

30-015-43621

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 18 2017



COMPANY: Mewbourne Oil Company
WELL: Slider 18 W0MD Fed Com #1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson 250

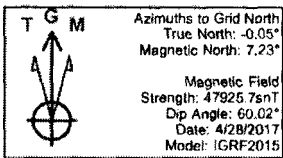
RECEIVED

Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 7.23°

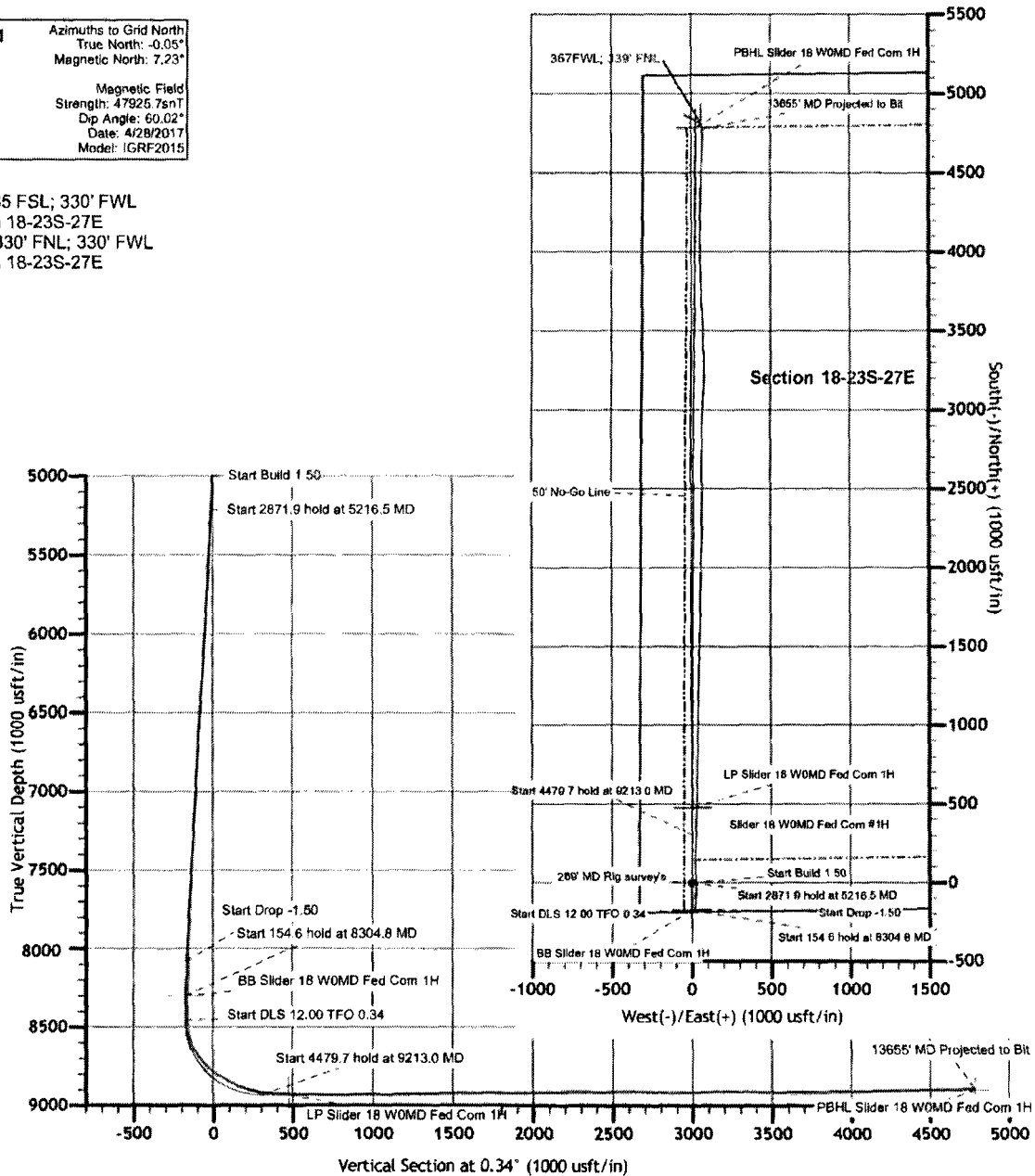
OFFICE: 934.582.7294

GEODETIC ZONE: New Mexico East 3001							Slot
3219 + 27 @ 3246.0usft (Patterson 250)							
GROUND ELEVATION: 3219.0							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	472072.60	530002.50	32° 17' 52.104 N	104° 14' 10.443 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5000.0	0.00	0.00	5000.0	0.0	0.0	0.00	0.00	0.0	
3	5216.5	3.25	180.30	5216.4	-6.1	0.0	1.50	180.30	-6.1	
4	8088.4	3.25	180.30	8083.6	-168.8	-0.9	0.00	0.00	-168.8	
5	8304.8	0.00	0.00	8300.0	-174.9	-0.9	1.50	180.00	-174.9	BB Slider 18 W0MD Fed Com 1H
6	8469.4	0.00	0.00	8464.6	-174.9	-0.9	0.00	0.00	-174.9	
7	9213.0	90.43	0.34	8932.0	306.1	2.0	12.00	0.34	306.1	
8	13692.7	90.43	0.34	8888.0	4785.6	28.7	0.00	0.00	4785.7	PBHL Slider 18 W0MD Fed Com 1H



SHL 185 FSL; 330' FWL
Section 18-23S-27E
PBHL 330' FNL; 330' FWL
Section 18-23S-27E





August 10, 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
Slider 18 W0MD Federal Com #001H
Wolfcamp Y Sand
Eddy County, New Mexico
API# 30-015-43621

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>
David Calabrese	Original Hole	574ft. to 13,599ft.	06-10-17 to 06-23-17	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\Slider 18 W0MD Fed Com #111M171039

