



January 31, 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 19 2018

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
Fuller 14 23 W1IP Federal #001H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
~~CAP# 30-015-44451#~~

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	756ft. to 18,088ft.	12-09-17 to 01-05-18	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 23 W1IP Federal #1HM171127

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



January 31, 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 December 09, 2017, through January 05, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 756 feet to a depth of 18,088 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 W11P Federal #001H well, API # 30-015-44451 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 14-23-26S-29E Fuller 14-23 W1IP Fed 1I
Well: Fuller 14-23 W1IP Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W1IP Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
MD Reference: 2952 + 27 @ 2979.0usft (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 14-23-26S-29E Fuller 14-23 W1IP Fed 1H		
Site Position:		Northing:	379,385.80 usft
From:	Map	Easting:	661,091.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 32.721 N
		Longitude:	103° 56' 48.622 W
		Grid Convergence:	0.21 °

Well		Fuller 14-23 W1IP Fed 1H				
Well Position	+N/-S	0.0 usft	Northing:	379,385.80 usft	Latitude:	32° 2' 32.721 N
	+E/-W	0.0 usft	Easting:	661,091.20 usft	Longitude:	103° 56' 48.622 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,952.0 usft	

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/7/2017	7.07	59.83	47,753.34725087

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	355.10	

Survey Program	Date 1/5/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
615.0	18,140.0	MWD Survey #1 (Original Hole)	MWD	MWD v3:standard declination	



Microsoft
MWD Surveys



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Survey Calculation Method: Minimum Curvature
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
615.0	0.41	230.64	615.0	0.9	-5.9	6.0	278.97
756.0	0.70	209.60	755.9	-0.1	-6.7	6.7	268.81
816.0	0.90	198.60	815.9	-0.9	-7.0	7.1	262.68
877.0	0.80	205.10	876.9	-1.7	-7.4	7.6	256.69
938.0	0.90	213.30	937.9	-2.5	-7.8	8.2	252.06
1,000.0	1.10	216.80	999.9	-3.4	-8.4	9.1	247.97
1,065.0	0.30	168.60	1,064.9	-4.1	-8.8	9.7	245.07
1,128.0	0.20	273.10	1,127.9	-4.2	-8.9	9.8	244.44
1,192.0	0.40	307.40	1,191.9	-4.1	-9.1	10.0	245.88
1,255.0	0.50	295.10	1,254.9	-3.8	-9.6	10.3	248.11
1,319.0	0.70	309.10	1,318.9	-3.5	-10.1	10.7	251.04
1,383.0	1.00	306.20	1,382.9	-2.9	-10.9	11.3	255.06
1,446.0	0.90	309.90	1,445.9	-2.3	-11.7	11.9	259.07
1,510.0	1.10	326.40	1,509.9	-1.4	-12.4	12.5	263.45
1,573.0	1.10	325.50	1,572.9	-0.4	-13.1	13.1	268.15
1,636.0	1.10	330.80	1,635.9	0.6	-13.7	13.8	272.51
1,700.0	1.10	332.90	1,699.8	1.7	-14.3	14.4	276.71
1,763.0	1.10	335.70	1,762.8	2.8	-14.8	15.1	280.59
1,826.0	1.00	64.40	1,825.8	3.6	-14.6	15.0	283.72
1,890.0	1.90	90.70	1,889.8	3.8	-13.0	13.6	286.22
1,953.0	1.70	107.10	1,952.8	3.5	-11.1	11.6	287.53
2,017.0	0.70	189.90	2,016.8	2.8	-10.3	10.6	285.48
2,080.0	1.80	246.80	2,079.7	2.1	-11.2	11.4	280.45
2,173.0	0.40	272.30	2,172.7	1.5	-12.9	13.0	276.67
2,266.0	0.50	20.40	2,265.7	1.9	-13.1	13.2	278.27
2,359.0	0.40	357.50	2,358.7	2.6	-13.0	13.2	281.38
2,453.0	0.40	40.80	2,452.7	3.2	-12.8	13.1	284.01



