Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs
HOBBS OCD
MAY 16 2017
RECEIVED

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE - Other instructions on page 2***

5. Lease Serial No.
NMNM02965A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SALADO DRAW 10 W0PA FEDERAL 2H

2. Name of Operator
MEWBOURNE OIL COMPANY (14744)
Contact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com

9. API Well No.
30-025-42837-00-X1

3a. Address
HOBBS, NM 88241

3b. Phone No. (include area code)
Ph: 575-393-5905

10. Field and Pool or Exploratory Area
RED HILLS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 15 T26S R33E NENE 185FNL 500FEL

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mewbourne Oil Company has an approved APD for the above well. Mewbourne would like to make the following changes:

1 - Change name to Salado Draw 10 W1PA Federal #2H
2 - Change surface location to 250' FNL & 530' FWL, Sec 15 T26S R33E
3 - Change BHL to 330' FNL & 330' FWL, Sec 10 T26S R33E

NEW PROP CODE 317772

Please see attachments for updated C-102 and drilling plans.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

2017-0325-EA
same COAs from APD
Surface OK - Brooke Wilson

Engineering Ok - T

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #370484 verified by the BLM Well Information System**
**For MEWBOURNE OIL COMPANY, sent to the Hobbs**
**Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/11/2017 (17DLM0837SE)**

Name *(Printed/Typed)* ANDREW TAYLOR — Title ENGINEER

Signature (Electronic Submission) — Date 03/21/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By Cody R. Layton — Title AFM - Lands & Minerals — Date 05/05/17

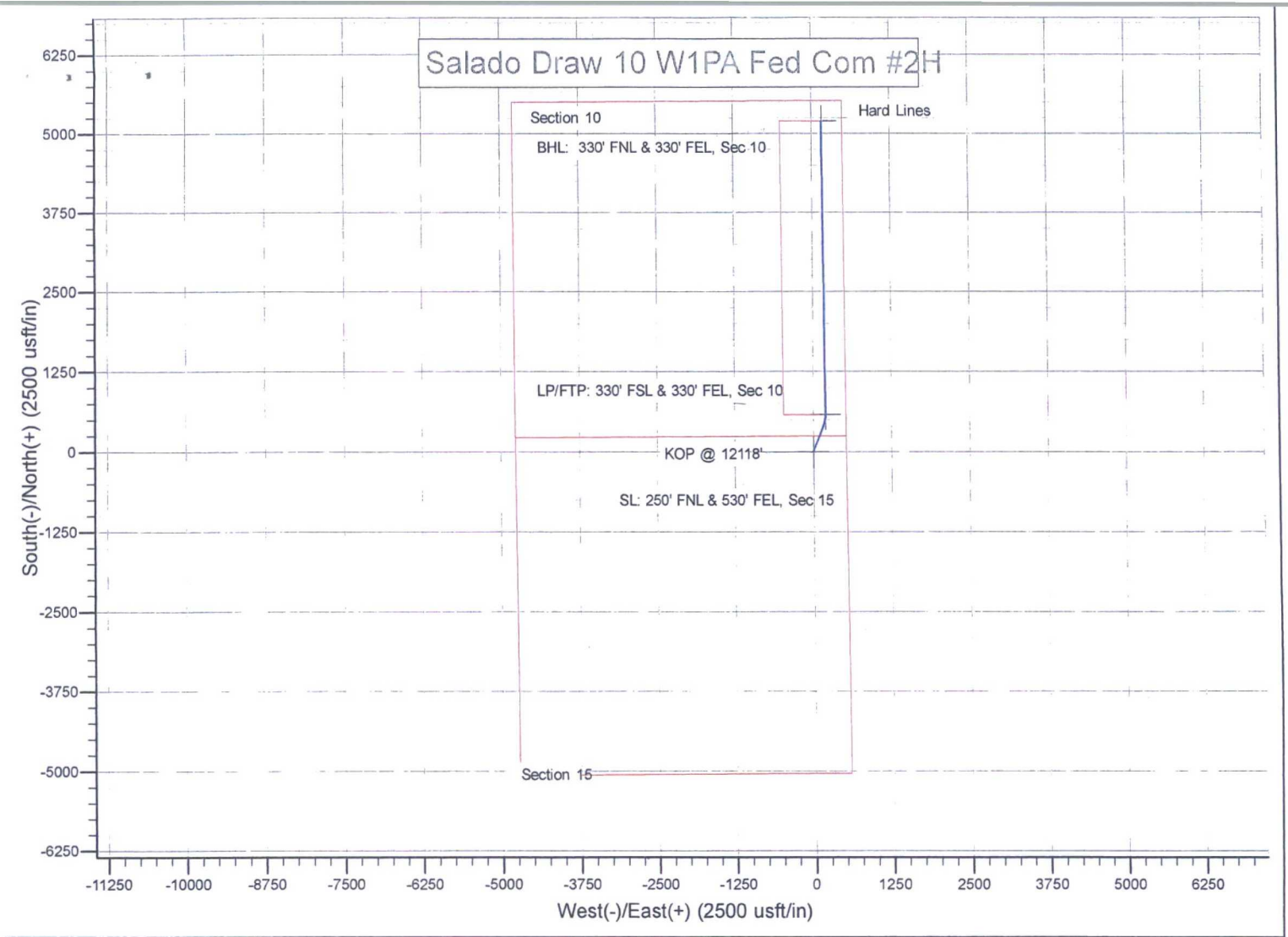
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

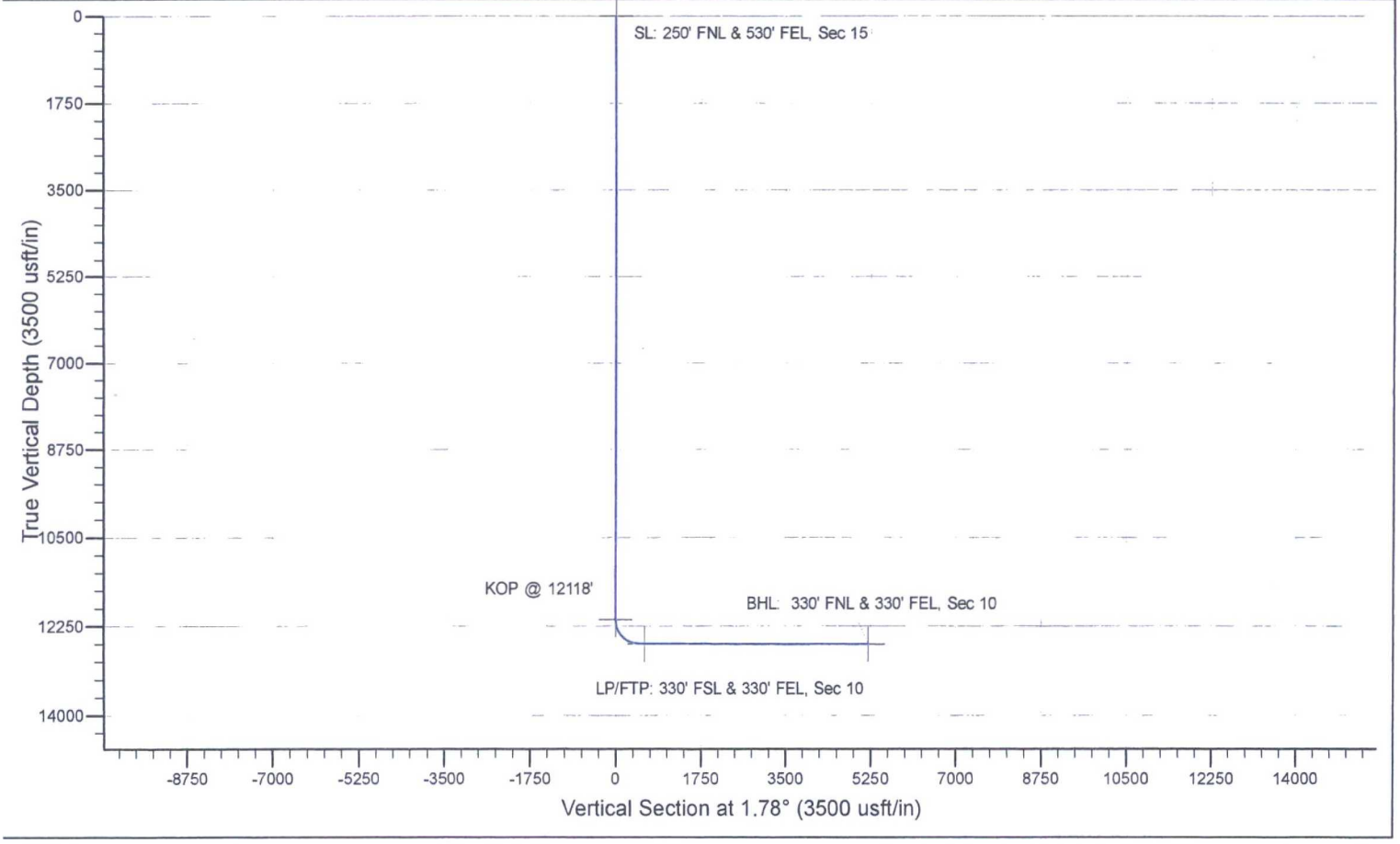
Office CFO

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.

(Instructions on page 2)

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


Salado Draw 10 W1PA Fed Com #2H
Section 10
Hard Lines
BHL: 330' FNL & 330' FEL, Sec 10
LP/FTP: 330' FSL & 330' FEL, Sec 10
KOP @ 12118'
SL: 250' FNL & 530' FEL, Sec 15
Section 15
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SL: 250' FNL & 530' FEL, Sec 15
KOP @ 12118'
BHL: 330' FNL & 330' FEL, Sec 10
LP/FTP: 330' FSL & 330' FEL, Sec 10
True Vertical Depth (3500 usft/in)
Vertical Section at 1.78° (3500 usft/in)

# Mewbourne Oil Company

**Lea County, New Mexico**
**Salado Draw 10 W1PA Fed Com #2H**
**Sec 15, T26S, R33E**
**SL: 250' FNL & 530' FEL, Sec 15**
**BHL: 330' FNL & 330' FEL, Sec 10**

**Plan: Design #1**

# Standard Planning Report

**21 March, 2017**

| | | | |
|---|---|---|---|
| **Database:** | Hobbs | **Local Co-ordinate Reference:** | Site Salado Draw 10 W1PA Fed Com #2H |
| **Company:** | Mewbourne Oil Company | **TVD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Project:** | Lea County, New Mexico | **MD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Site:** | Salado Draw 10 W1PA Fed Com #2H | **North Reference:** | Grid |
| **Well:** | Sec 15, T26S, R33E | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | BHL: 330' FNL & 330' FEL, Sec 10 | | |
| **Design:** | Design #1 | | |

| **Project** | Lea 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** | Salado Draw 10 W1PA Fed Com #2H | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 382,758.00 usft | **Latitude:** | 32° 2' 59.691 N |
| **From:** | Map | **Easting:** | 741,804.00 usft | **Longitude:** | 103° 33' 10.421 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | 0.41 ° |

| **Well** | Sec 15, T26S, R33E | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 382,758.00 usft | **Latitude:** | 32° 2' 59.691 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 741,804.00 usft | **Longitude:** | 103° 33' 10.421 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | 3,355.0 usft | **Ground Level:** | 3,328.0 usft |

| **Wellbore** | BHL: 330' FNL & 330' FEL, Sec 10 | | | |
|---|---|---|---|---|
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | IGRF2010 | 3/14/2017 | 6.85 | 59.88 | 47,940 |

| **Design** | Design #1 | | | |
|---|---|---|---|---|
| **Audit Notes:** | | | | |
| **Version:** | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |

| **Vertical Section:** | **Depth From (TVD) (usft)** | **+N/-S (usft)** | **+E/-W (usft)** | **Direction (°)** |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 1.78 |

**Plan Sections**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,117.5 | 0.00 | 0.00 | 12,117.5 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP @ 12118' |
| 12,806.2 | 84.03 | 22.23 | 12,584.5 | 389.4 | 159.2 | 12.20 | 12.20 | 0.00 | 22.23 | |
| 13,002.9 | 89.94 | 359.58 | 12,595.0 | 581.0 | 196.0 | 11.88 | 3.00 | -11.52 | -76.17 | LP/FTP: 330' FSL & 3 |
| 17,622.0 | 89.94 | 359.58 | 12,600.0 | 5,200.0 | 162.0 | 0.00 | 0.00 | 0.00 | 0.00 | BHL: 330' FNL & 330 |

| | | | |
|---|---|---|---|
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| **Project:** | Lea County, New Mexico | **MD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Site:** | Salado Draw 10 W1PA Fed Com #2H | **North Reference:** | Grid |
| **Well:** | Sec 15, T26S, R33E | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | BHL: 330' FNL & 330' FEL, Sec 10 | | |
| **Design:** | Design #1 | | |

**Planned 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 |
| **SL: 250' FNL & 530' FEL, Sec 15** | | | | | | | | | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 0.00 | 0.00 | 2,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 0.00 | 0.00 | 2,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 0.00 | 0.00 | 3,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 0.00 | 0.00 | 3,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 0.00 | 0.00 | 3,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 0.00 | 0.00 | 3,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 0.00 | 0.00 | 3,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 0.00 | 0.00 | 3,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 0.00 | 0.00 | 3,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 0.00 | 0.00 | 3,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 0.00 | 0.00 | 3,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 0.00 | 0.00 | 3,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 0.00 | 0.00 | 4,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 4,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 4,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 0.00 | 0.00 | 4,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 5,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 5,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
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| **Company:** | Mewbourne Oil Company | **TVD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Project:** | Lea County, New Mexico | **MD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Site:** | Salado Draw 10 W1PA Fed Com #2H | **North Reference:** | Grid |
| **Well:** | Sec 15, T26S, R33E | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | BHL: 330' FNL & 330' FEL, Sec 10 | | |
| **Design:** | Design #1 | | |

**Planned 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) |
|---|---|---|---|---|---|---|---|---|---|
| 5,300.0 | 0.00 | 0.00 | 5,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 6,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 0.00 | 0.00 | 6,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 0.00 | 0.00 | 6,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 0.00 | 0.00 | 6,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 0.00 | 0.00 | 6,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 0.00 | 0.00 | 6,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 0.00 | 0.00 | 6,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 0.00 | 0.00 | 6,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 0.00 | 0.00 | 6,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 0.00 | 0.00 | 7,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 0.00 | 0.00 | 7,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 0.00 | 0.00 | 7,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 0.00 | 0.00 | 7,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 0.00 | 0.00 | 7,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 0.00 | 0.00 | 7,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 0.00 | 0.00 | 7,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 0.00 | 0.00 | 7,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 0.00 | 0.00 | 7,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 0.00 | 0.00 | 7,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 0.00 | 0.00 | 8,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 0.00 | 0.00 | 8,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 0.00 | 0.00 | 8,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 9,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 9,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 9,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 0.00 | 0.00 | 9,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 0.00 | 0.00 | 9,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 0.00 | 0.00 | 9,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 0.00 | 0.00 | 10,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 0.00 | 0.00 | 10,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 0.00 | 0.00 | 10,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 0.00 | 0.00 | 10,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 0.00 | 0.00 | 10,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 0.00 | 0.00 | 10,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 0.00 | 0.00 | 10,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | Hobbs | **Local Co-ordinate Reference:** | Site Salado Draw 10 W1PA Fed Com #2H |
| **Company:** | Mewbourne Oil Company | **TVD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Project:** | Lea County, New Mexico | **MD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Site:** | Salado Draw 10 W1PA Fed Com #2H | **North Reference:** | Grid |
| **Well:** | Sec 15, T26S, R33E | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | BHL: 330' FNL & 330' FEL, Sec 10 | | |
| **Design:** | Design #1 | | |

**Planned 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) |
|---|---|---|---|---|---|---|---|---|---|
| 10,700.0 | 0.00 | 0.00 | 10,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 0.00 | 0.00 | 10,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 0.00 | 0.00 | 10,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 0.00 | 0.00 | 11,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 0.00 | 0.00 | 11,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 0.00 | 0.00 | 11,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 0.00 | 0.00 | 11,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 0.00 | 0.00 | 11,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 0.00 | 0.00 | 11,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 0.00 | 0.00 | 11,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 0.00 | 0.00 | 11,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 0.00 | 0.00 | 11,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 0.00 | 0.00 | 11,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 0.00 | 0.00 | 12,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 0.00 | 0.00 | 12,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 12,117.5 | 0.00 | 0.00 | 12,117.5 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| **KOP @ 12118'** | | | | | | | | | |
| 12,200.0 | 10.06 | 22.23 | 12,199.6 | 6.7 | 2.7 | 6.8 | 12.20 | 12.20 | 0.00 |
| 12,300.0 | 22.27 | 22.23 | 12,295.4 | 32.4 | 13.2 | 32.8 | 12.20 | 12.20 | 0.00 |
| 12,400.0 | 34.47 | 22.23 | 12,383.3 | 76.3 | 31.2 | 77.2 | 12.20 | 12.20 | 0.00 |
| 12,500.0 | 46.67 | 22.23 | 12,459.1 | 136.4 | 55.8 | 138.1 | 12.20 | 12.20 | 0.00 |
| 12,600.0 | 58.87 | 22.23 | 12,519.5 | 210.0 | 85.8 | 212.5 | 12.20 | 12.20 | 0.00 |
| 12,700.0 | 71.08 | 22.23 | 12,561.7 | 293.7 | 120.0 | 297.3 | 12.20 | 12.20 | 0.00 |
| 12,800.0 | 83.28 | 22.23 | 12,583.8 | 383.8 | 156.9 | 388.5 | 12.20 | 12.20 | 0.00 |
| 12,806.2 | 84.03 | 22.23 | 12,584.5 | 389.4 | 159.2 | 394.2 | 12.20 | 12.20 | 0.00 |
| 12,900.0 | 86.79 | 11.40 | 12,592.1 | 478.8 | 186.2 | 484.4 | 11.88 | 2.94 | -11.55 |
| 13,000.0 | 89.85 | 359.91 | 12,595.0 | 578.1 | 196.0 | 583.9 | 11.88 | 3.06 | -11.49 |
| 13,002.9 | 89.94 | 359.58 | 12,595.0 | 581.0 | 196.0 | 586.8 | 11.88 | 3.08 | -11.48 |
| **LP/FTP: 330' FSL & 330' FEL, Sec 10** | | | | | | | | | |
| 13,100.0 | 89.94 | 359.58 | 12,595.1 | 678.1 | 195.3 | 683.9 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 89.94 | 359.58 | 12,595.2 | 778.1 | 194.5 | 783.8 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 89.94 | 359.58 | 12,595.3 | 878.1 | 193.8 | 883.7 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 89.94 | 359.58 | 12,595.4 | 978.1 | 193.1 | 983.6 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 89.94 | 359.58 | 12,595.5 | 1,078.1 | 192.3 | 1,083.6 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 89.94 | 359.58 | 12,595.6 | 1,178.1 | 191.6 | 1,183.5 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 89.94 | 359.58 | 12,595.8 | 1,278.1 | 190.9 | 1,283.4 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 89.94 | 359.58 | 12,595.9 | 1,378.1 | 190.1 | 1,383.3 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 89.94 | 359.58 | 12,596.0 | 1,478.1 | 189.4 | 1,483.3 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 89.94 | 359.58 | 12,596.1 | 1,578.1 | 188.7 | 1,583.2 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 89.94 | 359.58 | 12,596.2 | 1,678.1 | 187.9 | 1,683.1 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 89.94 | 359.58 | 12,596.3 | 1,778.1 | 187.2 | 1,783.0 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 89.94 | 359.58 | 12,596.4 | 1,878.1 | 186.5 | 1,883.0 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 89.94 | 359.58 | 12,596.5 | 1,978.1 | 185.7 | 1,982.9 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 89.94 | 359.58 | 12,596.6 | 2,078.1 | 185.0 | 2,082.8 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 89.94 | 359.58 | 12,596.7 | 2,178.1 | 184.2 | 2,182.8 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 89.94 | 359.58 | 12,596.8 | 2,278.1 | 183.5 | 2,282.7 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 89.94 | 359.58 | 12,596.9 | 2,378.1 | 182.8 | 2,382.6 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 89.94 | 359.58 | 12,597.1 | 2,478.1 | 182.0 | 2,482.5 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 89.94 | 359.58 | 12,597.2 | 2,578.1 | 181.3 | 2,582.5 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 89.94 | 359.58 | 12,597.3 | 2,678.1 | 180.6 | 2,682.4 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 89.94 | 359.58 | 12,597.4 | 2,778.1 | 179.8 | 2,782.3 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 89.94 | 359.58 | 12,597.5 | 2,878.1 | 179.1 | 2,882.2 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 89.94 | 359.58 | 12,597.6 | 2,978.0 | 178.4 | 2,982.2 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 89.94 | 359.58 | 12,597.7 | 3,078.0 | 177.6 | 3,082.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|---|---|---|---|
| **Database:** | Hobbs | **Local Co-ordinate Reference:** | Site Salado Draw 10 W1PA Fed Com #2H |
| **Company:** | Mewbourne Oil Company | **TVD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Project:** | Lea County, New Mexico | **MD Reference:** | WELL @ 3355.0usft (Original Well Elev) |
| **Site:** | Salado Draw 10 W1PA Fed Com #2H | **North Reference:** | Grid |
| **Well:** | Sec 15, T26S, R33E | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | BHL: 330' FNL & 330' FEL, Sec 10 | | |
| **Design:** | Design #1 | | |

**Planned 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) |
|---|---|---|---|---|---|---|---|---|---|
| 15,600.0 | 89.94 | 359.58 | 12,597.8 | 3,178.0 | 176.9 | 3,182.0 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 89.94 | 359.58 | 12,597.9 | 3,278.0 | 176.1 | 3,281.9 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 89.94 | 359.58 | 12,598.0 | 3,378.0 | 175.4 | 3,381.9 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 89.94 | 359.58 | 12,598.1 | 3,478.0 | 174.7 | 3,481.8 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 89.94 | 359.58 | 12,598.2 | 3,578.0 | 173.9 | 3,581.7 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 89.94 | 359.58 | 12,598.4 | 3,678.0 | 173.2 | 3,681.6 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 89.94 | 359.58 | 12,598.5 | 3,778.0 | 172.5 | 3,781.6 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 89.94 | 359.58 | 12,598.6 | 3,878.0 | 171.7 | 3,881.5 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 89.94 | 359.58 | 12,598.7 | 3,978.0 | 171.0 | 3,981.4 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 89.94 | 359.58 | 12,598.8 | 4,078.0 | 170.3 | 4,081.3 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 89.94 | 359.58 | 12,598.9 | 4,178.0 | 169.5 | 4,181.3 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 89.94 | 359.58 | 12,599.0 | 4,278.0 | 168.8 | 4,281.2 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 89.94 | 359.58 | 12,599.1 | 4,378.0 | 168.1 | 4,381.1 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 89.94 | 359.58 | 12,599.2 | 4,478.0 | 167.3 | 4,481.0 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 89.94 | 359.58 | 12,599.3 | 4,578.0 | 166.6 | 4,581.0 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 89.94 | 359.58 | 12,599.4 | 4,678.0 | 165.8 | 4,680.9 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 89.94 | 359.58 | 12,599.5 | 4,778.0 | 165.1 | 4,780.8 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 89.94 | 359.58 | 12,599.7 | 4,878.0 | 164.4 | 4,880.7 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 89.94 | 359.58 | 12,599.8 | 4,978.0 | 163.6 | 4,980.7 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 89.94 | 359.58 | 12,599.9 | 5,078.0 | 162.9 | 5,080.6 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 89.94 | 359.58 | 12,600.0 | 5,178.0 | 162.2 | 5,180.5 | 0.00 | 0.00 | 0.00 |
| 17,622.0 | 89.94 | 359.58 | 12,600.0 | 5,200.0 | 162.0 | 5,202.5 | 0.00 | 0.00 | 0.00 |
| **BHL: 330' FNL & 330' FEL, Sec 10** | | | | | | | | | |

**Design Targets**

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| SL: 250' FNL & 530' FEL<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 382,758.00 | 741,804.00 | 32° 2' 59.691 N | 103° 33' 10.421 W |
| KOP @ 12118'<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 12,117.5 | 0.0 | 0.0 | 382,758.00 | 741,804.00 | 32° 2' 59.691 N | 103° 33' 10.421 W |
| LP/FTP: 330' FSL & 330<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 12,595.0 | 581.0 | 196.0 | 383,339.00 | 742,000.00 | 32° 3' 5.427 N | 103° 33' 8.095 W |
| BHL: 330' FNL & 330' F<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 12,600.0 | 5,200.0 | 162.0 | 387,958.00 | 741,966.00 | 32° 3' 51.137 N | 103° 33' 8.101 W |

**Mewbourne Oil Company, Salado Draw 10 W1PA Fed Com #2H**
**Sec 15, T26S, R33E**
**SL: 250' FNL & 530' FEL, Sec 15**
**BHL: 330' FNL & 330' FEL, Sec 10**

## 1. Geologic Formations

| | | | |
|---|---|---|---|
| TVD of target | 12600' | Pilot hole depth | NA |
| MD at TD: | 17625' | Deepest expected fresh water: | 125' |

**Basin**

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* |
|---|---|---|---|
| Quaternary Fill | Surface | | |
| Rustler | 951 | Water | |
| Top Salt | 1291 | | |
| Castile | 3222 | | |
| Base Salt | 4791 | | |
| Lamar | 5038 | Oil/Gas | |
| Bell Canyon | | Oil/Gas | |
| Cherry Canyon | 6187 | Oil/Gas | |
| Manzanita Marker | 6308 | | |
| Brushy Canyon | 7683 | Oil/Gas | |
| Bone Spring | 9198 | Oil/Gas | |
| 1st Bone Spring Sand | 10140 | | |
| 2nd Bone Spring Sand | 10685 | | |
| 3rd Bone Spring Sand | 10785 | | |
| Abo | | | |
| Wolfcamp | 12225 | Target Zone | |
| Devonian | | | |
| Fusselman | | | |
| Ellenburger | | | |
| Granite Wash | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

**Mewbourne Oil Company, Salado Draw 10 W1PA Fed Com #2H**
**Sec 15, T26S, R33E**
**SL: 250' FNL & 530' FEL, Sec 15**
**BHL: 330' FNL & 330' FEL, Sec 10**

## 2. Casing Program

| Hole Size | Casing Interval From | Casing Interval To | Csg. Size | Weight (lbs) | Grade | Conn. | SF Collapse | SF Burst | SF Jt Tension | SF Body Tension |
|---|---|---|---|---|---|---|---|---|---|---|
| 17.5" | 0' | 990' | 13.375" | 48 | H40 | STC | 1.50 | 3.36 | 6.78 | 11.38 |
| 12.25" | 0' | 3453' | 9.625" | 36 | J55 | LTC | 1.13 | 1.96 | 2.49 | 4.54 |
| 12.25" | 3453' | 4393' | 9.625" | 40 | J55 | LTC | 1.13 | 1.73 | 8.98 | 16.75 |
| 12.25" | 4393' | 4900' | 9.625" | 40 | N80 | LTC | 1.21 | 2.26 | 36.35 | 45.18 |
| 8.75" | 0' | 12700' | 7" | 26 | HCP110 | LTC | 1.24 | 1.58 | 2.01 | 2.51 |
| 6.125" | 12118' | 17625' | 4.5" | 13.5 | P110 | LTC | 1.25 | 1.46 | 4.55 | 5.68 |
| | | | | BLM Minimum Safety Factor | | | 1.125 | 1 | 1.6 Dry<br>1.8 Wet | 1.6 Dry<br>1.8 Wet |

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing

| | Y or N |
|---|---|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Is casing API approved? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | N |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| | |
| Is well located within Capitan Reef? | N |
| If yes, does production casing cement tie back a minimum of 50' above the Reef? | |
| Is well within the designated 4 string boundary. | |
| | |
| Is well located in SOPA but not in R-111-P? | N |
| If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing? | |
| | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2nd string set 100' to 600' below the base of salt? | |
| | |
| Is well located in high Cave/Karst? | Y |
| If yes, are there two strings cemented to surface? | Y |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| | |
| Is well located in critical Cave/Karst? | N |
| If yes, are there three strings cemented to surface? | |

## 3. Cementing Program

| Casing | # Sks | Wt. lb/ gal | Yld ft3/ sack | $H_20$ gal/ sk | 500# Comp. Strength (hours) | Slurry Description |
|---|---|---|---|---|---|---|
| Surf. | 530 | 12.5 | 2.12 | 11 | 10 | Lead: Class C + Salt + Gel + Extender + LCM |
| | 200 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Inter. | 820 | 12.5 | 2.12 | 11 | 10 | Lead: Class C + Salt + Gel + Extender + LCM |
| | 200 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Prod. Stg 1 | 350 | 12.5 | 2.12 | 11 | 9 | Lead: Class C + Gel + Retarder + Defoamer + Extender |
| | 400 | 15.6 | 1.18 | 5.2 | 10 | Tail: Class H + Retarder + Fluid Loss + Defoamer |
| ECP/DV Tool @ 6308' | | | | | | |
| Prod. Stg 2 | 90 | 12.5 | 2.12 | 11 | 9 | Lead: Class C + Gel + Retarder + Defoamer + Extender |
| | 100 | 14.8 | 1.34 | 6.3 | 8 | Tail: Class C + Retarder |
| Liner | 230 | 11.2 | 2.97 | 17 | 16 | Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent |

A copy of cement test will be available on location at time of cement job providing pump times, compressive strengths, etc.

| Casing String | TOC | % Excess |
|---|---|---|
| Surface | 0' | 100% |
| Intermediate | 0' | 25% |
| Production | 4700' | 25% |
| Liner | 12118' | 25% |

## 4. Pressure Control Equipment

| | |
|---|---|
| | Variance: None |

| BOP installed and tested before drilling which hole? | Size? | System Rated WP | Type | ✓ | Tested to: |
|---|---|---|---|---|---|
| 12-1/4" | 13-5/8" | 10M | Annular | X | 5000# |
| | | | Blind Ram | X | 10000# |
| | | | Pipe Ram | X | |
| | | | Double Ram | | |
| | | | Other* | | |

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

| | |
|---|---|
| X | Formation integrity test will be performed per Onshore Order #2.<br>On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. |
| Y | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. |
| N | Are anchors required by manufacturer? |
| Y | A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.<br>• Provide description here: See attached schematic. |

## 5. Mud Program

| Depth | | Type | Weight (ppg) | Viscosity | Water Loss |
|---|---|---|---|---|---|
| From | To | | | | |
| 0' | 990' | Spud Mud | 8.6-8.8 | 28-34 | N/C |
| 990' | 4900' | Brine | 10.0 | 28-34 | N/C |
| 4900' | 12118' | Cut Brine | 8.6-9.7 | 28-34 | N/C |
| 12118' | 17625' | OBM | 10.0-13.0 | 30-40 | <10cc |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. MW up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation pressure is expected to be 12.0 ppg.

| | |
|---|---|
| What will be used to monitor the loss or gain of fluid? | Pason/PVT/Visual Monitoring |

## 6. Logging and Testing Procedures

| Logging, Coring and Testing. | |
|---|---|
| X | Will run GR/CNL from KOP (12118') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No Logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain |
| | Coring? If yes, explain |

| Additional logs planned | | Interval |
|---|---|---|
| X | Gamma Ray | 12118' (KOP) to TD |
| | Density | |
| | CBL | |
| | Mud log | |
| | PEX | |

## 7. Drilling Conditions

| Condition | Specify what type and where? |
|---|---|
| BH Pressure at deepest TVD | 7863 psi |
| Abnormal Temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

| | |
|---|---|
| Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM. | |
| | H2S is present |
| X | H2S Plan attached |

## 8. Water & Waste Volumes

Fresh Water Required: 3575 bbl

Waste Water: 3575 bbl
Waste Solids: 2575 bbl

## 9. Other facets of operation

Is this a walking operation? If yes, describe.
Will be pre-setting casing? If yes, describe.

Attachments
___ Directional Plan
___ Other, describe

| 13 3/8 | surface csg in a | | 17 1/2 | inch hole. | | Design Factors | | SURFACE | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 48.00 | H 40 | | ST&C | 6.51 | 1.64 | 0.68 | 1,030 | 49,440 |
| **"B"** | | | | | | | | **0** | **0** |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 762 | | | | Tail Cmt | does not | circ to sfc. | Totals: | 1,030 | 49,440 |

Comparison of Proposed to Minimum Required Cement Volumes

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| **17 1/2** | 0.6946 | **730** | 1392 | **770** | 81 | **8.80** | 1467 | **2M** | 1.56 |

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

| 9 5/8 | casing inside the | | 13 3/8 | | | Design Factors | | INTERMEDIATE | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 36.00 | J 55 | | LT&C | 2.49 | 1.13 | 0.55 | 3,453 | 124,308 |
| **"B"** | **40.00** | **J 55** | | **LT&C** | 8.98 | **1.13** | **0.62** | **940** | **37,600** |
| "C" | **40.00** | **N 80** | | **LT&C** | 36.34 | 1.21 | 0.91 | **507** | **20,280** |
| **"D"** | | | | | | | | **0** | **0** |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 4,900 | 182,188 |
| The cement volume(s) are intended to achieve a top of | | | | | 0 | ft from surface or a | | **1030** | overlap. |

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| **12 1/4** | 0.3132 | **1020** | 2006 | **1619** | 24 | **10.00** | 3577 | **5M** | 0.81 |

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.02, 0.9, 1.17, d
All > 0.70, OK.

| 7 | casing inside the | | 9 5/8 | | | Design Factors | | PRODUCTION | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 26.00 | HCP 110 | | LT&C | 2.12 | 1.28 | 1.57 | 12,117 | 315,042 |
| **"B"** | **26.00** | **HCP 110** | | **LT&C** | 5.37 | **1.15** | **1.57** | **583** | **15,158** |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,467 | | | | | | | Totals: | 12,700 | 330,200 |
| B would be: | | | | | 55.18 | 1.23 | if it were a vertical wellbore. | | |

| No Pilot Hole Planned | MTD | Max VTD | Csg VD | Curve KOP | Dogleg° | Severity° | MEOC |
|---|---|---|---|---|---|---|---|
| | 12700 | 12600 | 12600 | 12117 | 90 | 10 | 13003 |

The cement volume(s) are intended to achieve a top of 4700 ft from surface or a **200** overlap.

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| **8 3/4** | 0.1503 | look ↘ | 0 | **1215** | | **9.70** | 5737 | **10M** | 0.55 |
| Setting Depths for D V Tool(s): | | | **6308** | | | | sum of sx | Σ CuFt | Σ%excess |
| % excess cmt by stage: | | 25 | 33 | | | | 940 | 1539 | 27 |

MASP is within 10% of 5000psig, need exrta equip?

Tail cmt

| 4 1/2 | Liner w/top @ | | 12118 | | | Design Factors | | LINER | |
|---|---|---|---|---|---|---|---|---|---|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | Weight |
| "A" | 13.50 | P 110 | | LT&C | 3.14 | 1.18 | 1.46 | 885 | 11,948 |
| **"B"** | **13.50** | **P 110** | | **LT&C** | 2.14 | **1.26** | **1.46** | **4,619** | **62,357** |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 2,772 | | | | | | | Totals: | 5,504 | 74,304 |
| A Segment Design Factors would be: | | | | | 4.55 | 1.26 | if it were a vertical wellbore. | | |

| No Pilot Hole Planned | MTD | Max VTD | Csg VD | Curve KOP | Dogleg° | Severity° | MEOC |
|---|---|---|---|---|---|---|---|
| | 17622 | 12600 | 12600 | 12117 | 90 | 10 | 13003 |

The cement volume(s) are intended to achieve a top of 12118 ft from surface or a **582** overlap.

| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | Min Dist Hole-Cplg |
|---|---|---|---|---|---|---|---|---|---|
| **6 1/8** | 0.0942 | **225** | 668 | **528** | 27 | **13.00** | | | 0.56 |

Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX. MASP is within 10% of 5000psig, need exrta equip?

# PECOS DISTRICT
# CONDITIONS OF APPROVAL

| | |
|---|---|
| OPERATOR'S NAME: | Mewbourne Oil Company |
| LEASE NO.: | NMNM002965A |
| WELL NAME & NO.: | 2H- Salado Draw 10 W0PA Federal |
| SURFACE HOLE FOOTAGE: | 250'/N & 530'/W |
| BOTTOM HOLE FOOTAGE | 330'/N & 330'/W |
| LOCATION: | Section 15, T. 26 S., R. 33 E., NMPM |
| COUNTY: | Lea County, New Mexico |

## A. CASING

**All previous COAs still apply except for the following:**

**Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.**

**Centralizers required on surface casing per Onshore Order 2.III.B.1.f.**

**Wait on cement (WOC) for Water Basin:**
**After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.**

**No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.**

**Medium Cave/Karst**
**Possibility of water flows in the Salado and Castile.**
**Possibility of lost circulation in the Salado and Delaware.**

1. The **13-3/8** inch surface casing shall be set at approximately **1030** feet and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with

surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

**b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**

c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Formation below the 13 3/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.**

2. The minimum required fill of cement behind the **9 5/8** inch intermediate is:

☒ Cement to surface. If cement does not circulate see A.1.a, c-d above. **Excess calculates to 24% - Additional cement might be required.**

**Formation below the 9 5/8 inch shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.**

**If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.**

3. The minimum required fill of cement behind the **7** inch production casing is:

**Operator has proposed DV tool at depth of 6308', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.**

a. First stage to DV tool:

☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

☒ Cement as proposed. Operator shall provide method of verification.

4. The minimum required fill of cement behind the **4 1/2** inch production liner is:

☒ Cement as proposed. Operator shall provide method of verification.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **surface** casing shoe shall be **10,000 (10M)** psi.

**10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

   a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater.

However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

## B. SPECIAL REQUIREMENT(S)

**Well Name**

**Operator shall submit a sundry to add "Com" to the well name.**

**TMAK 05042017**

Based on the review documented above, I conclude that this proposal conforms to the applicable land use plan and that the NEPA documentation fully covers the proposed action and constitutes BLM's compliance with the requirements of the NEPA.

| | |
|---|---|
| Signature of Project Lead | Date |
| Signature of Responsible Official | 05/05/17 |
| | Date |

**Note:** The signed Conclusion on this Worksheet is part of an interim step in the BLM's internal decision process and does not constitute an appealable decision. However, the lease, permit, or other authorization based on this DNA is subject to protest or appeal under 43 CFR Part 4 and the program-specific regulations.

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

## SUNDRY NOTICES AND REPORTS ON WELLS

***Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE - Other instructions on page 2***

5. Lease Serial No.
NMNM02965A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SALADO DRAW 10 W0PA FEDERAL 2H

2. Name of Operator
MEWBOURNE OIL COMPANY
Contact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com

9. API Well No.
30-025-42837

3a. Address
PO BOX 5270
HOBBS, NM 88241

3b. Phone No. (include area code)
Ph: 575-393-5905

10. Field and Pool or Exploratory Area
RED HILLS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 15 T26S R33E Mer NMP NENW 185FNL 500FWL ~~W~~ E

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☒ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Subsequent Report | ☐ Alter Casing | ☐ Hydraulic Fracturing | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Change to Original APD |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mewbourne Oil Company has an approved APD for the above well. Mewbourne would like to make the following changes:

1 - Change name to Salado Draw 10 W1PA Federal #2H ~~F~~
2 - Change surface location to 250' FNL & 530' ~~F~~WL, Sec 15 T26S R33E
3 - Change BHL to 330' FNL & 330' FWL, Sec 10 T26S R33E

Please see attachments for updated C-102 and drilling plans.

Bradley Bishop said to Change Sundry to the correct calls 4-12-17
250 FNL & 530 FEL
Bradley Wilson

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #370484 verified by the BLM Well Information System**
**For MEWBOURNE OIL COMPANY, sent to the Hobbs**

Name *(Printed/Typed)* ANDREW TAYLOR — Title ENGINEER

Signature (Electronic Submission) — Date 03/21/2017

### THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

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.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

NEPA Log No: IT4RM-P020-2017-0568-DNA

Reference Number:

Project Lead: Brooke Wilson

Recd Date: 04-13-2017

Project Type:

Project Title: Salado Draw 10 W0PA Federal 2H

Applicant: Mewbourne Oil Co

Routing Started: 04-13-2017

# NEPA Checklist

| Resource/Activity | Not Present | Not Impacted | **May be Impacted | Reviewer | COAs/Stips Req | Sign Off Date |
|---|---|---|---|---|---|---|
| Wastes, Hazardous or Solid | ○ | ● | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| Public Health and Safety | ○ | ● | ○ | | | |
| Enivronmental Justice | ○ | ● | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| General Topography/Surface Geology | ○ | ○ | ● | | | |
| Socio Economics | ○ | ● | ○ | | | |
| Lands/Realty, ROW | ○ | ○ | ● | Brooke Wilson | ☐ | 04-13-2017 |
| Access/Transportation | ○ | ○ | ● | | | |
| Vegetation/Forestry | ○ | ○ | ● | Michael Ramirez | ✔ | 04-17-2017 |
| Livestock Grazing | ○ | ● | ○ | | | |
| Invasive, Non-Native Species | ○ | ○ | ● | | | |
| Soils | ○ | ○ | ● | Brooke Wilson | ☐ | 04-13-2017 |
| Air Quality | ○ | ○ | ● | | | |
| Floodplains | ● | ○ | ○ | Brooke Wilson | ☐ | 05-05-2017 |
| Water Quality Surface/Ground | ○ | ○ | ● | | | |
| Watershed | ○ | ○ | ● | | | |
| Mineral Materials | ○ | ● | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| Potash | ● | ○ | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| Endangered Species | ● | ○ | ○ | Brooke Wilson | ☐ | 05-05-2017 |
| Wetlands/Riparian Zones | ● | ○ | ○ | | | |
| Special Status Species | ● | ○ | ○ | | | |
| Wildlife Habitat | ○ | ○ | ● | | | |
| Karst Resources | ○ | ○ | ● | Brooke Wilson | ☐ | 04-13-2017 |
| ACECs | ● | ○ | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| Wild/Scenic Rivers | ● | ○ | ○ | Brooke Wilson | ☐ | 04-13-2017 |
| Wilderness | ● | ○ | ○ | | | |
| Outdoor Recreation | ○ | ● | ○ | | | |
| Visual Resources | ○ | ● | ○ | | | |
| Native American Religious Concerns | ● Unknown | | | Bruce Boeke | ☐ | 04-13-2017 |
| Cultural Resources | ○ | ○ | ● | | | |
| Paleontology | ● Unknown | | | | | |

# Worksheet
# Determination of NEPA Adequacy (DNA)
**U.S. Department of the Interior**
**Bureau of Land Management**

| | |
|---|---|
| OFFICE: | Carlsbad Field Office |
| TRACKING NUMBER: | DOI-BLM-NM-P020-2017-0280-DNA |
| CASEFILE/PROJECT NUMBER: | NMNM02965A |
| PROPOSED ACTION TITLE/TYPE: | Salado Draw 10 W0PA Federal 2H |
| LOCATION/LEGAL DESCRIPTION: | Section 15; Township 26 South, Range 33 East |
| APPLICANT (if any): | Mewbourne Oil Company |

## A. Description of the Proposed Action and any applicable mitigation measures

Mewbourne requests to move the well location 65 feet south and 30 feet to the west. The move is required due to a pipeline that was laid through the middle of the location. There will be no other changes to the original surface use plan. The well location is as follows:

**Salado Draw 10 W0PA Federal 2H:**
**Surface Hole Location: 250' FNL & 530' FEL, Section 15, T. 26 S., R. 33 E.**
**Bottom Hole Location: 330' FNL & 330' FEL, Section 10, T. 26 S., R. 33 E.**

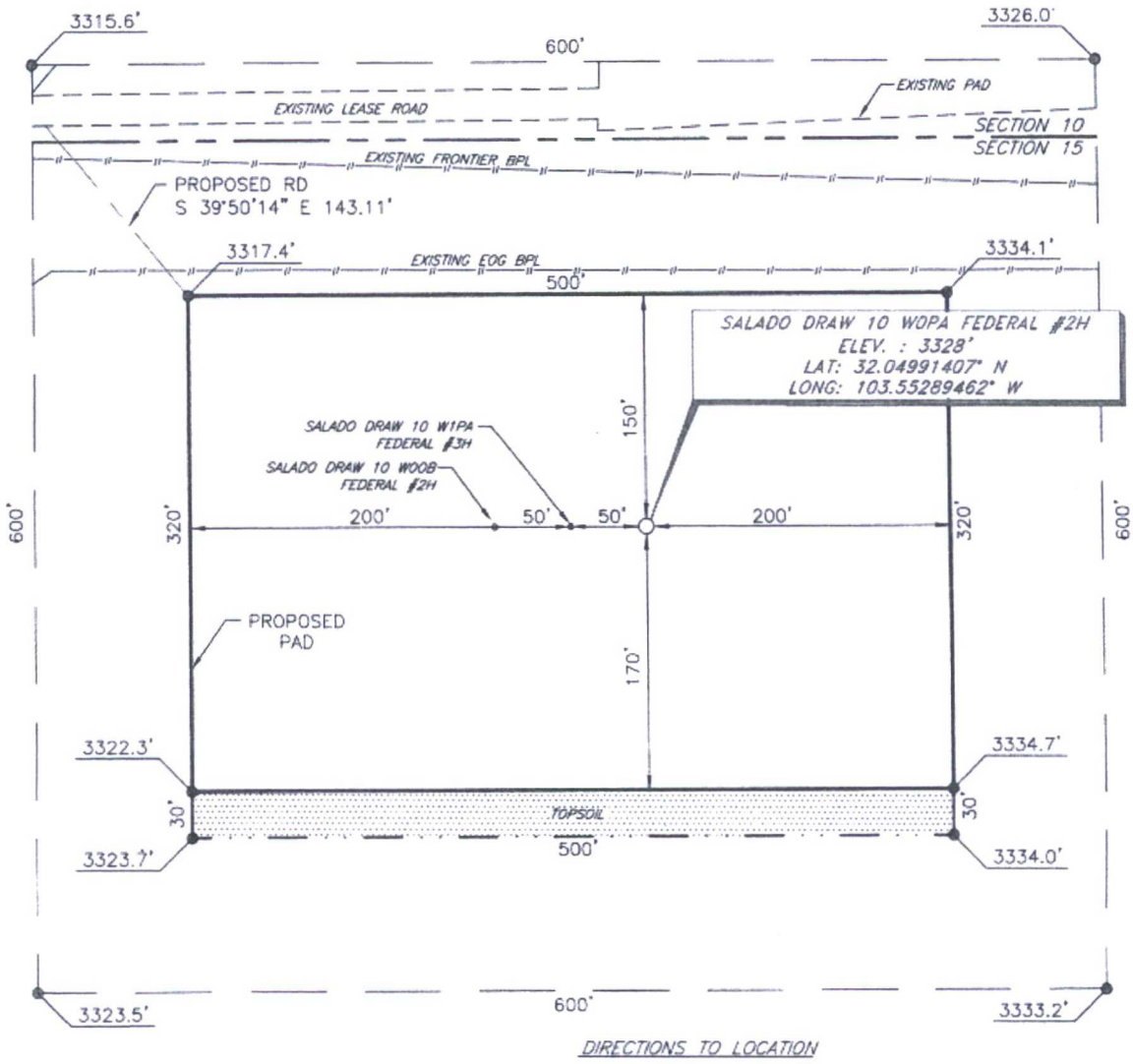


**Figure 1.**

**Mitigation Measures:** The previously approved Pecos District Conditions of Approval with special requirements Well Structures, Facilities, and Pipelines.

## B. Land Use Plan (LUP) Conformance

| LUP Name* | Carlsbad Resource Management Plan (RMP) | Date Approved | September of 1988 |
|---|---|---|---|
| Other document | Carlsbad Approved Resource Management Plan Amendment (RMPA) and Record of Decision | Date Approved | October 1997 |

| | | | |
|---|---|---|---|
| Other document | Special Status Species Record of Decision and Approved Resource Management Plan Amendment | Date Approved | April 2008 |

** List applicable LUPs (for example, resource management plans; activity, project, management, or program plans; or applicable amendments thereto)*

The proposed action is in conformance with the applicable LUP because it is specifically provided for in the following LUP decisions:

> October 1997 Carlsbad Approved Resource Management Plan Amendment and Record of Decision, p. 4 which states:
>
> Provide for the leasing, exploration and development of oil and gas resources within the Carlsbad Resource Area. Approximately 3,907,700 acres (95% of the oil and gas mineral estate) will be open to leasing and development under the BLM's standard terms and conditions, the Surface Use and Occupancy Requirements, the Roswell District Conditions of Approval, and the Practices for Oil and Gas Drilling and Operations in Cave and Karst Areas.

The proposed action is in conformance with the LUP, even though it is not specifically provided for, because it is clearly consistent with the following LUP decisions (objectives, terms, and conditions):

> Not Applicable

**C. Identify applicable National Environmental Policy Act (NEPA) documents and other related documents that cover the proposed action.**

List by name and date all applicable NEPA documents that cover the proposed action.

> **Environmental Assessment:** DOI-BLM-NM-P020-2012-1257-EA; Approved 01/12/2015.

List by name and date other documentation relevant to the proposed action (e.g., biological assessment, biological opinion, watershed assessment, allotment evaluation, and monitoring report).

> **Cultural Resources:**
> Report(s) – 13-5169
> May be Impacted/No Stipulations
>
> Additional project documentation can be reviewed in the case files, available at the Carlsbad Field Office (CFO), for the above well locations.

**D. NEPA Adequacy Criteria**

**1. Is the new proposed action a feature of, or essentially similar to, an alternative analyzed in the existing NEPA document(s)? Is the project within the same analysis area, or if the project location is different, are the geographic and resource conditions sufficiently similar to those analyzed in the existing NEPA document(s)? If there are differences, can you explain why they are not substantial?**

Documentation of answer and explanation: The proposed action has similar impacts as the originally approved action that was analyzed in the existing NEPA document, and the proposed action is within the same analysis area.

**2. Is the range of alternatives analyzed in the existing NEPA document(s) appropriate with respect to the new proposed action, given current environmental concerns, interests, and resource values?**

Documentation of answer and explanation: The range of alternative analyzed in the existing NEPA documents is the same as the new proposed action. The current environmental concerns, interests, and resource values are still the same.

**3. Is the existing analysis valid in light of any new information or circumstances (such as, rangeland health standard assessment, recent endangered species listings, updated lists of BLM-sensitive species)? Can you reasonably conclude that new information and new circumstances would not substantially change the analysis of the new proposed action?**

Documentation of answer and explanation: On December 11, 2012 the U.S. Fish and Wildlife Service (USFWS) proposed to list the lesser prairie-chicken (*Tympanuchus pallidicinctus)* as a threatened species under the ESA of 1973, as amended. On March 27, 2014, the USFWS, in response to the rapid and severe decline of the lesser prairie-chicken, announced the final listing of the species as threatened under the ESA, as well as a final special rule under section 4(d) of the ESA that will limit regulatory impacts on landowners and business from the listing. Currently, the USFWS has not determined or designated critical habitat regarding the lesser prairie-chicken. The final rule to list the lesser prairie-chicken as threatened was published in the *Federal Register* on April 10, 2014, and will be effective on May 12, 2014.

The proponent of the proposed action is a Participating Cooperator in the Candidate Conservation Agreement (CCA) for the lesser prairie-chicken and dunes sagebrush lizard (*Sceloporus arenicolus*). The goal of the Bureau of Land Management (BLM), USFWS, Center of Excellence for Hazardous Materials Management (CEHMM) and the Participating Cooperator is to reduce and/or eliminate threats to the LPC and/ or SDL. By agreeing to conduct the conservation measures described by the CCA, the Participating Cooperator contributes funding or provides in-kind services for conservation.

The Certificate of Participation (CP) associate with the CCA is voluntary between CEHMM, BLM, USFWS and the Participating Cooperator. Through the CP, the Participating Cooperator voluntarily commits to implement or fund specific conservation actions that will reduce and/or eliminate threats to the SDL and /or the LPC. Funds contributed as part of the CP will be used to implement conservation measures and associated activities. The funds will be directed to the highest priority projects to restore or reclaim habitat at the sole discretion of BLM and USFWS.

The existing analysis took into account the potential impacts to LPC habitat within the Isolated Population Area (IPA) and would not change substantially with the new proposed action. Therefore the existing analysis is still valid in light of this new information or circumstance. No new mitigation measures would be necessary for the proposed action.

**4. Are the direct, indirect, and cumulative effects that would result from implementation of the new proposed action similar (both quantitatively and qualitatively) to those analyzed in the existing NEPA document?**

Documentation of answer and explanation: The direct, indirect and cumulative effects that would result from implementation or the new proposed action; both quantitatively and qualitatively to those analyzed in the existing NEPA documents would remain the same.

**5. Are the public involvement and interagency review associated with existing NEPA document(s) adequate for the current proposed action?**

Documentation of answer and explanation: The public involvement and interagency review associated with the existing NEPA documents still remains adequate for the current proposed action.

**E. Persons/Agencies /BLM Staff Consulted**

| Name | Title | Resource/ Agency Represented |
|---|---|---|
| Bruce Boeke | Archaeologist | BLM |

Note: Refer to the EA/EIS for a complete list of the team members participating in the preparation of the original environmental analysis or planning documents.

**Conclusion** (*If you found that one or more of these criteria is not met, you will not be able to check this box.)*