



April 11, 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
Fuller 14 23 W2LM Federal Com #002H
Brushy Draw; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-43859

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	519ft. to 18,748ft.	02-11-17 to 03-18-17	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\Fuller 14 23 W2LM Federal Com #2H\M171009

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



April 11, 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 February 11, 2017, through March 18, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 519 feet to a depth of 18,748 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 23 W2LM Federal Com #002H well, API # **30-015-43859** 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 14-23 -26S-29E Fuller 14-23 W2LM Fed
Well: Fuller 14-23 W2LM Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2LM Fed Com #2H
TVD Reference: 2936 + 27 @ 2963.0usft (Patterson 245)
MD Reference: 2936 + 27 @ 2963.0usft (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 14-23 -26S-29E Fuller 14-23 W2LM Fed Com 2

Site Position:		Northing:	379,410.22 usft	Latitude:	32° 2' 33.244 N
From: Map		Easting:	615,270.52 usft	Longitude:	103° 57' 40.737 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well Fuller 14-23 W2LM Fed Com #2H

Well Position	+N/-S	0.0 usft	Northing:	379,410.22 usft	Latitude:	32° 2' 33.244 N
	+E/-W	0.0 usft	Easting:	615,270.52 usft	Longitude:	103° 57' 40.737 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,936.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/24/2017	7.16	59.84	47,832.37864550

Design Original Hole

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	115.53



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Survey Program **Date** 3/20/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	487.0	Rig Survey's (Original Hole)	MWD	MWD v3:standard declination
519.0	18,800.0	MWD Vertical Survey (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
487.0	1.50	123.00	486.9	-0.4	9.3	9.3	92.30
519.0	1.70	140.70	518.9	-1.0	10.0	10.0	95.56
581.0	1.50	157.40	580.8	-2.4	10.9	11.1	102.62
644.0	1.40	171.10	643.8	-4.0	11.3	12.0	109.29
706.0	1.10	182.80	705.8	-5.3	11.4	12.5	114.95
769.0	1.50	190.00	768.8	-6.7	11.2	13.1	120.92
835.0	1.80	196.00	834.8	-8.6	10.8	13.8	128.47
898.0	1.00	205.30	897.7	-10.0	10.3	14.3	134.28
962.0	0.50	342.30	961.7	-10.2	9.9	14.3	135.87
1,025.0	1.10	336.20	1,024.7	-9.4	9.6	13.5	134.45
1,088.0	1.40	349.60	1,087.7	-8.1	9.2	12.3	131.34
1,152.0	1.50	347.30	1,151.7	-6.5	8.9	11.0	126.27
1,215.0	1.70	346.80	1,214.7	-4.8	8.5	9.8	119.53
1,279.0	0.60	284.20	1,278.7	-3.8	8.0	8.8	115.58
1,342.0	1.10	215.20	1,341.7	-4.2	7.3	8.4	120.07
1,405.0	1.50	207.40	1,404.6	-5.5	6.6	8.5	129.69
1,469.0	0.70	264.40	1,468.6	-6.2	5.8	8.5	137.09
1,532.0	1.10	333.80	1,531.6	-5.7	5.1	7.7	138.07
1,595.0	1.30	343.40	1,594.6	-4.5	4.7	6.5	133.92
1,659.0	1.40	346.50	1,658.6	-3.0	4.3	5.3	125.41
1,722.0	1.10	343.60	1,721.6	-1.7	3.9	4.3	113.58