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
2,546.0	1.00	81.90	2,545.7	3.5	-11.7	12.3	286.80
2,640.0	1.20	86.90	2,639.7	3.7	-9.9	10.6	290.47
2,733.0	1.60	97.00	2,732.7	3.6	-7.7	8.5	295.15
2,827.0	1.80	159.60	2,826.6	2.1	-5.9	6.2	289.37
2,921.0	2.50	166.50	2,920.6	-1.3	-4.9	5.0	254.90
3,014.0	0.10	103.30	3,013.5	-3.3	-4.3	5.4	232.57
3,108.0	1.30	356.90	3,107.5	-2.3	-4.3	4.9	242.26
3,201.0	1.40	0.60	3,200.5	-0.1	-4.3	4.3	269.07
3,295.0	1.50	6.00	3,294.5	2.3	-4.2	4.8	298.71
3,388.0	1.60	6.40	3,387.4	4.8	-3.9	6.2	320.70
3,481.0	1.40	6.60	3,480.4	7.2	-3.7	8.1	333.15
3,575.0	1.50	7.10	3,574.4	9.6	-3.4	10.2	340.62
3,668.0	1.60	8.30	3,667.3	12.1	-3.0	12.5	345.90
3,761.0	1.80	7.80	3,760.3	14.8	-2.6	15.0	349.86
3,855.0	1.80	7.70	3,854.3	17.7	-2.2	17.9	352.77
3,948.0	1.80	12.10	3,947.2	20.6	-1.7	20.7	355.15
4,042.0	1.60	7.00	4,041.2	23.4	-1.3	23.4	356.87
4,135.0	1.80	5.50	4,134.1	26.1	-1.0	26.1	357.85
4,165.0	1.70	0.20	4,164.1	27.0	-0.9	27.0	358.02
4,230.0	1.80	3.30	4,229.1	29.0	-0.9	29.0	358.28
4,324.0	0.30	119.60	4,323.1	30.3	-0.6	30.4	358.92
4,417.0	0.50	62.30	4,416.1	30.4	0.0	30.4	360.00
4,510.0	0.40	127.50	4,509.1	30.4	0.6	30.4	1.16
4,604.0	0.20	258.40	4,603.1	30.2	0.7	30.2	1.36
4,697.0	1.80	166.50	4,696.0	28.7	0.9	28.7	1.79
4,790.0	1.60	182.10	4,789.0	26.0	1.2	26.0	2.62
4,884.0	1.40	184.80	4,883.0	23.5	1.0	23.6	2.55



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23-26S-29E Fuller 14-23 W1IP Fed 11
Well: Fuller 14-23 W1IP Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W1IP Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
MD Reference: 2952 + 27 @ 2979.0usft (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 (°)
4,977.0	1.30	190.60	4,976.0	21.4	0.8	21.4	2.03
5,071.0	1.60	183.70	5,069.9	19.0	0.5	19.0	1.44
5,164.0	1.50	177.30	5,162.9	16.5	0.5	16.5	1.56
5,258.0	1.60	185.60	5,256.9	14.0	0.4	14.0	1.56
5,351.0	1.10	194.90	5,349.8	11.8	0.0	11.8	0.12
5,445.0	1.20	209.20	5,443.8	10.1	-0.7	10.1	356.10
5,538.0	1.40	198.90	5,536.8	8.2	-1.5	8.3	349.38
5,632.0	1.50	205.50	5,630.8	6.0	-2.4	6.4	337.81
5,725.0	0.70	211.30	5,723.7	4.4	-3.3	5.5	323.42
5,819.0	0.80	215.60	5,817.7	3.4	-3.9	5.2	310.49
5,912.0	1.00	209.70	5,910.7	2.1	-4.7	5.2	294.27
6,006.0	0.80	255.20	6,004.7	1.2	-5.8	5.9	282.20
6,100.0	0.80	246.30	6,098.7	0.8	-7.0	7.0	276.64
6,193.0	0.70	240.50	6,191.7	0.3	-8.1	8.1	271.93
6,286.0	0.40	230.20	6,284.7	-0.2	-8.8	8.8	268.60
6,380.0	0.40	218.90	6,378.7	-0.7	-9.3	9.3	265.80
6,473.0	0.70	229.20	6,471.7	-1.3	-9.9	10.0	262.50
6,566.0	0.80	238.50	6,564.7	-2.0	-10.9	11.1	259.52
6,660.0	1.10	229.50	6,658.7	-2.9	-12.1	12.5	256.37
6,753.0	0.80	186.10	6,751.6	-4.2	-12.9	13.5	252.08
6,847.0	0.90	211.80	6,845.6	-5.4	-13.3	14.4	247.79
6,940.0	0.50	114.90	6,938.6	-6.2	-13.4	14.8	244.97
7,034.0	0.70	280.40	7,032.6	-6.3	-13.6	15.0	245.04
7,127.0	0.60	306.00	7,125.6	-5.9	-14.5	15.7	247.80
7,221.0	1.10	351.80	7,219.6	-4.7	-15.0	15.8	252.51
7,314.0	0.90	23.80	7,312.6	-3.2	-14.9	15.2	257.90
7,408.0	1.10	36.50	7,406.6	-1.8	-14.0	14.1	262.75



