



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 February 22, 2018, through March 15, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 677 feet to a depth of 17,708 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 W1HA Federal Com #002H well, API # ~~30-015-44450~~ 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

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**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

RECEIVED

JUL 12 2018

DISTRICT II-ARTESIA O.C.D.

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 W1HA Federal Com #002H

Purple Sage; Wolfcamp (Gas)

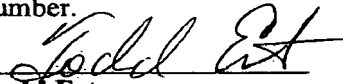
Eddy County, New Mexico

API# 30-015-44450

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>
Dave Calabrese	Original Hole	677ft. to 17,708ft.	02-22-18 to 03-15-18	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 W1HA Federal Com #2H\181023

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Montgomery, TX 77356

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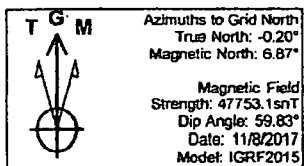
COMPANY: Mewbourne Oil Company
WELL: Fuller 14-11 W1HA Fed #2H
COUNTY: Eddy County, N.M. Mad (83)
DATUM: North American Datum 1983
RIG: Patterson #250



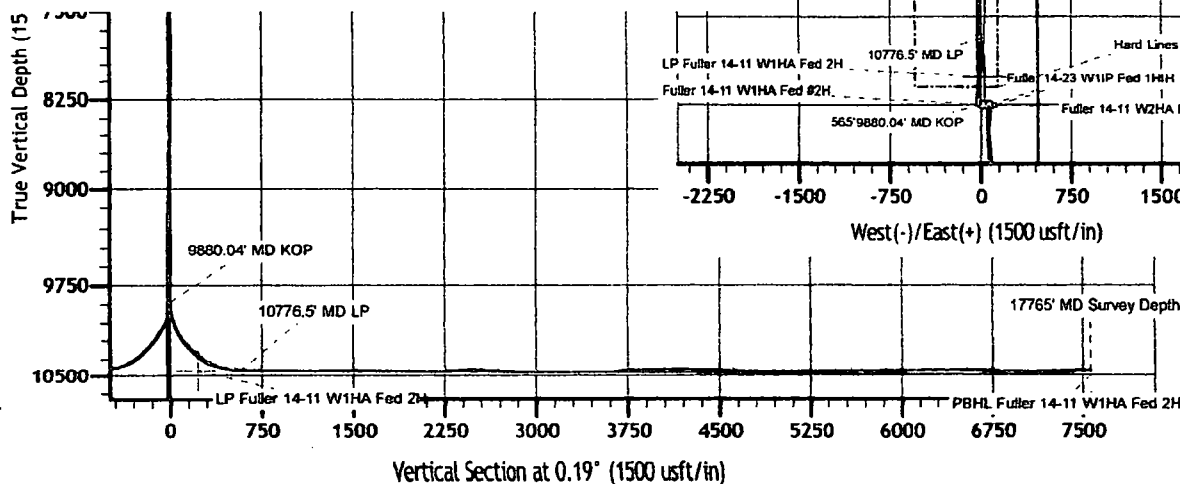
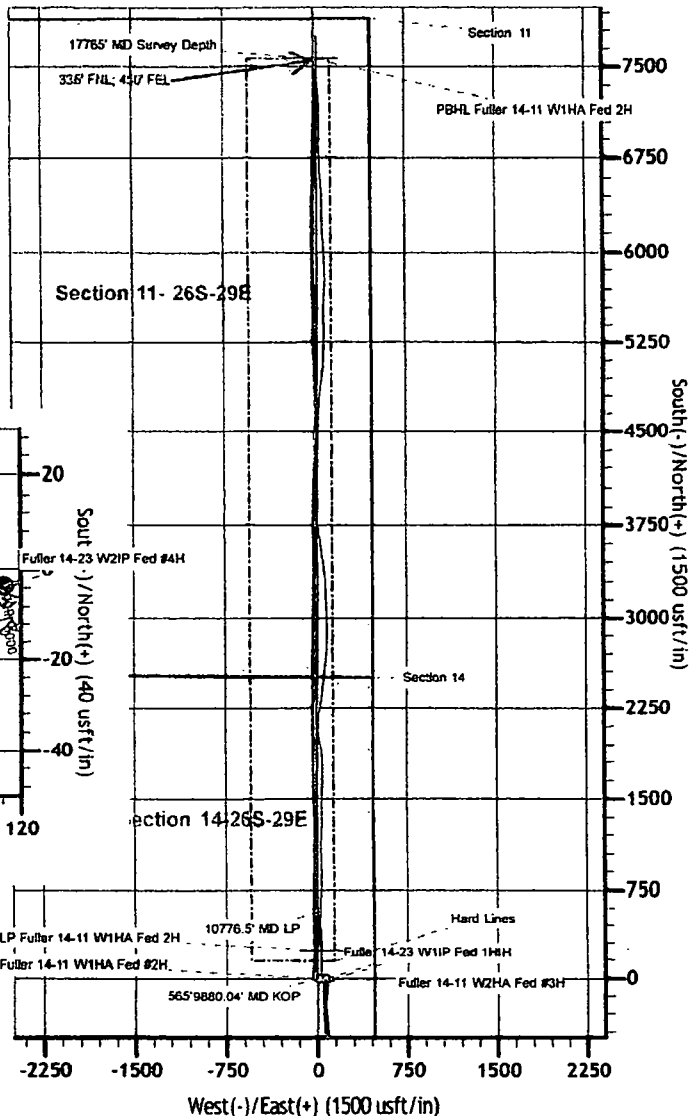
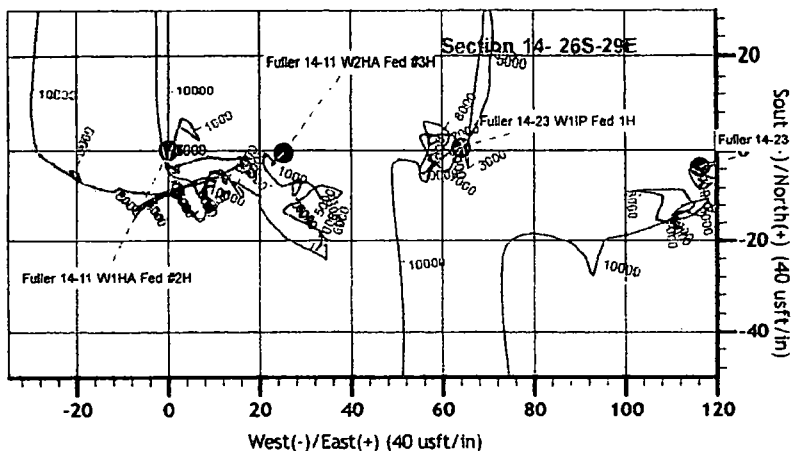
OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.87°

GEODETIC ZONE: New Mexico Eastern Zone										
2949 +27 @ 2976 Oush (Patterson #250)										
GROUND ELEVATION: 2949.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	379385.20	661021.20	32° 2' 32.727 N	103° 56' 49.435 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sekt	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9880.0	0.00	0.00	9880.0	0.0	0.0	0.00	0.00	0.0	
3	10776.5	89.65	0.19	10453.0	569.4	1.9	10.00	0.19	569.4	
4	17771.7	89.65	0.19	10496.0	7564.4	25.3	0.00	0.00	7564.4	PBHL Fuller 14-11 W1HA Fed 2H



SHL: 2500' FNL: 470' FEL
Section 14-26S-29E
PBHL: 330' FNL: 440' FEL
Section 11-26S-29E





Microsoft MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2
Well: Fuller 14-11 W1HA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W1HA Fed #2H
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
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2H

Site Position:		Northing:	379,386.20 usft	Latitude:	32° 2' 32.727 N
From: Map		Easting:	661,021.20 usft	Longitude:	103° 56' 49.435 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well Fuller 14-11 W1HA Fed #2H

Well Position	+N-S	0.0 usft	Northing:	379,386.20 usft	Latitude:	32° 2' 32.727 N
	+E-W	0.0 usft	Easting:	661,021.20 usft	Longitude:	103° 56' 49.435 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	2,949.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/8/2017	7.07	59.83	47,753.06453300

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	0.11	

Survey Program Date 3/15/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
565.0	17,765.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2
Well: Fuller 14-11 W1HA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W1HA Fed #2H
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 (°)	
565.0	1.18	113.40	564.9	4.9	3.0	5.7	31.46	Tie-In
565.1	1.18	113.40	565.0	4.9	3.0	5.7	31.48	
565 MD Phoenix Gyro								
687.0	1.20	134.30	686.9	3.5	5.0	6.1	55.42	
748.0	1.40	132.10	748.9	2.5	6.1	6.6	67.49	
809.0	0.20	82.40	808.9	2.0	6.7	7.0	73.12	
871.0	0.90	332.20	870.9	2.5	6.6	7.1	69.37	
932.0	0.90	338.50	931.9	3.4	6.2	7.1	61.59	
994.0	0.90	331.50	993.9	4.2	5.8	7.2	53.82	
1,024.0	0.90	326.70	1,023.9	4.6	5.6	7.2	50.11	
1,090.0	0.90	325.30	1,089.9	5.5	5.0	7.4	42.11	
1,154.0	1.50	311.80	1,153.8	6.5	4.1	7.6	32.10	
1,217.0	0.70	264.10	1,216.8	7.0	3.1	7.6	23.69	
1,281.0	1.30	189.00	1,280.8	6.2	2.6	6.7	22.36	
1,345.0	1.30	198.90	1,344.8	4.8	2.2	5.3	24.92	
1,408.0	1.30	197.80	1,407.8	3.4	1.8	3.9	27.69	
1,472.0	1.20	205.50	1,471.8	2.2	1.3	2.5	31.11	
1,535.0	1.10	199.70	1,534.8	1.0	0.8	1.3	39.41	
1,599.0	1.10	193.00	1,598.8	-0.2	-0.5	-0.5	112.25	
1,662.0	1.10	193.50	1,661.7	-1.4	0.2	1.4	172.17	
1,725.0	1.00	189.20	1,724.7	-2.5	0.0	2.5	180.94	
1,789.0	0.40	156.30	1,788.7	-3.3	0.0	3.3	180.71	
1,852.0	0.60	90.10	1,851.7	-3.5	0.4	3.5	173.78	
1,916.0	0.70	80.90	1,915.7	-3.4	1.1	3.6	162.06	
1,979.0	0.90	74.00	1,978.7	-3.2	2.0	3.7	148.56	
2,074.0	1.10	73.90	2,073.7	-2.7	3.5	4.5	127.67	
2,170.0	0.80	74.10	2,169.7	-2.3	5.1	5.6	114.37	



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (93)
Site: Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2
Well: Fuller 14-11 W1HA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W1HA Fed #2H
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 (°)
2,264.0	0.70	69.70	2,263.7	-1.9	6.2	6.5	107.09
2,357.0	0.40	75.30	2,356.7	-1.6	7.1	7.3	103.03
2,451.0	0.80	85.30	2,450.7	-1.5	8.1	8.2	100.57
2,544.0	1.60	94.60	2,543.7	-1.6	10.0	10.1	98.83
2,638.0	1.80	94.10	2,637.6	-1.8	12.8	12.9	97.86
2,731.0	0.50	73.00	2,730.8	-1.8	14.6	14.7	96.83
2,825.0	0.60	79.50	2,824.6	-1.5	15.5	15.6	95.88
2,918.0	1.30	96.60	2,917.6	-1.6	17.0	17.1	95.28
3,012.0	1.10	237.10	3,011.6	-2.2	17.3	17.5	97.19
3,105.0	1.60	246.60	3,104.5	-3.2	15.5	15.8	101.53
3,199.0	1.20	244.50	3,198.5	-4.1	13.5	14.1	106.83
3,292.0	1.30	242.30	3,291.5	-5.0	11.6	12.7	113.15
3,386.0	1.20	245.70	3,385.5	-5.9	9.8	11.4	120.96
3,479.0	1.20	252.30	3,478.4	-6.6	8.0	10.3	128.48
3,572.0	1.20	258.50	3,571.4	-7.1	6.1	9.3	139.19
3,667.0	1.30	257.50	3,666.4	-7.5	4.1	8.5	151.48
3,760.0	1.40	252.30	3,759.4	-8.1	2.0	8.3	166.33
3,853.0	1.40	249.20	3,852.4	-8.8	-0.2	8.6	181.18
3,947.0	1.10	245.10	3,946.3	-9.6	-2.1	9.8	192.18
4,040.0	0.90	238.90	4,039.3	-10.4	-3.5	10.9	198.71
4,133.0	1.00	241.60	4,132.3	-11.1	-4.8	12.1	203.55
4,235.0	1.00	234.90	4,234.3	-12.1	-6.4	13.6	207.81
4,329.0	0.90	225.10	4,328.3	-13.1	-7.6	15.1	210.06
4,422.0	1.40	65.10	4,421.3	-13.1	-7.0	14.9	208.27
4,515.0	1.10	64.50	4,514.2	-12.2	-5.2	13.3	203.06
4,609.0	1.20	57.30	4,608.2	-11.3	-3.6	11.9	197.48
4,702.0	1.20	59.40	4,701.2	-10.3	-1.9	10.5	190.49



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2
Well: Fuller 14-11 W1HA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W1HA Fed #2H
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 (°)
4,795.0	1.10	67.70	4,794.2	-9.4	-0.2	9.5	181.45
4,889.0	1.00	70.00	4,888.2	-8.8	1.4	8.9	171.20
4,982.0	0.90	63.00	4,981.2	-8.2	2.8	8.7	161.31
5,076.0	1.30	58.50	5,075.1	-7.3	4.3	8.5	149.32
5,169.0	0.90	62.60	5,168.1	-6.4	5.9	8.7	137.53
5,263.0	0.90	74.60	5,262.1	-5.9	7.3	9.4	129.11
5,356.0	0.70	87.00	5,355.1	-5.7	8.5	10.2	123.64
5,450.0	0.20	138.60	5,449.1	-5.8	9.2	10.9	122.06
5,543.0	0.40	144.70	5,542.1	-6.2	9.5	11.3	122.93
5,637.0	0.80	138.20	5,636.1	-6.9	10.1	12.3	124.30
5,730.0	0.50	262.50	5,729.1	-7.5	10.2	12.6	126.24
5,823.0	0.60	267.60	5,822.1	-7.5	9.3	11.9	129.05
5,917.0	0.40	253.10	5,916.1	-7.6	8.5	11.4	132.05
6,011.0	0.30	239.20	6,010.1	-7.9	7.9	11.2	134.69
6,104.0	0.40	187.00	6,103.1	-8.3	7.7	11.3	137.19
6,198.0	0.40	172.20	6,197.1	-9.0	7.7	11.8	139.32
6,291.0	0.50	148.60	6,290.1	-9.6	8.0	12.5	140.42
6,385.0	0.60	146.20	6,384.1	-10.4	8.4	13.4	140.89
6,478.0	0.90	168.90	6,477.1	-11.5	8.9	14.5	142.42
6,571.0	0.60	213.10	6,570.1	-12.6	8.7	15.4	145.35
6,665.0	0.90	201.20	6,664.0	-13.7	8.2	16.0	149.17
6,758.0	1.00	199.90	6,757.0	-15.2	7.7	17.0	153.23
6,852.0	0.70	298.00	6,851.0	-15.7	6.9	17.1	156.34
6,945.0	0.80	326.30	6,944.0	-14.9	6.0	16.0	158.00
7,039.0	1.50	317.20	7,038.0	-13.4	4.8	14.3	160.29
7,132.0	0.90	294.90	7,131.0	-12.2	3.3	12.7	164.81
7,226.0	1.10	354.80	7,225.0	-11.0	2.6	11.3	166.88



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-11-26S-29E Fuller 14-11 WIHA Fed 2
Well: Fuller 14-11 WIHA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 WIHA Fed #2H
TVD Reference: 2949 +27 @ 2976.0usft (Patterson #250)
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Survey Calculation Method: Minimum Curvature
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Survey

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7,319.0	0.30	265.00	7,318.0	-10.1	2.2	10.4	167.53
7,413.0	0.30	293.00	7,412.0	-10.1	1.8	10.2	170.02
7,506.0	1.10	293.20	7,505.0	-9.6	0.7	9.7	175.68
7,600.0	1.80	266.90	7,598.9	-9.3	-1.6	9.5	189.57
7,693.0	1.80	274.50	7,691.9	-9.3	-4.5	10.3	205.74
7,787.0	2.40	277.10	7,785.8	-9.0	-7.9	12.0	221.47
7,880.0	0.70	313.70	7,878.8	-8.3	-10.3	13.2	230.95
7,973.0	0.10	283.50	7,971.8	-7.9	-10.7	13.3	233.65
8,067.0	0.30	182.90	8,065.8	-8.1	-10.8	13.6	233.11
8,161.0	0.90	248.40	8,159.8	-8.7	-11.5	14.4	233.13
8,254.0	1.00	283.20	8,252.8	-8.7	-13.0	15.7	236.11
8,348.0	2.30	286.20	8,346.7	-8.0	-15.6	17.6	242.81
8,442.0	1.80	291.70	8,440.7	-7.0	-18.8	20.0	248.71
8,535.0	1.80	318.90	8,533.6	-5.3	-21.1	21.8	255.88
8,629.0	0.60	77.60	8,627.6	-4.1	-21.6	22.0	259.27
8,722.0	0.70	118.30	8,720.6	-4.3	-20.6	21.1	258.34
8,816.0	0.40	152.20	8,814.6	-4.8	-20.0	20.5	256.43
8,909.0	0.50	199.00	8,907.8	-5.5	-20.0	20.7	254.61
9,003.0	0.40	112.60	9,001.6	-6.0	-19.8	20.7	253.12
9,096.0	0.20	177.50	9,094.6	-6.3	-19.5	20.5	252.10
9,190.0	0.20	14.80	9,188.6	-6.3	-19.4	20.4	252.04
9,283.0	0.20	356.50	9,281.6	-6.0	-19.4	20.3	252.87
9,376.0	0.40	286.70	9,374.6	-5.7	-19.7	20.5	253.82
9,430.0	0.30	281.80	9,428.6	-5.6	-20.0	20.8	254.28
9,523.0	0.70	301.40	9,521.6	-5.3	-20.8	21.4	255.69
9,617.0	1.50	296.60	9,615.6	-4.4	-22.4	22.8	258.75
9,711.0	1.10	299.50	9,709.5	-3.4	-24.2	24.5	261.90



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
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Wellbore: Original Hole
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9,804.0	1.30	300.90	9,802.5	-2.5	-25.9	26.0	264.56
9,897.0	2.10	309.70	9,895.5	-0.8	-28.1	28.1	268.29
9,928.0	5.10	343.30	9,926.4	0.8	-29.0	29.0	271.67
9,959.0	8.90	353.80	9,957.2	4.6	-29.6	30.0	278.73
9,990.0	12.70	358.40	9,987.6	10.3	-30.0	31.7	289.04
10,021.0	14.90	7.40	10,017.7	17.7	-29.6	34.5	300.92
10,052.0	17.70	5.80	10,047.5	26.3	-28.6	38.9	312.68
10,084.0	20.70	6.00	10,077.7	36.8	-27.5	45.9	323.25
10,115.0	24.10	3.20	10,106.4	48.6	-26.6	55.4	331.34
10,146.0	27.80	1.60	10,134.2	62.1	-26.0	67.4	337.29
10,177.0	30.90	3.80	10,161.2	77.3	-25.3	81.3	341.89
10,208.0	34.30	5.80	10,187.4	93.9	-23.9	96.9	345.75
10,239.0	38.20	6.90	10,212.3	112.2	-21.8	114.3	348.99
10,271.0	41.70	8.00	10,236.9	132.5	-19.2	133.9	351.77
10,302.0	45.50	6.00	10,259.3	153.7	-16.6	154.6	353.85
10,333.0	46.30	4.80	10,280.9	175.9	-14.5	176.5	355.30
10,364.0	47.80	0.90	10,302.0	198.6	-13.4	199.0	356.15
10,395.0	50.80	356.50	10,322.2	222.0	-13.9	222.5	356.42
10,426.0	54.30	354.40	10,341.1	246.6	-15.9	247.1	356.32
10,458.0	58.20	355.30	10,358.9	273.1	-18.3	273.7	356.18
10,461.1	58.61	355.59	10,360.5	275.7	-18.5	276.3	356.17
LP Fuller 14-11 WIHA Fed 2H							
10,477.0	60.70	357.00	10,368.5	289.4	-19.3	290.0	356.17
10,553.0	68.20	1.10	10,401.3	357.9	-20.4	358.5	356.74
10,584.0	72.60	0.60	10,411.7	387.1	-20.0	387.6	357.05
10,615.0	75.20	359.80	10,420.3	416.8	-19.9	417.3	357.27
10,646.0	77.10	359.20	10,427.7	446.9	-20.1	447.4	357.42



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
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Site: Section 14-11-26S-29E Fuller 14-11 W1HA Fed 2
Well: Fuller 14-11 W1HA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 W1HA Fed #2H
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)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
10,678.0	79.20	359.00	10,434.3	478.3	-20.6	478.7	357.53
10,708.0	82.70	358.60	10,439.0	507.9	-21.3	508.3	357.60
10,739.0	84.80	358.70	10,442.4	538.7	-22.0	539.1	357.66
10,771.0	86.30	0.20	10,444.8	570.6	-22.3	571.0	357.76
10,801.0	87.60	0.10	10,446.4	600.5	-22.2	600.9	357.88
10,833.0	89.30	0.40	10,447.3	632.5	-22.1	632.9	358.00
10,926.0	89.50	1.40	10,448.3	725.5	-20.6	725.8	358.37
11,020.0	88.80	2.40	10,449.7	819.4	-17.5	819.6	358.78
11,113.0	89.50	0.60	10,451.1	912.4	-15.1	912.5	359.05
11,206.0	89.80	0.60	10,451.6	1,005.4	-14.1	1,005.5	359.20
11,300.0	89.60	0.50	10,452.1	1,099.4	-13.2	1,099.5	359.31
11,393.0	89.50	0.90	10,452.8	1,192.4	-12.0	1,192.4	359.42
11,487.0	89.60	0.10	10,453.6	1,286.4	-11.2	1,286.4	359.50
11,580.0	87.90	358.20	10,455.6	1,379.3	-12.6	1,379.4	359.48
11,673.0	87.80	357.60	10,459.1	1,472.2	-16.0	1,472.3	359.38
11,767.0	91.50	358.60	10,459.7	1,568.1	-19.1	1,568.2	359.30
11,860.0	91.70	359.00	10,457.1	1,659.1	-21.1	1,659.2	359.27
11,954.0	89.50	0.30	10,456.1	1,753.1	-21.6	1,753.2	359.29
12,047.0	88.90	359.50	10,457.4	1,846.0	-21.8	1,846.2	359.32
12,141.0	87.80	358.70	10,460.1	1,940.0	-23.3	1,940.1	359.31
12,234.0	89.10	0.40	10,462.6	2,032.9	-24.0	2,033.1	359.32
12,327.0	87.60	359.40	10,465.3	2,125.9	-24.2	2,126.0	359.35
12,421.0	94.20	0.10	10,463.8	2,219.8	-24.6	2,220.0	359.37
12,514.0	94.10	0.80	10,457.1	2,312.8	-23.9	2,312.7	359.41
12,608.0	91.70	1.00	10,452.3	2,406.5	-22.4	2,406.6	359.47
12,701.0	89.60	359.60	10,451.3	2,499.4	-21.9	2,499.5	359.50
12,795.0	87.30	359.80	10,453.8	2,593.4	-22.4	2,593.5	359.51



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 14-11-26S-29E Fuller 14-11 WIHA Fed 2
Well: Fuller 14-11 WIHA Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Fuller 14-11 WIHA Fed #2H
TVD Reference: 2949 +27 @ 2976.0usft (Patterson #250)
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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)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,888.0	88.30	1.70	10,459.0	2,686.2	-21.2	2,686.3	359.55
12,981.0	89.40	1.30	10,462.5	2,779.1	-18.7	2,779.2	359.61
13,075.0	89.50	1.40	10,463.4	2,873.1	-16.5	2,873.1	359.67
13,168.0	89.00	0.80	10,464.6	2,966.1	-14.7	2,966.1	359.72
13,262.0	88.80	0.70	10,466.4	3,060.0	-13.5	3,060.1	359.75
13,355.0	89.00	0.60	10,468.2	3,153.0	-12.5	3,153.1	359.77
13,449.0	89.20	0.50	10,469.7	3,247.0	-11.6	3,247.0	359.80
13,542.0	89.10	0.10	10,471.1	3,340.0	-11.1	3,340.0	359.81
13,635.0	90.50	0.50	10,471.4	3,433.0	-10.6	3,433.0	359.82
13,728.0	92.00	0.70	10,469.4	3,526.0	-9.6	3,526.0	359.84
13,821.0	93.20	0.20	10,465.1	3,618.9	-8.9	3,618.9	359.86
13,915.0	90.40	358.90	10,482.2	3,712.8	-9.6	3,712.8	359.85
14,008.0	93.00	0.00	10,459.4	3,805.7	-10.5	3,805.8	359.84
14,102.0	92.90	359.90	10,454.6	3,899.6	-10.8	3,899.6	359.84
14,195.0	92.00	0.90	10,450.6	3,992.5	-9.9	3,992.5	359.86
14,289.0	89.60	4.50	10,449.3	4,086.4	-5.5	4,086.4	359.92
14,382.0	92.20	4.30	10,447.8	4,179.1	1.6	4,179.1	0.02
14,476.0	85.90	1.20	10,449.4	4,272.9	6.1	4,272.9	0.08
14,569.0	92.00	1.20	10,451.1	4,365.8	8.1	4,365.9	0.11
14,663.0	85.80	359.00	10,452.9	4,459.8	8.2	4,459.8	0.11
14,756.0	87.20	359.80	10,458.6	4,552.6	7.3	4,552.6	0.09
14,850.0	87.30	359.80	10,463.1	4,646.5	6.9	4,646.5	0.09
14,943.0	88.60	359.10	10,466.4	4,739.4	6.1	4,739.4	0.07
15,037.0	88.90	359.40	10,468.5	4,833.4	4.8	4,833.4	0.06
15,130.0	90.50	359.10	10,469.0	4,926.4	3.6	4,926.4	0.04
15,223.0	90.30	359.00	10,468.3	5,019.4	2.1	5,019.4	0.02
15,317.0	89.80	357.70	10,468.2	5,113.3	-0.6	5,113.3	359.99



Microsoft
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Wellbore: Original Hole
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 (°)
15,410.0	89.20	358.80	10,469.0	5,206.3	-3.5	5,206.3	359.96
15,504.0	90.40	359.50	10,469.4	5,300.3	-4.9	5,300.3	359.95
15,597.0	91.50	359.80	10,467.8	5,393.2	-5.4	5,393.2	359.94
15,691.0	91.10	359.70	10,465.7	5,487.2	-5.9	5,487.2	359.94
15,784.0	90.80	359.40	10,464.2	5,580.2	-6.6	5,580.2	359.93
15,878.0	89.70	358.90	10,463.7	5,674.2	-8.0	5,674.2	359.92
15,971.0	90.20	358.30	10,463.8	5,767.2	-10.3	5,767.2	359.90
16,065.0	91.30	359.10	10,462.8	5,861.1	-12.4	5,861.1	359.88
16,158.0	91.20	0.00	10,460.6	5,954.1	-13.1	5,954.1	359.87
16,252.0	90.80	0.10	10,458.9	6,048.1	-13.0	6,048.1	359.88
16,345.0	91.60	359.90	10,457.0	6,141.1	-13.0	6,141.1	359.88
16,439.0	91.60	0.00	10,454.4	6,235.0	-13.1	6,235.0	359.88
16,532.0	88.40	0.70	10,454.4	6,328.0	-12.5	6,328.0	359.89
16,628.0	89.30	1.70	10,456.3	6,424.0	-10.5	6,424.0	359.91
16,722.0	89.00	1.20	10,457.7	6,517.9	-8.2	6,517.9	359.93
16,818.0	88.60	1.50	10,459.7	6,613.9	-5.9	6,613.9	359.95
16,913.0	88.00	2.90	10,462.5	6,708.8	-2.3	6,708.8	359.98
17,008.0	87.20	1.70	10,466.5	6,803.6	1.6	6,803.6	0.01
17,103.0	88.00	1.00	10,470.5	6,898.5	3.8	6,898.5	0.03
17,198.0	88.90	1.40	10,473.0	6,993.4	5.8	6,993.4	0.05
17,293.0	91.10	1.30	10,473.0	7,088.4	8.0	7,088.4	0.06
17,388.0	91.70	1.40	10,470.7	7,183.3	10.3	7,183.4	0.08
17,483.0	91.30	0.50	10,468.2	7,278.3	11.8	7,278.3	0.09
17,578.0	92.00	0.20	10,465.5	7,373.3	12.4	7,373.3	0.10
17,673.0	91.30	0.40	10,462.8	7,468.2	12.9	7,468.2	0.10
17,708.0	90.90	1.00	10,462.1	7,503.2	13.3	7,503.2	0.10



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
17,765.0	90.90	1.00	10,461.2	7,560.2	14.3	7,560.2	0.11

17765' MD Projected to Bit - PBHL Fuller 14-11 W1HA Fed 2H

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
565.1	565.0	4.9	3.0	565' MD Phoenix Gyro
17,765.0	10,461.2	7,560.2	14.3	17765' MD Projected to Bit