

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTRECEIVED
MAY 07 2018
MesaFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Case Serial No.
NMNM107373

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator MEWBOURNE OIL COMPANY			Contact: JACKIE LATHAN E-Mail: jlathan@mewbourne.com		
3. Address P O BOX 5270 HOBBS, NM 88241			3a. Phone No. (include area code) Ph: 575-393-5905		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 23 T24S R28E Mer NMP At surface SESW 750FSL 2175FWL 32.198009 N Lat, 104.059761 W Lon Sec 23 T24S R28E Mer NMP At top prod interval reported below SWSE 450FSL 2350FEL 32.197033 N Lat, 104.056511 W Lon Sec 24 T24S R28E Mer NMP At total depth SESE 438FSL 338FEL 32.197006 N Lat, 104.033173 W Lon			8. Lease Name and Well No. QUEEN 23 24 WOOP FED COM 1H		
14. Date Spudded 08/28/2017			15. Date T.D. Reached 09/23/2017		
16. Date Completed ☐ D & A ☒ Ready to Prod. 03/14/2018			9. API Well No. 30-015-44250-00-S1		
18. Total Depth: MD 17680 TVD 9755			19. Plug Back T.D.: MD 17651 TVD 9755		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory WOLFCAMP		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) EXEMPTFROMLOGGI			11. Sec., T., R., M., or Block and Survey or Area Sec 23 T24S R28E Mer NMP		
22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)			12. County or Parish EDDY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 2955 GL		

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 J55	54.5	0	664		700	167	0	
12.250	9.625 L80	40.0	0	2542		600	223	0	
8.750	7.000 P110	26.0	0	9827		1050	319	2242	
6.125	4.500 P110	13.5	9108	17640		500	221	0	

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

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	9470	17680	10370 TO 17640	0.390	1584	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10370 TO 17640	17,755,413 GAL SLICKWATER, CARRYING 17,729,540# LOCAL 100 MESH 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
03/14/2018	03/18/2018	24	→	772.0	2638.0	2369.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI	2900.0	→	772	2638	2369	3417	PGW	

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		→						

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

ELECTRONIC SUBMISSION #408693 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 09/14/2018

ACCEPTED FOR RECORD

APR 29 2018

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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	9470	17680	OIL, & GAS	CASTILE BASE OF SALT DELAWARE BELL CANYON CHERRY CANYON MANZANITA BONE SPRING WOLFCAMP	1180 2410 2610 2690 3530 3630 6330 9470

32. Additional remarks (include plugging procedure):
Exempt from logging

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 #408693 Verified by the BLM Well Information System.
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by DUNCAN WHITLOCK on 03/27/2018 (18DW0112SE)

Name (please print) JACKIE LATHAN

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 03/21/2018

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 ****

RECEIVED

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr. DISTRICT II-ARTESIA O.C.D.
Santa Fe, NM 87505

MAY 07 2018

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-44250	² Pool Code 98220	³ Pool Name Purple Sage; WOLFCAMP GAS
⁴ Property Code 317799	⁵ Property Name QUEEN 23/24 WOOP FEDERAL COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 1H
		⁹ Elevation 2955'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
N	23	24S	28E		750	SOUTH	2175	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	24S	28E		438	SOUTH	338	EAST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁶ GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N: 435818.7 - E: 584774.5 LAT: 32.1978855° N LONG: 104.0592729° W BOTTOM HOLE N: 435415.6 - E: 593000.3 LAT: 32.1967170° N LONG: 104.0326840° W GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N: 435877.2 - E: 625958.2 LAT: 32.1980076° N LONG: 104.0597638° W BOTTOM HOLE N: 435474.2 - E: 634184.2 LAT: 32.1970058° N LONG: 104.0331744° W	CORNER DATA NAD 27 GRID - NM EAST A: FOUND BRASS CAP "1942" N: 435092.2 - E: 582616.1 B: FOUND BRASS CAP "1942" N: 440447.8 - E: 582501.5 C: FOUND BRASS CAP "1942" N: 440409.0 - E: 585258.9 D: FOUND BRASS CAP "1942" N: 440371.2 - E: 588015.1	E: FOUND BRASS CAP "1942" N: 440356.6 - E: 590649.0 F: FOUND BRASS CAP "1942" N: 440341.0 - E: 593279.6 G: FOUND BRASS CAP "1942" N: 437683.2 - E: 593298.4 H: FOUND BRASS CAP "1942" N: 435025.1 - E: 593335.7 I: FOUND BRASS CAP "1942" N: 435035.0 - E: 587975.7	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: <u>Jackie Lathan</u> Date: <u>3/9/18</u> Printed Name: <u>Jackie Lathan</u> 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. 2-15-2017 Date of Survey Signature and Seal of Professional Surveyor: <u>Robert M. Howett</u> 19680 Certificate Number			19680 Certificate Number

