



January 11, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 19 2018

RECEIVED

30-015-44453

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

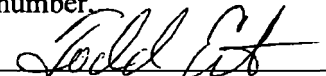
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Fuller 14 23 W2IP Federal #004H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44453

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	632ft. to 18,977ft.	10-28-17 to 12-03-17	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 W2IP Federal #4H\M171110

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



January 11, 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 October 28, 2017, through December 03, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 632 feet to a depth of 18,977 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 W2IP Federal #004H well, API # 30-015-44453 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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Montgomery, TX 77356

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Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Section 14-23.26S-29E Fuller14-23 W2IP Fed #4H

Site Position:	Northing:	379,385.40 usft	Latitude:	32° 2' 32.715 N
From: Map	Easting:	661,141.20 usft	Longitude:	103° 56' 48.041 W
Position Uncertainty: 0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well Fuller 14-23 W2IP Fed #4H

Well Position	+N/-S	0.0 usft	Northing:	379,385.40 usft	Latitude:	32° 2' 32.715 N
	+E/-W	0.0 usft	Easting:	661,141.20 usft	Longitude:	103° 56' 48.041 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,953.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/17/2017	7.08	59.83	47,759.23617112

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	176.29

Survey Program Date 12/4/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
632.0	19,030.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft MWD Surveys



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
522.0	1.09	61.76	522.0	-2.7	-3.7	4.6	234.06	Tie-In
522.0' MD Phoenix Gyro								
632.0	1.40	75.30	631.9	-1.9	-1.5	2.4	218.76	
693.0	1.40	79.60	692.9	-1.5	0.0	1.5	181.30	
755.0	1.50	92.20	754.9	-1.4	1.5	2.1	133.13	
815.0	0.10	143.30	814.9	-1.5	2.3	2.8	122.64	
876.0	1.10	258.00	875.9	-1.7	1.8	2.4	132.77	
938.0	1.60	251.60	937.9	-2.1	0.4	2.1	169.20	
998.0	1.80	261.70	997.8	-2.5	-1.3	2.8	208.49	
1,029.0	1.90	253.90	1,028.8	-2.7	-2.3	3.5	220.85	
1,095.0	0.90	234.80	1,094.8	-3.3	-3.8	5.0	229.14	
1,159.0	1.10	152.70	1,158.8	-4.1	-3.9	5.7	223.60	
1,222.0	1.30	164.90	1,221.8	-5.3	-3.5	6.4	212.88	
1,286.0	1.40	180.30	1,285.8	-6.8	-3.3	7.6	205.59	
1,350.0	0.80	274.10	1,349.7	-7.6	-3.7	8.4	206.14	
1,413.0	1.80	332.10	1,412.7	-6.7	-4.6	8.1	214.72	
1,477.0	1.90	329.70	1,476.7	-4.9	-5.6	7.4	229.16	
1,540.0	0.80	359.50	1,539.7	-3.5	-6.2	7.1	240.24	
1,604.0	0.70	89.00	1,603.7	-3.1	-5.8	6.5	242.02	
1,667.0	1.00	115.00	1,666.7	-3.3	-4.9	5.9	236.03	
1,730.0	1.30	117.50	1,729.7	-3.9	-3.8	5.4	224.24	
1,794.0	1.30	115.80	1,793.6	-4.5	-2.5	5.1	208.58	
1,857.0	1.60	108.70	1,856.6	-5.1	-1.0	5.2	190.85	
1,921.0	0.60	108.00	1,920.6	-5.5	0.2	5.5	178.04	
1,984.0	0.20	251.80	1,983.6	-5.6	0.4	5.6	175.96	
2,047.0	0.20	264.00	2,046.6	-5.7	0.2	5.7	178.14	
2,175.0	0.40	243.60	2,174.6	-5.9	-0.4	5.9	184.26	



