



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 B2BO Fed Com 2H

Hoss 2-11 B2BO Fed Com 2H

30-015-44152

Original Hole

Design: Original Hole

Standard Survey Report

08 June, 2017





Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Hoss 2-11 B2BO Fed Com 2H
Project:	Eddy County, New Mexico	TVD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Site:	Section 2-11 -25S-28E Hoss 2-11 B2BO Fed Com 2H	MD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Well:	Hoss 2-11 B2BO Fed Com 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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 B2BO Fed Com 2H				
Site Position:		Northing:	424,177.60 usft	Latitude:	32° 9' 57.144 N
From:	Map	Easting:	586,370.20 usft	Longitude:	104° 3' 15.163 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Hoss 2-11 B2BO Fed Com 2H					
Well Position	+N/-S	0.0 usft	Northing:	424,177.60 usft	Latitude:	32° 9' 57.144 N
	+E/-W	0.0 usft	Easting:	586,370.20 usft	Longitude:	104° 3' 15.163 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,957.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/26/2017	7.19	59.93	47,869.77346148

Design	Original Hole				
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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	115.59

Survey Program	Date	6/8/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
257.0	462.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination	
516.0	18,370.0	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
	257.0	1.60	131.00	257.0	-2.4	2.7	3.5	0.62	0.62	0.00
	318.0	1.30	106.00	317.9	-3.1	4.0	5.0	1.14	-0.49	-40.98
	380.0	0.40	93.00	379.9	-3.3	4.9	5.9	1.48	-1.45	-20.97
	462.0	1.40	93.00	461.9	-3.4	6.2	7.0	1.22	1.22	0.00
462' MD Rig Survey										
	516.0	1.40	110.80	515.9	-3.6	7.5	8.3	0.80	0.00	32.96
	578.0	0.50	116.00	577.9	-4.0	8.4	9.3	1.46	-1.45	8.39
	640.0	0.40	81.10	639.9	-4.1	8.9	9.8	0.46	-0.16	-56.29