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1609287R



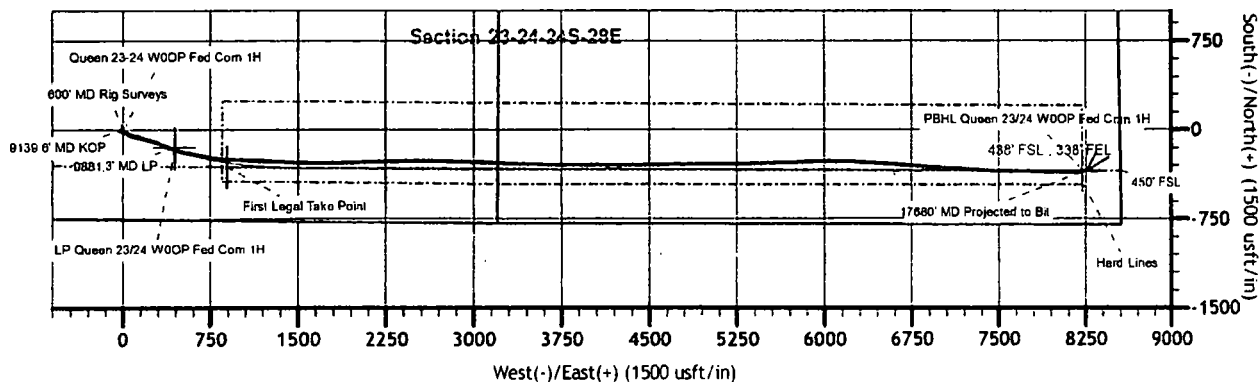
COMPANY: Mewbourne Oil Company
WELL: Queen 23-24 W00P Fed Com 1H
COUNTY: Eddy County, New Mexico
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson 245



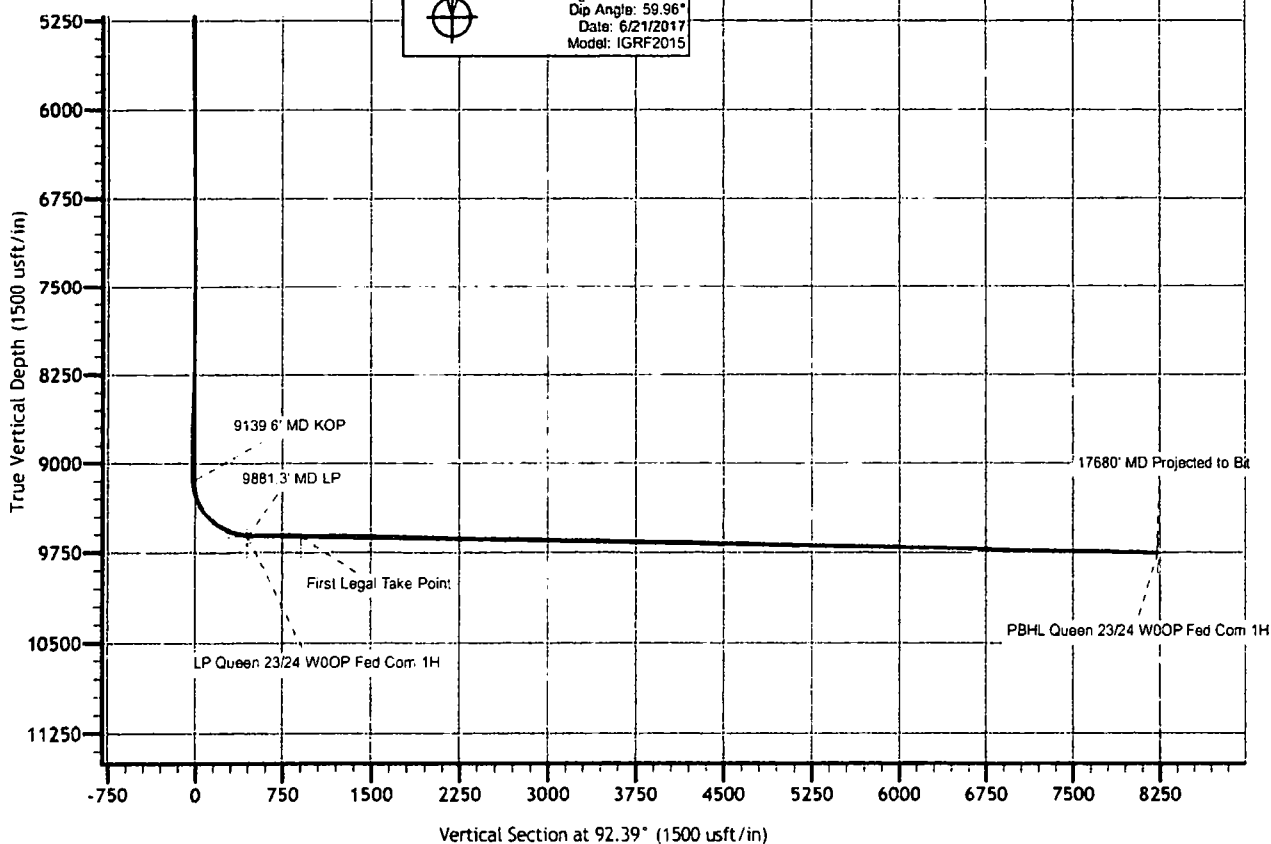
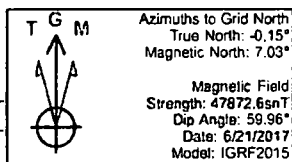
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.03°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001 2955 + 27 @ 2982.0ush (Patterson 245) GROUND ELEVATION: 2955.0										
+N/-S	+E/-W	Northings	Eastings	Latitude	Longitude	Slot				
0.0	0.0	435818.70	584774.50	32° 11' 52.389 N	104° 3' 33.382 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	9139.6	0.00	0.00	9139.6	0.0	0.0	0.00	0.00	0.0	
3	9881.3	89.00	109.20	9617.0	-154.3	443.0	12.00	109.20	449.1	
4	10828.8	89.00	90.25	9633.7	-313.6	1372.6	2.00	-90.16	1384.5	
5	17682.2	89.00	90.25	9753.0	-343.0	8224.8	0.00	0.00	8232.0	PBHL Queen 23/24 W00P Fed Com 1H