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2,269.0	0.60	237.10	2,268.6	-6.3	-1.1	6.4	190.30
2,362.0	0.80	233.20	2,361.6	-7.0	-2.1	7.3	196.60
2,456.0	0.50	221.60	2,455.6	-7.7	-2.9	8.2	200.56
2,549.0	0.80	155.30	2,548.6	-8.6	-2.9	9.0	198.56
2,643.0	1.20	151.70	2,642.6	-10.0	-2.1	10.2	192.01
2,736.0	1.60	151.90	2,735.5	-12.0	-1.1	12.1	185.02
2,830.0	2.20	130.70	2,829.5	-14.3	0.9	14.4	176.29
2,923.0	1.30	131.90	2,922.4	-16.2	3.1	16.5	169.29
3,002.0	0.40	129.60	3,001.4	-17.0	3.9	17.4	166.92
3,111.0	0.50	93.50	3,110.4	-17.3	4.7	17.9	164.72
3,204.0	0.60	94.10	3,203.4	-17.3	5.6	18.2	162.07
3,298.0	0.60	94.90	3,297.4	-17.4	6.6	18.6	159.26
3,391.0	0.40	82.60	3,390.4	-17.4	7.4	18.9	156.98
3,484.0	0.20	192.80	3,483.4	-17.5	7.7	19.1	156.32
3,578.0	0.30	195.00	3,577.4	-17.9	7.6	19.5	157.06
3,671.0	0.30	34.80	3,670.4	-18.0	7.7	19.5	156.90
3,764.0	0.40	293.10	3,763.4	-17.6	7.5	19.2	156.95
3,858.0	0.40	357.20	3,857.4	-17.2	7.2	18.6	157.31
3,951.0	0.30	273.80	3,950.4	-16.8	6.9	18.2	157.64
4,044.0	0.30	227.30	4,043.4	-17.0	6.5	18.2	159.05
4,138.0	0.50	336.30	4,137.4	-16.8	6.2	17.9	159.85
4,231.0	0.30	256.80	4,230.4	-16.5	5.8	17.4	160.73
4,325.0	0.50	321.60	4,324.4	-16.2	5.3	17.0	162.00
4,418.0	0.70	334.60	4,417.4	-15.4	4.8	16.1	162.77
4,512.0	1.10	326.00	4,511.4	-14.1	4.0	14.6	164.10
4,605.0	1.10	308.20	4,604.4	-12.8	2.8	13.1	167.61
4,698.0	0.60	292.30	4,697.4	-12.1	1.7	12.2	172.17

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4,792.0	0.40	313.10	4,791.4	-11.6	1.0	11.7	175.27
4,885.0	0.50	289.70	4,884.4	-11.3	0.3	11.3	178.25
4,979.0	0.70	259.90	4,978.4	-11.3	-0.6	11.3	183.09
5,072.0	0.20	259.70	5,071.4	-11.4	-1.3	11.5	186.64
5,166.0	0.90	223.00	5,165.3	-11.9	-2.0	12.1	189.46
5,259.0	0.90	199.80	5,258.3	-13.2	-2.7	13.5	191.74
5,352.0	0.20	287.90	5,351.3	-13.8	-3.1	14.2	192.80
5,446.0	1.00	285.00	5,445.3	-13.5	-4.1	14.1	196.79
5,539.0	1.00	290.30	5,538.3	-13.1	-5.6	14.2	203.34
5,633.0	0.60	287.50	5,632.3	-12.6	-6.9	14.4	208.56
5,726.0	1.00	250.00	5,725.3	-12.8	-8.1	15.1	212.41
5,820.0	0.50	255.00	5,819.3	-13.1	-9.3	16.1	215.19
5,913.0	0.40	229.60	5,912.3	-13.5	-9.9	16.7	216.36
6,007.0	1.40	49.80	6,006.3	-12.9	-9.3	15.9	215.66
6,101.0	1.10	47.90	6,100.3	-11.6	-7.7	13.9	213.72
6,194.0	0.80	84.70	6,193.2	-10.9	-6.4	12.7	210.45
6,288.0	1.20	68.20	6,287.2	-10.5	-4.9	11.6	204.82
6,381.0	1.10	76.20	6,380.2	-9.9	-3.1	10.4	197.26
6,474.0	0.30	69.70	6,473.2	-9.6	-2.0	9.8	191.67
6,568.0	0.40	190.10	6,567.2	-9.9	-1.8	10.0	190.42
6,661.0	0.70	214.70	6,660.2	-10.6	-2.2	10.9	191.64
6,755.0	0.90	228.40	6,754.2	-11.6	-3.1	12.0	194.83
6,848.0	1.50	227.40	6,847.2	-12.9	-4.5	13.7	199.27
6,942.0	1.40	252.70	6,941.1	-14.1	-6.5	15.5	204.82
7,035.0	1.50	268.80	7,034.1	-14.5	-8.8	16.9	211.39
7,129.0	1.90	256.70	7,128.1	-14.8	-11.6	18.8	217.93
7,222.0	0.90	350.30	7,221.0	-14.5	-13.2	19.6	222.34



