.40	10,743.6	-3,383.4	-53.0	2,773.0	0.53	0.43	-0.32



Microsoft Survey Report



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

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)
14,169.0	89.90	179.60	10,743.5	-3,478.4	-53.0	2,850.0	0.90	-0.32	-0.84
14,264.0	89.90	179.10	10,743.6	-3,573.3	-51.9	2,926.4	0.53	0.00	-0.53
14,358.0	90.60	179.10	10,743.2	-3,667.3	-50.4	3,001.7	0.74	0.74	0.00
14,453.0	88.80	179.00	10,743.7	-3,762.3	-48.9	3,077.7	1.90	-1.89	-0.11
14,547.0	90.60	179.60	10,744.2	-3,856.3	-47.7	3,153.2	2.02	1.91	0.64
14,643.0	88.80	177.60	10,744.7	-3,952.3	-45.4	3,229.6	2.80	-1.88	-2.08
14,763.0	89.20	177.90	10,746.8	-4,072.2	-40.7	3,324.0	0.42	0.33	0.25
14,858.0	90.60	183.80	10,747.0	-4,167.1	-42.1	3,401.8	6.38	1.47	6.21
14,953.0	89.80	184.00	10,746.6	-4,261.9	-48.5	3,482.4	0.87	-0.84	0.21
15,047.0	90.80	182.40	10,746.2	-4,355.7	-53.8	3,561.5	2.01	1.06	-1.70
15,143.0	90.80	181.10	10,744.8	-4,451.7	-56.7	3,641.0	1.35	0.00	-1.35
15,238.0	90.80	181.80	10,743.5	-4,546.6	-59.1	3,719.3	0.74	0.00	0.74
15,333.0	88.80	180.10	10,743.8	-4,641.6	-60.7	3,797.2	2.76	-2.11	-1.79
15,428.0	91.00	181.90	10,744.0	-4,736.6	-62.3	3,875.2	2.99	2.32	1.89
15,523.0	89.30	179.20	10,743.7	-4,831.6	-63.3	3,952.7	3.36	-1.79	-2.84
15,618.0	92.90	179.60	10,741.9	-4,926.5	-62.3	4,029.1	3.81	3.79	0.42
15,713.0	92.00	181.60	10,737.9	-5,021.4	-63.3	4,106.6	2.31	-0.95	2.11
15,808.0	90.90	180.40	10,735.4	-5,116.4	-64.9	4,184.5	1.71	-1.16	-1.26
15,902.0	89.50	180.90	10,735.1	-5,210.4	-66.0	4,261.3	1.58	-1.49	0.53
15,997.0	88.60	183.30	10,736.7	-5,305.3	-69.5	4,340.2	2.70	-0.95	2.53
16,092.0	90.90	184.80	10,737.1	-5,400.0	-76.2	4,421.0	2.89	2.42	1.58
16,188.0	92.00	183.80	10,734.7	-5,495.7	-83.4	4,502.7	1.55	1.15	-1.04
16,283.0	89.10	179.30	10,733.8	-5,590.7	-85.9	4,581.2	5.63	-3.05	-4.74
16,379.0	89.90	180.40	10,734.6	-5,686.7	-85.7	4,658.8	1.42	0.83	1.15
16,473.0	92.70	177.60	10,732.5	-5,780.6	-84.0	4,734.0	4.21	2.98	-2.98
16,568.0	90.00	175.00	10,730.2	-5,875.4	-77.9	4,807.2	3.94	-2.84	-2.74
16,663.0	88.70	174.50	10,731.3	-5,970.0	-69.2	4,878.8	1.47	-1.37	-0.53
16,758.0	88.80	174.30	10,733.4	-6,064.5	-60.0	4,949.9	0.24	0.11	-0.21
16,855.0	89.10	175.60	10,735.2	-6,161.1	-51.4	5,023.2	1.38	0.31	1.34
16,951.0	90.60	177.40	10,735.4	-6,256.9	-45.6	5,097.4	2.44	1.56	1.88
17,045.0	90.40	179.30	10,734.6	-6,350.8	-42.9	5,172.0	2.03	-0.21	2.02
17,140.0	90.50	179.80	10,733.8	-6,445.8	-42.1	5,248.6	0.54	0.11	0.53
17,235.0	90.90	182.80	10,732.7	-6,540.8	-44.3	5,326.8	3.19	0.42	3.16
17,305.0	90.70	184.00	10,731.7	-6,610.7	-48.4	5,385.8	1.74	-0.29	1.71
17,400.0	92.20	178.30	10,729.3	-6,705.6	-50.3	5,463.9	6.20	1.58	-6.00
17,495.0	90.10	176.70	10,727.4	-6,800.5	-46.2	5,538.3	2.78	-2.21	-1.68
17,590.0	90.20	175.20	10,727.1	-6,895.2	-39.5	5,611.2	1.58	0.11	-1.58
17,686.0	89.80	174.80	10,727.1	-6,990.9	-31.1	5,683.8	0.59	-0.42	-0.42
17,808.0	91.50	176.70	10,725.8	-7,112.5	-22.1	5,777.1	2.09	1.39	1.56
17,903.0	87.80	173.20	10,726.3	-7,207.1	-13.7	5,848.9	5.36	-3.89	-3.68
17,998.0	87.20	174.60	10,730.5	-7,301.5	-3.6	5,919.4	1.60	-0.63	1.47
18,094.0	88.40	173.40	10,734.2	-7,396.9	6.4	5,990.9	1.77	1.25	-1.25
18,188.0	91.80	175.90	10,734.0	-7,490.4	15.2	6,061.6	4.49	3.62	2.66