SHL 750' FSL; 2175' FWL
Section 23-24S-28E
PBHL 450' FSL; 330' FEL
Section 24-24S-28E





Mewbourne Oil Company

Eddy County, New Mexico

Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H

Queen 23-24 W00P Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

27 September, 2017





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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 23-24-24S-28E Queen 23-24 W00P Fed Com 1H

Site Position: **From:** Map
Position Uncertainty: 0.0 usft
Northing: 435,818.70 usft
Easting: 584,774.50 usft
Slot Radius: 13-3/16 "
Latitude: 32° 11' 52.389 N
Longitude: 104° 3' 33.382 W
Grid Convergence: 0.15 °

Well Queen 23-24 W00P Fed Com 1H

Well Position +N/-S 0.0 usft **Northing:** 435,818.70 usft **Latitude:** 32° 11' 52.389 N
+E/-W 0.0 usft **Easting:** 584,774.50 usft **Longitude:** 104° 3' 33.382 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** 2,982.0 usft **Ground Level:** 2,955.0 usft

Wellbore Original Hole

Magnetics **Model Name** **Sample Date** **Declination (°)** **Dip Angle (°)** **Field Strength (nT)**
IGRF2015 6/21/2017 7.18 59.96 47,872.57427999

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 91.71

Survey Program **Date** 9/27/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
297.0	600.0	Rig Survey (Original Hole)	MWD	MWD v3:standard declination
696.0	17,680.0	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
297.0	0.30	61.00	297.0	0.4	0.7	0.7	0.10	0.10	0.00
419.0	0.60	122.00	419.0	0.2	1.5	1.5	0.43	0.25	50.00
600.0	0.50	74.00	600.0	-0.1	3.1	3.1	0.25	-0.06	-26.52
600' MD Rig Surveys									
696.0	0.40	68.60	696.0	0.1	3.8	3.8	0.11	-0.10	-5.63
758.0	0.40	353.80	758.0	0.4	4.0	3.9	0.78	0.00	-120.65
819.0	0.40	336.70	819.0	0.8	3.8	3.8	0.19	0.00	-28.03
880.0	0.40	17.80	880.0	1.2	3.8	3.8	0.46	0.00	67.38

