



April 2, 2018

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

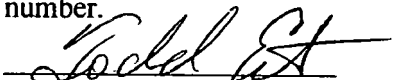
Re: Mewbourne Oil Company
Fuller 14 11 W2HA Federal #003H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico

~~API# 30-015-4400~~

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>
Matt Kiel	Original Hole	693ft. to 18,614ft.	01-19-18 to 02-14-18	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\Fuller 14 11 W2HA Federal #3HM181002

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



April 2, 2018

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 January 19, 2018, through February 14, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 693 feet to a depth of 18,614 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 Fuller 14 11 W2HA Federal #003H well, API # **30-015-44601** 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, N.M. Nad (83)
Site: Section 14-11- 26S-29E Fuller 14-11 W2HA 3H
Well: Fuller 14-11 W2HA Fed #3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W2HA Fed #3H
TVD Reference: 2949 + 27 @ 2976.0usft (Patterson # 250)
MD Reference: 2949 + 27 @ 2976.0usft (Patterson # 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 14-11- 26S-29E Fuller 14-11 W2HA 3H		
Site Position:		Northing:	379,385.90 usft
From:	Map	Easting:	661,058.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 32.723 N
		Longitude:	103° 56' 49.029 W
		Grid Convergence:	0.21 °

Well	Fuller 14-11 W2HA Fed #3H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft
		Latitude:	32° 2' 32.723 N
		Longitude:	103° 56' 49.029 W
		Ground Level:	2,949.0 usft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	11/8/2017	(°)
			7.07
			Dip Angle
			(°)
			59.83
			Field Strength
			(nT)
			47,753.07602661

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			268.42

Survey Program	Date 2/14/2018		
From	To		
(usft)	(usft)	Survey (Wellbore)	Tool Name
693.0	18,665.0	MWD Survey (Original Hole)	MWD
			Description
			MWD v3:standard declination



Microsoft
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
612.0	1.71	240.07	611.9	-0.3	-9.8	9.8	268.42	Tie-In
693.0	1.50	219.00	692.8	-1.7	-11.5	11.6	261.60	
755.0	0.70	229.60	754.8	-2.6	-12.3	12.6	258.17	
846.0	0.50	81.80	845.8	-2.9	-12.3	12.6	256.85	
907.0	0.30	37.50	906.8	-2.7	-12.0	12.3	257.22	
968.0	0.20	31.60	967.8	-2.5	-11.8	12.1	258.06	
1,030.0	0.40	17.80	1,029.8	-2.2	-11.7	11.9	259.35	
1,096.0	0.60	296.00	1,095.8	-1.8	-11.9	12.1	261.29	
1,159.0	0.80	306.90	1,158.8	-1.4	-12.6	12.6	263.57	
1,223.0	1.00	327.10	1,222.8	-0.7	-13.2	13.2	267.06	
1,286.0	0.40	271.90	1,285.8	-0.2	-13.7	13.7	269.12	
1,350.0	1.20	194.30	1,349.8	-0.9	-14.1	14.2	266.55	
1,413.0	1.50	174.00	1,412.8	-2.3	-14.2	14.4	260.76	
1,477.0	1.60	138.60	1,476.8	-3.8	-13.5	14.1	254.25	
1,540.0	1.50	137.40	1,539.7	-5.1	-12.4	13.4	247.70	
1,604.0	1.90	141.00	1,603.7	-6.5	-11.2	12.9	239.69	
1,667.0	1.20	95.90	1,666.7	-7.4	-9.8	12.3	233.06	
1,730.0	1.90	51.50	1,729.7	-6.8	-8.4	10.8	230.83	
1,794.0	1.50	76.60	1,793.6	-6.0	-6.7	9.0	228.42	
1,857.0	1.10	176.50	1,856.6	-6.4	-5.9	8.7	222.70	
1,921.0	1.80	206.70	1,920.6	-7.9	-6.3	10.1	218.61	
1,984.0	1.10	225.40	1,983.6	-9.2	-7.2	11.7	217.96	
2,048.0	0.20	280.20	2,047.6	-9.6	-7.7	12.3	218.79	
2,181.0	0.50	16.50	2,180.6	-9.0	-7.8	11.9	220.83	
2,274.0	0.60	356.90	2,273.6	-8.1	-7.7	11.2	223.41	
2,367.0	0.60	336.70	2,366.6	-7.2	-7.9	10.7	227.70	
2,461.0	1.10	76.30	2,460.6	-6.5	-7.2	9.8	227.90	