Microsoft Survey Report



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

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)
18,283.0	91.40	173.70	10,731.4	-7,585.0	23.8	6,133.2	2.35	-0.42	-2.32
18,378.0	89.50	170.60	10,730.6	-7,679.1	36.8	6,201.8	3.83	-2.00	-3.26
18,473.0	85.50	165.60	10,734.8	-7,771.9	56.3	6,265.6	6.74	-4.21	-5.26
18,569.0	86.20	167.70	10,741.7	-7,865.1	78.4	6,328.1	2.30	0.73	2.19
18,664.0	89.80	175.50	10,745.0	-7,958.9	92.3	6,396.1	9.04	3.79	8.21
18,759.0	89.90	175.80	10,745.3	-8,053.6	99.5	6,468.6	0.33	0.11	0.32
18,854.0	91.60	179.80	10,744.0	-8,148.5	103.1	6,543.4	4.57	1.79	4.21
18,950.0	92.60	182.00	10,740.5	-8,244.5	101.6	6,622.0	2.52	1.04	2.29
19,045.0	92.00	181.30	10,736.7	-8,339.3	98.9	6,700.5	0.97	-0.63	-0.74
19,140.0	89.00	180.60	10,735.9	-8,434.3	97.3	6,778.4	3.24	-3.16	-0.74
19,235.0	89.50	183.30	10,737.1	-8,529.2	94.1	6,857.2	2.89	0.53	2.84
19,330.0	90.20	184.40	10,737.4	-8,624.0	87.7	6,937.8	1.37	0.74	1.16
19,425.0	90.50	183.00	10,736.8	-8,718.8	81.6	7,018.2	1.51	0.32	-1.47
19,521.0	89.80	181.90	10,736.5	-8,814.7	77.5	7,098.3	1.36	-0.73	-1.15
19,616.0	88.00	180.50	10,738.4	-8,909.7	75.5	7,176.4	2.40	-1.89	-1.47
19,711.0	92.00	182.60	10,738.4	-9,004.6	72.9	7,254.9	4.76	4.21	2.21
19,806.0	88.40	181.10	10,738.0	-9,099.6	69.8	7,333.6	4.11	-3.79	-1.58
19,901.0	90.20	183.60	10,739.2	-9,194.5	65.9	7,412.8	3.24	1.89	2.63
19,995.0	92.90	180.50	10,736.6	-9,288.3	62.6	7,490.9	4.37	2.87	-3.30
20,091.0	92.30	180.30	10,732.3	-9,384.2	61.9	7,569.0	0.66	-0.63	-0.21
20,186.0	90.20	179.30	10,730.2	-9,479.2	62.2	7,645.7	2.45	-2.21	-1.05
20,281.0	88.30	178.60	10,731.5	-9,574.2	64.0	7,721.7	2.13	-2.00	-0.74
20,376.0	90.50	182.20	10,732.5	-9,669.1	63.3	7,799.0	4.44	2.32	3.79
20,424.0	90.50	182.90	10,732.0	-9,717.1	61.2	7,839.2	1.46	0.00	1.46
20,624.0	90.50	182.90	10,730.3	-9,916.8	51.1	8,007.0	0.00	0.00	0.00

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



COMPANY: Mewbourne Oil Company
WELL: Hoss 2-11 W2BO Fed Com 1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 245



OFFICE: 936.582.7296

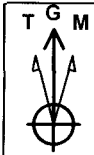
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.03°

GEODETTIC ZONE: New Mexico East 3001
2957 + 27 @ 2984.0usft (Patterson 245)
GROUND ELEVATION: 2957.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	424177.60	586320.20	32° 9' 57.145 N	104° 3' 15.744 W	