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)
942.0	0.40	21.50	942.0	1.7	4.0	3.9	0.04	0.00	5.97
1,003.0	0.40	9.30	1,003.0	2.1	4.1	4.0	0.14	0.00	-20.00
1,099.0	0.40	285.10	1,099.0	2.5	3.8	3.7	0.56	0.00	-87.71
1,162.0	0.80	298.50	1,162.0	2.7	3.2	3.1	0.67	0.63	21.27
1,226.0	0.90	294.50	1,226.0	3.2	2.4	2.3	0.18	0.16	-6.25
1,289.0	1.10	284.20	1,289.0	3.5	1.3	1.2	0.43	0.32	-16.35
1,352.0	1.00	283.10	1,351.9	3.8	0.2	0.1	0.16	-0.16	-1.75
1,416.0	0.70	259.10	1,415.9	3.8	-0.7	-0.8	0.72	-0.47	-37.50
1,479.0	0.70	265.10	1,478.9	3.7	-1.5	-1.6	0.12	0.00	9.52
1,543.0	1.00	280.20	1,542.9	3.8	-2.4	-2.5	0.58	0.47	23.59
1,606.0	1.30	271.80	1,605.9	3.9	-3.7	-3.8	0.54	0.48	-13.33
1,669.0	1.30	283.90	1,668.9	4.1	-5.1	-5.2	0.43	0.00	19.21
1,733.0	1.70	278.30	1,732.9	4.4	-6.7	-6.9	0.66	0.63	-8.75
1,796.0	0.20	272.80	1,795.9	4.6	-7.8	-7.9	2.38	-2.38	-8.73
1,860.0	1.30	118.40	1,859.9	4.2	-7.2	-7.4	2.32	1.72	-241.25
1,923.0	1.90	112.50	1,922.8	3.5	-5.6	-5.7	0.99	0.95	-9.37
1,987.0	1.10	104.40	1,986.8	2.9	-4.1	-4.1	1.29	-1.25	-12.66
2,050.0	0.70	90.70	2,049.8	2.8	-3.1	-3.2	0.72	-0.63	-21.75
2,177.0	1.10	102.40	2,176.8	2.5	-1.1	-1.2	0.35	0.31	9.21
2,271.0	2.10	116.00	2,270.8	1.6	1.3	1.3	1.13	1.06	14.47
2,364.0	2.20	118.70	2,363.7	0.0	4.4	4.4	0.15	0.11	2.90
2,458.0	0.50	156.80	2,457.7	-1.3	6.1	6.2	1.95	-1.81	40.53
2,502.0	0.50	246.80	2,501.7	-1.5	6.0	6.1	1.61	0.00	204.55
2,551.0	1.00	279.80	2,550.7	-1.6	5.4	5.5	1.31	1.02	67.35
2,644.0	1.30	286.90	2,643.6	-1.1	3.6	3.6	0.36	0.32	7.63
2,738.0	1.50	281.40	2,737.6	-0.6	1.4	1.4	0.26	0.21	-5.85
2,831.0	1.40	272.60	2,830.6	-0.3	-0.9	-0.9	0.26	-0.11	-9.46
2,925.0	1.50	271.20	2,924.5	-0.2	-3.3	-3.3	0.11	0.11	-1.49
3,018.0	1.50	282.40	3,017.5	0.1	-5.7	-5.7	0.31	0.00	12.04
3,112.0	1.30	274.50	3,111.5	0.5	-8.0	-8.0	0.30	-0.21	-8.40
3,205.0	1.50	274.60	3,204.5	0.6	-10.2	-10.3	0.22	0.22	0.11
3,299.0	0.30	16.70	3,298.4	1.0	-11.4	-11.4	1.69	-1.28	108.62
3,392.0	0.30	49.60	3,391.4	1.4	-11.2	-11.2	0.18	0.00	35.38
3,485.0	0.30	10.20	3,484.4	1.8	-10.9	-11.0	0.22	0.00	-42.37
3,579.0	0.10	316.30	3,578.4	2.1	-10.9	-11.0	0.27	-0.21	-57.34
3,672.0	0.20	311.60	3,671.4	2.2	-11.1	-11.2	0.11	0.11	-5.05
3,766.0	0.40	336.40	3,765.4	2.6	-11.4	-11.4	0.25	0.21	26.38
3,859.0	0.40	338.20	3,858.4	3.2	-11.6	-11.7	0.01	0.00	1.94
3,953.0	0.40	339.20	3,952.4	3.8	-11.9	-12.0	0.01	0.00	1.06
4,046.0	0.40	326.40	4,045.4	4.4	-12.2	-12.3	0.10	0.00	-13.76
4,139.0	0.40	290.00	4,138.4	4.8	-12.6	-12.8	0.27	0.00	-39.14
4,233.0	0.60	274.90	4,232.4	5.0	-13.4	-13.6	0.25	0.21	-16.06