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Survey Report



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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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)
703.0	0.10	323.00	702.9	-4.0	9.1	9.9	0.72	-0.48	-187.46
765.0	0.10	155.40	764.9	-4.0	9.1	9.9	0.32	0.00	-270.32
832.0	0.30	172.00	831.9	-4.3	9.1	10.1	0.31	0.30	24.78
895.0	0.40	183.20	894.9	-4.7	9.1	10.2	0.19	0.16	17.78
958.0	0.50	211.40	957.9	-5.1	9.0	10.3	0.38	0.16	44.76
1,022.0	0.70	224.50	1,021.9	-5.6	8.5	10.1	0.38	0.31	20.47
1,085.0	0.60	221.30	1,084.9	-6.1	8.0	9.9	0.17	-0.16	-5.08
1,149.0	0.50	242.40	1,148.9	-6.5	7.6	9.7	0.35	-0.16	32.97
1,212.0	0.50	261.80	1,211.9	-6.7	7.1	9.3	0.27	0.00	30.79
1,275.0	0.70	269.20	1,274.9	-6.7	6.4	8.7	0.34	0.32	11.75
1,339.0	0.70	265.40	1,338.9	-6.8	5.6	8.0	0.07	0.00	-5.94
1,402.0	0.70	264.80	1,401.9	-6.8	4.9	7.3	0.01	0.00	-0.95
1,466.0	0.70	271.60	1,465.9	-6.9	4.1	6.6	0.13	0.00	10.63
1,529.0	0.50	263.10	1,528.9	-6.9	3.4	6.1	0.35	-0.32	-13.49
1,593.0	0.50	254.20	1,592.9	-7.0	2.9	5.6	0.12	0.00	-13.91
1,656.0	0.50	251.60	1,655.9	-7.2	2.4	5.2	0.04	0.00	-4.13
1,720.0	0.40	240.20	1,719.9	-7.4	1.9	4.9	0.21	-0.16	-17.81
1,783.0	0.60	239.80	1,782.9	-7.6	1.4	4.6	0.32	0.32	-0.63
1,815.0	0.50	242.50	1,814.9	-7.8	1.1	4.4	0.32	-0.31	8.44
1,912.0	0.70	122.00	1,911.9	-8.3	1.3	4.7	1.08	0.21	-124.23
2,007.0	2.10	120.50	2,006.8	-9.5	3.3	7.0	1.47	1.47	-1.58
2,103.0	0.70	62.80	2,102.8	-10.1	5.3	9.2	1.90	-1.46	-60.10
2,197.0	1.10	45.20	2,196.8	-9.2	6.5	9.8	0.51	0.43	-18.72
2,292.0	0.80	318.30	2,291.8	-8.1	6.7	9.5	1.39	-0.32	-91.47
2,387.0	0.60	290.50	2,386.8	-7.4	5.8	8.4	0.41	-0.21	-29.26
2,483.0	0.10	226.90	2,482.8	-7.3	5.2	7.9	0.59	-0.52	-66.25
2,570.0	0.40	302.10	2,569.8	-7.2	4.9	7.5	0.44	0.34	86.44
2,664.0	0.50	290.50	2,663.8	-6.9	4.2	6.8	0.14	0.11	-12.34
2,760.0	2.20	353.80	2,759.7	-4.9	3.7	5.4	2.11	1.77	65.94
2,856.0	2.50	356.60	2,855.7	-1.0	3.3	3.4	0.33	0.31	2.92
2,951.0	2.20	350.50	2,950.6	2.9	2.9	1.4	0.41	-0.32	-6.42
3,047.0	2.30	346.60	3,046.5	6.6	2.2	-0.9	0.19	0.10	-4.06
3,143.0	2.00	342.70	3,142.4	10.1	1.2	-3.3	0.35	-0.31	-4.06
3,237.0	2.60	16.80	3,236.4	13.7	1.3	-4.7	1.56	0.64	36.28
3,333.0	3.00	9.10	3,332.2	18.2	2.4	-5.7	0.57	0.42	-8.02
3,428.0	3.10	352.50	3,427.1	23.2	2.4	-7.9	0.93	0.11	-17.47
3,524.0	2.60	340.40	3,523.0	27.9	1.4	-10.8	0.81	-0.52	-12.60
3,619.0	2.20	344.50	3,617.9	31.7	0.1	-13.5	0.46	-0.42	4.32
3,714.0	2.10	336.30	3,712.8	35.0	-1.0	-16.1	0.34	-0.11	-8.63
3,809.0	1.70	357.90	3,807.8	38.0	-1.8	-18.0	0.86	-0.42	22.74
3,904.0	1.60	357.00	3,902.8	40.7	-1.9	-19.3	0.11	-0.11	-0.95
4,000.0	2.00	356.00	3,998.7	43.8	-2.1	-20.8	0.42	0.42	-1.04

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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)	
4,095.0	1.80	341.20	4,093.7	46.8	-2.7	-22.7	0.56	-0.21	-15.58	
4,191.0	1.70	342.60	4,189.6	49.6	-3.6	-24.7	0.11	-0.10	1.46	
4,287.0	1.60	351.20	4,285.6	52.3	-4.2	-26.4	0.28	-0.10	8.96	
4,383.0	2.80	349.80	4,381.5	55.9	-4.9	-28.5	1.25	1.25	-1.46	
4,479.0	2.90	354.90	4,477.4	60.6	-5.5	-31.1	0.28	0.10	5.31	
4,574.0	2.80	350.10	4,572.3	65.3	-6.1	-33.7	0.27	-0.11	-5.05	
4,669.0	2.80	351.50	4,667.1	69.9	-6.8	-36.4	0.07	0.00	1.47	
4,765.0	2.70	328.00	4,763.0	74.1	-8.4	-39.6	1.17	-0.10	-24.48	
4,859.0	2.20	324.10	4,857.0	77.5	-10.6	-43.0	0.56	-0.53	-4.15	
4,955.0	1.90	326.60	4,952.9	80.3	-12.6	-46.0	0.33	-0.31	2.60	
5,050.0	1.70	323.50	5,047.8	82.8	-14.3	-48.6	0.23	-0.21	-3.26	
5,146.0	1.40	331.10	5,143.8	84.9	-15.7	-50.8	0.38	-0.31	7.92	
5,241.0	2.00	340.80	5,238.8	87.5	-16.8	-52.9	0.70	0.63	10.21	
5,336.0	2.10	349.00	5,333.7	90.8	-17.7	-55.2	0.33	0.11	8.63	
5,431.0	1.70	349.10	5,428.7	93.9	-18.3	-57.0	0.42	-0.42	0.11	
5,526.0	1.60	339.60	5,523.6	96.5	-19.0	-58.8	0.31	-0.11	-10.00	
5,621.0	2.40	348.60	5,618.6	99.7	-19.9	-61.0	0.90	0.84	9.47	
5,715.0	2.70	2.60	5,712.5	103.8	-20.2	-63.0	0.73	0.32	14.89	
5,810.0	2.50	3.30	5,807.4	108.1	-19.9	-64.7	0.21	-0.21	0.74	
5,905.0	2.30	0.40	5,902.3	112.1	-19.8	-66.3	0.25	-0.21	-3.05	
5,999.0	2.00	3.30	5,996.2	115.6	-19.7	-67.7	0.34	-0.32	3.09	
6,094.0	1.40	6.80	6,091.2	118.4	-19.5	-68.7	0.64	-0.63	3.68	
6,190.0	0.90	357.30	6,187.2	120.4	-19.4	-69.4	0.56	-0.52	-9.90	
6,285.0	2.20	328.10	6,282.1	122.7	-20.4	-71.3	1.56	1.37	-30.74	
6,380.0	1.70	312.60	6,377.1	125.2	-22.4	-74.2	0.76	-0.53	-16.32	
6,475.0	0.90	207.70	6,472.0	125.4	-23.7	-75.6	2.23	-0.84	-110.42	
6,570.0	2.30	313.10	6,567.0	126.1	-25.5	-77.4	2.82	1.47	110.95	
6,664.0	3.70	303.20	6,660.9	129.0	-29.4	-82.2	1.58	1.49	-10.53	
6,760.0	4.60	300.10	6,756.6	132.7	-35.3	-89.1	0.97	0.94	-3.23	
6,854.0	3.20	274.70	6,850.4	134.8	-41.2	-95.4	2.33	-1.49	-27.02	
6,949.0	1.90	309.30	6,945.3	136.0	-45.1	-99.4	2.06	-1.37	36.42	
7,044.0	3.80	351.00	7,040.2	140.1	-46.8	-102.7	2.84	2.00	43.89	
7,138.0	3.20	353.70	7,134.0	145.8	-47.5	-105.8	0.66	-0.64	2.87	
7,231.0	3.10	19.40	7,226.9	150.7	-47.0	-107.5	1.51	-0.11	27.63	
7,327.0	3.80	12.10	7,322.7	156.3	-45.5	-108.5	0.86	0.73	-7.60	
7,421.0	3.90	39.20	7,416.5	161.8	-42.8	-108.5	1.92	0.11	28.83	
7,515.0	3.30	33.40	7,510.3	166.6	-39.3	-107.4	0.75	-0.64	-6.17	
7,610.0	2.20	31.20	7,605.2	170.4	-36.8	-106.8	1.16	-1.16	-2.32	
7,705.0	1.80	41.80	7,700.2	173.1	-34.9	-106.2	0.57	-0.42	11.16	
7,705.1	1.80	41.80	7,700.3	173.1	-34.9	-106.2	0.00	0.00	0.00	
BB Hoss 2-11 B2BO Fed Com 2H										
7,782.0	1.80	34.80	7,777.1	175.0	-33.4	-105.7	0.29	0.00	-9.10	
7,799.0	1.80	35.20	7,794.1	175.4	-33.1	-105.6	0.07	0.00	2.35	