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



August 10, 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 June 10, 2017, through June 23, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 574 feet to a depth of 13,599 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 Slider 18 W0MD Federal Com #001H well, API # **30-015-43621** 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



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #
Well: Slider 18 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 W0MD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project Eddy County, New Mexico
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site Section 18-23S-27E Slider 18 W0MD Fed Com #1H
Site Position:
From: Map
Position Uncertainty: 0.0 usft
Northing: 472,072.60 usft
Easting: 530,002.50 usft
Slot Radius: 13-3/16 "
Latitude: 32° 17' 52.104 N
Longitude: 104° 14' 10.443 W
Grid Convergence: 0.05 °

Well Slider 18 W0MD Fed Com #1H
Well Position +N/-S 0.0 usft
+E/-W 0.0 usft
Position Uncertainty 0.0 usft
Wellhead Elevation: 27.0 usft
Latitude: 32° 17' 52.104 N
Longitude: 104° 14' 10.443 W
Ground Level: 3,219.0 usft

Wellbore Original Hole

Magnetics Model Name IGRF2015 Sample Date 4/28/2017
Declination (°) 7.28
Dip Angle (°) 60.02
Field Strength (nT) 47,925.74930031

Design Original Hole

Audit Notes:
Version: 1.0
Phase: ACTUAL
Depth From (TVD) (usft) 0.0
Tie On Depth: +E/-W (usft) 0.0
Direction (°) 242.00



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #
Well: Slider 18 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 W0MD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 8/2/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
269.0	269.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
269.0	13,855.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
269.0	0.70	242.00	269.0	-0.8	-1.5	1.6	242.00
391.0	0.90	229.00	391.0	-1.7	-2.8	3.3	238.29
453.0	0.80	222.00	453.0	-2.4	-3.5	4.2	235.58
505.0	0.50	195.00	505.0	-2.9	-3.8	4.8	232.77
574.0	0.70	164.80	574.0	-3.6	-3.8	5.2	226.41
635.0	0.70	137.00	635.0	-4.2	-3.4	5.4	218.98
697.0	1.00	138.20	697.0	-4.9	-2.8	5.6	209.68
759.0	1.20	128.00	758.9	-5.7	-1.9	6.0	198.59
820.0	1.30	132.50	819.9	-6.6	-0.9	6.6	187.83
881.0	1.80	129.00	880.9	-7.6	0.4	7.6	177.35
943.0	2.70	127.00	942.9	-9.1	2.3	9.4	165.98
1,004.0	2.40	123.10	1,003.8	-10.7	4.5	11.6	157.18
1,101.0	1.00	102.60	1,100.8	-12.0	7.0	13.9	149.61
1,165.0	0.90	111.60	1,164.7	-12.3	8.0	14.7	146.80
1,228.0	0.90	115.10	1,227.7	-12.7	8.9	15.5	144.79
1,292.0	1.30	103.10	1,291.7	-13.0	10.1	16.5	142.25
1,355.0	1.90	99.80	1,354.7	-13.4	11.8	17.9	138.54
1,419.0	1.30	82.20	1,418.7	-13.5	13.6	19.1	134.74
1,482.0	0.80	46.30	1,481.7	-13.1	14.6	19.6	131.80
1,545.0	0.90	37.40	1,544.7	-12.4	15.2	19.6	129.07
1,609.0	1.20	52.10	1,608.6	-11.6	16.1	19.8	125.73



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 WMD Fed Com #
Well: Slider 18 WMD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference:
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (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 (°)
1,736.0	1.80	70.60	1,735.6	-10.1	19.0	21.5	117.95
1,886.0	2.30	73.90	1,885.5	-8.5	24.1	25.6	109.34
1,949.0	0.90	61.50	1,948.5	-7.9	25.8	26.9	107.00
2,014.0	0.30	356.90	2,013.5	-7.5	26.2	27.2	105.90
2,076.0	0.40	326.90	2,075.5	-7.1	26.1	27.0	105.27
2,170.0	0.50	339.20	2,169.5	-6.5	25.8	26.6	104.09
2,263.0	0.40	1.30	2,262.5	-5.8	25.6	26.3	102.67
2,357.0	0.40	353.20	2,356.5	-5.1	25.6	26.1	101.28
2,450.0	0.20	11.10	2,449.5	-4.6	25.6	26.0	100.25
2,543.0	0.20	58.70	2,542.5	-4.4	25.7	26.1	99.65
2,637.0	0.00	221.20	2,636.5	-4.3	25.9	26.2	99.42
2,730.0	0.10	357.60	2,729.5	-4.2	25.9	26.2	99.25
2,823.0	0.10	276.20	2,822.5	-4.1	25.8	26.1	99.08
2,917.0	0.30	245.00	2,916.5	-4.2	25.5	25.8	99.40
3,010.0	0.10	240.00	3,009.5	-4.4	25.2	25.6	99.82
3,104.0	0.30	248.70	3,103.5	-4.5	24.9	25.3	100.23
3,197.0	0.40	228.60	3,196.5	-4.8	24.4	24.9	101.10
3,291.0	0.40	229.70	3,290.5	-5.2	23.9	24.5	102.31
3,384.0	0.40	233.10	3,383.5	-5.6	23.4	24.1	103.51
3,478.0	0.30	240.00	3,477.5	-6.0	23.0	23.7	104.53
3,571.0	0.20	186.20	3,570.5	-6.2	22.7	23.6	105.34
3,665.0	0.00	178.90	3,664.5	-6.4	22.7	23.6	105.73
3,758.0	0.00	129.50	3,757.5	-6.4	22.7	23.6	105.73
3,852.0	0.10	170.80	3,851.5	-6.5	22.7	23.6	105.91
3,945.0	0.00	112.50	3,944.5	-6.6	22.7	23.7	106.09
4,039.0	0.10	17.90	4,038.5	-6.5	22.8	23.7	105.89
4,132.0	0.30	36.40	4,131.5	-6.2	22.9	23.8	105.14



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 WOMD Fed Com #
Well: Slider 18 WOMD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Wet Slider 18 WOMD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (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 (°)
4,226.0	0.40	21.80	4,225.5	-5.7	23.2	23.9	103.81
4,319.0	0.40	46.30	4,318.5	-5.2	23.6	24.1	102.40
4,412.0	0.10	267.50	4,411.5	-5.0	23.7	24.2	101.81
4,506.0	0.40	268.60	4,505.5	-5.0	23.3	23.8	102.04
4,599.0	0.60	257.90	4,598.4	-5.1	22.5	23.1	102.72
4,692.0	0.40	252.70	4,691.4	-5.3	21.7	22.3	103.66
4,786.0	0.60	270.30	4,785.4	-5.4	20.9	21.6	104.41
4,879.0	0.40	269.80	4,878.4	-5.4	20.1	20.8	104.96
4,973.0	0.40	281.40	4,972.4	-5.3	19.4	20.2	105.27
5,066.0	1.20	191.40	5,065.4	-6.2	18.9	19.9	108.12
5,159.0	3.10	173.60	5,158.4	-9.7	19.0	21.3	116.90
5,252.0	3.20	171.80	5,251.2	-14.7	19.7	24.6	126.81
5,345.0	3.00	169.60	5,344.1	-19.7	20.5	28.4	133.86
5,438.0	2.50	157.50	5,437.0	-24.0	21.7	32.3	137.83
5,532.0	3.00	152.60	5,530.9	-28.0	23.6	36.6	139.89
5,625.0	2.50	158.90	5,623.8	-32.1	25.5	41.0	141.56
5,718.0	3.20	171.10	5,716.6	-36.5	26.6	45.2	143.95
5,812.0	2.50	170.80	5,810.5	-41.2	27.3	49.4	146.41
5,905.0	3.60	190.00	5,903.4	-46.0	27.1	53.4	149.47
5,999.0	3.10	202.90	5,997.2	-51.3	25.6	57.3	153.43
6,092.0	2.50	202.40	6,090.1	-55.5	23.9	60.4	156.70
6,186.0	4.00	199.40	6,184.0	-60.5	22.0	64.3	159.99
6,279.0	4.50	192.60	6,276.7	-67.1	20.1	70.0	163.28
6,373.0	4.40	191.80	6,370.4	-74.2	18.6	76.5	165.92
6,466.0	4.00	191.20	6,463.2	-80.9	17.2	82.7	167.96
6,560.0	4.00	201.60	6,557.0	-87.1	15.4	88.5	169.98
6,654.0	3.90	213.50	6,650.7	-92.9	12.4	93.7	172.37



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 WQMD Fed Com #
Well: Slider 18 WQMD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 WQMD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (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 (°)
6,747.0	2.50	204.90	6,743.6	-97.3	9.8	97.8	174.23
6,841.0	2.90	188.30	6,837.5	-101.6	8.6	101.9	175.14
6,934.0	2.90	188.40	6,930.4	-106.2	7.9	106.5	175.72
7,028.0	2.90	188.30	7,024.2	-110.9	7.3	111.1	176.26
7,121.0	2.70	189.90	7,117.1	-115.4	6.5	115.6	176.76
7,215.0	2.20	193.80	7,211.0	-119.3	5.7	119.5	177.25
7,308.0	3.30	180.30	7,303.9	-123.7	5.3	123.9	177.55
7,402.0	2.80	184.60	7,397.8	-128.7	5.1	128.8	177.73
7,495.0	2.20	182.70	7,490.7	-132.8	4.8	132.9	177.92
7,589.0	3.70	181.10	7,584.6	-137.6	4.7	137.7	178.05
7,682.0	3.10	167.50	7,677.4	-143.1	5.2	143.2	177.93
7,776.0	2.80	155.10	7,771.3	-147.6	6.7	147.8	177.40
7,869.0	2.70	137.30	7,864.2	-151.3	9.1	151.6	176.54
7,963.0	3.00	128.60	7,958.1	-154.5	12.6	155.0	175.35
8,056.0	2.20	133.80	8,051.0	-157.2	15.7	158.0	174.28
8,150.0	1.50	143.00	8,144.9	-158.5	17.8	160.4	173.63
8,243.0	1.10	159.50	8,237.9	-161.3	18.8	162.4	173.34
8,305.3	1.15	172.62	8,300.2	-162.4	19.1	163.6	173.28
BB Slider 18 WQMD Fed Com 1H							
8,337.0	1.20	178.70	8,331.9	-163.1	19.2	164.2	173.29
8,399.0	1.20	189.50	8,393.9	-164.4	19.1	165.5	173.38
8,463.0	1.50	26.60	8,457.9	-164.3	19.3	165.4	173.28
8,494.0	6.20	8.60	8,488.8	-162.3	19.8	163.5	173.05
8,525.0	9.00	14.30	8,519.5	-158.3	20.6	159.6	172.57
8,557.0	13.30	11.30	8,550.9	-152.2	22.0	153.8	171.79
8,588.0	17.40	9.30	8,580.8	-144.2	23.4	146.0	170.77
8,619.0	22.10	5.30	8,610.0	-133.8	24.7	136.0	169.54



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 WMD Fed Com #
Well: Slider 18 WMD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 WMD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (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 (°)
8,650.0	26.40	0.80	8,638.2	-121.1	25.3	123.7	168.18
8,681.0	30.60	2.40	8,665.5	-106.3	25.8	109.4	166.37
8,713.0	35.40	1.60	8,692.3	-88.9	26.4	92.7	163.47
8,744.0	39.80	359.80	8,716.9	-70.0	26.6	74.8	159.19
8,775.0	44.40	358.00	8,739.8	-49.2	26.2	55.7	151.99
8,806.0	49.60	357.70	8,761.0	-26.5	25.3	36.7	136.35
8,837.0	53.40	358.30	8,780.3	-2.3	24.5	24.6	95.38
8,869.0	56.00	359.40	8,798.8	23.8	24.0	33.8	45.18
8,900.0	57.40	357.70	8,815.8	49.7	23.3	54.9	25.11
8,931.0	58.10	357.40	8,832.3	75.9	22.2	79.1	16.29
8,962.0	60.70	359.10	8,848.1	102.6	21.4	104.8	11.77
8,994.0	65.10	0.70	8,862.7	131.0	21.3	132.8	9.24
9,025.0	67.20	1.30	8,875.2	159.4	21.8	160.9	7.80
9,056.0	69.80	1.30	8,886.6	188.2	22.5	189.6	6.81
9,087.0	72.80	2.00	8,896.5	217.6	23.3	218.8	6.12
9,118.0	74.80	2.20	8,905.2	247.3	24.4	248.5	5.64
9,150.0	77.90	2.10	8,912.7	278.4	25.6	279.6	5.25
9,181.0	81.90	1.60	8,918.2	308.9	26.6	310.0	4.92
9,200.0	84.10	2.00	8,920.5	327.7	27.2	328.9	4.74
9,267.0	88.00	1.20	8,925.1	394.5	29.0	395.6	4.21
9,299.0	89.00	1.70	8,925.9	426.5	29.8	427.6	4.00
9,348.9	89.05	1.66	8,926.8	476.3	31.4	477.4	3.77
LP Slider 18 WMD Fed Com 1H							
9,392.0	89.10	2.00	8,927.5	519.5	32.8	520.5	3.62
9,486.0	87.00	1.00	8,930.7	613.4	35.3	614.4	3.29
9,600.0	89.90	0.20	8,933.7	727.3	36.5	728.2	2.87
9,694.0	91.50	0.80	8,932.6	821.3	37.3	822.1	2.60



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #
Well: Slider 18 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Slider 18 W0MD Fed Com #1H
3219 + 27 @ 3246.0usft (Patterson 250)
3219 + 27 @ 3246.0usft (Patterson 250)
Grid
Minimum Curvature
Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,788.0	90.00	160	8,931.4	915.3	39.3	916.1	2.46
9,881.0	89.40	160	8,931.9	1,008.2	41.9	1,009.1	2.38
9,975.0	90.00	060	8,932.3	1,102.2	43.7	1,103.1	2.27
10,068.0	91.80	160	8,930.9	1,195.2	45.5	1,196.0	2.18
10,162.0	92.40	120	8,927.4	1,289.1	47.8	1,290.0	2.12
10,256.0	92.00	150	8,923.8	1,383.0	50.0	1,383.9	2.07
10,349.0	92.00	200	8,920.6	1,475.9	52.8	1,476.8	2.05
10,443.0	91.00	140	8,918.1	1,569.8	55.6	1,570.8	2.03
10,536.0	89.60	100	8,917.6	1,662.8	57.5	1,663.8	1.98
10,630.0	88.50	060	8,919.2	1,756.7	58.9	1,757.7	1.92
10,723.0	90.10	070	8,920.3	1,849.7	59.9	1,850.7	1.86
10,817.0	91.20	120	8,919.3	1,943.7	61.5	1,944.7	1.81
10,910.0	93.40	190	8,915.5	2,036.6	64.0	2,037.6	1.80
11,004.0	90.80	210	8,912.1	2,130.5	67.3	2,131.5	1.81
11,097.0	90.50	140	8,911.0	2,223.4	70.1	2,224.5	1.81
11,190.0	88.70	359.60	8,911.7	2,316.4	70.9	2,317.5	1.75
11,284.0	90.20	359.60	8,912.6	2,410.4	70.3	2,411.4	1.67
11,377.0	91.10	020	8,911.5	2,503.4	70.1	2,504.4	1.60
11,471.0	91.20	000	8,909.6	2,597.4	70.3	2,598.3	1.55
11,564.0	87.10	040	8,911.0	2,690.3	70.6	2,691.3	1.50
11,657.0	87.70	050	8,915.2	2,783.2	71.3	2,784.2	1.47
11,751.0	89.10	000	8,917.9	2,877.2	71.7	2,878.1	1.43
11,844.0	92.00	230	8,917.0	2,970.2	73.6	2,971.1	1.42
11,937.0	91.40	340	8,914.2	3,063.0	76.2	3,064.0	1.46
12,030.0	91.40	190	8,911.9	3,155.9	82.5	3,157.0	1.50
12,124.0	90.10	359.30	8,910.7	3,249.8	83.5	3,250.9	1.47
12,217.0	87.20	357.50	8,912.9	3,342.8	80.9	3,343.8	1.39



Microsoft
MWD Surveys



Company: Newbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #
Well: Slider 18 W0MD Fed Com #1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 W0MD Fed Com #1H
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)
MD Reference: 3219 + 27 @ 3246.0usft (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 (°)
12,310.0	90.10	358.30	8,915.1	3,435.7	77.5	3,436.5	1.29
12,403.0	88.70	357.60	8,916.1	3,528.6	74.2	3,529.4	1.20
12,497.0	89.10	357.00	8,917.9	3,622.5	69.7	3,623.2	1.10
12,591.0	91.70	358.60	8,917.2	3,716.4	66.1	3,717.0	1.02
12,684.0	90.50	358.00	8,915.4	3,809.3	63.4	3,809.9	0.95
12,777.0	91.20	358.30	8,914.0	3,902.3	60.4	3,902.7	0.99
12,870.0	91.10	359.10	8,912.2	3,995.2	58.3	3,995.7	0.84
12,963.0	92.70	0.10	8,909.1	4,088.2	57.6	4,088.6	0.81
13,057.0	92.60	1.20	8,904.8	4,182.1	58.7	4,182.5	0.90
13,150.0	91.30	1.10	8,901.6	4,275.0	60.5	4,275.4	0.81
13,244.0	90.80	1.30	8,896.9	4,369.0	62.5	4,369.4	0.82
13,337.0	90.50	1.10	8,898.8	4,461.9	64.5	4,462.4	0.83
13,431.0	92.30	1.90	8,896.5	4,555.9	66.9	4,556.4	0.84
13,524.0	90.70	1.40	8,894.1	4,648.8	69.6	4,649.3	0.86
13,599.0	91.40	1.70	8,892.7	4,723.8	71.6	4,724.3	0.87
13,655.0	91.40	1.70	8,891.3	4,779.7	73.3	4,780.3	0.88
13655' MD Projected to Bit - PBHL Slider 18 W0MD Fed Com 1H							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
13,655.0	8,891.3	4,779.7	73.3	13655' MD Projected to Bit