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)
4,326.0	0.50	255.00	4,325.4	4.9	-14.3	-14.4	0.23	-0.11	-21.40
4,420.0	0.40	248.70	4,419.4	4.7	-15.0	-15.1	0.12	-0.11	-6.70
4,513.0	0.50	238.50	4,512.4	4.3	-15.7	-15.8	0.14	0.11	-10.97
4,607.0	0.70	221.30	4,606.4	3.7	-16.4	-16.5	0.28	0.21	-18.30
4,700.0	1.00	210.00	4,699.4	2.6	-17.2	-17.2	0.37	0.32	-12.15
4,794.0	1.30	213.50	4,793.4	1.0	-18.2	-18.2	0.33	0.32	3.72
4,887.0	0.20	126.20	4,886.4	0.0	-18.6	-18.6	1.40	-1.18	-93.87
4,980.0	0.40	90.30	4,979.4	-0.1	-18.2	-18.2	0.29	0.22	-38.60
5,074.0	0.20	41.80	5,073.4	0.0	-17.7	-17.7	0.33	-0.21	-51.60
5,167.0	0.30	284.30	5,166.4	0.2	-17.9	-17.9	0.46	0.11	-126.34
5,261.0	0.40	295.00	5,260.4	0.4	-18.4	-18.4	0.13	0.11	11.38
5,355.0	0.80	50.10	5,354.4	0.9	-18.2	-18.2	1.10	0.43	122.45
5,448.0	0.80	52.60	5,447.4	1.8	-17.2	-17.2	0.04	0.00	2.69
5,541.0	0.70	60.60	5,540.4	2.4	-16.2	-16.2	0.16	-0.11	8.80
5,635.0	0.80	52.90	5,634.3	3.1	-15.1	-15.2	0.15	0.11	-8.19
5,728.0	0.70	61.30	5,727.3	3.8	-14.1	-14.2	0.16	-0.11	9.03
5,821.0	0.80	57.50	5,820.3	4.4	-13.1	-13.2	0.12	0.11	-4.09
5,915.0	0.80	67.80	5,914.3	5.0	-11.9	-12.1	0.15	0.00	10.96
6,009.0	0.70	74.90	6,008.3	5.4	-10.8	-10.9	0.15	-0.11	7.55
6,102.0	0.80	78.40	6,101.3	5.7	-9.6	-9.7	0.12	0.11	3.76
6,195.0	0.80	81.20	6,194.3	5.9	-8.3	-8.5	0.04	0.00	3.01
6,289.0	0.70	108.90	6,288.3	5.8	-7.1	-7.3	0.40	-0.11	29.47
6,382.0	0.80	82.80	6,381.3	5.7	-5.9	-6.1	0.38	0.11	-28.06
6,475.0	0.30	84.30	6,474.3	5.8	-5.0	-5.2	0.54	-0.54	1.61
6,569.0	0.40	329.30	6,568.3	6.1	-5.0	-5.1	0.63	0.11	-122.34
6,663.0	1.10	315.10	6,662.3	7.0	-5.8	-6.0	0.76	0.74	-15.11
6,756.0	0.80	340.00	6,755.3	8.3	-6.6	-6.9	0.54	-0.32	26.77
6,849.0	0.20	126.80	6,848.3	8.8	-6.7	-7.0	1.05	-0.65	157.85
6,942.0	1.50	21.40	6,941.2	9.8	-6.1	-6.4	1.68	1.40	-113.33
7,036.0	1.50	64.00	7,035.2	11.5	-4.6	-4.9	1.16	0.00	45.32
7,129.0	1.00	174.40	7,128.2	11.2	-3.4	-3.7	2.23	-0.54	118.71
7,223.0	1.50	205.50	7,222.2	9.3	-3.8	-4.1	0.88	0.53	33.09
7,316.0	1.30	205.40	7,315.1	7.3	-4.8	-5.0	0.22	-0.22	-0.11
7,410.0	0.80	234.80	7,409.1	5.9	-5.8	-6.0	0.77	-0.53	31.28
7,503.0	0.60	234.90	7,502.1	5.3	-6.7	-6.9	0.22	-0.22	0.11
7,597.0	0.70	178.30	7,596.1	4.4	-7.1	-7.3	0.66	0.11	-60.21
7,690.0	1.30	142.60	7,689.1	3.0	-6.5	-6.6	0.90	0.65	-38.39
7,784.0	2.50	146.00	7,783.1	0.5	-4.7	-4.7	1.28	1.28	3.62
7,877.0	1.10	217.40	7,876.0	-1.9	-4.1	-4.0	2.57	-1.51	76.77
7,971.0	2.00	219.50	7,970.0	-3.9	-5.7	-5.6	0.96	0.96	2.23
8,064.0	1.10	249.80	8,062.9	-5.5	-7.6	-7.4	1.28	-0.97	32.58
8,157.0	0.90	264.90	8,155.9	-5.8	-9.1	-8.9	0.35	-0.22	16.24
8,251.0	1.20	264.40	8,249.9	-6.0	-10.8	-10.6	0.32	0.32	-0.53

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
8,344.0	1.40	260.30	8,342.9	-6.3	-12.9	-12.7	0.24	0.22	-4.41
8,438.0	0.90	297.00	8,436.9	-6.1	-14.7	-14.5	0.92	-0.53	39.04
8,532.0	2.60	272.70	8,530.8	-5.7	-17.5	-17.3	1.93	1.81	-25.85
8,625.0	1.70	302.00	8,623.8	-4.9	-20.8	-20.6	1.50	-0.97	31.51
8,718.0	0.60	8.30	8,716.7	-3.7	-21.9	-21.8	1.68	-1.18	71.29
8,812.0	0.40	212.70	8,810.7	-3.5	-22.0	-21.9	1.04	-0.21	-165.53
8,905.0	1.30	233.50	8,903.7	-4.4	-23.0	-22.9	1.01	0.97	22.37
8,999.0	0.60	346.60	8,997.7	-4.5	-24.0	-23.8	1.74	-0.74	120.32
9,092.0	0.50	345.80	9,090.7	-3.6	-24.2	-24.1	0.11	-0.11	-0.86
9,116.0	0.40	56.40	9,114.7	-3.5	-24.1	-24.0	2.19	-0.42	294.17
9,147.0	2.40	109.40	9,145.7	-3.7	-23.4	-23.3	7.04	6.45	170.97
9,178.0	6.40	111.40	9,176.6	-4.5	-21.2	-21.1	12.91	12.90	6.45
9,210.0	10.10	112.90	9,208.3	-6.2	-17.0	-16.8	11.58	11.56	4.69
9,241.0	13.80	110.70	9,238.6	-8.6	-11.0	-10.7	12.02	11.94	-7.10
9,272.0	18.60	112.20	9,268.4	-11.8	-3.0	-2.6	15.54	15.48	4.84
9,303.0	23.10	113.90	9,297.3	-16.1	7.2	7.7	14.65	14.52	5.48
9,334.0	26.60	114.80	9,325.4	-21.5	19.0	19.7	11.36	11.29	2.90
9,366.0	30.20	116.20	9,353.6	-28.1	32.8	33.6	11.44	11.25	4.38
9,397.0	34.00	115.50	9,379.8	-35.2	47.6	48.6	12.32	12.26	-2.26
9,428.0	37.00	112.90	9,405.1	-42.6	64.0	65.3	10.83	9.68	-8.39
9,459.0	39.80	109.70	9,429.4	-49.6	82.0	83.4	11.07	9.03	-10.32
9,490.0	43.10	107.70	9,452.6	-56.1	101.4	103.0	11.47	10.65	-6.45
9,522.0	46.90	106.10	9,475.2	-62.7	123.0	124.8	12.39	11.88	-5.00
9,553.0	51.70	104.30	9,495.4	-68.9	145.7	147.7	16.10	15.48	-5.81
9,584.0	56.10	103.00	9,513.7	-74.8	170.0	172.2	14.59	14.19	-4.19
9,615.0	59.50	103.40	9,530.2	-80.7	195.6	197.9	11.02	10.97	1.29
9,646.0	62.90	105.30	9,545.2	-87.5	221.9	224.4	12.21	10.97	6.13
9,677.0	65.70	107.50	9,558.6	-95.4	248.7	251.4	11.07	9.03	7.10
9,708.0	68.50	109.00	9,570.7	-104.3	275.8	278.8	10.07	9.03	4.84
9,739.0	73.50	110.60	9,580.8	-114.3	303.4	306.6	16.85	16.13	5.16
9,776.0	78.90	110.90	9,589.6	-127.0	337.0	340.6	14.62	14.59	0.81
9,855.0	83.70	110.70	9,601.5	-154.7	409.9	414.4	6.08	6.08	-0.25
9,886.0	85.80	108.90	9,604.4	-165.2	439.0	443.7	8.91	6.77	-5.81
9,887.0	85.91	108.84	9,604.4	-165.5	439.9	444.7	12.26	10.96	-5.50
LP Queen 23/24 W00P Fed Com 1H									
9,917.0	89.20	107.20	9,605.7	-174.8	468.4	473.4	12.26	10.97	-5.48
9,948.0	89.10	105.30	9,606.2	-183.4	498.2	503.4	6.14	-0.32	-6.13
9,980.0	88.90	103.50	9,606.7	-191.4	529.2	534.6	5.66	-0.63	-5.63
10,011.0	88.40	102.90	9,607.5	-198.5	559.3	565.0	2.52	-1.61	-1.94
10,042.0	88.75	102.00	9,608.2	-205.1	589.6	595.4	3.11	1.13	-2.90
10,073.0	89.90	101.20	9,608.6	-211.4	620.0	626.0	4.52	3.71	-2.58
10,104.0	90.81	100.90	9,608.4	-217.3	650.4	656.6	3.09	2.94	-0.97
10,135.0	91.03	99.84	9,607.9	-222.9	680.9	687.2	3.49	0.71	-3.42