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7,831.0	1.80	28.30	7,826.1	176.3	-32.6	-105.5	0.68	0.00	-21.56	
7,863.0	1.20	127.00	7,858.1	176.5	-32.1	-105.1	7.22	-1.88	308.44	
7,894.0	5.60	165.20	7,889.0	174.8	-31.4	-103.8	15.21	14.19	123.23	
7,925.0	10.10	174.50	7,919.8	170.7	-30.8	-101.4	15.04	14.52	30.00	
7,957.0	13.00	174.50	7,951.1	164.3	-30.1	-98.1	9.06	9.06	0.00	
7,988.0	16.40	175.10	7,981.1	156.5	-29.4	-94.1	10.98	10.97	1.94	
8,020.0	20.50	178.70	8,011.4	146.3	-28.9	-89.3	13.29	12.81	11.25	
8,051.0	23.70	182.90	8,040.2	134.7	-29.1	-84.4	11.51	10.32	13.55	
8,083.0	24.90	187.10	8,069.3	121.6	-30.3	-79.8	6.57	3.75	13.13	
8,114.0	27.20	185.50	8,097.2	108.1	-31.8	-75.3	7.76	7.42	-5.16	
8,146.0	30.90	179.70	8,125.1	92.5	-32.4	-69.2	14.52	11.56	-18.13	
8,178.0	36.00	176.40	8,151.8	74.9	-31.8	-61.0	16.92	15.94	-10.31	
8,209.0	40.30	175.70	8,176.2	55.8	-30.5	-51.6	13.94	13.87	-2.26	
8,241.0	43.40	177.40	8,200.0	34.5	-29.2	-41.2	10.31	9.69	5.31	
8,272.0	47.60	179.10	8,221.8	12.4	-28.5	-31.1	14.10	13.55	5.48	
8,304.0	52.30	180.20	8,242.4	-12.1	-28.4	-20.4	14.92	14.69	3.44	
8,335.0	57.10	180.80	8,260.3	-37.3	-28.6	-9.7	15.56	15.48	1.94	
8,367.0	61.30	183.10	8,276.6	-64.8	-29.5	1.3	14.50	13.13	7.19	
8,398.0	65.30	183.50	8,290.6	-92.5	-31.1	11.8	12.95	12.90	1.29	
8,430.0	69.50	185.10	8,302.9	-121.9	-33.4	22.6	13.91	13.13	5.00	
8,461.0	74.40	186.10	8,312.5	-151.2	-36.2	32.6	16.10	15.81	3.23	
8,493.0	79.60	185.10	8,319.7	-182.2	-39.3	43.3	16.53	16.25	-3.13	
<u>8,525.0</u>	83.40	185.90	8,324.4	<u>-213.7</u>	<u>-42.3</u>	54.1	12.13	11.88	2.50	
8,556.0	88.80	185.10	8,326.5	-244.5	-45.3	64.8	17.61	17.42	-2.58	
8,570.0	91.30	184.60	8,326.5	-258.5	-46.5	69.7	18.21	17.86	-3.57	
8,635.0	93.60	185.60	8,323.7	-323.1	-52.2	92.5	3.86	3.54	1.54	
8,640.5	93.42	185.55	8,323.4	-328.6	-52.8	94.3	3.47	-3.37	-0.84	
LP Hoss 2-11 B2BO Fed Com 2H										
8,730.0	90.40	184.80	8,320.4	-417.7	-60.8	125.5	3.47	-3.37	-0.84	
8,825.0	89.00	184.20	8,320.9	-512.4	-68.3	159.7	1.60	-1.47	-0.63	
8,919.0	88.00	183.30	8,323.4	-606.2	-74.4	194.7	1.43	-1.06	-0.96	
9,015.0	89.50	182.80	8,325.4	-702.0	-79.5	231.4	1.65	1.56	-0.52	
9,110.0	90.30	183.50	8,325.6	-796.8	-84.8	267.7	1.12	0.84	0.74	
9,205.0	90.80	182.90	8,324.7	-891.7	-90.1	303.9	0.82	0.53	-0.63	
9,300.0	90.50	181.80	8,323.6	-986.6	-94.0	341.4	1.20	-0.32	-1.16	
9,395.0	89.30	179.20	8,323.8	-1,081.6	-94.8	381.6	3.01	-1.26	-2.74	