PLAN SECTIONS

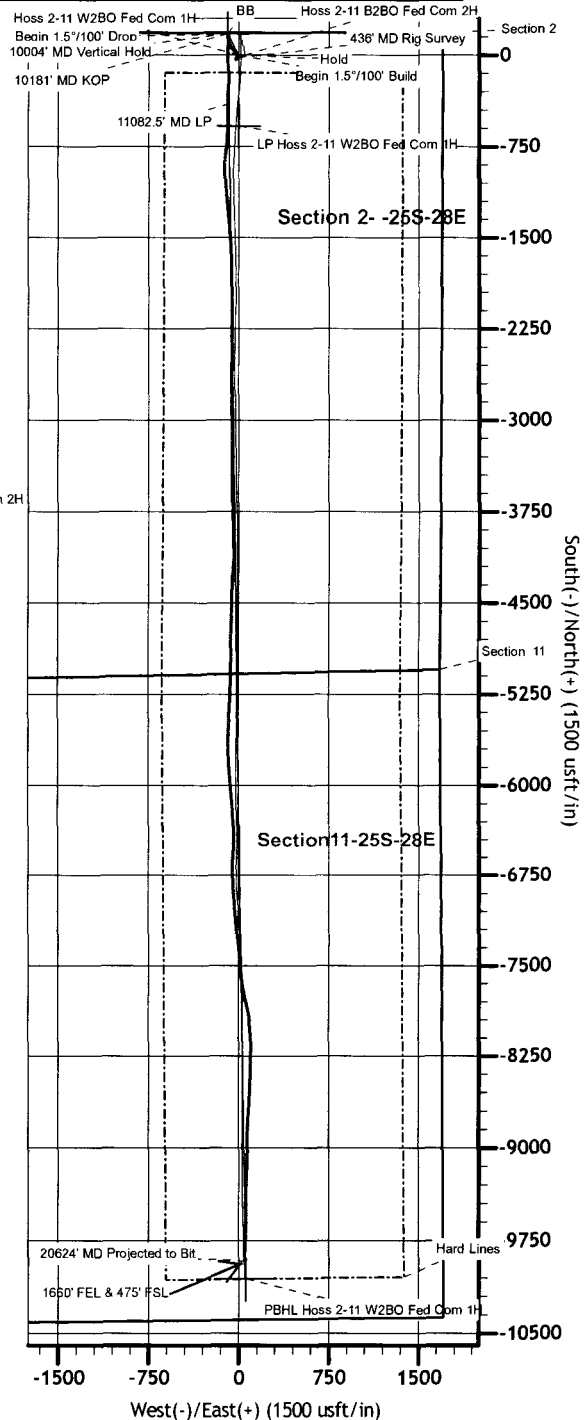
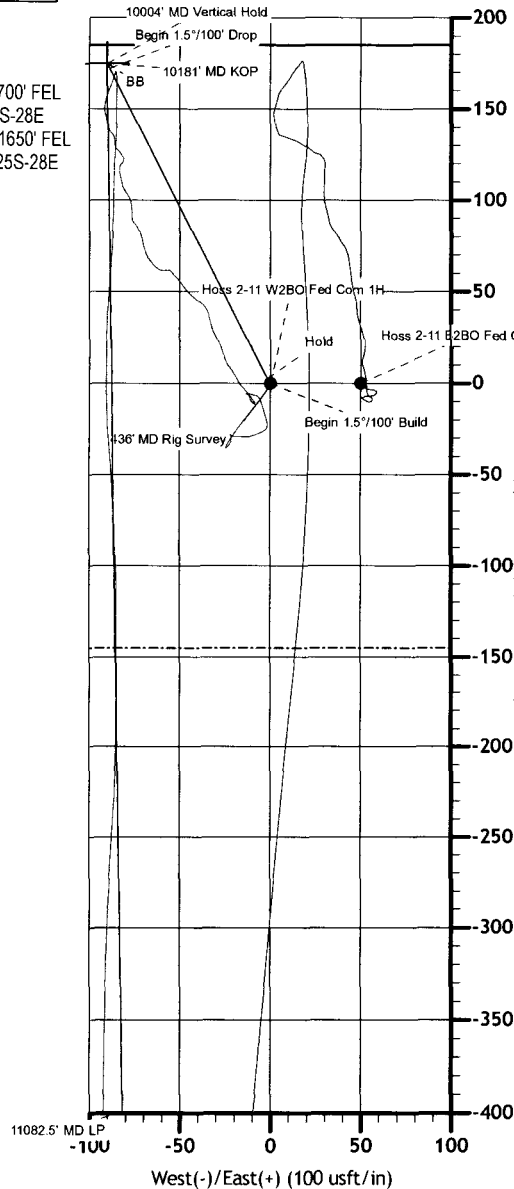
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	
3	5155.0	2.33	332.78	5155.0	2.8	-1.4	1.50	332.78	-2.8	
4	9848.9	2.33	332.78	9845.0	172.2	-88.6	0.00	0.00	-172.7	
5	10004.0	0.00	0.00	10000.0	174.9	-90.0	1.50	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



Azimuths to Grid North
True North: -0.15°
Magnetic North: 7.03°

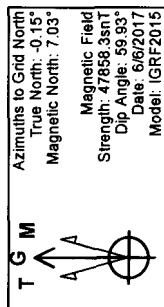
Magnetic Field
Strength: 47858.3snT
Dip Angle: 59.93°
Date: 6/6/2017
Model: IGRF2015

SHL: 185' FNL; 1700' FEL
Section 2-25S-28E
PBHL: 330' FSL; 1650' FEL
Section 11-25S-28E





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



GEOGRAPHIC ZONE: New Mexico East 3001 2957 + 27 @ 2984 Oustf (Patterson 245)									
GROUND ELEVATION: 2957.0									
Latitude: 32° 9' 57.145 N									
Longitude: 104° 3' 15.744 W									
Slot									
PLAN SECTIONS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TFace	VFace
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	9845.0	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
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	-10096.3	59.9	0.00	0.00	10096.5
PBHL Hoss 2-11 W2BO Fed Com 1H									