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)
10,198.0	90.51	98.08	9,607.1	-232.7	743.1	749.7	2.91	-0.83	-2.79
10,291.0	88.44	94.20	9,607.9	-242.6	835.5	842.4	4.73	-2.23	-4.17
10,354.0	89.82	93.15	9,608.9	-246.7	898.4	905.4	2.75	2.19	-1.66
First Legal Take Point									
10,385.0	90.50	92.64	9,608.8	-248.3	929.4	936.3	2.75	2.19	-1.66
10,478.0	90.10	92.60	9,608.3	-252.5	1,022.3	1,029.3	0.43	-0.43	-0.04
10,572.0	89.50	92.30	9,608.6	-256.5	1,116.2	1,123.3	0.71	-0.64	-0.32
10,665.0	90.10	92.50	9,608.9	-260.4	1,209.1	1,216.3	0.68	0.65	0.22
10,758.0	89.50	92.70	9,609.3	-264.6	1,302.0	1,309.3	0.68	-0.65	0.22
10,852.0	88.90	92.30	9,610.6	-268.7	1,395.9	1,403.3	0.77	-0.64	-0.43
10,945.0	88.50	91.60	9,612.7	-271.9	1,488.8	1,496.2	0.87	-0.43	-0.75
11,039.0	88.00	92.10	9,615.6	-274.9	1,582.7	1,590.2	0.75	-0.53	0.53
11,132.0	88.80	89.80	9,618.2	-276.5	1,675.7	1,683.2	2.62	0.86	-2.47
11,226.0	87.50	89.20	9,621.2	-275.7	1,769.6	1,777.0	1.52	-1.38	-0.64
11,319.0	88.44	89.40	9,624.5	-274.5	1,862.5	1,869.9	1.03	1.01	0.22
11,412.0	89.20	88.42	9,626.4	-272.8	1,955.5	1,962.8	1.33	0.82	-1.05
11,506.0	88.10	88.20	9,628.6	-270.0	2,049.4	2,056.6	1.19	-1.17	-0.23
11,599.0	89.50	88.20	9,630.6	-267.1	2,142.4	2,149.4	1.51	1.51	0.00
11,693.0	89.20	88.20	9,631.6	-264.1	2,236.3	2,243.2	0.32	-0.32	0.00
11,787.0	88.30	88.00	9,633.7	-261.0	2,330.2	2,337.0	0.98	-0.96	-0.21
11,880.0	90.30	90.30	9,634.8	-259.6	2,423.2	2,429.9	3.28	2.15	2.47
11,974.0	88.80	89.60	9,635.6	-259.5	2,517.2	2,523.8	1.76	-1.60	-0.74
12,068.0	89.30	91.10	9,637.1	-260.1	2,611.2	2,617.8	1.68	0.53	1.60
12,161.0	88.10	90.60	9,639.2	-261.5	2,704.2	2,710.7	1.40	-1.29	-0.54
12,255.0	90.00	91.80	9,640.8	-263.5	2,798.1	2,804.7	2.39	2.02	1.28
12,348.0	89.10	91.60	9,641.5	-266.2	2,891.1	2,897.7	0.99	-0.97	-0.22
12,442.0	87.80	91.80	9,644.1	-269.0	2,985.0	2,991.7	1.40	-1.38	0.21
12,535.0	88.40	92.20	9,647.1	-272.2	3,077.9	3,084.6	0.78	0.65	0.43
12,629.0	89.50	92.30	9,648.9	-275.9	3,171.8	3,178.6	1.18	1.17	0.11
12,723.0	90.20	92.60	9,649.1	-280.0	3,265.7	3,272.6	0.81	0.74	0.32
12,816.0	89.50	92.60	9,649.4	-284.2	3,358.6	3,365.6	0.75	-0.75	0.00
12,909.0	88.50	91.90	9,651.0	-287.8	3,451.5	3,458.6	1.31	-1.08	-0.75
13,003.0	87.80	92.00	9,654.0	-291.0	3,545.4	3,552.5	0.75	-0.74	0.11
13,096.0	88.10	91.80	9,657.3	-294.1	3,638.3	3,645.4	0.39	0.32	-0.22
13,189.0	89.10	90.50	9,659.6	-296.0	3,731.3	3,738.4	1.76	1.08	-1.40
13,283.0	88.00	90.30	9,662.0	-296.6	3,825.2	3,832.4	1.19	-1.17	-0.21
13,376.0	89.90	90.50	9,663.7	-297.3	3,918.2	3,925.3	2.05	2.04	0.22
13,470.0	89.90	90.40	9,663.9	-298.0	4,012.2	4,019.3	0.11	0.00	-0.11
13,563.0	88.20	90.40	9,665.4	-298.7	4,105.2	4,112.2	1.83	-1.83	0.00
13,656.0	88.00	90.10	9,668.5	-299.1	4,198.1	4,205.2	0.39	-0.22	-0.32
13,750.0	88.30	89.60	9,671.5	-298.8	4,292.1	4,299.1	0.62	0.32	-0.53
13,843.0	88.80	88.40	9,673.9	-297.2	4,385.0	4,391.9	1.40	0.54	-1.29