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,554.0	1.20	92.60	2,553.5	-6.4	-5.4	8.3	220.26
2,648.0	1.20	134.40	2,647.5	-7.1	-3.7	8.0	207.56
2,741.0	1.90	148.80	2,740.5	-9.1	-2.2	9.4	193.66
2,835.0	0.70	115.10	2,834.5	-10.7	-0.9	10.7	184.74
2,929.0	1.10	58.20	2,928.5	-10.4	0.4	10.5	177.80
3,022.0	1.60	72.70	3,021.4	-9.6	2.4	9.9	165.96
3,116.0	0.90	310.30	3,115.4	-8.7	3.1	9.3	160.50
3,209.0	1.80	287.40	3,208.4	-7.8	1.1	7.9	171.71
3,302.0	0.90	276.00	3,301.4	-7.3	-1.0	7.4	187.66
3,396.0	0.40	253.50	3,395.4	-7.3	-2.0	7.6	195.51
3,489.0	0.60	233.10	3,488.4	-7.7	-2.7	8.2	199.53
3,583.0	0.50	245.30	3,582.4	-8.2	-3.5	8.9	203.18
3,676.0	0.50	216.40	3,675.3	-8.7	-4.1	9.6	205.38
3,769.0	0.60	219.90	3,768.3	-9.4	-4.7	10.5	206.45
3,863.0	0.50	251.80	3,862.3	-9.9	-5.4	11.2	208.53
3,956.0	0.60	223.30	3,955.3	-10.4	-6.1	12.0	210.45
4,049.0	0.60	240.30	4,048.3	-10.9	-6.8	12.9	212.00
4,143.0	0.70	244.40	4,142.3	-11.4	-7.8	13.8	214.24
4,239.0	1.00	249.40	4,238.3	-12.0	-9.1	15.1	217.20
4,333.0	0.60	171.80	4,332.3	-12.8	-9.8	16.1	217.51
4,426.0	0.40	119.10	4,425.3	-13.4	-9.4	16.4	215.17
4,519.0	0.40	104.60	4,518.3	-13.6	-8.8	16.3	212.98
4,613.0	0.00	181.60	4,612.3	-13.7	-8.5	16.2	211.86
4,706.0	0.70	129.20	4,705.3	-14.1	-8.1	16.2	209.87
4,799.0	0.50	122.50	4,798.3	-14.7	-7.3	16.4	206.49
4,893.0	0.70	112.40	4,892.3	-15.1	-6.4	16.4	203.06
4,986.0	1.00	118.70	4,985.3	-15.7	-5.2	16.5	198.29



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5,080.0	0.80	118.10	5,079.3	-16.4	-3.9	16.9	193.35
5,173.0	0.50	114.40	5,172.3	-16.9	-3.0	17.1	189.92
5,267.0	0.50	114.50	5,266.3	-17.2	-2.2	17.4	187.30
5,360.0	1.20	160.10	5,359.2	-18.3	-1.5	18.4	184.70
5,454.0	0.60	210.60	5,453.2	-19.7	-1.4	19.7	184.13
5,547.0	1.00	202.80	5,546.2	-20.8	-2.0	20.9	185.44
5,641.0	0.40	245.40	5,640.2	-21.7	-2.6	21.9	186.82
5,734.0	0.40	59.50	5,733.2	-21.7	-2.6	21.8	186.87
5,828.0	0.60	32.10	5,827.2	-21.1	-2.1	21.2	185.60
5,921.0	0.40	85.50	5,920.2	-20.7	-1.5	20.7	184.12
6,015.0	0.60	109.80	6,014.2	-20.8	-0.7	20.8	181.92
6,108.0	0.20	357.10	6,107.2	-20.8	-0.2	20.8	180.68
6,202.0	0.40	279.20	6,201.2	-20.6	-0.6	20.6	181.61
6,295.0	0.20	98.50	6,294.2	-20.6	-0.7	20.6	182.06
6,389.0	0.10	121.70	6,388.2	-20.6	-0.5	20.6	181.41
6,482.0	0.50	186.50	6,481.2	-21.1	-0.5	21.1	181.32
6,575.0	1.10	177.40	6,574.2	-22.4	-0.5	22.4	181.25
6,669.0	0.40	190.60	6,668.2	-23.6	-0.5	23.6	181.24
6,762.0	0.10	287.10	6,761.2	-23.9	-0.6	23.9	181.55
6,856.0	0.70	322.40	6,855.2	-23.4	-1.1	23.4	182.63
6,949.0	1.50	295.50	6,948.2	-22.4	-2.5	22.6	186.41
7,043.0	2.40	291.50	7,042.1	-21.2	-5.5	21.9	194.46
7,136.0	3.00	306.80	7,135.0	-19.0	-9.2	21.1	205.87
7,230.0	3.20	322.50	7,228.9	-15.5	-12.8	20.1	219.60
7,323.0	2.00	338.80	7,321.8	-11.9	-15.0	19.1	231.52
7,417.0	0.70	65.00	7,415.8	-10.1	-15.0	18.1	236.05
7,510.0	0.30	324.40	7,508.8	-9.7	-14.7	17.6	236.56



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7,604.0	0.40	266.70	7,602.7	-9.5	-15.1	17.9	237.88
7,697.0	1.70	308.20	7,695.7	-8.7	-16.5	18.7	242.35
7,791.0	2.20	296.80	7,789.7	-6.9	-19.2	20.4	250.16
7,884.0	0.40	233.40	7,882.7	-6.3	-21.0	22.0	253.41
7,978.0	1.00	117.70	7,976.6	-6.8	-20.6	21.7	251.60
8,071.0	1.00	138.00	8,069.6	-7.8	-19.3	20.8	247.95
8,165.0	1.10	166.10	8,163.6	-9.3	-18.5	20.8	243.35
8,259.0	1.00	299.60	8,257.6	-9.8	-19.0	21.4	242.82
8,352.0	2.30	340.20	8,350.6	-7.6	-20.4	21.8	249.50
8,446.0	1.90	307.90	8,444.5	-4.9	-22.3	22.8	257.60
8,539.0	1.50	271.70	8,537.5	-3.9	-24.7	25.0	261.01
8,633.0	0.20	183.80	8,631.5	-4.0	-25.9	26.2	261.15
8,726.0	1.20	100.30	8,724.5	-4.4	-25.0	25.4	260.07
8,820.0	0.70	114.20	8,818.4	-4.8	-23.5	24.0	258.49
8,913.0	0.30	165.00	8,911.4	-5.2	-22.9	23.5	257.09
9,007.0	0.90	123.90	9,005.4	-5.9	-22.2	23.0	255.14
9,100.0	1.00	234.90	9,098.4	-6.8	-22.3	23.3	253.09
9,194.0	1.30	354.00	9,192.4	-6.2	-23.1	23.9	254.99
9,287.0	0.80	3.20	9,285.4	-4.5	-23.1	23.6	259.03
9,380.0	0.30	292.80	9,378.4	-3.7	-23.3	23.6	260.88
9,474.0	0.10	336.50	9,472.4	-3.6	-23.6	23.9	261.38
9,568.0	0.40	236.80	9,566.4	-3.7	-23.9	24.2	261.25
9,661.0	1.20	240.70	9,659.4	-4.3	-25.0	25.4	260.17
9,755.0	0.20	260.30	9,753.4	-4.8	-26.0	26.5	259.47
9,848.0	0.30	187.00	9,846.4	-5.1	-26.2	26.7	258.97
9,942.0	0.60	206.00	9,940.4	-5.8	-26.5	27.1	257.65
10,035.0	0.90	201.70	10,033.4	-6.9	-27.0	27.8	255.61



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10,128.0	1.10	208.60	10,126.4	-8.4	-27.7	28.9	253.15
10,222.0	0.30	241.60	10,220.3	-9.3	-28.3	29.8	251.84
10,316.0	0.40	338.70	10,314.3	-9.1	-28.6	30.0	252.38
10,409.0	1.10	346.20	10,407.3	-7.9	-29.0	30.0	254.70
10,503.0	0.70	323.80	10,501.3	-6.6	-29.5	30.2	257.42
10,597.0	1.30	292.30	10,595.3	-5.7	-30.8	31.4	259.50
10,691.0	1.50	267.50	10,689.3	-5.4	-33.1	33.5	260.78
10,748.0	2.30	310.40	10,746.3	-4.7	-34.7	35.0	262.35
10,779.0	5.70	345.80	10,777.2	-2.8	-35.5	35.6	265.55
10,811.0	9.30	350.90	10,808.9	1.3	-36.3	36.4	272.10
10,842.0	12.80	353.00	10,839.3	7.2	-37.1	37.8	280.99
10,873.0	13.90	0.00	10,869.5	14.3	-37.6	40.2	290.90
10,904.0	15.70	0.50	10,899.5	22.3	-37.5	43.6	300.68
10,936.0	18.70	358.60	10,930.0	31.7	-37.6	49.2	310.14
10,967.0	22.60	355.30	10,959.0	42.6	-38.2	57.3	318.12
10,998.0	26.20	355.40	10,987.3	55.4	-39.3	67.9	324.67
11,029.0	28.90	356.50	11,014.7	69.7	-40.3	80.5	329.98
11,060.0	32.20	357.60	11,041.4	85.4	-41.1	94.8	334.32
11,091.0	34.20	359.10	11,067.4	102.4	-41.6	110.5	337.91
11,123.0	35.00	1.60	11,093.7	120.6	-41.4	127.5	341.03
11,154.0	36.70	359.10	11,118.8	138.7	-41.3	144.7	343.41
11,185.0	39.40	1.40	11,143.2	157.8	-41.2	163.1	345.35
11,217.0	43.10	1.90	11,167.3	178.9	-40.6	183.5	347.20
11,248.0	45.80	4.70	11,189.4	200.6	-39.4	204.4	348.89
11,279.0	49.00	6.20	11,210.4	223.3	-37.2	226.4	350.54
11,310.0	52.30	7.00	11,230.1	247.1	-34.4	249.5	352.07
11,341.0	57.10	7.00	11,248.0	272.2	-31.4	274.0	353.43



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Site: Section 14-11-26S-29E Fuller 14-11 W2HA 3H
Well: Fuller 14-11 W2HA Fed #3H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W2HA Fed #3H
TVD Reference: 2949 + 27 @ 2976.0usft (Patterson # 250)
MD Reference: 2949 + 27 @ 2976.0usft (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 (°)
11,372.0	61.90	6.50	11,263.7	298.7	-28.2	300.0	354.60
11,403.0	65.80	6.20	11,277.4	326.4	-25.1	327.3	355.59
11,414.0	67.60	6.20	11,281.7	336.4	-24.1	337.3	355.91
11,449.0	73.20	5.30	11,293.4	369.2	-20.8	369.8	356.78
11,481.0	73.40	5.60	11,302.6	399.7	-17.8	400.1	357.44
11,512.0	73.60	4.80	11,311.4	429.3	-15.1	429.6	357.98
11,543.0	75.30	2.60	11,319.8	459.1	-13.2	459.3	358.35
11,574.0	77.80	1.80	11,327.0	489.2	-12.1	489.4	358.59
11,605.0	82.60	1.10	11,332.2	519.8	-11.3	519.9	358.75
11,636.0	86.40	2.10	11,335.2	550.6	-10.4	550.7	358.91
11,654.8	88.86	2.45	11,336.0	569.3	-9.7	569.4	359.02
LP Fuller 14-11 W2HA Fed 3H							
11,668.0	90.60	2.70	11,336.1	582.6	-9.1	582.6	359.11
11,699.0	91.30	2.10	11,335.5	613.5	-7.8	613.6	359.27
11,761.0	91.70	3.00	11,333.9	675.4	-5.0	675.5	359.57
11,854.0	88.80	1.40	11,333.5	768.4	-1.5	768.4	359.89
11,948.0	89.80	1.10	11,334.7	862.3	0.6	862.3	0.04
12,041.0	89.10	358.40	11,335.6	955.3	0.2	955.3	0.01
12,135.0	89.30	359.00	11,336.9	1,049.3	-2.0	1,049.3	359.89
12,228.0	92.00	1.20	11,335.8	1,142.3	-1.8	1,142.3	359.91
12,322.0	90.90	3.40	11,333.4	1,236.1	2.0	1,236.1	0.09
12,415.0	88.90	1.40	11,333.6	1,329.1	5.9	1,329.1	0.25
12,508.0	90.30	358.20	11,334.2	1,422.0	5.5	1,422.1	0.22
12,602.0	88.70	2.00	11,335.1	1,516.0	5.7	1,516.0	0.22
12,695.0	88.20	3.80	11,337.6	1,608.9	10.4	1,608.9	0.37
12,726.0	88.10	2.40	11,338.6	1,639.8	12.1	1,639.8	0.42
12,757.0	91.30	1.30	11,338.7	1,670.8	13.1	1,670.8	0.45



Microsoft
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,788.0	93.40	359.60	11,337.5	1,701.7	13.3	1,701.8	0.45
12,819.0	94.50	359.30	11,335.3	1,732.7	13.0	1,732.7	0.43
12,851.0	89.90	357.70	11,334.1	1,764.6	12.2	1,764.7	0.40
12,882.0	88.40	356.60	11,334.6	1,795.6	10.7	1,795.6	0.34
12,913.0	90.00	356.80	11,335.0	1,826.5	8.9	1,826.5	0.28
12,944.0	90.40	356.20	11,334.9	1,857.5	7.0	1,857.5	0.22
12,975.0	88.40	353.10	11,335.2	1,888.3	4.1	1,888.3	0.12
13,007.0	90.50	350.60	11,335.5	1,920.0	-0.4	1,920.0	359.99
13,038.0	89.50	348.20	11,335.5	1,950.5	-6.1	1,950.5	359.82
13,069.0	91.90	350.20	11,335.1	1,980.9	-12.0	1,980.9	359.65
13,100.0	89.40	353.90	11,334.8	2,011.6	-16.2	2,011.7	359.54
13,131.0	89.20	356.10	11,335.2	2,042.5	-18.9	2,042.6	359.47
13,162.0	89.70	358.40	11,335.5	2,073.4	-20.4	2,073.5	359.44
13,193.0	89.60	1.30	11,335.7	2,104.4	-20.5	2,104.5	359.44
13,225.0	89.50	3.90	11,335.9	2,136.4	-19.1	2,136.5	359.49
13,256.0	89.50	5.10	11,336.2	2,167.3	-18.6	2,167.4	359.56
13,287.0	88.80	6.80	11,336.6	2,198.1	-13.4	2,198.2	359.65
13,318.0	90.20	6.80	11,336.9	2,228.9	-9.7	2,228.9	359.75
13,349.0	89.90	8.40	11,336.9	2,259.6	-5.6	2,259.6	359.86
13,380.0	89.80	10.00	11,337.0	2,290.2	-0.7	2,290.2	359.98
13,412.0	89.50	8.90	11,337.2	2,321.8	4.6	2,321.8	0.11
13,443.0	90.30	6.40	11,337.2	2,352.5	8.7	2,352.5	0.21
13,474.0	89.10	6.30	11,337.4	2,383.3	12.1	2,383.4	0.29
13,505.0	90.10	6.40	11,337.6	2,414.1	15.5	2,414.2	0.37
13,536.0	89.30	7.20	11,337.8	2,444.9	19.2	2,445.0	0.45
13,630.0	90.40	5.50	11,338.0	2,538.3	29.6	2,538.5	0.67
13,723.0	91.10	8.10	11,338.8	2,630.7	40.6	2,631.0	0.88



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,816.0	89.20	1.90	11,336.5	2,723.3	48.7	2,723.7	1.03
13,909.0	89.90	3.90	11,337.3	2,816.1	53.4	2,816.6	1.09
14,002.0	90.20	356.90	11,337.2	2,909.1	54.1	2,909.6	1.06
14,096.0	88.20	1.40	11,338.5	3,003.0	52.7	3,003.5	1.01
14,189.0	89.90	356.40	11,340.0	3,096.0	50.9	3,096.4	0.94
14,283.0	89.50	357.60	11,340.5	3,189.8	46.0	3,190.2	0.83
14,376.0	89.00	356.90	11,341.8	3,282.7	41.5	3,283.0	0.72
14,470.0	89.30	353.00	11,343.2	3,376.3	33.2	3,376.5	0.56
14,563.0	90.20	352.10	11,343.6	3,468.5	21.2	3,468.6	0.35
14,657.0	92.10	352.10	11,341.7	3,561.6	8.3	3,561.6	0.13
14,750.0	93.00	351.00	11,337.5	3,653.5	-5.4	3,653.5	359.92
14,843.0	87.90	353.50	11,336.8	3,745.6	-17.9	3,745.7	359.73
14,937.0	93.20	0.80	11,335.9	3,839.4	-22.6	3,839.5	359.66
15,030.0	91.20	359.80	11,332.3	3,932.3	-22.1	3,932.4	359.68
15,124.0	91.90	0.50	11,329.8	4,026.3	-21.9	4,026.4	359.69
15,217.0	91.90	1.00	11,326.7	4,119.2	-20.6	4,119.3	359.71
15,311.0	89.60	0.50	11,325.5	4,213.2	-19.4	4,213.3	359.74
15,404.0	89.30	1.70	11,326.4	4,306.2	-17.6	4,306.2	359.77
15,497.0	88.30	0.40	11,328.3	4,399.2	-15.9	4,399.2	359.79
15,591.0	88.60	2.20	11,330.9	4,493.1	-13.8	4,493.1	359.82
15,685.0	90.30	2.70	11,331.8	4,587.0	-9.8	4,587.0	359.86
15,778.0	89.60	2.50	11,331.8	4,679.9	-5.6	4,679.9	359.93
15,872.0	88.70	4.80	11,333.2	4,773.7	0.4	4,773.7	0.01
15,965.0	89.10	5.80	11,335.0	4,866.3	9.0	4,866.3	0.11
16,061.0	88.90	8.60	11,336.7	4,961.5	21.0	4,961.5	0.24
16,155.0	88.40	2.40	11,338.9	5,055.0	30.1	5,055.1	0.34
16,248.0	89.70	2.30	11,340.5	5,147.9	33.9	5,148.0	0.38



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
16,342.0	90.00	2.80	11,340.7	5,241.8	38.0	5,241.9	0.42
16,435.0	88.80	358.60	11,341.7	5,334.8	39.2	5,334.9	0.42
16,529.0	89.50	359.80	11,343.1	5,428.8	37.9	5,428.9	0.40
16,622.0	89.60	0.60	11,343.8	5,521.7	38.2	5,521.9	0.40
16,716.0	89.70	3.00	11,344.4	5,615.7	41.1	5,615.8	0.42
16,778.0	89.30	3.80	11,344.9	5,677.6	44.8	5,677.8	0.45
16,809.0	88.60	2.80	11,345.5	5,708.5	46.6	5,708.7	0.47
16,905.0	85.40	0.80	11,350.5	5,804.3	49.6	5,804.5	0.49
17,000.0	89.70	356.80	11,354.6	5,899.2	47.6	5,899.4	0.46
17,095.0	88.70	356.20	11,355.9	5,994.0	41.8	5,994.1	0.40
17,180.0	88.50	356.30	11,358.2	6,088.8	35.6	6,088.9	0.34
17,285.0	90.90	0.50	11,358.7	6,183.7	33.0	6,183.8	0.31
17,381.0	89.90	357.50	11,358.0	6,279.7	31.3	6,279.7	0.29
17,476.0	91.40	359.50	11,357.0	6,374.6	28.8	6,374.7	0.26
17,570.0	86.00	356.60	11,359.1	6,468.5	25.6	6,468.5	0.23
17,665.0	87.80	355.20	11,364.2	6,563.1	18.8	6,563.1	0.16
17,760.0	89.60	356.70	11,366.4	6,657.8	12.1	6,657.8	0.10
17,856.0	92.30	358.70	11,364.8	6,753.7	8.3	6,753.7	0.07
17,950.0	88.70	359.00	11,364.0	6,847.7	6.4	6,847.7	0.05
18,046.0	92.70	1.70	11,362.8	6,943.7	7.0	6,943.7	0.06
18,141.0	91.00	0.50	11,359.7	7,038.6	8.8	7,038.6	0.07
18,236.0	90.80	358.30	11,358.2	7,133.6	7.8	7,133.6	0.06
18,331.0	90.80	357.10	11,356.9	7,228.5	4.0	7,228.5	0.03
18,426.0	88.60	355.20	11,357.4	7,323.2	-2.4	7,323.2	359.98
18,521.0	88.90	352.30	11,359.5	7,417.7	-12.7	7,417.7	359.90
18,614.0	90.20	351.80	11,360.2	7,509.8	-25.6	7,509.8	359.80



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
18,665.0	90.20	351.80	11,360.0	7,560.2	-32.9	7,560.3	359.75

18665' MD Projected to Bit - PBHL Fuller 14-11 W2HA Fed 3H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,665.0	11,360.0	7,560.2	-32.9	18665' MD Projected to Bit