Microsoft MWD Surveys



Company: Mewbourne Oil Company
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Site: Section 14-23-26S-29E Fuller 14-23 W1IP Fed 1I
Well: Fuller 14-23 W1IP Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W1IP Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
7,501.0	0.90	16.00	7,499.6	-0.4	-13.3	13.3	268.42
7,595.0	1.00	14.60	7,593.6	1.1	-12.9	12.9	275.04
7,688.0	1.50	342.60	7,686.5	3.1	-13.1	13.4	283.29
7,782.0	1.80	340.20	7,780.5	5.6	-13.9	15.0	292.08
7,875.0	1.70	110.50	7,873.5	6.5	-13.1	14.7	296.48
7,969.0	1.90	106.60	7,967.4	5.6	-10.3	11.7	298.50
8,062.0	1.20	167.40	8,060.4	4.2	-8.6	9.6	296.02
8,156.0	1.30	191.10	8,154.4	2.2	-8.6	8.9	284.35
8,249.0	1.60	248.90	8,247.4	0.7	-10.0	10.1	274.01
8,343.0	1.50	238.50	8,341.3	-0.4	-12.3	12.3	268.09
8,437.0	0.50	147.50	8,435.3	-1.4	-13.1	13.2	263.92
8,530.0	0.70	110.80	8,528.3	-1.9	-12.4	12.5	261.09
8,624.0	0.20	0.70	8,622.3	-2.0	-11.9	12.0	260.50
8,717.0	0.70	208.00	8,715.3	-2.3	-12.1	12.3	259.15
8,811.0	0.90	226.00	8,809.3	-3.3	-12.9	13.3	255.49
8,904.0	1.10	225.70	8,902.3	-4.5	-14.1	14.8	252.38
8,998.0	0.90	354.70	8,996.3	-4.4	-14.8	15.4	253.55
9,091.0	0.70	345.70	9,089.3	-3.1	-15.0	15.3	258.36
9,185.0	0.80	304.80	9,183.3	-2.2	-15.7	15.8	262.16
9,278.0	0.50	272.60	9,276.2	-1.8	-16.6	16.7	263.92
9,371.0	0.80	283.70	9,369.2	-1.6	-17.7	17.7	264.83
9,465.0	1.00	261.80	9,463.2	-1.6	-19.1	19.2	265.33
9,558.0	0.40	43.00	9,556.2	-1.4	-19.7	19.7	265.82
9,652.0	0.20	197.10	9,650.2	-1.4	-19.5	19.6	266.03
9,746.0	0.40	224.00	9,744.2	-1.7	-19.8	19.9	264.95
9,827.0	0.70	247.50	9,825.2	-2.1	-20.4	20.6	264.02
9,866.0	0.70	232.40	9,864.2	-2.4	-20.9	21.0	263.50