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W0OP Fed Com 1H
Well: Queen 23-24 W0OP Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W0OP Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)
13,936.0	88.50	88.00	9,676.1	-294.3	4,478.0	4,484.7	0.54	-0.32	-0.43
14,030.0	89.70	89.30	9,677.5	-292.1	4,571.9	4,578.6	1.88	1.28	1.38
14,123.0	89.40	89.00	9,678.3	-290.7	4,664.9	4,671.5	0.46	-0.32	-0.32
14,217.0	88.40	88.90	9,680.1	-289.0	4,758.9	4,765.4	1.07	-1.06	-0.11
14,310.0	88.50	89.10	9,682.6	-287.3	4,851.8	4,858.2	0.24	0.11	0.22
14,404.0	88.30	89.60	9,685.2	-286.3	4,945.8	4,952.1	0.57	-0.21	0.53
14,497.0	89.60	90.90	9,686.9	-286.7	5,038.8	5,045.1	1.98	1.40	1.40
14,591.0	87.10	88.80	9,689.6	-286.4	5,132.7	5,139.0	3.47	-2.66	-2.23
14,684.0	90.90	89.90	9,691.2	-285.4	5,225.7	5,231.8	4.25	4.09	1.18
14,777.0	89.00	88.50	9,691.3	-284.1	5,318.7	5,324.8	2.54	-2.04	-1.51
14,871.0	88.00	88.10	9,693.8	-281.3	5,412.6	5,418.6	1.15	-1.06	-0.43
14,964.0	88.00	88.42	9,697.0	-278.5	5,505.5	5,511.3	0.34	0.00	0.34
15,058.0	90.20	89.50	9,698.5	-276.8	5,599.4	5,605.2	2.61	2.34	1.15
15,151.0	87.50	87.40	9,700.4	-274.2	5,692.4	5,698.0	3.68	-2.90	-2.26
15,245.0	89.70	88.30	9,702.7	-270.7	5,786.3	5,791.8	2.53	2.34	0.96
15,338.0	88.80	87.60	9,703.9	-267.4	5,879.2	5,884.6	1.23	-0.97	-0.75
15,432.0	87.90	88.90	9,706.6	-264.5	5,973.1	5,978.3	1.68	-0.96	1.38
15,525.0	89.70	90.40	9,708.5	-264.0	6,066.1	6,071.3	2.52	1.94	1.61
15,619.0	89.10	91.10	9,709.5	-265.2	6,160.1	6,165.2	0.98	-0.64	0.74
15,712.0	89.20	91.90	9,710.9	-267.6	6,253.0	6,258.2	0.87	0.11	0.86
15,805.0	87.50	93.00	9,713.6	-271.6	6,345.9	6,351.2	2.18	-1.83	1.18
15,899.0	88.40	92.80	9,717.0	-276.4	6,439.7	6,445.1	0.98	0.96	-0.21
15,993.0	89.40	94.70	9,718.8	-282.5	6,533.5	6,539.0	2.28	1.06	2.02
16,086.0	89.60	95.50	9,719.6	-290.8	6,626.1	6,631.8	0.89	0.22	0.86
16,106.0	89.60	95.40	9,719.7	-292.7	6,646.0	6,651.8	0.50	0.00	-0.50
16,199.0	88.20	95.10	9,721.5	-301.2	6,738.6	6,744.6	1.54	-1.51	-0.32
16,293.0	88.00	94.50	9,724.6	-309.0	6,832.2	6,838.4	0.67	-0.21	-0.64
16,386.0	88.10	93.00	9,727.8	-315.1	6,925.0	6,931.3	1.62	0.11	-1.61
16,480.0	87.80	93.30	9,731.1	-320.3	7,018.8	7,025.2	0.45	-0.32	0.32
16,573.0	88.80	93.00	9,733.9	-325.4	7,111.6	7,118.1	1.12	1.08	-0.32
16,666.0	89.50	94.20	9,735.3	-331.2	7,204.4	7,211.1	1.49	0.75	1.29
16,759.0	89.40	92.30	9,736.2	-336.5	7,297.3	7,304.0	2.05	-0.11	-2.04
16,852.0	90.60	93.10	9,736.2	-340.9	7,390.1	7,397.0	1.55	1.29	0.86
16,946.0	87.60	91.40	9,737.6	-344.6	7,484.0	7,491.0	3.67	-3.19	-1.81
17,038.0	89.20	91.20	9,740.2	-346.6	7,576.0	7,582.9	1.75	1.74	-0.22
17,133.0	90.00	90.50	9,740.9	-348.1	7,671.0	7,677.9	1.12	0.84	-0.74
17,229.0	88.60	90.90	9,742.0	-349.2	7,767.0	7,773.9	1.52	-1.46	0.42
17,324.0	87.50	91.20	9,745.3	-351.0	7,861.9	7,868.8	1.20	-1.16	0.32
17,419.0	89.50	91.10	9,747.8	-352.9	7,956.8	7,963.8	2.11	2.11	-0.11
17,514.0	88.90	90.70	9,749.1	-354.4	8,051.8	8,058.8	0.76	-0.63	-0.42
17,613.0	87.60	90.70	9,752.1	-355.6	8,150.7	8,157.7	1.31	-1.31	0.00
17,680.0	87.60	90.70	9,754.9	-356.4	8,217.7	8,224.7	0.00	0.00	0.00