9,490.0	88.80	177.30	8,325.4	-1,176.5	-91.9	425.3	2.07	-0.53	-2.00	
9,586.0	91.70	177.70	8,324.9	-1,272.4	-87.7	470.4	3.05	3.02	0.42	
9,681.0	91.60	177.40	8,322.2	-1,367.3	-83.6	515.1	0.33	-0.11	-0.32	
9,777.0	91.20	176.50	8,319.9	-1,463.1	-78.5	561.1	1.03	-0.42	-0.94	
9,873.0	92.00	179.60	8,317.2	-1,559.0	-75.3	605.4	3.33	0.83	3.23	
9,968.0	92.00	179.10	8,313.9	-1,654.0	-74.2	647.4	0.53	0.00	-0.53	
10,063.0	90.20	177.80	8,312.0	-1,748.9	-71.6	690.7	2.34	-1.89	-1.37	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Hoss 2-11 B2BO Fed Com 2H
Project:	Eddy County, New Mexico	TVD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Site:	Section 2-11 -25S-28E Hoss 2-11 B2BO Fed Com 2H	MD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Well:	Hoss 2-11 B2BO Fed Com 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)	
10,158.0	90.40	179.60	8,311.5	-1,843.9	-69.5	733.7	1.91	0.21	1.89	
10,253.0	89.70	181.30	8,311.5	-1,938.9	-70.2	774.0	1.94	-0.74	1.79	
10,348.0	90.20	181.70	8,311.5	-2,033.8	-72.7	812.8	0.67	0.53	0.42	
10,443.0	89.30	181.10	8,312.0	-2,128.8	-75.0	851.7	1.14	-0.95	-0.63	
10,538.0	89.80	181.50	8,312.7	-2,223.8	-77.2	890.8	0.67	0.53	0.42	
10,633.0	89.80	180.70	8,313.0	-2,318.8	-79.0	930.2	0.84	0.00	-0.84	
10,727.0	90.20	180.50	8,313.0	-2,412.8	-80.0	969.9	0.48	0.43	-0.21	
10,823.0	90.50	180.70	8,312.5	-2,508.7	-81.0	1,010.5	0.38	0.31	0.21	
10,918.0	90.40	180.00	8,311.7	-2,603.7	-81.6	1,051.0	0.74	-0.11	-0.74	
11,013.0	91.10	179.20	8,310.5	-2,698.7	-80.9	1,092.6	1.12	0.74	-0.84	
11,107.0	89.20	179.30	8,310.2	-2,792.7	-79.7	1,134.3	2.02	-2.02	0.11	
11,203.0	90.10	179.00	8,310.8	-2,888.7	-78.3	1,177.0	0.99	0.94	-0.31	
11,299.0	88.40	177.50	8,312.1	-2,984.6	-75.3	1,221.1	2.36	-1.77	-1.56	
11,394.0	90.30	179.50	8,313.1	-3,079.6	-72.8	1,264.4	2.90	2.00	2.11	
11,489.0	90.20	179.60	8,312.7	-3,174.6	-72.1	1,306.1	0.15	-0.11	0.11	
11,585.0	90.00	179.20	8,312.6	-3,270.6	-71.1	1,348.4	0.47	-0.21	-0.42	
11,680.0	89.80	178.70	8,312.7	-3,365.6	-69.3	1,391.0	0.57	-0.21	-0.53	
11,776.0	89.60	178.70	8,313.2	-3,461.5	-67.2	1,434.4	0.21	-0.21	0.00	
11,871.0	90.60	180.60	8,313.1	-3,556.5	-66.6	1,476.0	2.26	1.05	2.00	
11,966.0	87.70	178.50	8,314.5	-3,651.5	-65.8	1,517.7	3.77	-3.05	-2.21	
12,062.0	92.30	180.40	8,314.5	-3,747.5	-64.9	1,559.9	5.18	4.79	1.98	
12,158.0	88.80	178.00	8,313.5	-3,843.4	-63.6	1,602.6	4.42	-3.65	-2.50	