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9,897.0	2.70	185.40	9,895.2	-3.2	-21.1	21.3	261.31
9,928.0	7.60	177.10	9,926.1	-6.0	-21.0	21.9	254.09
9,959.0	12.60	175.90	9,956.6	-11.4	-20.7	23.6	241.11
9,990.0	16.40	173.30	9,986.6	-19.1	-19.9	27.6	226.17
10,022.0	20.10	175.80	10,017.0	-29.1	-19.0	34.8	213.14
10,053.0	23.40	179.70	10,045.8	-40.6	-18.6	44.6	204.61
10,084.0	26.20	182.30	10,073.9	-53.6	-18.8	56.8	199.36
10,115.0	28.80	183.70	10,101.4	-67.9	-19.6	70.6	196.10
10,146.0	31.30	182.70	10,128.2	-83.4	-20.4	85.8	193.78
10,177.0	33.80	181.00	10,154.4	-100.0	-21.0	102.2	191.84
10,208.0	36.20	179.00	10,179.8	-117.8	-21.0	119.7	190.09
10,239.0	38.60	177.60	10,204.4	-136.6	-20.4	138.2	188.49
10,271.0	40.70	176.80	10,229.0	-157.0	-19.4	158.2	187.04
10,302.0	43.30	175.80	10,252.0	-177.7	-18.1	178.6	185.80
10,333.0	45.40	176.40	10,274.2	-199.3	-16.6	200.0	184.76
10,364.0	47.00	176.80	10,295.7	-221.7	-15.3	222.2	183.94
10,395.0	48.90	176.50	10,316.4	-244.7	-13.9	245.1	183.26
10,426.0	51.00	177.60	10,336.4	-268.4	-12.7	268.7	182.71
10,458.0	53.80	177.90	10,355.9	-293.7	-11.7	293.9	182.28
10,489.0	58.90	178.50	10,373.1	-319.5	-10.9	319.7	181.95
10,520.0	64.00	178.40	10,387.9	-346.7	-10.2	346.8	181.68
10,552.0	66.60	178.00	10,401.3	-375.7	-9.2	375.9	181.41
10,583.0	69.40	176.80	10,412.9	-404.4	-7.9	404.5	181.12
10,614.0	72.20	176.10	10,423.1	-433.7	-6.1	433.7	180.81
10,645.0	75.80	176.10	10,431.6	-463.4	-4.1	463.4	180.51
10,661.0	77.60	176.70	10,435.3	-478.9	-3.1	478.9	180.37
10,734.0	82.10	178.50	10,448.1	-550.7	-0.1	550.7	180.01



Microsoft
MWD Surveys



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Design: Original Hole

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,765.0	83.40	179.50	10,452.1	-581.4	0.4	581.4	179.96
10,776.1	84.08	179.86	10,453.3	-592.5	0.5	592.5	179.95
LP Fuller 14-23 W1IP Fed 1H							
10,796.0	85.30	180.50	10,455.1	-612.3	0.4	612.3	179.96
10,827.0	85.90	180.90	10,457.5	-643.2	0.0	643.2	180.00
10,858.0	87.60	181.70	10,459.2	-674.1	-0.7	674.1	180.06
10,889.0	87.30	180.50	10,460.6	-705.1	-1.3	705.1	180.10
10,921.0	88.30	179.90	10,461.9	-737.1	-1.4	737.1	180.11
10,952.0	89.90	179.80	10,462.3	-768.1	-1.3	768.1	180.10
10,983.0	92.90	179.80	10,461.6	-799.1	-1.2	799.1	180.08
11,014.0	94.50	180.50	10,459.6	-830.0	-1.3	830.0	180.09
11,045.0	94.10	180.80	10,457.3	-860.9	-1.6	860.9	180.11
11,107.0	94.50	181.70	10,452.6	-922.7	-3.0	922.7	180.18
11,201.0	92.10	181.00	10,447.2	-1,016.5	-5.2	1,016.5	180.29
11,294.0	91.00	180.80	10,444.7	-1,109.5	-6.6	1,109.5	180.34
11,388.0	88.00	179.00	10,445.5	-1,203.5	-6.5	1,203.5	180.31
11,481.0	88.30	178.30	10,448.5	-1,296.4	-4.3	1,296.4	180.19
11,574.0	87.90	179.50	10,451.6	-1,389.3	-2.5	1,389.3	180.10
11,668.0	91.90	180.10	10,451.8	-1,483.3	-2.2	1,483.3	180.08
11,761.0	88.70	182.70	10,451.3	-1,576.2	-4.4	1,576.3	180.16
11,854.0	91.50	183.60	10,451.1	-1,669.1	-9.5	1,669.1	180.33
11,948.0	92.40	183.60	10,447.9	-1,762.9	-15.4	1,762.9	180.50
12,041.0	89.70	181.80	10,446.2	-1,855.7	-19.8	1,855.8	180.61
12,135.0	92.30	182.70	10,444.6	-1,949.6	-23.5	1,949.8	180.69
12,228.0	89.00	180.50	10,443.5	-2,042.6	-26.1	2,042.7	180.73
12,322.0	90.30	178.80	10,444.1	-2,136.6	-25.5	2,136.7	180.68
12,415.0	92.20	185.60	10,442.1	-2,229.4	-29.1	2,229.6	180.75



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23-26S-29E Fuller 14-23 W11P Fed 1I
Well: Fuller 14-23 W11P Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W11P Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
MD Reference: 2952 + 27 @ 2979.0usft (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 (°)
12,509.0	91.50	181.90	10,439.0	-2,323.1	-35.2	2,323.4	180.87
12,602.0	90.20	179.40	10,437.6	-2,416.1	-36.3	2,416.4	180.86
12,695.0	87.60	178.60	10,439.4	-2,509.1	-34.7	2,509.3	180.79
12,789.0	90.30	182.10	10,441.1	-2,603.0	-35.3	2,603.3	180.78
12,882.0	93.00	183.10	10,438.5	-2,695.9	-39.5	2,696.2	180.84
12,976.0	93.50	182.10	10,433.1	-2,789.6	-43.7	2,790.0	180.90
13,069.0	87.00	179.40	10,432.7	-2,882.6	-44.9	2,882.9	180.89
13,162.0	86.60	180.70	10,437.9	-2,975.4	-45.0	2,975.8	180.87
13,256.0	87.10	179.00	10,443.1	-3,069.3	-44.8	3,069.6	180.84
13,349.0	86.50	177.90	10,448.3	-3,162.1	-42.3	3,162.4	180.77
13,443.0	93.80	179.80	10,448.0	-3,256.0	-40.4	3,256.3	180.71
13,537.0	91.30	178.70	10,443.9	-3,349.9	-39.2	3,350.1	180.67
13,630.0	87.50	175.90	10,444.8	-3,442.8	-34.8	3,442.9	180.58
13,723.0	91.80	176.50	10,445.4	-3,535.5	-28.6	3,535.7	180.46
13,817.0	89.50	171.00	10,444.3	-3,628.9	-18.4	3,629.0	180.29
13,910.0	88.50	172.70	10,446.0	-3,721.0	-5.2	3,721.0	180.08
14,002.0	90.20	175.80	10,447.0	-3,812.5	4.0	3,812.5	179.94
14,095.0	90.70	174.70	10,446.3	-3,905.2	11.7	3,905.2	179.83
14,188.0	91.30	181.80	10,444.6	-3,998.1	14.6	3,998.1	179.79
14,282.0	90.70	181.20	10,443.0	-4,092.0	12.1	4,092.0	179.83
14,375.0	96.00	181.40	10,437.6	-4,184.8	10.0	4,184.8	179.86
14,469.0	92.90	182.40	10,430.3	-4,278.4	6.9	4,278.4	179.91
14,562.0	89.00	181.90	10,428.7	-4,371.3	3.4	4,371.3	179.96
14,656.0	92.40	182.20	10,427.6	-4,465.3	0.0	4,465.3	180.00
14,749.0	87.80	180.50	10,427.4	-4,558.2	-2.2	4,558.2	180.03
14,843.0	89.20	183.40	10,429.9	-4,652.1	-5.4	4,652.1	180.07
14,936.0	87.80	182.40	10,432.3	-4,745.0	-10.1	4,745.0	180.12

