



NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 16 2017

July 13, 2017

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
Hoss 2 11 B2BO Federal Com #002H
San Lorenzo; Bone Spring, North
Eddy County, New Mexico
API# 30-015-44152

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	516ft. to 18,322ft.	05-16-17 to 06-08-17	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 B2BO Fed Com #2H\M171035

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



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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 May 16, 2017, through June 08, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 516 feet to a depth of 18,322 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 B2BO Federal Com #002H well, API # **30-015-44152** 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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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 2-11 -25S-28E Hoss 2-11 B2BO Fed Cor
Well: Hoss 2-11 B2BO Fed Com 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 B2BO Fed Com 2H
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)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/26/2017	7.19	59.93	47,869.77346149

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	115.59



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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

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
257.0	1.60	131.00	257.0	-2.4	2.7	3.6	131.00
318.0	1.30	106.00	317.9	-3.1	4.0	5.1	127.70
380.0	0.40	93.00	379.9	-3.3	4.9	5.9	123.98
462.0	1.40	93.00	461.9	-3.4	6.2	7.1	118.59 Tie-In
462' MD Rig Survey							
516.0	1.40	110.80	515.9	-3.6	7.5	8.3	116.01
578.0	0.50	116.00	577.9	-4.0	8.4	9.3	115.59
640.0	0.40	81.10	639.9	-4.1	8.9	9.8	114.88
703.0	0.10	323.00	702.9	-4.0	9.1	9.9	114.03
765.0	0.10	155.40	764.9	-4.0	9.1	9.9	114.08
832.0	0.30	172.00	831.9	-4.3	9.1	10.1	115.15
895.0	0.40	183.20	894.9	-4.7	9.1	10.2	117.06
958.0	0.50	211.40	957.9	-5.1	9.0	10.3	119.71
1,022.0	0.70	224.50	1,021.9	-5.6	8.5	10.2	123.39
1,085.0	0.60	221.30	1,084.9	-6.1	8.0	10.1	127.38
1,149.0	0.50	242.40	1,148.9	-6.5	7.6	10.0	130.74
1,212.0	0.50	261.80	1,211.9	-6.7	7.1	9.7	133.47
1,275.0	0.70	269.20	1,274.9	-6.7	6.4	9.3	136.45
1,339.0	0.70	265.40	1,338.9	-6.8	5.6	8.8	140.30
1,402.0	0.70	264.80	1,401.9	-6.8	4.9	8.4	144.62



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1,466.0	0.70	271.80	1,465.9	-6.9	4.1	8.0	149.29
1,529.0	0.50	263.10	1,528.9	-6.9	3.4	7.7	153.59
1,593.0	0.50	254.20	1,592.9	-7.0	2.9	7.6	157.66
1,656.0	0.50	251.60	1,655.9	-7.2	2.4	7.5	161.82
1,720.0	0.40	240.20	1,719.9	-7.4	1.9	7.6	165.58
1,783.0	0.60	239.80	1,782.9	-7.6	1.4	7.8	169.49
1,815.0	0.50	242.50	1,814.9	-7.8	1.1	7.9	171.61
1,912.0	0.70	122.00	1,911.9	-8.3	1.3	8.4	171.26
2,007.0	2.10	120.50	2,006.8	-9.5	3.3	10.0	160.99
2,103.0	0.70	62.80	2,102.8	-10.1	5.3	11.4	152.32
2,197.0	1.10	45.20	2,196.8	-9.2	6.5	11.2	144.98
2,292.0	0.80	318.30	2,291.8	-8.1	6.7	10.5	140.48
2,387.0	0.60	290.50	2,386.8	-7.4	5.8	9.4	142.15
2,483.0	0.10	226.90	2,482.8	-7.3	5.2	9.0	144.37
2,570.0	0.40	302.10	2,569.8	-7.2	4.9	8.7	145.62
2,664.0	0.50	290.50	2,663.8	-6.9	4.2	8.1	148.23
2,760.0	2.20	353.80	2,759.7	-4.9	3.7	6.1	143.16
2,856.0	2.50	356.60	2,855.7	-1.0	3.3	3.5	106.03
2,951.0	2.20	350.50	2,950.6	2.9	2.9	4.1	45.00
3,047.0	2.30	346.60	3,046.5	6.6	2.2	6.9	18.11
3,143.0	2.00	342.70	3,142.4	10.1	1.2	10.1	6.87
3,237.0	2.60	16.80	3,236.4	13.7	1.3	13.7	5.60
3,333.0	3.00	9.10	3,332.2	18.2	2.4	18.4	7.40
3,428.0	3.10	352.50	3,427.1	23.2	2.4	23.4	5.96
3,524.0	2.80	340.40	3,523.0	27.9	1.4	27.9	2.79
3,619.0	2.20	344.50	3,617.9	31.7	0.1	31.7	0.27
3,714.0	2.10	336.30	3,712.8	35.0	-1.0	35.0	358.30