12,253.0	90.20	179.40	8,314.4	-3,938.4	-61.4	1,645.6	2.08	1.47	1.47	
12,349.0	87.60	178.80	8,316.2	-4,034.4	-59.9	1,688.4	2.78	-2.71	-0.63	
12,444.0	88.20	178.70	8,319.7	-4,129.3	-57.8	1,731.2	0.64	0.63	-0.11	
12,540.0	90.80	179.60	8,320.5	-4,225.3	-56.4	1,774.0	2.87	2.71	0.94	
12,635.0	90.30	180.20	8,319.6	-4,320.2	-56.3	1,815.1	0.82	-0.53	0.63	
12,730.0	91.90	180.70	8,317.8	-4,415.2	-57.0	1,855.5	1.76	1.68	0.53	
12,825.0	91.70	180.60	8,314.8	-4,510.2	-58.1	1,895.5	0.24	-0.21	-0.11	
12,921.0	91.40	180.60	8,312.2	-4,606.1	-59.1	1,936.1	0.31	-0.31	0.00	
13,016.0	91.10	180.30	8,310.1	-4,701.1	-59.8	1,976.4	0.45	-0.32	-0.32	
13,111.0	89.90	179.00	8,309.3	-4,796.1	-59.3	2,018.0	1.86	-1.26	-1.37	
13,206.0	89.40	178.90	8,309.9	-4,891.1	-57.5	2,060.5	0.54	-0.53	-0.11	
13,301.0	90.70	180.70	8,309.8	-4,986.1	-57.2	2,101.9	2.34	1.37	1.89	
13,397.0	90.80	180.50	8,308.6	-5,082.1	-58.2	2,142.4	0.23	0.10	-0.21	
13,492.0	89.50	179.70	8,308.3	-5,177.1	-58.4	2,183.3	1.61	-1.37	-0.84	
13,588.0	92.60	181.40	8,306.6	-5,273.0	-59.3	2,223.9	3.68	3.23	1.77	
13,683.0	90.70	180.80	8,303.8	-5,368.0	-61.1	2,263.3	2.10	-2.00	-0.63	
13,778.0	89.40	181.60	8,303.7	-5,462.9	-63.1	2,302.5	1.61	-1.37	0.84	
13,874.0	91.20	181.90	8,303.2	-5,558.9	-66.0	2,341.3	1.90	1.88	0.31	
13,970.0	88.90	181.10	8,303.1	-5,654.8	-68.5	2,380.5	2.54	-2.40	-0.83	
14,064.0	88.60	180.60	8,305.2	-5,748.8	-69.9	2,419.8	0.62	-0.32	-0.53	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Hoss 2-11 B2BO Fed Com 2H
Project:	Eddy County, New Mexico	TVD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Site:	Section 2-11 -25S-28E Hoss 2-11 B2BO Fed Com 2H	MD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Well:	Hoss 2-11 B2BO Fed Com 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)
14,160.0	88.00	180.10	8,308.0	-5,844.8	-70.5	2,460.7	0.81	-0.63	-0.52
14,256.0	87.80	180.00	8,311.6	-5,940.7	-70.6	2,502.1	0.23	-0.21	-0.10
14,351.0	88.70	179.50	8,314.5	-6,035.7	-70.2	2,543.5	1.08	0.95	-0.53
14,446.0	88.20	178.30	8,317.0	-6,130.6	-68.4	2,586.1	1.37	-0.53	-1.26
14,541.0	89.90	178.80	8,318.6	-6,225.6	-66.0	2,629.3	1.87	1.79	0.53
14,633.0	89.90	179.40	8,318.8	-6,317.5	-64.5	2,670.3	0.65	0.00	0.65
14,729.0	90.40	178.00	8,318.5	-6,413.5	-62.3	2,713.7	1.55	0.52	-1.46
14,825.0	91.30	181.50	8,317.1	-6,509.5	-61.9	2,755.6	3.76	0.94	3.65
14,920.0	91.90	182.70	8,314.4	-6,604.4	-65.4	2,793.4	1.41	0.63	1.26
15,015.0	90.60	182.00	8,312.4	-6,699.3	-69.3	2,830.9	1.55	-1.37	-0.74
15,110.0	88.90	177.50	8,312.8	-6,794.2	-68.9	2,872.3	5.06	-1.79	-4.74
15,206.0	88.90	175.90	8,314.6	-6,890.1	-63.3	2,918.6	1.67	0.00	-1.67
15,301.0	89.10	172.20	8,316.3	-6,984.5	-53.5	2,968.3	3.90	0.21	-3.89
15,396.0	91.00	176.70	8,316.2	-7,079.1	-44.3	3,017.4	5.14	2.00	4.74
15,492.0	91.20	176.00	8,314.4	-7,174.8	-38.2	3,064.3	0.76	0.21	-0.73
15,586.0	92.50	177.20	8,311.3	-7,268.6	-32.6	3,109.8	1.88	1.38	1.28
15,682.0	92.00	177.60	8,307.6	-7,364.4	-28.3	3,155.1	0.67	-0.52	0.42
15,777.0	87.60	176.80	8,307.9	-7,459.3	-23.6	3,200.3	4.71	-4.63	-0.84
15,872.0	87.20	177.60	8,312.2	-7,554.1	-19.0	3,245.4	0.94	-0.42	0.84
15,967.0	89.00	177.50	8,315.3	-7,649.0	-14.9	3,290.0	1.90	1.89	-0.11
16,062.0	91.00	180.30	8,315.3	-7,743.9	-13.1	3,332.7	3.62	2.11	2.95
16,157.0	91.90	180.30	8,312.9	-7,838.9	-13.6	3,373.3	0.95	0.95	0.00
16,252.0	91.90	180.90	8,309.8	-7,933.8	-14.6	3,413.4	0.63	0.00	0.63
16,347.0	91.50	181.60	8,307.0	-8,028.8	-16.7	3,452.5	0.85	-0.42	0.74
16,443.0	88.80	180.90	8,306.7	-8,124.7	-18.8	3,492.1	2.91	-2.81	-0.73
16,538.0	89.20	180.20	8,308.4	-8,219.7	-19.7	3,532.3	0.85	0.42	-0.74
16,634.0	89.30	179.90	8,309.6	-8,315.7	-19.8	3,573.6	0.33	0.10	-0.31
16,725.0	89.40	179.60	8,310.7	-8,406.7	-19.4	3,613.3	0.35	0.11	-0.33
16,822.0	89.10	179.10	8,311.9	-8,503.7	-18.3	3,656.2	0.60	-0.31	-0.52
16,916.0	90.10	180.20	8,312.6	-8,597.7	-17.7	3,697.3	1.58	1.06	1.17
17,010.0	89.60	179.20	8,312.8	-8,691.7	-17.2	3,738.3	1.19	-0.53	-1.06
17,105.0	88.40	179.60	8,314.5	-8,786.7	-16.2	3,780.3	1.33	-1.26	0.42
17,199.0	88.90	181.20	8,316.7	-8,880.6	-16.9	3,820.2	1.78	0.53	1.70
17,293.0	91.00	180.90	8,316.8	-8,974.6	-18.6	3,859.3	2.26	2.23	-0.32
17,387.0	90.90	180.50	8,315.2	-9,068.6	-19.7	3,898.8	0.44	-0.11	-0.43
17,480.0	90.60	179.80	8,314.0	-9,161.6	-20.0	3,938.8	0.82	-0.32	-0.75
17,575.0	90.50	179.50	8,313.1	-9,256.6	-19.4	3,980.3	0.33	-0.11	-0.32
17,669.0	90.20	179.00	8,312.5	-9,350.6	-18.2	4,022.0	0.62	-0.32	-0.53
17,763.0	89.50	178.30	8,312.8	-9,444.5	-16.0	4,064.6	1.05	-0.74	-0.74
17,857.0	89.80	178.90	8,313.4	-9,538.5	-13.7	4,107.3	0.71	0.32	0.64
17,951.0	89.30	178.40	8,314.1	-9,632.5	-11.5	4,149.8	0.75	-0.53	-0.53
18,045.0	91.00	178.40	8,313.8	-9,726.4	-8.8	4,192.8	1.81	1.81	0.00
18,139.0	91.30	178.40	8,312.0	-9,820.4	-6.2	4,235.7	0.32	0.32	0.00



Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Hoss 2-11 B2BO Fed Com 2H
Project:	Eddy County, New Mexico	TVD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Site:	Section 2-11 -25S-28E Hoss 2-11 B2BO Fed Com 2H	MD Reference:	2957 + 27 @ 2984.0usft (Patterson 245)
Well:	Hoss 2-11 B2BO Fed Com 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)
18,233.0	90.90	177.70	8,310.2	-9,914.3	-3.0	4,279.2	0.86	-0.43	-0.74
18,322.0	90.10	176.90	8,309.4	-10,003.2	1.2	4,321.4	1.27	-0.90	-0.90
18,370.0	90.10	176.90	8,309.3	-10,051.1	3.8	4,344.4	0.00	0.00	0.00

18370' MD Projected to Bit - PBHL Hoss 2-11 B2BO Fed Com 2H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
462.0	461.9	-3.4	6.2	462' MD Rig Survey
18,370.0	8,309.3	-10,051.1	3.8	18370' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Hoss 2-11 B2BO Fed Com 2H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON US)
 RIG: Patterson 245



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.04°

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	586370.20	32° 9' 57.144 N	104° 3' 15.163 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	2655.0	0.00	0.00	2655.0	0.0	0.0	0.00	0.00	0.0	
3	2757.2	2.04	352.51	2757.2	1.8	-0.2	2.00	352.51	-1.8	
4	7600.9	2.04	352.51	7597.8	173.1	-22.8	0.00	0.00	-173.1	
5	7703.1	0.00	0.00	7700.0	174.9	-23.0	2.00	180.00	-174.9	BB Hoss 2-11 B2BO Fed Com 2H
6	7873.0	0.00	0.00	7869.8	174.9	-23.0	0.00	0.00	-174.9	
7	8627.6	90.58	182.69	8347.2	-306.7	-45.7	12.00	182.69	306.7	
8	8650.9	90.19	179.93	8347.0	-330.0	-46.2	11.96	-97.97	330.0	LP Hoss 2-11 B2BO Fed Com 2H
9	11394.2	90.19	179.66	8338.0	-3073.3	-36.3	0.01	-90.00	3073.3	
10	18377.4	90.19	179.66	8315.0	-10056.3	5.5	0.00	0.00	10056.3	PBHL Hoss 2-11 B2BO Fed Com 2H

T G M
 Azimuths to Grid North
 True North: -0.15°
 Magnetic North: 7.04°

Magnetic Field
 Strength: 47869.8snT
 Dip Angle: 59.93°
 Date: 4/26/2017
 Model: IGRF2015

SHL: 185' FNL; 1650' FEL
 Section 2-25S-28E
 PBHL: 330' FSL; 1654' FEL
 Section 11-25S-28E

