

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMML CONSERVATION

ARTESIA DISTRICT

FEB 14 2018

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM0540701A1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

RECEIVED

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
SLIDER 18 W0MD FED COM 1H9. API Well No.
30-015-43621-00-X110. Field and Pool, or Exploratory
PURPLE SAGE-WOLFCAMP (GAS)
WOLFCAMP11. Sec., T., R., M., or Block and Survey
or Area Sec 18 T23S R27E Mer NMP12. County or Parish
EDDY13. State
NM17. Elevations (DF, KB, RT, GL)*
3219 GL2. Name of Operator
MEWBOURNE OIL COMPANYContact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com3. Address P O BOX 5270
HOBBS, NM 882413a. Phone No. (include area code)
Ph: 575-393-5905

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface SWSW 185FSL 330FWL

At top prod interval reported below SWSW 403FSL 353FWL

At total depth NWNW 339FNL 367FWL

14. Date Spudded
06/08/201715. Date T.D. Reached
06/24/201716. Date Completed
☐ D & A ☒ Ready to Prod.
08/10/201718. Total Depth: MD 13655
TVD 889119. Plug Back T.D.: MD 13578
TVD 889320. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL CCL GR&CNL22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	520		415		0	
17.500	13.375 J55	54.5	0	545		550	131	0	
12.250	9.625 J55	36.0	0	1815		0	0	0	
12.250	9.625 J-55	36.0	0	1815		410		0	
8.750	7.000 P110	26.0	0	9238		900	278	0	
8.750	7.000 HCP-110	26.0	0	9802		905		1615	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	8788	13655	9086 TO 13610	0.380	1008	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9086 TO 13610	8,833,331 GALS SLICKWATER CARRYING 5,782,580# 100 MESH SAND & 3,196,120# 40/70 WHITE SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/10/2017	08/18/2017	24	→	52.0	76.0	3396.0			FLOWERS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
27/64	SI	1225.0	→	52	76	3396	1461	PQW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

ACCEPTED FOR RECORD

FEB 7 2018

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #385472 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Reclamation due: 02/10/2018

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
WOLFCAMP	8788	13655	OIL, WATER, GAS	CASTILE	560
				RAMSEY	1665
				DELAWARE	1870
				BELL CANYON	1960
				MANZANITA	2780
				BRUSHY CANYON	4000
				BONE SPRING	5330
				WOLFCAMP	8788

32. Additional remarks (include plugging procedure):
Logs will be sent by mail.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #385472 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by DUNCAN WHITLOCK on 09/11/2017 (17DW0105SE)

Name (please print) JACKIE LATHAN

Title REGULATORY

Signature (Electronic Submission)

Date 08/21/2017

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #385472 that would not fit on the form

23. Casing and Liner Record, continued

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Btm (MD)	Stg Cmnt	Sx, Type Cmnt	Slurry Vol	Cement Top	Amt Pulled
12.250	9.625 N80	40.0	1815	1848		550	158	0	
6.125	4.500 P110	13.5	8450	13610		300	133	0	
6.125	4.500 P-110	13.5	8900	14013		205		8900	

NM OIL CONSERVATION
ARTESIA DISTRICT

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FEB 14 2018

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

RECEIVED

☐ AMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43621		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 317737		⁵ Property Name SLIDER 18 W2MD FED COM			⁶ Well Number 1H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3219'
¹⁰ Surface Location					
UL or lot no. 4	Section 18	Township 23S	Range 27E	Lot Idn 185	Feet from the SOUTH
Feet from the 330		East/West line WEST		County EDDY	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. 1	Section 18	Township 23S	Range 27E	Lot Idn 339	Feet from the NORTH
Feet from the 367		East/West line WEST		County EDDY	
¹² Dedicated Acres 315.12		¹³ Joint or Infill		¹⁴ Consolidation Code	
¹⁵ Order No.					

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Jackie Lathan</i> Date: <i>8/18/17</i> Printed Name: <i>Jackie Lathan</i> E-mail Address: _____
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 5-28-2015 Date of Survey Signature and Seal of <i>Robert M. Howett</i> Professional Surveyor 19680 Certificate Number

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1505230



NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 14 2018

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Mewbourne Oil Company

Eddy County, New Mexico

Section 18-23S-27E Slider 18 W0MD Fed Com #1H

Slider 18 W0MD Fed Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

02 August, 2017



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #1H
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)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Section 18-23S-27E Slider 18 W0MD Fed Com #1H

Site Position: **From:** Map **Northing:** 472,072.60 usft **Latitude:** 32° 17' 52.104 N
Easting: 530,002.50 usft **Longitude:** 104° 14' 10.443 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.05 °

Well Slider 18 W0MD Fed Com #1H

Well Position **+N/-S** 0.0 usft **Northing:** 472,072.60 usft **Latitude:** 32° 17' 52.104 N
+E/-W 0.0 usft **Easting:** 530,002.50 usft **Longitude:** 104° 14' 10.443 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,219.0 usft

Wellbore Original Hole

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

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	242.00

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	13,655.0	MWD Survey (Original Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
269.0	0.70	242.00	269.0	-0.8	-1.5	1.6	0.26	0.26	0.00
391.0	0.90	229.00	391.0	-1.7	-2.8	3.3	0.22	0.16	-10.66
453.0	0.80	222.00	453.0	-2.4	-3.5	4.2	0.23	-0.16	-11.29
505.0	0.50	195.00	505.0	-2.9	-3.8	4.7	0.81	-0.58	-51.92
574.0	0.70	164.80	574.0	-3.6	-3.8	5.0	0.53	0.29	-43.77
635.0	0.70	137.00	635.0	-4.2	-3.4	5.0	0.55	0.00	-45.57
697.0	1.00	138.20	697.0	-4.9	-2.8	4.8	0.48	0.48	1.94
759.0	1.20	128.00	758.9	-5.7	-1.9	4.4	0.45	0.32	-16.45

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
820.0	1.30	132.50	819.9	-6.6	-0.9	3.9	0.23	0.16	7.38
881.0	1.80	129.00	880.9	-7.6	0.4	3.3	0.83	0.82	-5.74
943.0	2.70	127.00	942.9	-9.1	2.3	2.3	1.46	1.45	-3.23
1,004.0	2.40	123.10	1,003.8	-10.7	4.5	1.0	0.57	-0.49	-6.39
1,101.0	1.00	102.60	1,100.8	-12.0	7.0	-0.6	1.55	-1.44	-21.13
1,165.0	0.90	111.60	1,164.7	-12.3	8.0	-1.3	0.28	-0.16	14.06
1,228.0	0.90	115.10	1,227.7	-12.7	8.9	-1.9	0.09	0.00	5.56
1,292.0	1.30	103.10	1,291.7	-13.0	10.1	-2.8	0.72	0.63	-18.75
1,355.0	1.90	99.80	1,354.7	-13.4	11.8	-4.2	0.96	0.95	-5.24
1,419.0	1.30	82.20	1,418.7	-13.5	13.6	-5.7	1.20	-0.94	-27.50
1,482.0	0.80	46.30	1,481.7	-13.1	14.6	-6.8	1.27	-0.79	-56.98
1,545.0	0.90	37.40	1,544.7	-12.4	15.2	-7.6	0.26	0.16	-14.13
1,609.0	1.20	52.10	1,608.6	-11.6	16.1	-8.8	0.63	0.47	22.97
1,736.0	1.80	70.60	1,735.6	-10.1	19.0	-12.0	0.60	0.47	14.57
1,886.0	2.30	73.90	1,885.5	-8.5	24.1	-17.3	0.34	0.33	2.20
1,949.0	0.90	61.50	1,948.5	-7.9	25.8	-19.1	2.28	-2.22	-19.68
2,014.0	0.30	356.90	2,013.5	-7.5	26.2	-19.6	1.26	-0.92	-99.38
2,076.0	0.40	326.90	2,075.5	-7.1	26.1	-19.7	0.33	0.16	-48.39
2,170.0	0.50	339.20	2,169.5	-6.5	25.8	-19.7	0.15	0.11	13.09
2,263.0	0.40	1.30	2,262.5	-5.8	25.6	-19.9	0.21	-0.11	23.76
2,357.0	0.40	353.20	2,356.5	-5.1	25.6	-20.2	0.06	0.00	-8.62
2,450.0	0.20	11.10	2,449.5	-4.6	25.6	-20.4	0.23	-0.22	19.25
2,543.0	0.20	58.70	2,542.5	-4.4	25.7	-20.7	0.17	0.00	51.18
2,637.0	0.00	221.20	2,636.5	-4.3	25.9	-20.8	0.21	-0.21	0.00
2,730.0	0.10	357.60	2,729.5	-4.2	25.9	-20.9	0.11	0.11	0.00
2,823.0	0.10	276.20	2,822.5	-4.1	25.8	-20.8	0.14	0.00	-87.53
2,917.0	0.30	245.00	2,916.5	-4.2	25.5	-20.5	0.23	0.21	-33.19
3,010.0	0.10	240.00	3,009.5	-4.4	25.2	-20.2	0.22	-0.22	-5.38
3,104.0	0.30	248.70	3,103.5	-4.5	24.9	-19.9	0.21	0.21	9.26
3,197.0	0.40	228.60	3,196.5	-4.8	24.4	-19.3	0.17	0.11	-21.61
3,291.0	0.40	229.70	3,290.5	-5.2	23.9	-18.7	0.01	0.00	1.17
3,384.0	0.40	233.10	3,383.5	-5.6	23.4	-18.0	0.03	0.00	3.66
3,478.0	0.30	240.00	3,477.5	-6.0	23.0	-17.5	0.12	-0.11	7.34
3,571.0	0.20	186.20	3,570.5	-6.2	22.7	-17.1	0.26	-0.11	-57.85
3,665.0	0.00	178.90	3,664.5	-6.4	22.7	-17.0	0.21	-0.21	0.00
3,758.0	0.00	129.50	3,757.5	-6.4	22.7	-17.0	0.00	0.00	0.00
3,852.0	0.10	170.80	3,851.5	-6.5	22.7	-17.0	0.11	0.11	0.00
3,945.0	0.00	112.50	3,944.5	-6.6	22.7	-17.0	0.11	-0.11	0.00
4,039.0	0.10	17.90	4,038.5	-6.5	22.8	-17.1	0.11	0.11	0.00
4,132.0	0.30	36.40	4,131.5	-6.2	22.9	-17.3	0.22	0.22	19.89
4,226.0	0.40	21.80	4,225.5	-5.7	23.2	-17.8	0.14	0.11	-15.53
4,319.0	0.40	46.30	4,318.5	-5.2	23.6	-18.4	0.18	0.00	26.34

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

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,412.0	0.10	267.50	4,411.5	-5.0	23.7	-18.6	0.52	-0.32	-149.25
4,506.0	0.40	268.60	4,505.5	-5.0	23.3	-18.2	0.32	0.32	1.17
4,599.0	0.60	257.90	4,598.4	-5.1	22.5	-17.5	0.24	0.22	-11.51
4,692.0	0.40	252.70	4,691.4	-5.3	21.7	-16.7	0.22	-0.22	-5.59
4,786.0	0.60	270.30	4,785.4	-5.4	20.9	-15.9	0.27	0.21	18.72
4,879.0	0.40	269.80	4,878.4	-5.4	20.1	-15.2	0.22	-0.22	-0.54
4,973.0	0.40	281.40	4,972.4	-5.3	19.4	-14.7	0.09	0.00	12.34
5,066.0	1.20	191.40	5,065.4	-6.2	18.9	-13.8	1.36	0.86	-98.77
5,159.0	3.10	173.60	5,158.4	-9.7	19.0	-12.3	2.14	2.04	-19.14
5,252.0	3.20	171.80	5,251.2	-14.7	19.7	-10.5	0.15	0.11	-1.94
5,345.0	3.00	169.60	5,344.1	-19.7	20.5	-8.8	0.25	-0.22	-2.37
5,438.0	2.50	157.50	5,437.0	-24.0	21.7	-7.9	0.82	-0.54	-13.01
5,532.0	3.00	152.60	5,530.9	-28.0	23.6	-7.7	0.59	0.53	-5.21
5,625.0	2.50	158.90	5,623.8	-32.1	25.5	-7.4	0.63	-0.54	6.77
5,718.0	3.20	171.10	5,716.6	-36.5	26.6	-6.3	0.99	0.75	13.12
5,812.0	2.50	170.80	5,810.5	-41.2	27.3	-4.8	0.74	-0.74	-0.32
5,905.0	3.60	190.00	5,903.4	-46.0	27.1	-2.4	1.60	1.18	20.65
5,999.0	3.10	202.90	5,997.2	-51.3	25.6	1.4	0.96	-0.53	13.72
6,092.0	2.50	202.40	6,090.1	-55.5	23.9	4.9	0.65	-0.65	-0.54
6,186.0	4.00	199.40	6,184.0	-60.5	22.0	8.9	1.61	1.60	-3.19
6,279.0	4.50	192.60	6,276.7	-67.1	20.1	13.7	0.76	0.54	-7.31
6,373.0	4.40	191.80	6,370.4	-74.2	18.6	18.4	0.13	-0.11	-0.85
6,466.0	4.00	191.20	6,463.2	-80.9	17.2	22.7	0.43	-0.43	-0.65
6,560.0	4.00	201.60	6,557.0	-87.1	15.4	27.3	0.77	0.00	11.06
6,654.0	3.90	213.50	6,650.7	-92.9	12.4	32.6	0.88	-0.11	12.66
6,747.0	2.50	204.90	6,743.6	-97.3	9.8	37.0	1.59	-1.51	-9.25
6,841.0	2.90	188.30	6,837.5	-101.6	8.6	40.1	0.93	0.43	-17.66
6,934.0	2.90	188.40	6,930.4	-106.2	7.9	42.8	0.01	0.00	0.11
7,028.0	2.90	188.30	7,024.2	-110.9	7.3	45.7	0.01	0.00	-0.11
7,121.0	2.70	189.90	7,117.1	-115.4	6.5	48.4	0.23	-0.22	1.72
7,215.0	2.20	193.60	7,211.0	-119.3	5.7	51.0	0.56	-0.53	3.94
7,308.0	3.30	180.30	7,303.9	-123.7	5.3	53.4	1.36	1.18	-14.30
7,402.0	2.80	184.60	7,397.8	-128.7	5.1	55.9	0.58	-0.53	4.57
7,495.0	2.20	182.70	7,490.7	-132.8	4.8	58.1	0.65	-0.65	-2.04
7,589.0	3.70	181.10	7,584.8	-137.6	4.7	60.5	1.60	1.60	-1.70
7,682.0	3.10	167.50	7,677.4	-143.1	5.2	62.6	1.08	-0.65	-14.62
7,776.0	2.80	155.10	7,771.3	-147.6	6.7	63.4	0.75	-0.32	-13.19
7,869.0	2.70	137.30	7,864.2	-151.3	9.1	63.0	0.92	-0.11	-19.14
7,963.0	3.00	128.60	7,958.1	-154.5	12.6	61.4	0.56	0.32	-9.26
8,056.0	2.20	133.80	8,051.0	-157.2	15.7	59.9	0.90	-0.86	5.59
8,150.0	1.50	143.00	8,144.9	-159.5	17.8	59.2	0.81	-0.74	9.79
8,243.0	1.10	159.50	8,237.9	-161.3	18.8	59.1	0.58	-0.43	17.74
8,305.3	1.15	172.62	8,300.2	-162.4	19.1	59.4	0.42	0.08	21.06

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

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
BB Slider 18 W0MD Fed Com 1H									
8,337.0	1.20	178.70	8,331.9	-163.1	19.2	59.6	0.42	0.15	19.18
8,399.0	1.20	189.50	8,393.9	-164.4	19.1	60.3	0.36	0.00	17.42
8,463.0	1.50	26.60	8,457.9	-164.3	19.3	60.0	4.17	0.47	-254.53
8,494.0	6.20	8.60	8,488.8	-162.3	19.8	58.7	15.47	15.16	-58.06
8,525.0	9.00	14.30	8,519.5	-158.3	20.6	56.1	9.34	9.03	18.39
8,557.0	13.30	11.30	8,550.9	-152.2	22.0	52.1	13.55	13.44	-9.38
8,588.0	17.40	9.30	8,580.8	-144.2	23.4	47.0	13.33	13.23	-6.45
8,619.0	22.10	5.30	8,610.0	-133.8	24.7	41.0	15.77	15.16	-12.90
8,650.0	26.40	0.80	8,638.2	-121.1	25.3	34.5	15.09	13.87	-14.52
8,681.0	30.60	2.40	8,665.5	-106.3	25.8	27.1	13.77	13.55	5.16
8,713.0	35.40	1.60	8,692.3	-88.9	26.4	18.4	15.06	15.00	-2.50
8,744.0	39.80	359.80	8,716.9	-70.0	26.6	9.4	14.63	14.19	-5.81
8,775.0	44.40	358.00	8,739.8	-49.2	26.2	0.0	15.34	14.84	-5.81
8,806.0	49.60	357.70	8,761.0	-26.5	25.3	-9.9	16.79	16.77	-0.97
8,837.0	53.40	358.30	8,780.3	-2.3	24.5	-20.5	12.35	12.26	1.94
8,869.0	56.00	359.40	8,798.8	23.8	24.0	-32.3	8.60	8.13	3.44
8,900.0	57.40	357.70	8,815.8	49.7	23.3	-43.9	6.43	4.52	-5.48
8,931.0	58.10	357.40	8,832.3	75.9	22.2	-55.2	2.40	2.26	-0.97
8,962.0	60.70	359.10	8,848.1	102.6	21.4	-67.0	9.62	8.39	5.48
8,994.0	65.10	0.70	8,862.7	131.0	21.3	-80.3	14.45	13.75	5.00
9,025.0	67.20	1.30	8,875.2	159.4	21.8	-94.1	7.00	6.77	1.94
9,056.0	69.80	1.30	8,886.6	188.2	22.5	-108.2	8.39	8.39	0.00
9,087.0	72.80	2.00	8,896.5	217.6	23.3	-122.7	9.91	9.68	2.26
9,118.0	74.80	2.20	8,905.2	247.3	24.4	-137.7	6.48	6.45	0.65
9,150.0	77.90	2.10	8,912.7	278.4	25.6	-153.3	9.69	9.69	-0.31
9,181.0	81.90	1.60	8,918.2	308.9	26.6	-168.5	13.00	12.90	-1.61
9,200.0	84.10	2.00	8,920.5	327.7	27.2	-177.8	11.77	11.58	2.11
9,267.0	88.00	1.20	8,925.1	394.5	29.0	-210.8	5.94	5.82	-1.19
9,299.0	89.00	1.70	8,925.9	426.5	29.8	-226.6	3.49	3.13	1.56
9,348.9	89.05	1.86	8,926.8	476.3	31.4	-251.3	0.34	0.11	0.32
LP Slider 18 W0MD Fed Com 1H									
9,392.0	89.10	2.00	8,927.5	519.5	32.8	-272.9	0.34	0.11	0.32
9,486.0	87.00	1.00	8,930.7	613.4	35.3	-319.1	2.47	-2.23	-1.06
9,600.0	89.90	0.20	8,933.7	727.3	36.5	-373.7	2.64	2.54	-0.70
9,694.0	91.50	0.80	8,932.6	821.3	37.3	-418.5	1.82	1.70	0.64
9,788.0	90.00	1.60	8,931.4	915.3	39.3	-464.4	1.81	-1.60	0.85
9,881.0	89.40	1.60	8,931.9	1,008.2	41.9	-510.3	0.65	-0.65	0.00
9,975.0	90.00	0.60	8,932.3	1,102.2	43.7	-556.0	1.24	0.64	-1.06
10,068.0	91.80	1.60	8,930.9	1,195.2	45.5	-601.2	2.21	1.94	1.08
10,162.0	92.40	1.20	8,927.4	1,289.1	47.8	-647.3	0.77	0.64	-0.43
10,256.0	92.00	1.50	8,923.8	1,383.0	50.0	-693.4	0.53	-0.43	0.32
10,349.0	92.00	2.00	8,920.6	1,475.9	52.8	-739.5	0.54	0.00	0.54



Microsoft Survey Report



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Design: Original Hole

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Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,443.0	91.00	1.40	8,918.1	1,569.8	55.6	-786.1	1.24	-1.06	-0.64
10,536.0	89.60	1.00	8,917.6	1,662.8	57.5	-831.4	1.57	-1.51	-0.43
10,630.0	88.50	0.60	8,919.2	1,756.7	58.9	-876.7	1.25	-1.17	-0.43
10,723.0	90.10	0.70	8,920.3	1,849.7	59.9	-921.3	1.72	1.72	0.11
10,817.0	91.20	1.20	8,919.3	1,943.7	61.5	-966.8	1.29	1.17	0.53
10,910.0	93.40	1.90	8,915.5	2,036.6	64.0	-1,012.6	2.48	2.37	0.75
11,004.0	90.80	2.10	8,912.1	2,130.5	67.3	-1,059.6	2.77	-2.77	0.21
11,097.0	90.50	1.40	8,911.0	2,223.4	70.1	-1,105.7	0.82	-0.32	-0.75
11,190.0	88.70	359.60	8,911.7	2,316.4	70.9	-1,150.1	2.74	-1.94	-1.94
11,284.0	90.20	359.60	8,912.6	2,410.4	70.3	-1,193.6	1.60	1.60	0.00
11,377.0	91.10	0.20	8,911.5	2,503.4	70.1	-1,237.2	1.16	0.97	0.65
11,471.0	91.20	0.00	8,909.6	2,597.4	70.3	-1,281.4	0.24	0.11	-0.21
11,564.0	87.10	0.40	8,911.0	2,690.3	70.6	-1,325.4	4.43	-4.41	0.43
11,657.0	87.70	0.50	8,915.2	2,783.2	71.3	-1,369.6	0.65	0.65	0.11
11,751.0	89.10	0.00	8,917.9	2,877.2	71.7	-1,414.1	1.58	1.49	-0.53
11,844.0	92.00	2.30	8,917.0	2,970.2	73.6	-1,459.4	3.98	3.12	2.47
11,937.0	91.40	3.40	8,914.2	3,063.0	78.2	-1,507.0	1.35	-0.65	1.18
12,030.0	91.40	1.90	8,911.9	3,155.9	82.5	-1,554.4	1.61	0.00	-1.61
12,124.0	90.10	359.30	8,910.7	3,249.8	83.5	-1,599.4	3.09	-1.38	-2.77
12,217.0	87.20	357.50	8,912.9	3,342.8	80.9	-1,640.8	3.67	-3.12	-1.94
12,310.0	90.10	358.30	8,915.1	3,435.7	77.5	-1,681.4	3.23	3.12	0.86
12,403.0	88.70	357.60	8,916.1	3,528.6	74.2	-1,722.1	1.68	-1.51	-0.75
12,497.0	89.10	357.00	8,917.9	3,622.5	69.7	-1,762.2	0.77	0.43	-0.64
12,591.0	91.70	358.60	8,917.2	3,716.4	66.1	-1,803.1	3.25	2.77	1.70
12,684.0	90.50	358.00	8,915.4	3,809.3	63.4	-1,844.3	1.44	-1.29	-0.65
12,777.0	91.20	358.30	8,914.0	3,902.3	60.4	-1,885.3	0.82	0.75	0.32
12,870.0	91.10	359.10	8,912.2	3,995.2	58.3	-1,927.1	0.87	-0.11	0.86
12,963.0	92.70	0.10	8,909.1	4,088.2	57.6	-1,970.1	2.03	1.72	1.08
13,057.0	92.60	1.20	8,904.8	4,182.1	58.7	-2,015.2	1.17	-0.11	1.17
13,150.0	91.30	1.10	8,901.6	4,275.0	60.5	-2,060.4	1.40	-1.40	-0.11
13,244.0	90.80	1.30	8,899.9	4,369.0	62.5	-2,106.3	0.57	-0.53	0.21
13,337.0	90.50	1.10	8,898.8	4,461.9	64.5	-2,151.7	0.39	-0.32	-0.22
13,431.0	92.30	1.90	8,896.5	4,555.9	66.9	-2,197.9	2.10	1.91	0.85
13,524.0	90.70	1.40	8,894.1	4,648.8	69.6	-2,243.9	1.80	-1.72	-0.54
13,599.0	91.40	1.70	8,892.7	4,723.8	71.6	-2,280.9	1.02	0.93	0.40
13,655.0	91.40	1.70	8,891.3	4,779.7	73.3	-2,308.6	0.00	0.00	0.00

13655' MD Projected to Bit - PBHL Slider 18 W0MD Fed Com 1H



Microsoft Survey Report



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

Design Annotations

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



August 10, 2017

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

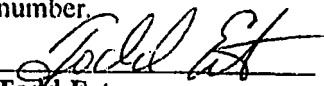
Attn: Jackie Lathan

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 #1H\171039

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

Well Slider 18 W0MD Fed Com #1H

Well Position	+N/-S	0.0 usft	Northing:	472,072.60 usft	Latitude:	32° 17' 52.104 N
	+E/-W	0.0 usft	Easting:	530,002.50 usft	Longitude:	104° 14' 10.443 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,219.0 usft

Wellbore Original Hole

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

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	242.00



Microsoft MWD Surveys



Company: Mewbourne Oil Company
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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	13,655.0	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 Tie-In
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



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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 (°)
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



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Survey

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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



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (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	193.60	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	-159.5	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 W0MD 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



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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	1.86	8,926.8	476.3	31.4	477.4	3.77
LP Slider 18 W0MD 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



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Survey

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9,788.0	90.00	1.60	8,931.4	915.3	39.3	916.1	2.46
9,881.0	89.40	1.60	8,931.9	-1,008.2	41.9	1,009.1	2.38
9,975.0	90.00	0.60	8,932.3	1,102.2	43.7	1,103.1	2.27
10,068.0	91.80	1.60	8,930.9	1,195.2	45.5	1,196.0	2.18
10,162.0	92.40	1.20	8,927.4	1,289.1	47.8	1,290.0	2.12
10,256.0	92.00	1.50	8,923.8	1,383.0	50.0	1,383.9	2.07
10,349.0	92.00	2.00	8,920.6	1,475.9	52.8	1,476.8	2.05
10,443.0	91.00	1.40	8,918.1	1,569.8	55.6	1,570.8	2.03
10,536.0	89.60	1.00	8,917.6	1,662.8	57.5	1,663.8	1.98
10,630.0	88.50	0.60	8,919.2	1,756.7	58.9	1,757.7	1.92
10,723.0	90.10	0.70	8,920.3	1,849.7	59.9	1,850.7	1.86
10,817.0	91.20	1.20	8,919.3	1,943.7	61.5	1,944.7	1.81
10,910.0	93.40	1.90	8,915.5	2,036.6	64.0	2,037.6	1.80
11,004.0	90.80	2.10	8,912.1	2,130.5	67.3	2,131.5	1.81
11,097.0	90.50	1.40	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	0.20	8,911.5	2,503.4	70.1	2,504.4	1.60
11,471.0	91.20	0.00	8,909.6	2,597.4	70.3	2,598.3	1.55
11,564.0	87.10	0.40	8,911.0	2,690.3	70.6	2,691.3	1.50
11,657.0	87.70	0.50	8,915.2	2,783.2	71.3	2,784.2	1.47
11,751.0	89.10	0.00	8,917.9	2,877.2	71.7	2,878.1	1.43
11,844.0	92.00	2.30	8,917.0	2,970.2	73.6	2,971.1	1.42
11,937.0	91.40	3.40	8,914.2	3,063.0	78.2	3,064.0	1.46
12,030.0	91.40	1.90	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



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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	0.89
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	0.80
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	8,899.9	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