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23-26S-29E Fuller 14-23 W1IP Fed 1I
Well: Fuller 14-23 W1IP Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W1IP Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
MD Reference: 2952 + 27 @ 2979.0usft (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 (°)
15,030.0	88.40	183.40	10,435.4	-4,838.8	-14.8	4,838.8	180.18
15,123.0	91.40	184.30	10,435.6	-4,931.6	-21.1	4,931.6	180.24
15,216.0	90.00	183.80	10,434.5	-5,024.3	-27.6	5,024.4	180.32
15,310.0	90.50	190.50	10,434.0	-5,117.5	-39.3	5,117.7	180.44
15,403.0	90.20	193.50	10,433.5	-5,208.5	-58.7	5,208.8	180.65
15,497.0	92.10	191.70	10,431.6	-5,300.2	-79.2	5,300.8	180.86
15,591.0	88.20	187.10	10,431.3	-5,392.9	-94.5	5,393.7	181.00
15,684.0	86.20	182.70	10,435.9	-5,485.4	-102.4	5,486.4	181.07
15,778.0	84.30	175.60	10,443.7	-5,579.0	-101.1	5,579.9	181.04
15,871.0	87.60	170.80	10,450.3	-5,671.1	-90.1	5,671.8	180.91
15,965.0	95.50	168.80	10,447.7	-5,763.5	-73.4	5,764.0	180.73
16,058.0	98.10	172.50	10,436.7	-5,854.6	-58.4	5,854.9	180.57
16,151.0	96.00	176.10	10,425.3	-5,946.4	-49.3	5,946.6	180.47
16,245.0	91.00	175.40	10,419.5	-6,039.9	-42.3	6,040.1	180.40
16,338.0	91.50	176.90	10,417.5	-6,132.7	-36.1	6,132.8	180.34
16,432.0	91.00	183.40	10,415.5	-6,226.6	-36.3	6,226.7	180.33
16,525.0	86.10	179.70	10,417.8	-6,319.5	-38.8	6,319.6	180.35
16,619.0	89.30	179.50	10,421.6	-6,413.4	-38.2	6,413.6	180.34
16,712.0	92.90	179.00	10,419.8	-6,506.4	-37.0	6,506.5	180.33
16,806.0	90.70	176.90	10,416.9	-6,600.3	-33.6	6,600.4	180.29
16,901.0	91.20	178.40	10,415.3	-6,695.2	-29.7	6,695.3	180.25
16,996.0	90.20	175.90	10,414.1	-6,790.1	-25.0	6,790.1	180.21
17,091.0	90.70	177.00	10,413.4	-6,884.9	-19.1	6,884.9	180.16
17,186.0	90.60	177.50	10,412.3	-6,979.7	-14.6	6,979.8	180.12
17,282.0	89.50	172.20	10,412.2	-7,075.3	-5.9	7,075.3	180.05
17,377.0	92.60	182.80	10,410.5	-7,170.1	-1.8	7,170.1	180.01
17,472.0	91.20	186.80	10,407.3	-7,264.7	-9.7	7,264.7	180.08

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-23-26S-29E Fuller 14-23 W11P Fed 11
Well: Fuller 14-23 W11P Fed 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-23 W11P Fed 1H
TVD Reference: 2952 + 27 @ 2979.0usft (Patterson 250)
MD Reference: 2952 + 27 @ 2979.0usft (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 (°)
17,567.0	88.60	187.10	10,407.5	-7,359.0	-21.2	7,359.0	180.17
17,662.0	90.10	187.40	10,408.6	-7,453.2	-33.2	7,453.3	180.26
17,757.0	92.70	184.00	10,406.2	-7,547.7	-42.7	7,547.8	180.32
17,852.0	90.30	184.70	10,403.7	-7,642.4	-49.9	7,642.5	180.37
17,947.0	93.20	189.70	10,400.8	-7,736.5	-61.8	7,736.8	180.46
18,042.0	92.10	189.40	10,396.5	-7,830.1	-77.5	7,830.5	180.57
18,088.0	92.40	189.70	10,394.6	-7,875.4	-85.1	7,875.9	180.62
18,114.5	92.40	189.70	10,393.5	-7,901.5	-89.6	7,902.0	180.65
PBHL Fuller 14-23 W11P Fed 1H							
18,140.0	92.40	189.70	10,392.5	-7,926.6	-93.9	7,927.2	180.68
18140' MD Projected to Bit							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,140.0	10,392.5	-7,926.6	-93.9	18140' MD Projected to Bit