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3,809.0	1.70	357.90	3,807.8	38.0	-1.8	38.1	357.30
3,904.0	1.60	357.00	3,902.8	40.7	-1.9	40.8	357.31
4,000.0	2.00	356.00	3,998.7	43.8	-2.1	43.8	357.25
4,095.0	1.80	341.20	4,093.7	46.8	-2.7	46.9	356.71
4,191.0	1.70	342.60	4,189.6	49.6	-3.6	49.7	355.84
4,287.0	1.60	351.20	4,285.6	52.3	-4.2	52.5	355.37
4,383.0	2.80	349.80	4,381.5	55.9	-4.9	56.1	355.03
4,479.0	2.90	354.90	4,477.4	60.6	-5.5	60.9	354.83
4,574.0	2.80	350.10	4,572.3	65.3	-6.1	65.6	354.66
4,669.0	2.80	351.50	4,667.1	69.9	-6.8	70.2	354.41
4,765.0	2.70	328.00	4,763.0	74.1	-8.4	74.6	353.55
4,859.0	2.20	324.10	4,857.0	77.5	-10.6	78.2	352.20
4,955.0	1.90	326.60	4,952.9	80.3	-12.6	81.3	351.10
5,050.0	1.70	323.50	5,047.8	82.8	-14.3	84.0	350.21
5,146.0	1.40	331.10	5,143.8	84.9	-15.7	86.4	349.53
5,241.0	2.00	340.80	5,238.8	87.5	-16.8	89.1	349.13
5,336.0	2.10	349.00	5,333.7	90.8	-17.7	92.5	348.98
5,431.0	1.70	349.10	5,428.7	93.9	-18.3	95.6	348.98
5,526.0	1.60	339.60	5,523.6	96.5	-19.0	98.4	348.86
5,621.0	2.40	348.60	5,618.6	99.7	-19.9	101.7	348.73
5,715.0	2.70	2.60	5,712.5	103.8	-20.2	105.8	349.02
5,810.0	2.50	3.30	5,807.4	108.1	-19.9	110.0	349.56
5,905.0	2.30	0.40	5,902.3	112.1	-19.8	113.8	349.99
5,999.0	2.00	3.30	5,996.2	115.6	-19.7	117.3	350.34
6,094.0	1.40	6.80	6,091.2	118.4	-19.5	120.0	350.67
6,190.0	0.90	357.30	6,187.2	120.4	-19.4	121.9	350.87
6,285.0	2.20	328.10	6,282.1	122.7	-20.4	124.3	350.58



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6,380.0	1.70	312.60	6,377.1	125.2	-22.4	127.1	349.87
6,475.0	0.90	207.70	6,472.0	125.4	-23.7	127.7	349.29
6,570.0	2.30	313.10	6,567.0	126.1	-25.5	128.6	348.58
6,664.0	3.70	303.20	6,660.9	129.0	-29.4	132.3	347.17
6,760.0	4.60	300.10	6,756.6	132.7	-35.3	137.3	345.09
6,854.0	3.20	274.70	6,850.4	134.8	-41.2	140.9	343.01
6,949.0	1.90	309.30	6,945.3	136.0	-45.1	143.3	341.67
7,044.0	3.80	351.00	7,040.2	140.1	-46.8	147.7	341.54
7,138.0	3.20	353.70	7,134.0	145.8	-47.5	153.3	341.94
7,231.0	3.10	19.40	7,226.9	150.7	-47.0	157.9	342.69
7,327.0	3.80	12.10	7,322.7	156.3	-45.5	162.8	343.78
7,421.0	3.90	39.20	7,416.5	161.8	-42.8	167.4	345.19
7,515.0	3.30	33.40	7,510.3	166.6	-39.3	171.1	346.73
7,610.0	2.20	31.20	7,605.2	170.4	-36.8	174.3	347.80
7,705.0	1.80	41.80	7,700.2	173.1	-34.9	176.5	348.60
7,705.1	1.80	41.80	7,700.3	173.1	-34.9	176.5	348.60
BB Hoss 2-11 B2BO Fed Com 2H							
7,782.0	1.80	34.80	7,777.1	175.0	-33.4	178.1	349.20
7,799.0	1.80	35.20	7,794.1	175.4	-33.1	178.5	349.32
7,831.0	1.80	28.30	7,826.1	176.3	-32.6	179.2	349.53
7,863.0	1.20	127.00	7,858.1	176.5	-32.1	179.4	349.71
7,894.0	5.60	165.20	7,889.0	174.8	-31.4	177.6	349.82
7,925.0	10.10	174.50	7,919.8	170.7	-30.8	173.4	349.78
7,957.0	13.00	174.50	7,951.1	164.3	-30.1	167.0	349.60
7,988.0	16.40	175.10	7,981.1	156.5	-29.4	159.2	349.34
8,020.0	20.50	178.70	8,011.4	146.3	-28.9	149.2	348.82
8,051.0	23.70	182.90	8,040.2	134.7	-29.1	137.8	347.80



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8,083.0	24.90	187.10	8,069.3	121.6	-30.3	125.3	346.02
8,114.0	27.20	185.50	8,097.2	108.1	-31.8	112.6	343.62
8,146.0	30.90	179.70	8,125.1	92.5	-32.4	98.1	340.70
8,178.0	36.00	176.40	8,151.8	74.9	-31.8	81.4	337.02
8,209.0	40.30	175.70	8,176.2	55.8	-30.5	63.6	331.39
8,241.0	43.40	177.40	8,200.0	34.5	-29.2	45.2	319.79
8,272.0	47.60	179.10	8,221.8	12.4	-28.5	31.1	293.55
8,304.0	52.30	180.20	8,242.4	-12.1	-28.4	30.8	248.98
8,335.0	57.10	180.80	8,260.3	-37.3	-28.6	47.0	217.45
8,367.0	61.30	183.10	8,276.6	-64.8	-29.5	71.2	204.51
8,398.0	65.30	183.50	8,290.6	-92.5	-31.1	97.6	198.62
8,430.0	69.50	185.10	8,302.9	-121.9	-33.4	126.4	195.31
8,461.0	74.40	186.10	8,312.5	-151.2	-36.2	155.5	193.48
8,493.0	79.60	185.10	8,319.7	-182.2	-39.3	186.4	192.16
8,525.0	83.40	185.90	8,324.4	-213.7	-42.3	217.9	191.20
8,556.0	88.80	185.10	8,326.5	-244.5	-45.3	248.7	190.49
8,570.0	91.30	184.60	8,326.5	-258.5	-46.5	262.6	190.19
8,635.0	93.60	185.60	8,323.7	-323.1	-52.2	327.3	189.18
8,640.5	93.42	185.55	8,323.4	-328.6	-52.8	332.8	189.12
LP Hoss 2-11 B2BO Fed Com 2H							
8,730.0	90.40	184.80	8,320.4	-417.7	-60.8	422.1	188.29
8,825.0	89.00	184.20	8,320.9	-512.4	-68.3	516.9	187.59
8,919.0	88.00	183.30	8,323.4	-606.2	-74.4	610.7	187.00
9,015.0	89.50	182.80	8,325.4	-702.0	-79.5	706.5	186.46
9,110.0	90.30	183.50	8,325.6	-796.8	-84.8	801.3	186.07
9,205.0	90.80	182.90	8,324.7	-891.7	-90.1	896.2	185.77
9,300.0	90.50	181.80	8,323.6	-986.6	-94.0	991.1	185.44



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9,395.0	89.30	179.20	8,323.8	-1,081.6	-94.8	1,085.7	185.01
9,490.0	88.80	177.30	8,325.4	-1,176.5	-91.9	1,180.1	184.47
9,586.0	91.70	177.70	8,324.9	-1,272.4	-87.7	1,275.4	183.94
9,681.0	91.60	177.40	8,322.2	-1,367.3	-83.6	1,369.9	183.50
9,777.0	91.20	176.50	8,319.9	-1,463.1	-78.5	1,465.2	183.07
9,873.0	92.00	179.60	8,317.2	-1,559.0	-75.3	1,560.8	182.76
9,968.0	92.00	179.10	8,313.9	-1,654.0	-74.2	1,655.6	182.57
10,063.0	90.20	177.80	8,312.0	-1,748.9	-71.6	1,750.4	182.35
10,158.0	90.40	179.60	8,311.5	-1,843.9	-69.5	1,845.2	182.16
10,253.0	89.70	181.30	8,311.5	-1,938.9	-70.2	1,940.1	182.07
10,348.0	90.20	181.70	8,311.5	-2,033.8	-72.7	2,035.1	182.05
10,443.0	89.30	181.10	8,312.0	-2,128.8	-75.0	2,130.1	182.02
10,538.0	89.80	181.50	8,312.7	-2,223.8	-77.2	2,225.1	181.99
10,633.0	89.80	180.70	8,313.0	-2,318.8	-79.0	2,320.1	181.95
10,727.0	90.20	180.50	8,313.0	-2,412.8	-80.0	2,414.1	181.90
10,823.0	90.50	180.70	8,312.5	-2,508.7	-81.0	2,510.1	181.85
10,918.0	90.40	180.00	8,311.7	-2,603.7	-81.6	2,605.0	181.79
11,013.0	91.10	179.20	8,310.5	-2,698.7	-80.9	2,699.9	181.72
11,107.0	89.20	179.30	8,310.2	-2,792.7	-79.7	2,793.9	181.63
11,203.0	90.10	179.00	8,310.8	-2,888.7	-78.3	2,889.8	181.55
11,299.0	88.40	177.50	8,312.1	-2,984.6	-75.3	2,985.6	181.45
11,394.0	90.30	179.50	8,313.1	-3,079.6	-72.8	3,080.5	181.35
11,489.0	90.20	179.60	8,312.7	-3,174.6	-72.1	3,175.4	181.30
11,585.0	90.00	179.20	8,312.6	-3,270.6	-71.1	3,271.4	181.25
11,680.0	89.80	178.70	8,312.7	-3,365.6	-69.3	3,366.3	181.18
11,776.0	89.60	178.70	8,313.2	-3,461.5	-67.2	3,462.2	181.11
11,871.0	90.60	180.60	8,313.1	-3,556.5	-66.6	3,557.2	181.07



Microsoft
MWD Surveys



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Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Hoss 2-11 B2BO Fed Com 2H
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 (°)
11,966.0	87.70	178.50	8,314.5	-3,651.5	-65.8	3,652.1	181.03
12,062.0	92.30	180.40	8,314.5	-3,747.5	-64.9	3,748.0	180.99
12,158.0	88.80	178.00	8,313.5	-3,843.4	-63.6	3,844.0	180.95
12,253.0	90.20	179.40	8,314.4	-3,938.4	-61.4	3,938.9	180.89
12,349.0	87.60	178.80	8,316.2	-4,034.4	-59.9	4,034.8	180.85
12,444.0	88.20	178.70	8,319.7	-4,129.3	-57.8	4,129.7	180.80
12,540.0	90.80	179.60	8,320.5	-4,225.3	-56.4	4,225.6	180.77
12,635.0	90.30	180.20	8,319.6	-4,320.3	-56.3	4,320.6	180.75
12,730.0	91.90	180.70	8,317.8	-4,415.2	-57.0	4,415.6	180.74
12,825.0	91.70	180.60	8,314.8	-4,510.2	-58.1	4,510.5	180.74
12,921.0	91.40	180.60	8,312.2	-4,606.1	-59.1	4,606.5	180.73
13,016.0	91.10	180.30	8,310.1	-4,701.1	-59.8	4,701.5	180.73
13,111.0	89.90	179.00	8,309.3	-4,796.1	-59.3	4,796.5	180.71
13,206.0	89.40	178.90	8,309.9	-4,891.1	-57.5	4,891.4	180.67
13,301.0	90.70	180.70	8,308.8	-4,986.1	-57.2	4,986.4	180.66
13,397.0	90.80	180.50	8,308.6	-5,082.1	-58.2	5,082.4	180.66
13,492.0	89.50	179.70	8,308.3	-5,177.1	-58.4	5,177.4	180.65
13,588.0	92.60	181.40	8,306.6	-5,273.0	-59.3	5,273.4	180.64
13,683.0	90.70	180.80	8,303.8	-5,368.0	-61.1	5,368.3	180.65
13,778.0	89.40	181.60	8,303.7	-5,462.9	-63.1	5,463.3	180.66
13,874.0	91.20	181.90	8,303.2	-5,558.9	-66.0	5,559.3	180.66
13,970.0	88.90	181.10	8,303.1	-5,654.8	-68.5	5,655.3	180.69
14,064.0	88.60	180.60	8,305.2	-5,748.8	-69.9	5,749.2	180.70
14,160.0	88.00	180.10	8,308.0	-5,844.8	-70.5	5,845.2	180.69
14,256.0	87.80	180.00	8,311.6	-5,940.7	-70.6	5,941.1	180.68
14,351.0	88.70	179.50	8,314.5	-6,035.7	-70.2	6,036.1	180.67
14,446.0	88.20	178.30	8,317.0	-6,130.6	-68.4	6,131.0	180.64



Microsoft
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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 (°)
14,541.0	89.90	178.80	8,318.6	-6,225.6	-66.0	6,225.9	180.61
14,633.0	89.90	179.40	8,318.8	-6,317.5	-64.5	6,317.9	180.59
14,729.0	90.40	178.00	8,318.5	-6,413.5	-62.3	6,413.8	180.56
14,825.0	91.30	181.50	8,317.1	-6,509.5	-61.9	6,509.8	180.54
14,920.0	91.90	182.70	8,314.4	-6,604.4	-65.4	6,604.7	180.57
15,015.0	90.60	182.00	8,312.4	-6,699.3	-69.3	6,699.6	180.59
15,110.0	88.90	177.50	8,312.8	-6,794.2	-68.9	6,794.6	180.58
15,206.0	88.90	175.90	8,314.6	-6,890.1	-63.3	6,890.4	180.53
15,301.0	89.10	172.20	8,316.3	-6,984.5	-53.5	6,984.7	180.44
15,396.0	91.00	176.70	8,316.2	-7,079.1	-44.3	7,079.2	180.36
15,492.0	91.20	176.00	8,314.4	-7,174.8	-38.2	7,174.9	180.31
15,586.0	92.50	177.20	8,311.3	-7,268.6	-32.6	7,268.7	180.26
15,682.0	92.00	177.60	8,307.6	-7,364.4	-28.3	7,364.5	180.22
15,777.0	87.60	176.80	8,307.9	-7,459.3	-23.6	7,459.3	180.18
15,872.0	87.20	177.60	8,312.2	-7,554.1	-19.0	7,554.1	180.14
15,967.0	89.00	177.50	8,315.3	-7,649.0	-14.9	7,649.0	180.11
16,062.0	91.00	180.30	8,315.3	-7,743.9	-13.1	7,743.9	180.10
16,157.0	91.90	180.30	8,312.9	-7,838.9	-13.6	7,838.9	180.10
16,252.0	91.90	180.90	8,309.8	-7,933.8	-14.6	7,933.8	180.11
16,347.0	91.50	181.60	8,307.0	-8,028.8	-16.7	8,028.8	180.12
16,443.0	88.80	180.90	8,306.7	-8,124.7	-18.8	8,124.8	180.13
16,538.0	89.20	180.20	8,308.4	-8,219.7	-19.7	8,219.7	180.14
16,634.0	89.30	179.90	8,309.6	-8,315.7	-19.8	8,315.7	180.14
16,725.0	89.40	179.60	8,310.7	-8,406.7	-19.4	8,406.7	180.13
16,822.0	89.10	179.10	8,311.9	-8,503.7	-18.3	8,503.7	180.12
16,916.0	90.10	180.20	8,312.6	-8,597.7	-17.7	8,597.7	180.12
17,010.0	89.60	179.20	8,312.8	-8,691.7	-17.2	8,691.7	180.11



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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 (°)
17,105.0	88.40	179.60	8,314.5	-8,786.7	-16.2	8,786.7	180.11
17,199.0	88.90	181.20	8,316.7	-8,880.6	-16.9	8,880.6	180.11
17,293.0	91.00	180.90	8,316.8	-8,974.6	-18.6	8,974.6	180.12
17,387.0	90.90	180.50	8,315.2	-9,068.6	-19.7	9,068.6	180.12
17,480.0	90.60	179.80	8,314.0	-9,161.6	-20.0	9,161.6	180.12
17,575.0	90.50	179.50	8,313.1	-9,256.6	-19.4	9,256.6	180.12
17,669.0	90.20	179.00	8,312.5	-9,350.6	-18.2	9,350.6	180.11
17,763.0	89.50	178.30	8,312.8	-9,444.5	-16.0	9,444.5	180.10
17,857.0	89.80	178.90	8,313.4	-9,538.5	-13.7	9,538.5	180.08
17,951.0	89.30	178.40	8,314.1	-9,632.5	-11.5	9,632.5	180.07
18,045.0	91.00	178.40	8,313.8	-9,726.4	-8.8	9,726.4	180.05
18,139.0	91.30	178.40	8,312.0	-9,820.4	-6.2	9,820.4	180.04
18,233.0	90.90	177.70	8,310.2	-9,914.3	-3.0	9,914.3	180.02
18,322.0	90.10	176.90	8,309.4	-10,003.2	1.2	10,003.2	179.99
18,370.0	90.10	176.90	8,309.3	-10,051.1	3.8	10,051.1	179.98

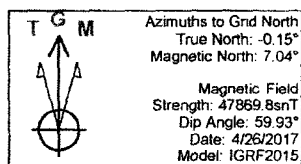
18370' MD Projected to Bit - PBHL Hoss 2-11 B2BO Fed Com 2H

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

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

GEODETIC ZONE: New Mexico East 3001 2957 + 27 @ 2984.0ustf (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	Dieg	TFace	V Sect	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	0.00	0.00	0.0	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 Corn 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 Corn 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 Corn 2H		



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