Microsoft
MWD Surveys



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7,316.0	1.30	26.10	7,315.0	-12.8	-12.8	18.1	225.12
7,409.0	1.50	23.80	7,408.0	-10.7	-11.9	16.0	227.94
7,503.0	0.80	333.00	7,502.0	-9.0	-11.7	14.8	232.35
7,596.0	2.20	270.30	7,595.0	-8.4	-13.8	16.1	238.53
7,690.0	0.90	300.90	7,688.9	-8.0	-16.2	18.1	243.61
7,783.0	0.90	248.00	7,781.9	-7.9	-17.5	19.2	245.61
7,877.0	0.40	307.20	7,875.9	-8.0	-18.5	20.1	246.52
7,970.0	1.70	87.30	7,968.9	-7.8	-17.3	19.0	245.90
8,063.0	2.10	87.40	8,061.8	-7.6	-14.3	16.2	241.90
8,157.0	1.90	90.40	8,155.8	-7.5	-11.0	13.3	235.49
8,251.0	1.10	91.70	8,249.7	-7.6	-8.5	11.4	228.32
8,344.0	0.50	131.90	8,342.7	-7.9	-7.3	10.8	222.90
8,438.0	1.40	150.30	8,436.7	-9.2	-6.5	11.2	215.17
8,532.0	0.70	121.50	8,530.7	-10.5	-5.4	11.8	207.29
8,625.0	0.20	58.50	8,623.7	-10.7	-4.8	11.7	204.10
8,719.0	0.90	208.60	8,717.7	-11.2	-5.0	12.3	203.94
8,812.0	0.80	237.00	8,810.7	-12.2	-5.9	13.6	205.68
8,905.0	1.30	254.90	8,903.7	-12.8	-7.4	14.8	210.07
8,999.0	1.20	232.00	8,997.7	-13.7	-9.2	16.6	213.95
9,092.0	1.30	241.00	9,090.6	-14.8	-10.9	18.4	216.38
9,186.0	1.90	252.60	9,184.6	-15.8	-13.4	20.7	220.16
9,279.0	2.10	251.20	9,277.5	-16.8	-16.4	23.5	224.31
9,373.0	1.50	248.90	9,371.5	-17.8	-19.2	26.2	227.14
9,466.0	1.60	272.00	9,464.5	-18.2	-21.7	28.3	229.91
9,559.0	1.10	247.20	9,557.4	-18.5	-23.8	30.1	232.07
9,654.0	0.50	199.50	9,652.4	-19.3	-24.8	31.4	232.09
9,747.0	0.60	191.40	9,745.4	-20.1	-25.0	32.1	231.14



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9,841.0	0.80	207.40	9,839.4	-21.2	-25.4	33.1	230.13
9,934.0	0.60	201.90	9,932.4	-22.2	-25.9	34.1	229.32
10,027.0	1.10	191.70	10,025.4	-23.6	-26.2	35.2	228.07
10,121.0	1.30	192.20	10,119.4	-25.5	-26.6	36.9	226.27
10,214.0	0.70	216.60	10,212.4	-27.0	-27.2	38.3	225.24
10,307.0	1.80	351.00	10,305.3	-26.0	-27.8	38.0	226.90
10,401.0	2.50	337.00	10,399.3	-22.6	-28.8	36.6	231.83
10,495.0	2.80	294.40	10,493.2	-19.8	-31.7	37.4	238.00
10,589.0	3.10	287.00	10,587.1	-18.1	-36.2	40.5	243.43
10,683.0	2.10	265.80	10,681.0	-17.5	-40.4	44.0	246.57
10,722.0	2.50	262.20	10,719.9	-17.7	-41.9	45.5	247.16
10,753.0	2.90	247.30	10,750.9	-18.1	-43.3	46.9	247.37
10,784.0	3.10	233.80	10,781.9	-18.8	-44.7	48.5	247.14
10,816.0	3.20	216.10	10,813.8	-20.1	-45.9	50.1	246.38
10,847.0	5.80	192.20	10,844.7	-22.3	-46.8	51.8	244.50
10,878.0	9.60	180.90	10,875.4	-26.4	-47.1	54.0	240.72
10,909.0	12.70	177.60	10,905.8	-32.4	-47.0	57.1	235.43
10,940.0	16.50	174.70	10,935.8	-40.2	-46.5	61.5	229.14
10,971.0	20.30	173.00	10,965.3	-49.9	-45.4	67.5	222.29
11,002.0	23.50	175.50	10,994.0	-61.4	-44.3	75.7	215.79
11,033.0	26.60	182.30	11,022.1	-74.5	-44.1	86.8	210.60
11,064.0	29.50	186.30	11,049.5	-89.1	-45.2	99.9	206.91
11,095.0	30.60	187.00	11,076.3	-104.5	-47.0	114.6	204.22
11,127.0	32.20	184.70	11,103.6	-121.1	-48.7	130.5	201.91
11,158.0	34.60	182.80	11,129.5	-138.1	-49.8	146.8	199.83
11,189.0	35.60	183.50	11,154.8	-155.9	-50.8	164.0	198.04
11,220.0	38.00	184.00	11,179.7	-174.4	-52.0	182.0	196.60

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TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
11,255.0	41.90	182.40	11,206.5	-196.9	-53.2	203.9	195.13
11,286.0	47.60	180.00	11,228.5	-218.7	-53.7	225.1	193.79
11,317.0	54.10	179.00	11,248.1	-242.7	-53.4	248.5	192.42
11,349.0	60.30	175.80	11,265.4	-269.5	-52.2	274.5	190.96
11,380.0	66.60	173.30	11,279.2	-297.1	-49.6	301.2	189.47
11,418.0	74.50	173.20	11,291.9	-332.7	-45.3	335.8	187.76
11,449.0	79.70	174.10	11,298.8	-362.7	-42.0	365.1	186.61
11,480.0	86.20	175.60	11,302.6	-393.3	-39.2	395.3	185.70
11,511.0	92.70	176.10	11,302.9	-424.2	-37.0	425.8	184.99
11,542.0	91.50	176.10	11,301.8	-455.1	-34.9	456.5	184.38
11,574.0	91.60	178.90	11,300.9	-487.1	-33.5	488.2	183.93
11,605.0	86.40	176.30	11,301.4	-518.0	-32.2	519.0	183.56
11,636.0	88.00	177.40	11,303.0	-549.0	-30.5	549.8	183.18
11,667.0	92.50	179.80	11,302.8	-579.9	-29.7	580.7	182.94
11,697.5	90.23	178.72	11,302.1	-610.5	-29.4	611.2	182.75
LP Fuller 14-23 W2IP Fed #4H							
11,698.0	90.20	178.70	11,302.1	-610.9	-29.3	611.6	182.75
11,730.0	89.10	179.80	11,302.3	-642.9	-28.9	643.6	182.58
11,761.0	90.50	182.00	11,302.4	-673.9	-29.4	674.6	182.50
11,792.0	89.80	184.60	11,302.3	-704.9	-31.2	705.5	182.53
11,823.0	90.70	186.90	11,302.2	-735.7	-34.3	736.5	182.67
11,854.0	89.00	189.00	11,302.3	-766.4	-38.6	767.4	182.88
11,885.0	87.20	191.60	11,303.3	-796.9	-44.1	798.1	183.17
11,916.0	86.30	193.50	11,305.0	-827.1	-50.9	828.6	183.52
11,947.0	85.80	193.50	11,307.2	-857.2	-58.1	859.1	183.88
11,979.0	83.70	192.50	11,310.1	-888.2	-65.2	890.6	184.20
12,010.0	83.60	190.10	11,313.5	-918.4	-71.3	921.2	184.44



Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
12,041.0	83.10	188.40	11,317.1	-948.8	-76.2	951.9	184.59
12,072.0	85.10	187.40	11,320.3	-979.3	-80.5	982.6	184.70
12,103.0	86.10	186.10	11,322.7	-1,010.0	-84.1	1,013.5	184.76
12,135.0	86.00	186.30	11,324.9	-1,041.8	-87.5	1,045.4	184.80
12,166.0	87.20	185.20	11,326.7	-1,072.6	-90.6	1,076.4	184.83
12,197.0	88.10	183.60	11,328.0	-1,103.4	-93.0	1,107.4	184.82
12,228.0	88.50	182.10	11,328.9	-1,134.4	-94.6	1,138.3	184.77
12,259.0	90.20	180.60	11,329.3	-1,165.4	-95.3	1,169.3	184.67
12,290.0	91.60	179.50	11,328.8	-1,196.4	-95.3	1,200.2	184.56
12,321.0	92.50	179.90	11,327.7	-1,227.4	-95.2	1,231.0	184.43
12,353.0	92.00	180.00	11,326.4	-1,259.3	-95.1	1,262.9	184.32
12,415.0	89.70	177.90	11,325.5	-1,321.3	-94.0	1,324.6	184.07
12,508.0	89.10	176.90	11,326.5	-1,414.2	-89.8	1,417.1	183.63
12,602.0	92.20	178.80	11,325.4	-1,508.1	-86.2	1,510.6	183.27
12,695.0	89.20	175.30	11,324.3	-1,601.0	-81.5	1,603.0	182.91
12,788.0	86.50	174.70	11,327.8	-1,693.5	-73.4	1,695.1	182.48
12,882.0	90.80	178.50	11,330.0	-1,787.3	-67.8	1,788.6	182.17
12,975.0	89.20	172.60	11,330.0	-1,880.0	-60.6	1,881.0	181.85
13,006.0	90.10	171.80	11,330.2	-1,910.7	-56.4	1,911.5	181.69
13,038.0	89.40	171.10	11,330.3	-1,942.3	-51.6	1,943.0	181.52
13,069.0	89.20	170.60	11,330.7	-1,972.9	-46.7	1,973.5	181.36
13,100.0	90.20	170.80	11,330.9	-2,003.5	-41.7	2,004.0	181.19
13,131.0	89.80	170.70	11,330.9	-2,034.1	-36.7	2,034.5	181.03
13,162.0	90.10	169.50	11,330.9	-2,064.7	-31.4	2,064.9	180.87
13,193.0	89.70	169.00	11,330.9	-2,095.1	-25.6	2,095.3	180.70
13,225.0	89.50	168.80	11,331.2	-2,126.5	-19.4	2,126.6	180.52
13,256.0	88.90	169.50	11,331.6	-2,157.0	-13.6	2,157.0	180.36



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
13,287.0	89.30	172.10	11,332.1	-2,187.6	-8.6	2,187.6	180.23
13,318.0	87.10	174.90	11,333.1	-2,218.3	-5.1	2,218.3	180.13
13,349.0	88.30	177.00	11,334.3	-2,249.2	-2.9	2,249.2	180.07
13,381.0	88.70	178.00	11,335.1	-2,281.2	-1.5	2,281.2	180.04
13,412.0	87.60	177.70	11,336.1	-2,312.2	-0.4	2,312.2	180.01
13,443.0	90.70	180.90	11,336.6	-2,343.1	0.0	2,343.1	180.00
13,474.0	93.90	181.40	11,335.4	-2,374.1	-0.6	2,374.1	180.02
13,505.0	94.90	182.30	11,333.0	-2,405.0	-1.6	2,405.0	180.04
13,537.0	94.80	181.90	11,330.3	-2,436.9	-2.8	2,436.9	180.07
13,568.0	91.30	181.90	11,328.6	-2,467.8	-3.8	2,467.8	180.09
13,599.0	93.70	181.50	11,327.3	-2,498.7	-4.7	2,498.8	180.11
13,630.0	93.50	181.40	11,325.3	-2,529.7	-5.5	2,529.7	180.12
13,661.0	93.40	181.90	11,323.5	-2,560.6	-6.4	2,560.6	180.14
13,723.0	88.70	180.50	11,322.3	-2,622.6	-7.7	2,622.6	180.17
13,754.0	89.10	181.60	11,322.9	-2,653.6	-8.3	2,653.6	180.18
13,785.0	89.40	182.20	11,323.3	-2,684.5	-9.3	2,684.5	180.20
13,817.0	89.80	182.80	11,323.5	-2,716.5	-10.7	2,716.5	180.23
13,848.0	91.00	181.20	11,323.3	-2,747.5	-11.8	2,747.5	180.25
13,879.0	89.30	178.50	11,323.2	-2,778.5	-11.7	2,778.5	180.24
13,910.0	89.00	178.30	11,323.7	-2,809.5	-10.8	2,809.5	180.22
13,941.0	92.00	179.30	11,323.4	-2,840.4	-10.2	2,840.5	180.21
14,003.0	98.20	181.40	11,317.9	-2,902.2	-10.6	2,902.2	180.21
14,034.0	98.20	181.40	11,313.5	-2,932.8	-11.3	2,932.9	180.22
14,065.0	95.60	180.70	11,309.8	-2,963.6	-11.9	2,963.6	180.23
14,096.0	93.30	181.90	11,307.4	-2,994.5	-12.6	2,994.5	180.24
14,127.0	92.10	181.50	11,305.9	-3,025.5	-13.5	3,025.5	180.26
14,158.0	91.00	181.10	11,305.1	-3,056.4	-14.2	3,056.5	180.27



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
14,189.0	90.70	180.70	11,304.6	-3,087.4	-14.7	3,087.5	180.27
14,283.0	91.60	180.30	11,302.7	-3,181.4	-15.5	3,181.4	180.28
14,376.0	89.30	179.80	11,302.0	-3,274.4	-15.6	3,274.4	180.27
14,470.0	88.70	180.00	11,303.6	-3,368.4	-15.4	3,368.4	180.26
14,563.0	94.40	183.90	11,301.1	-3,461.2	-18.6	3,461.3	180.31
14,594.0	94.90	184.10	11,298.6	-3,492.1	-20.7	3,492.1	180.34
14,626.0	93.90	183.30	11,296.2	-3,523.9	-22.8	3,524.0	180.37
14,657.0	93.60	183.70	11,294.1	-3,554.8	-24.7	3,554.9	180.40
14,688.0	92.80	184.00	11,292.4	-3,585.7	-26.8	3,585.8	180.43
14,719.0	91.30	182.90	11,291.3	-3,616.6	-28.6	3,616.7	180.45
14,750.0	89.90	182.60	11,291.0	-3,647.5	-30.1	3,647.7	180.47
14,781.0	88.90	182.20	11,291.3	-3,678.5	-31.4	3,678.6	180.49
14,844.0	86.40	182.40	11,293.9	-3,741.4	-33.9	3,741.6	180.52
14,875.0	87.70	182.60	11,295.5	-3,772.3	-35.3	3,772.5	180.54
14,906.0	86.70	182.00	11,297.0	-3,803.3	-36.5	3,803.4	180.55
14,937.0	87.10	183.10	11,298.7	-3,834.2	-37.9	3,834.4	180.57
14,968.0	87.90	183.30	11,300.0	-3,865.1	-39.6	3,865.3	180.59
14,999.0	92.30	185.10	11,300.0	-3,896.0	-41.9	3,896.2	180.62
15,031.0	92.40	185.90	11,298.6	-3,927.8	-45.0	3,928.1	180.66
15,062.0	89.80	185.20	11,298.0	-3,958.7	-48.0	3,959.0	180.69
15,093.0	88.60	183.20	11,298.5	-3,989.6	-50.2	3,989.9	180.72
15,124.0	88.70	182.80	11,299.2	-4,020.6	-51.9	4,020.9	180.74
15,155.0	89.10	183.20	11,299.8	-4,051.5	-53.5	4,051.9	180.76
15,186.0	88.70	182.90	11,300.4	-4,082.5	-55.1	4,082.8	180.77
15,217.0	88.20	182.20	11,301.2	-4,113.4	-56.5	4,113.8	180.79
15,249.0	90.50	184.10	11,301.6	-4,145.4	-58.3	4,145.8	180.81
15,280.0	94.50	186.30	11,300.3	-4,176.2	-61.1	4,176.6	180.84



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
15,311.0	94.60	187.00	11,297.8	-4,206.9	-64.6	4,207.4	180.88
15,342.0	88.90	184.00	11,296.8	-4,237.7	-67.6	4,238.3	180.91
15,373.0	87.80	183.30	11,297.7	-4,268.6	-69.6	4,269.2	180.93
15,404.0	89.20	184.00	11,298.5	-4,299.6	-71.6	4,300.2	180.95
15,435.0	90.10	184.10	11,298.7	-4,330.5	-73.7	4,331.1	180.98
15,467.0	91.00	183.90	11,298.4	-4,362.4	-76.0	4,363.1	181.00
15,498.0	90.30	183.00	11,298.1	-4,393.3	-77.8	4,394.0	181.02
15,529.0	90.10	183.00	11,298.0	-4,424.3	-79.5	4,425.0	181.03
15,591.0	91.90	184.10	11,296.9	-4,486.2	-83.3	4,486.9	181.06
15,685.0	88.00	179.70	11,297.0	-4,580.1	-86.4	4,580.9	181.08
15,778.0	89.30	181.20	11,299.2	-4,673.0	-87.1	4,673.9	181.07
15,872.0	87.60	180.70	11,301.7	-4,767.0	-88.7	4,767.8	181.07
15,965.0	91.50	181.90	11,302.4	-4,860.0	-90.8	4,860.8	181.07
16,059.0	88.80	180.70	11,302.2	-4,953.9	-92.9	4,954.8	181.07
16,152.0	90.80	182.60	11,302.5	-5,046.9	-95.6	5,047.8	181.09
16,245.0	89.40	181.90	11,302.4	-5,139.8	-99.3	5,140.8	181.11
16,339.0	90.60	181.30	11,302.4	-5,233.8	-101.9	5,234.7	181.12
16,432.0	93.40	184.50	11,299.1	-5,326.6	-106.6	5,327.6	181.15
16,526.0	90.80	181.40	11,295.7	-5,420.3	-111.4	5,421.5	181.18
16,619.0	90.10	180.80	11,294.9	-5,513.3	-113.2	5,514.5	181.18
16,713.0	89.10	181.40	11,295.6	-5,607.3	-115.0	5,608.5	181.18
16,806.0	91.40	182.70	11,295.2	-5,700.2	-118.3	5,701.5	181.19
16,902.0	90.80	181.90	11,293.3	-5,796.1	-122.2	5,797.4	181.21
16,997.0	88.20	178.60	11,294.2	-5,891.1	-122.6	5,892.4	181.19
17,092.0	89.40	179.50	11,296.2	-5,986.1	-121.0	5,987.3	181.16
17,187.0	89.70	179.30	11,296.9	-6,081.1	-120.0	6,082.3	181.13
17,282.0	89.90	179.60	11,297.2	-6,176.1	-119.1	6,177.2	181.11



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (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 (°)
17,378.0	92.50	181.90	11,295.2	-6,272.0	-120.4	6,273.2	181.10
17,473.0	89.80	181.80	11,293.3	-6,366.9	-123.5	6,368.1	181.11
17,567.0	89.60	184.80	11,293.8	-6,460.8	-128.9	6,462.1	181.14
17,662.0	94.90	188.80	11,290.1	-6,555.0	-140.1	6,556.5	181.22
17,757.0	90.00	186.40	11,286.0	-6,649.0	-152.6	6,650.8	181.32
17,852.0	86.90	186.00	11,288.6	-6,743.4	-162.9	6,745.4	181.38
17,945.0	86.70	183.60	11,293.8	-6,835.9	-170.7	6,838.1	181.43
18,040.0	91.10	182.50	11,295.6	-6,930.8	-175.7	6,933.0	181.45
18,135.0	89.50	179.30	11,295.1	-7,025.7	-177.2	7,028.0	181.44
18,230.0	91.00	179.80	11,294.7	-7,120.7	-176.5	7,122.9	181.42
18,325.0	90.20	179.10	11,293.7	-7,215.7	-175.5	7,217.9	181.39
18,420.0	89.80	177.50	11,293.7	-7,310.7	-172.7	7,312.7	181.35
18,515.0	92.00	176.50	11,292.2	-7,405.5	-167.8	7,407.4	181.30
18,610.0	90.00	180.20	11,290.5	-7,500.5	-165.0	7,502.3	181.26
18,705.0	88.70	181.70	11,291.6	-7,595.4	-166.6	7,597.3	181.26
18,800.0	87.40	180.50	11,294.9	-7,690.4	-168.4	7,692.2	181.25
18,895.0	89.40	184.30	11,297.5	-7,785.2	-172.4	7,787.1	181.27
18,977.0	90.20	190.40	11,297.8	-7,866.5	-182.9	7,868.6	181.33
19,020.9	90.20	190.40	11,297.6	-7,909.7	-190.8	7,912.0	181.38
PBHL Fuller 14-23 W2IP Fed #4H							
19,030.0	90.20	190.40	11,297.6	-7,918.6	-192.5	7,921.0	181.39
19030' Projected to Bit							



Microsoft
MWD Surveys



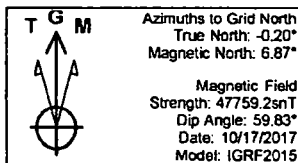
Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23.26S-29E Fuller14-23 W2IP Fed #4
Well: Fuller 14-23 W2IP Fed #4H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W2IP Fed #4H
TVD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
MD Reference: 2953 + 27 @ 2980.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
522.0	522.0	-2.7	-3.7	522.0' MD Phoenix Gyro
19,030.0	11,297.6	-7,918.6	-192.5	19030' Projected to Bit

GEODETIC ZONE: New Mexico Eastern Zone										
2953 + 27 @ 2980 Ousft (Patterson 250)										
GROUND ELEVATION: 2953.0										
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	379385.40	661141.20	32° 2' 32.715 N	103° 56' 48.041 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	10744.0	0.00	0.00	10744.0	0.0	0.0	0.00	0.00	0.0	
3	11646.8	90.27	180.67	11317.0	-575.6	-6.7	10.00	180.67	575.7	
4	18999.4	90.27	180.67	11282.0	-7927.7	-92.2	0.00	0.00	7928.2	PBHL Fuller 14-23 W2IP Fed #4H



SHL: 2500' FNL; 350' FEL
Section 14-26S-29E
PBHL: 330' FSL; 440' FEL
Section 23-26S-29E