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
1,786.0	1.30	334.70	1,785.6	-0.5	3.5	3.5	97.78
1,817.0	1.50	332.40	1,816.6	0.2	3.1	3.1	86.21
1,915.0	0.30	217.60	1,914.5	1.1	2.4	2.6	64.23
2,010.0	1.10	156.70	2,009.5	0.1	2.6	2.6	87.66
2,104.0	1.50	153.70	2,103.5	-1.8	3.5	3.9	117.75
2,199.0	0.00	4.00	2,198.5	-2.9	4.0	5.0	126.17
2,294.0	1.00	343.80	2,293.5	-2.1	3.8	4.4	119.50
2,389.0	0.90	7.10	2,388.5	-0.6	3.7	3.7	99.46
2,484.0	1.10	46.30	2,483.5	0.8	4.4	4.5	80.19
2,580.0	1.50	66.60	2,579.4	1.9	6.2	6.5	73.05
2,675.0	1.50	120.80	2,674.4	1.8	8.4	8.6	78.25
2,770.0	2.50	127.50	2,769.4	-0.1	11.1	11.1	90.74
2,866.0	1.20	144.20	2,865.3	-2.2	13.4	13.6	99.47
2,953.0	0.40	107.30	2,952.3	-3.1	14.2	14.5	102.16
3,055.0	0.40	341.70	3,054.3	-2.8	14.4	14.7	101.09
3,150.0	0.40	300.30	3,149.3	-2.3	14.1	14.2	99.49
3,246.0	0.20	330.30	3,245.3	-2.0	13.7	13.8	98.46
3,341.0	0.10	253.50	3,340.3	-1.9	13.5	13.7	98.06
3,437.0	0.50	289.60	3,436.3	-1.8	13.0	13.2	97.84
3,533.0	0.20	328.90	3,532.3	-1.5	12.6	12.7	96.87
3,628.0	0.50	287.10	3,627.3	-1.2	12.1	12.1	95.90
3,723.0	0.40	305.70	3,722.3	-0.9	11.4	11.5	94.67
3,819.0	0.30	293.80	3,818.3	-0.6	10.9	10.9	93.34
3,915.0	0.70	277.10	3,914.3	-0.5	10.1	10.1	92.62
4,010.0	1.00	277.70	4,009.3	-0.3	8.7	8.7	91.84
4,105.0	1.00	280.00	4,104.3	0.0	7.1	7.1	90.20
4,200.0	1.10	263.00	4,199.2	0.0	5.3	5.3	89.91



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4,294.0	0.80	265.00	4,293.2	-0.2	3.8	3.8	92.40
4,390.0	1.20	259.30	4,389.2	-0.4	2.1	2.2	100.69
4,485.0	1.10	262.70	4,484.2	-0.7	0.3	0.8	159.77
4,579.0	0.90	254.60	4,578.2	-1.0	-1.3	1.7	232.99
4,674.0	1.20	251.70	4,673.2	-1.5	-3.0	3.4	243.12
4,770.0	0.50	186.60	4,769.2	-2.3	-4.0	4.6	240.64
4,865.0	0.60	165.30	4,864.1	-3.2	-3.9	5.0	231.32
4,958.0	0.70	184.40	4,957.1	-4.2	-3.9	5.7	222.63
5,053.0	0.60	185.70	5,052.1	-5.3	-3.9	6.6	216.89
5,148.0	1.10	170.30	5,147.1	-6.7	-3.8	7.7	210.01
5,243.0	1.20	175.50	5,242.1	-8.5	-3.6	9.3	202.92
5,338.0	1.10	174.00	5,337.1	-10.4	-3.4	11.0	198.23
5,433.0	0.30	104.00	5,432.1	-11.4	-3.1	11.8	195.21
5,528.0	0.10	285.70	5,527.1	-11.4	-2.9	11.8	194.41
5,624.0	0.10	131.00	5,623.1	-11.5	-3.0	11.9	194.45
5,719.0	0.10	264.60	5,718.1	-11.5	-3.0	11.9	194.47
5,814.0	0.30	215.20	5,813.1	-11.8	-3.2	12.2	195.25
5,909.0	0.40	184.50	5,908.1	-12.3	-3.4	12.7	195.35
6,005.0	0.70	165.80	6,004.1	-13.2	-3.3	13.6	193.87
6,101.0	0.70	182.00	6,100.1	-14.3	-3.1	14.7	192.32
6,196.0	0.40	170.60	6,195.1	-15.3	-3.1	15.6	191.48
6,292.0	0.50	165.80	6,291.1	-16.0	-2.9	16.3	190.42
6,387.0	0.60	173.20	6,386.1	-16.9	-2.8	17.1	189.35
6,484.0	1.10	172.60	6,483.0	-18.3	-2.6	18.5	188.08
6,579.0	0.70	355.50	6,578.0	-18.6	-2.5	18.8	187.73
6,675.0	0.40	10.70	6,674.0	-17.7	-2.5	17.9	188.07
6,770.0	0.20	347.20	6,769.0	-17.2	-2.5	17.4	188.21



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6,866.0	0.90	350.90	6,865.0	-16.3	-2.6	16.5	189.20
6,962.0	0.60	339.90	6,961.0	-15.1	-2.9	15.4	191.00
7,057.0	0.30	247.50	7,056.0	-14.7	-3.3	15.1	192.76
7,152.0	0.20	243.70	7,151.0	-14.9	-3.7	15.4	193.99
7,248.0	0.90	161.90	7,247.0	-15.7	-3.6	16.1	193.02
7,343.0	0.10	320.70	7,342.0	-16.3	-3.5	16.7	191.93
7,439.0	0.70	303.80	7,438.0	-16.0	-4.0	16.4	194.05
7,534.0	0.40	261.50	7,533.0	-15.7	-4.8	16.4	197.03
7,630.0	0.70	2.60	7,629.0	-15.1	-5.1	16.0	198.64
7,725.0	1.10	26.10	7,724.0	-13.7	-4.7	14.5	198.80
7,821.0	0.70	67.50	7,820.0	-12.7	-3.7	13.2	196.39
7,916.0	0.60	40.40	7,915.0	-12.1	-2.9	12.4	193.37
8,011.0	0.20	341.70	8,010.0	-11.6	-2.6	11.8	192.70
8,107.0	0.40	278.80	8,106.0	-11.3	-3.0	11.7	194.75
8,203.0	1.00	309.40	8,202.0	-10.8	-4.0	11.5	200.23
8,298.0	0.70	339.80	8,297.0	-9.7	-4.8	10.8	206.38
8,394.0	0.70	345.10	8,392.9	-8.6	-5.2	10.0	211.04
8,490.0	0.90	343.80	8,488.9	-7.3	-5.5	9.1	217.16
8,586.0	0.40	300.40	8,584.9	-6.4	-6.0	8.8	223.29
8,681.0	0.20	285.80	8,679.9	-6.2	-6.5	8.9	226.31
8,777.0	0.30	261.00	8,775.9	-6.2	-6.9	9.2	228.09
8,873.0	0.80	302.80	8,871.9	-5.8	-7.7	9.7	232.74
8,969.0	0.90	246.40	8,967.9	-5.8	-8.9	10.7	237.09
9,064.0	1.30	229.60	9,062.9	-6.8	-10.4	12.5	237.00
9,160.0	0.60	124.90	9,158.9	-7.8	-10.9	13.4	234.40
9,255.0	0.70	152.60	9,253.9	-8.6	-10.2	13.3	229.81
9,351.0	0.20	320.20	9,349.9	-9.0	-10.0	13.5	228.18



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9,447.0	0.10	297.70	9,445.9	-8.8	-10.2	13.5	229.23
9,542.0	0.10	17.50	9,540.9	-8.7	-10.3	13.4	229.74
9,638.0	0.20	329.90	9,636.9	-8.5	-10.3	13.3	230.64
9,734.0	0.10	249.50	9,732.9	-8.3	-10.5	13.4	231.47
9,829.0	0.20	226.40	9,827.9	-8.5	-10.7	13.6	231.51
9,925.0	0.60	205.70	9,923.9	-9.1	-11.0	14.3	230.57
10,020.0	0.70	205.30	10,018.9	-10.0	-11.5	15.2	228.86
10,116.0	0.40	190.00	10,114.9	-10.9	-11.8	16.0	227.27
10,211.0	0.40	204.80	10,209.9	-11.5	-12.0	16.6	226.14
10,306.0	0.50	176.60	10,304.9	-12.2	-12.1	17.2	224.69
10,402.0	0.20	240.80	10,400.9	-12.7	-12.2	17.6	223.82
10,497.0	0.50	264.80	10,495.9	-12.8	-12.8	18.1	224.84
10,552.0	0.60	255.50	10,550.9	-12.9	-13.3	18.6	225.77
10,584.0	2.20	184.90	10,582.8	-13.6	-13.5	19.2	224.81
10,615.0	5.50	176.00	10,613.8	-15.7	-13.5	20.7	220.65
10,647.0	8.00	174.10	10,645.5	-19.4	-13.1	23.4	214.05
10,679.0	11.40	171.10	10,677.1	-24.8	-12.4	27.7	206.61
10,711.0	14.80	172.80	10,708.2	-31.9	-11.4	33.9	199.64
10,743.0	16.80	174.20	10,739.0	-40.6	-10.4	41.9	194.40
10,774.0	17.80	175.60	10,768.6	-49.8	-9.6	50.7	190.92
10,806.0	19.10	174.80	10,799.0	-59.9	-8.8	60.5	188.32
10,838.0	21.10	170.50	10,829.0	-70.8	-7.3	71.1	185.91
10,870.0	24.20	168.60	10,858.6	-82.9	-5.1	83.0	183.51
10,902.0	27.00	169.80	10,887.4	-96.5	-2.5	96.5	181.48
10,934.0	29.90	173.50	10,915.6	-111.5	-0.3	111.5	180.16
10,966.0	33.80	176.00	10,942.7	-128.3	1.2	128.4	179.46
10,998.0	36.80	177.20	10,968.8	-146.8	2.3	146.8	179.10



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11,030.0	38.90	176.00	10,994.1	-166.4	3.5	166.4	178.80
11,062.0	42.20	178.80	11,018.4	-187.2	4.4	187.2	178.65
11,093.0	45.50	181.00	11,040.8	-208.7	4.4	208.7	178.78
11,125.0	46.10	179.10	11,063.1	-231.6	4.4	231.6	178.91
11,157.0	49.10	178.40	11,084.7	-255.2	4.9	255.3	178.89
11,189.0	53.60	177.10	11,104.7	-280.2	5.9	280.2	178.79
11,221.0	58.40	177.70	11,122.5	-306.7	7.1	306.8	178.67
11,253.0	61.50	180.30	11,138.6	-334.4	7.6	334.4	178.70
11,285.0	63.80	180.80	11,153.3	-362.8	7.3	362.9	178.84
11,316.0	67.50	180.50	11,166.0	-391.0	7.0	391.1	178.97
11,368.0	72.00	179.60	11,184.0	-439.8	7.0	439.8	179.09
11,400.0	74.20	177.10	11,193.3	-470.4	7.8	470.5	179.04
11,432.0	76.30	176.80	11,201.5	-501.3	9.5	501.4	178.92
11,464.0	78.30	176.70	11,208.5	-532.5	11.3	532.6	178.79
11,496.0	80.20	177.50	11,214.5	-563.8	12.9	564.0	178.69
11,528.0	82.10	177.70	11,219.4	-595.4	14.2	595.6	178.64
11,559.0	84.80	177.90	11,223.0	-626.2	15.4	626.4	178.60
11,591.0	85.60	178.40	11,225.6	-658.1	16.4	658.3	178.57
11,613.3	86.50	178.40	11,227.2	-680.3	17.0	680.5	178.57
LP Fuller 14-23 W2LM Fed Com 2H							
11,623.0	86.90	178.40	11,227.7	-690.0	17.3	690.2	178.57
11,655.0	88.70	178.90	11,228.9	-722.0	18.0	722.2	178.57
11,687.0	89.80	179.70	11,229.4	-754.0	18.4	754.2	178.60
11,719.0	90.70	179.50	11,229.2	-786.0	18.6	786.2	178.64
11,814.0	91.30	178.70	11,227.6	-880.9	20.1	881.2	178.69
11,910.0	91.10	178.20	11,225.6	-976.9	22.7	977.1	178.67
12,005.0	91.10	177.70	11,223.7	-1,071.8	26.1	1,072.1	178.60



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 14-23-26S-29E Fuller 14-23 W2LM Fed
Well: Fuller 14-23 W2LM Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2LM Fed Com #2H
TVD Reference: 2936 + 27 @ 2963.0usft (Patterson 245)
MD Reference: 2936 + 27 @ 2963.0usft (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 (°)
12,100.0	92.10	178.50	11,221.1	-1,166.7	29.3	1,167.1	178.56
12,196.0	86.50	177.80	11,222.3	-1,262.6	32.4	1,263.0	178.53
12,291.0	93.20	179.10	11,222.5	-1,357.5	34.9	1,358.0	178.53
12,386.0	91.30	179.60	11,218.8	-1,452.4	36.0	1,452.9	178.58
12,481.0	90.80	181.80	11,217.0	-1,547.4	34.9	1,547.8	178.71
12,577.0	90.00	181.40	11,216.4	-1,643.4	32.2	1,643.7	178.88
12,671.0	88.50	181.20	11,217.6	-1,737.3	30.0	1,737.6	179.01
12,767.0	88.70	180.90	11,219.9	-1,833.3	28.3	1,833.5	179.12
12,863.0	90.50	180.60	11,220.6	-1,929.3	27.0	1,929.5	179.20
12,957.0	90.40	181.00	11,219.9	-2,023.3	25.7	2,023.4	179.27
13,052.0	91.60	181.20	11,218.2	-2,118.2	23.9	2,118.4	179.35
13,148.0	87.40	179.10	11,219.1	-2,214.2	23.6	2,214.3	179.39
13,243.0	91.60	179.90	11,219.9	-2,309.2	24.5	2,309.3	179.39
13,338.0	92.60	180.60	11,216.4	-2,404.1	24.1	2,404.2	179.43
13,432.0	87.80	178.40	11,216.1	-2,498.1	24.9	2,498.2	179.43
13,527.0	90.50	179.90	11,217.5	-2,593.0	26.3	2,593.2	179.42
13,622.0	90.60	181.90	11,216.6	-2,688.0	24.8	2,688.1	179.47
13,717.0	89.40	179.90	11,216.6	-2,783.0	23.3	2,783.1	179.52
13,812.0	89.10	180.60	11,217.8	-2,878.0	22.9	2,878.1	179.54
13,908.0	90.80	185.40	11,217.9	-2,973.8	17.9	2,973.9	179.66
14,003.0	90.60	186.20	11,216.7	-3,068.3	8.3	3,068.3	179.85
14,098.0	86.20	180.80	11,219.4	-3,163.0	2.5	3,163.0	179.96
14,193.0	85.90	177.50	11,225.9	-3,257.8	3.9	3,257.8	179.93
14,288.0	89.90	177.70	11,229.4	-3,352.6	7.8	3,352.6	179.87
14,383.0	91.00	180.50	11,228.7	-3,447.6	9.3	3,447.6	179.84
14,478.0	90.30	176.50	11,227.6	-3,542.5	11.8	3,542.6	179.81
14,573.0	91.00	176.00	11,226.5	-3,637.3	18.0	3,637.4	179.72



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 14-23-26S-29E Fuller 14-23 W2LM Fed
Well: Fuller 14-23 W2LM Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2LM Fed Com #2H
TVD Reference: 2936 + 27 @ 2963.0usft (Patterson 245)
MD Reference: 2936 + 27 @ 2963.0usft (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 (°)
14,669.0	90.20	174.50	11,225.5	-3,733.0	26.0	3,733.1	179.60
14,764.0	90.40	176.50	11,225.0	-3,827.7	33.4	3,827.8	179.50
14,859.0	89.10	173.70	11,225.4	-3,922.3	41.6	3,922.6	179.39
14,955.0	92.50	177.40	11,224.1	-4,018.0	49.0	4,018.3	179.30
15,051.0	89.50	178.10	11,222.4	-4,113.9	52.8	4,114.2	179.27
15,146.0	90.90	182.00	11,222.1	-4,208.9	52.7	4,209.2	179.28
15,242.0	90.30	180.20	11,221.1	-4,304.9	50.8	4,305.2	179.32
15,338.0	89.80	175.70	11,221.0	-4,400.8	54.3	4,401.1	179.29
15,433.0	92.40	178.60	11,219.2	-4,495.6	59.0	4,496.0	179.25
15,529.0	91.30	179.40	11,216.1	-4,591.6	60.7	4,592.0	179.24
15,623.0	92.20	180.50	11,213.2	-4,685.5	60.8	4,685.9	179.26
15,718.0	88.40	178.10	11,212.7	-4,780.5	61.9	4,780.9	179.26
15,813.0	89.30	180.00	11,214.6	-4,875.4	63.5	4,875.9	179.25
15,908.0	90.20	181.20	11,215.0	-4,970.4	62.5	4,970.8	179.28
16,003.0	91.00	182.50	11,214.0	-5,065.4	59.4	5,065.7	179.33
16,098.0	93.00	183.10	11,210.7	-5,160.2	54.8	5,160.5	179.39
16,194.0	87.80	182.10	11,210.0	-5,256.1	50.4	5,256.3	179.45
16,289.0	87.30	182.40	11,214.1	-5,350.9	46.7	5,351.1	179.50
16,385.0	87.70	183.00	11,218.3	-5,446.7	42.2	5,446.9	179.56
16,480.0	89.90	184.10	11,220.3	-5,541.5	36.3	5,541.6	179.62
16,575.0	88.90	182.00	11,221.3	-5,636.3	31.3	5,636.4	179.68
16,670.0	90.90	178.60	11,221.4	-5,731.3	30.8	5,731.4	179.69
16,766.0	89.80	181.30	11,220.9	-5,827.3	30.8	5,827.4	179.70
16,861.0	91.80	179.90	11,219.5	-5,922.3	29.9	5,922.4	179.71
16,955.0	91.50	178.80	11,216.8	-6,016.2	30.9	6,016.3	179.71
17,049.0	88.70	177.30	11,216.7	-6,110.2	34.1	6,110.3	179.68
17,144.0	90.30	177.70	11,217.5	-6,205.1	38.3	6,205.2	179.65



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 14-23 -26S-29E Fuller 14-23 W2LM Fed
Well: Fuller 14-23 W2LM Fed Com #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2LM Fed Com #2H
TVD Reference: 2936 + 27 @ 2963.0usft (Patterson 245)
MD Reference: 2936 + 27 @ 2963.0usft (Patterson 245)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

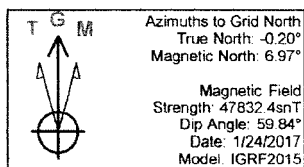
Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,239.0	90.10	176.00	11,217.2	-6,299.9	43.5	6,300.1	179.60
17,333.0	88.90	178.90	11,218.0	-6,393.8	47.7	6,394.0	179.57
17,428.0	90.80	177.90	11,218.2	-6,488.8	50.3	6,489.0	179.56
17,522.0	91.60	179.90	11,216.3	-6,582.7	52.1	6,582.9	179.55
17,617.0	89.80	183.20	11,215.1	-6,677.7	49.5	6,677.9	179.57
17,710.0	90.40	186.40	11,214.9	-6,770.3	41.8	6,770.5	179.65
17,804.0	90.50	184.90	11,214.2	-6,863.9	32.5	6,864.0	179.73
17,899.0	91.00	188.90	11,212.9	-6,958.2	21.1	6,958.2	179.83
17,993.0	89.30	188.50	11,212.7	-7,051.1	6.9	7,051.1	179.94
18,079.0	91.20	180.60	11,212.3	-7,136.7	0.1	7,136.7	180.00
18,173.0	91.60	179.90	11,210.0	-7,230.7	-0.3	7,230.7	180.00
18,267.0	89.60	178.70	11,209.0	-7,324.7	0.8	7,324.7	179.99
18,362.0	90.10	181.40	11,209.3	-7,419.7	0.7	7,419.7	179.99
18,456.0	91.60	184.30	11,207.9	-7,513.5	-3.9	7,513.5	180.03
18,488.0	90.40	184.10	11,207.3	-7,545.4	-6.3	7,545.4	180.05
18,519.0	90.60	184.20	11,207.1	-7,576.4	-8.5	7,576.4	180.06
18,551.0	91.20	185.60	11,206.6	-7,608.2	-11.3	7,608.2	180.08
18,583.0	90.20	185.30	11,206.2	-7,640.1	-14.3	7,640.1	180.11
18,614.0	89.50	185.20	11,206.3	-7,671.0	-17.1	7,671.0	180.13
18,645.0	89.60	186.90	11,206.5	-7,701.8	-20.4	7,701.8	180.15
18,676.0	89.60	188.40	11,206.7	-7,732.5	-24.5	7,732.5	180.18
18,708.0	90.10	190.00	11,206.8	-7,764.1	-29.7	7,764.2	180.22
18,739.0	90.10	192.10	11,206.7	-7,794.5	-35.6	7,794.6	180.26
18,748.0	90.20	192.80	11,206.7	-7,803.3	-37.5	7,803.4	180.28
18,800.0	90.20	192.80	11,206.5	-7,854.0	-49.1	7,854.2	180.36

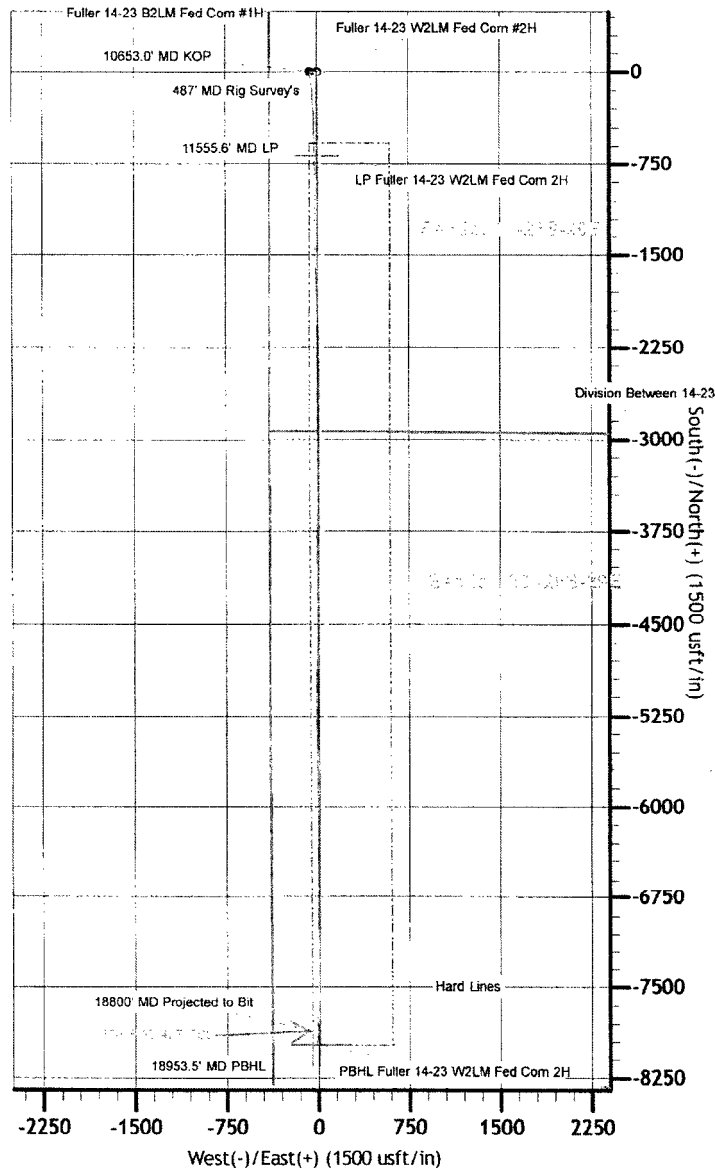
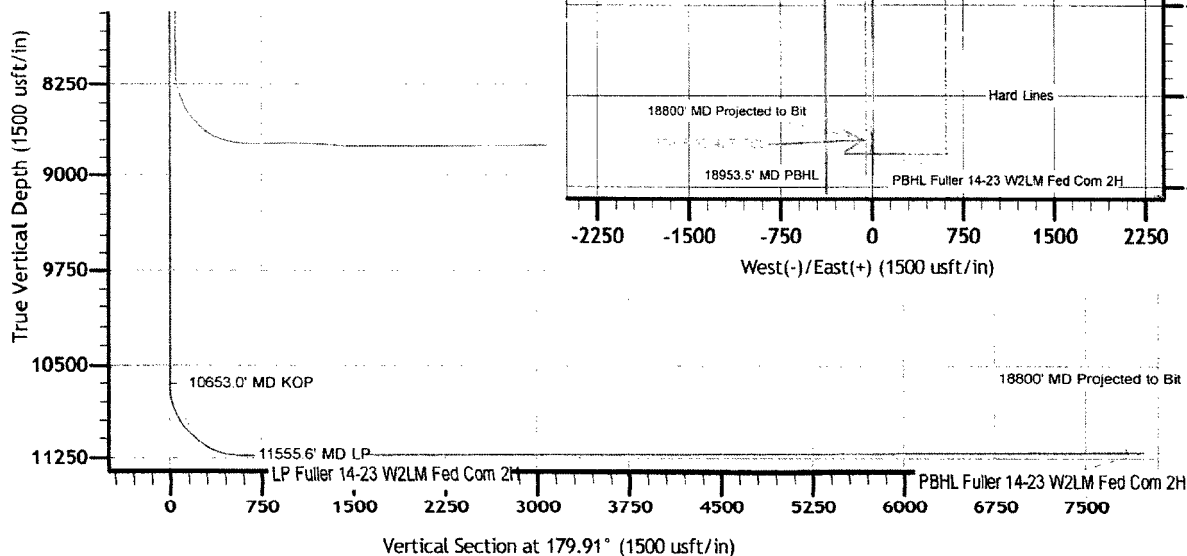
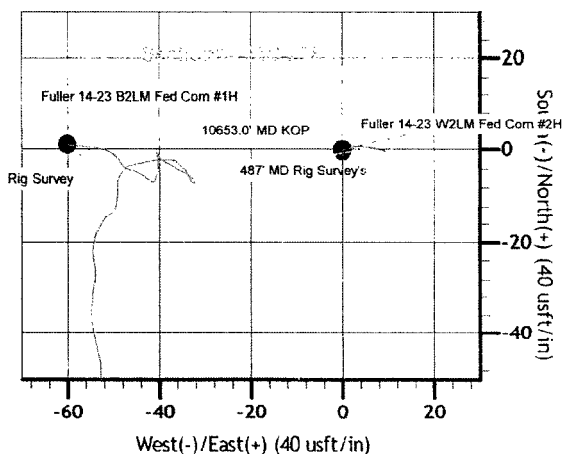
18800' MD Projected to Bit - PBHL Fuller 14-23 W2LM Fed Com 2H - New PBHL Fuller W2LM 2H

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.97°

GEODETIC ZONE New Mexico East 3001										
2936 + 27 @ 2963.0usft (Patterson 245)										
GROUND ELEVATION: 2936.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	379410.22	615270.52	32° 2' 33.244 N	103° 57' 40.737 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10653.0	0.00	0.00	10653.0	0.0	0.0	0.00	0.00	0.0	
3	11555.6	90.26	179.91	11226.0	-575.5	0.9	10.00	179.91	575.5	
4	18953.5	90.26	179.91	11193.0	-7973.3	12.5	0.00	0.00	7973.3	PBHL Fuller 14-23 W2LM Fed Com 2H



SHL: 2450' FNL: 390' FWL
Section 14-26S-29E
PBHL: 330' FSL: 390' FNL
Section 23-26S-29E





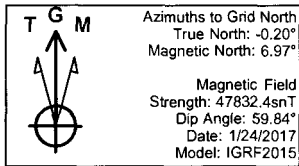
COMPANY: Mewbourne Oil Company
WELL: Fuller 14-23 W2LM Fed Com #2H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson 245



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.97°

GEODETIC ZONE: New Mexico East 3001 2936 + 27 @ 2963.0usft (Patterson 245) GROUND ELEVATION: 2936.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	379410.22	615270.52	32° 2' 33.244 N	103° 57' 40.737 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10653.0	0.00	0.00	10653.0	0.0	0.0	0.00	0.00	0.0	
3	11555.6	90.26	179.91	11226.0	-575.5	0.9	10.00	179.91	575.5	
4	18953.5	90.26	179.91	11193.0	-7973.3	12.5	0.00	0.00	7973.3	PBHL Fuller 14-23 W2LM Fed Com 2H



SHL: 2450' FNL; 390' FWL
Section 14-26S-29E
PBHL: 330' FSL; 390' FWL
Section 23-26S-29E