17680' MD Projected to Bit - PBHL Queen 23/24 W0OP Fed Com 1H



Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 23-24-24S-28E Queen 23-24 W00P
Fed Com 1H
Well: Queen 23-24 W00P Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Queen 23-24 W00P Fed Com 1H
TVD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
MD Reference: 2955 + 27 @ 2982.0usft (Patterson 245)
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)
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Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.0	600.0	-0.1	3.1	600' MD Rig Surveys
17,680.0	9,754.9	-356.4	8,217.7	17680' MD Projected to Bit



November 7, 2017

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

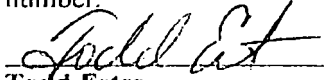
Attn: Jackie Lathan

Re: Mewbourne Oil Company
Queen 23 24 W00P Federal Com #001H
Purple Sage; Wolfcamp (Gas)
Eddy County, New Mexico
API# 30-015-44250

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	696ft. to 17,613ft.	08-29-17 to 09-23-17	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\Queen 23 24 W00P Federal Com#1H\171075

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



November 7, 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 August 29, 2017, through September 23, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 696 feet to a depth of 17,613 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 Queen 23 24 W00P Federal Com #001H well, API # 30-015-44250 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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88240		² OGRID Number 14744
		³ Reason for Filing Code/ Effective Date NW/ 03/14/18
⁴ API Number 30 - 015-44250	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 317799	⁸ Property Name Queen 23/24 W00P Fed Com	⁹ Well Number 1H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	23	24S	28E		750	South	2175	West	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	24S	28E		438	South	338	East	Eddy
¹² Lse Code F	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
174238	Enterprise Crude Oil, LLC 4600 W Hwy 80 Midland, TX 79706	O
282301	Crestwood New Mexico Pipeline 801 Cherry Street STE 3800 Ft. Worth, TX 76102	G

IV. Well Completion Data We are asking for an exemption from tubing at this time.

²¹ Spud Date 08/28/17	²² Ready Date 03/14/18	²³ TD 17680'	²⁴ PBTD 17651'	²⁵ Perforations 10370' - 17640'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/4"	664'	700		
12 1/4"	9 1/4"	2542'	600		
8 1/4"	7"	9827'	1050		
6 1/4"	4 1/2"	17640'	500		

V. Well Test Data

³¹ Date New Oil 03/14/18	³² Gas Delivery Date 03/14/18	³³ Test Date	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure NA	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method Producing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Jackie Lathan
Printed name:
Jackie Lathan

Title:

Regulatory

E-mail Address:

jlathan@mewbourne.com

Date:

03/20/18

Phone:

575-393-5905

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: