

U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

|   |   |   |
|---|---|---|
| <b>Well Name:</b> SCARECROW 11/10 B3AD<br>FED COM | <b>Well Location:</b> T19S / R30E / SEC 12 /<br>NWNW /          | <b>County or Parish/State:</b>            |
| <b>Well Number:</b> 1H                            | <b>Type of Well:</b> OIL WELL                                   | <b>Allottee or Tribe Name:</b>            |
| <b>Lease Number:</b> NMNM0129043                  | <b>Unit or CA Name:</b>   | <b>Unit or CA Number:</b>                 |
| <b>US Well Number:</b>                            | <b>Well Status:</b> Approved Application for<br>Permit to Drill | <b>Operator:</b> MEWBOURNE OIL<br>COMPANY |

### Notice of Intent

**Sundry ID:** 2705552

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 12/01/2022

**Time Sundry Submitted:** 03:08

**Date proposed operation will begin:** 12/15/2022

**Procedure Description:** Mewbourne Oil Company requests that the following changes be made to Scarecrow 11/10 B3AD Fed Com #1H well: 1. Change csg design from a 4 string to 3 string based on the most recent 4 string boundary maps. 2. Surface csg: 13 1/2" 48# H40 set @ 540'. 3. Intermediate csg: 9 5/8" 40# J-55 set @ 4240'. 4. Production csg: 7" 26# P-110 set @ 9100'. 5. Change csg, cmt, & mud program according to new csg design.

### NOI Attachments

#### Procedure Description

Scarecrow\_11\_10\_B3AD\_Fed\_Com\_1H\_Csg\_Sundry\_20221201150733.pdf

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FED COM

**Well Location:** T19S / R30E / SEC 12 /  
NWNW /

**County or Parish/State:**

**Well Number:** 1H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

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**Unit or CA Name:**

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Permit to Drill

**Operator:** MEWBOURNE OIL  
COMPANY

## Conditions of Approval

### Specialist Review

SCARECROW\_11\_10\_B3AD\_FED\_COM\_1H\_Drilling\_Sundry\_2705552\_COA\_OTA\_20221206130145.pdf

## Operator

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** RYAN MCDANIEL

**Signed on:** DEC 01, 2022 03:07 PM

**Name:** MEWBOURNE OIL COMPANY

**Title:** Engineer

**Street Address:** 4801 BUSINESS PARK BLVD

**City:** HOBBS

**State:** NM

**Phone:** (575) 393-5905

**Email address:** RYANMCDANIEL@MEWBOURNE.COM

## Field

**Representative Name:** RYAN MCDANIEL

**Street Address:** 4801 Business Park Blvd, Hobbs, NM

**City:** Hobbs

**State:** NM

**Zip:** 88240

**Phone:** (575)393-5905

**Email address:** ryanmcdaniel@mewbourne.com

## BLM Point of Contact

**BLM POC Name:** AJIBOLA OLABODE

**BLM POC Title:** Engineer

**BLM POC Phone:** 5752342231

**BLM POC Email Address:** OAJIBOLAEIT@BLM.GOV

**Disposition:** Approved

**Disposition Date:** 12/06/2022

**Mewbourne Oil Company, Scarecrow 11/10 B3AD Fed Com #1H**  
**Sec 12, T19S, R30E**  
**SL: 510' FSL & 80' FWL (12)**  
**BHL: 660' FNL & 100' FWL (10)**

**Sundry Request:**

Mewbourne Oil Company requests that the following changes be made to Scarecrow 11/10 B3AD Fed Com #1H well:

1. Change csg design from a 4 string to 3 string based on the most recent 4 string boundary maps.
2. Surface csg: 13 1/2" 48# H40 set @ 540' .
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4. Production csg: 7" 26# P-110 set @ 9100'.
5. Change csg, cmt, & mud program according to new csg design.

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**Casing Program**

| Hole Size                 | Casing Interval |        | Csg. Size | Weight (lbs) | Grade | Conn. | SF Collapse | SF Burst | SF Jt Tension      | SF Body Tension    |
|---------------------------|-----------------|--------|-----------|--------------|-------|-------|-------------|----------|--------------------|--------------------|
|                           | From            | To     |           |              |       |       |             |          |                    |                    |
| 17.5"                     | 0'              | 540'   | 13.375"   | 48           | H40   | STC   | 3.12        | 7.00     | 12.42              | 20.87              |
| 12.25"                    | 0'              | 3453'  | 9.625"    | 36           | J55   | LTC   | 1.13        | 1.96     | 2.91               | 3.62               |
| 12.25"                    | 3453'           | 4240'  | 9.625"    | 40           | J55   | LTC   | 1.17        | 1.79     | 16.52              | 20.01              |
| 8.75"                     | 0'              | 9100'  | 7"        | 26           | P110  | LTC   | 1.36        | 2.17     | 2.70               | 3.51               |
| 6.125"                    | 8900'           | 20348' | 4.5"      | 13.5         | P110  | LTC   | 1.77        | 2.06     | 2.19               | 2.73               |
| 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?  | N      |
| Is well within the designated 4 string boundary.   | N      |
| Is well located in SOPA but not in R-111-P?  | Y      |
| If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?                       | Y      |
| Is well located in R-111-P and SOPA?   | N      |
| If yes, are the first three strings cemented to surface?   |        |
| Is 2 <sup>nd</sup> 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?   |        |

**Mewbourne Oil Company, Scarecrow 11/10 B3AD Fed Com #1H**  
**Sec 12, T19S, R30E**  
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### Cementing Program

| Casing              | # Sks | Wt.<br>lb/<br>gal | Yld<br>ft3/<br>sack | Cu.<br>Ft | %<br>Excess | Slurry Description  |
|---------------------|-------|-------------------|---------------------|-----------|-------------|---|
| Surf.               | 230   | 12.5              | 2.12                | 488       | 100         | Lead: Class C + Salt + Gel + Extender + LCM   |
|                     | 200   | 14.8              | 1.34                | 268       | 100         | Tail: Class C + Retarder  |
| Inter.<br>Stg 1     | 270   | 12.5              | 2.12                | 488       | 25          | Lead: Class C + Salt + Gel + Extender + LCM   |
|                     | 200   | 14.8              | 1.34                | 268       | 25          | Tail: Class C + Retarder  |
| ECP/DV Tool @ 2100' |       |                   |                     |           |             |   |
| Inter.<br>Stg 2     | 330   | 12.5              | 2.12                | 680       | 25          | Lead: Class C + Salt + Gel + Extender + LCM   |
|                     | 100   | 14.8              | 1.34                | 134       | 25          | Tail: Class C + Retarder  |
| Prod.<br>Stg 1      | 70    | 12.5              | 2.12                | 148       | 30          | Lead: Class C + Salt + Gel + Extender + LCM   |
|                     | 400   | 15.6              | 1.18                | 472       | 30          | Tail: Class H + Retarder + Fluid Loss + Defoamer  |
| ECP/DV Tool @ 6000' |       |                   |                     |           |             |   |
| Prod.<br>Stg 2      | 140   | 12.5              | 2.12                | 280       | 25          | Lead: Class C + Salt + Gel + Extender + LCM   |
|                     | 100   | 14.8              | 1.34                | 134       | 25          | Tail: Class H + Retarder + Fluid Loss + Defoamer  |
| Liner               | 730   | 13.5              | 1.85                | 1351      | 25          | Class H + Salt + Gel + Fluid Loss + Retarder +<br>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.

| Casing String | TOC   | % Excess |
|---------------|-------|----------|
| Surface       | 0'    | 100%     |
| Intermediate  | 0'    | 25%      |
| Production    | 3740' | 30%      |
| Liner         | 8900' | 25%      |

### Mud Program

| TVD   |        | Type            | Weight (ppg) | Viscosity | Water Loss |
|-------|--------|-----------------|--------------|-----------|------------|
| From  | To     |                 |              |           |            |
| 0'    | 540'   | Spud Mud        | 8.6-8.8      | 28-34     | N/C        |
| 540'  | 4240'  | Saturated Brine | 10.0         | 28-34     | N/C        |
| 4240' | 9100'  | Water Based Mud | 8.6-9.5      | 28-34     | N/C        |
| 9100' | 20348' | OBM             | 10.0-12.0    | 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.

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

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

|                              |  |
|------------------------------|--|
| <b>OPERATOR'S NAME:</b>      | <b>MEWBOURNE OIL COMPANY</b>           |
| <b>LEASE NO.:</b>            | <b>NMNM0129043</b>                     |
| <b>WELL NAME &amp; NO.:</b>  | <b>SCARECROW 11-10 B3AD FED COM 1H</b> |
| <b>SURFACE HOLE FOOTAGE:</b> | <b>510'/N &amp; 80'/W</b>              |
| <b>BOTTOM HOLE FOOTAGE:</b>  | <b>660'/N &amp; 100'/W</b>             |
| <b>LOCATION:</b>             | <b>SECTION 12, T19S, R30E, NMP</b>     |
| <b>COUNTY:</b>               | <b>Eddy County, New Mexico</b>         |

COA

|                      |   |  |                                       |
|----------------------|---|--|---------------------------------------|
| H2S                  | <input type="radio"/> Yes               | <input checked="" type="radio"/> No        |                                       |
| Potash               | <input type="radio"/> None              | <input checked="" type="radio"/> Secretary | <input type="radio"/> R-111-P         |
| Cave/Karst Potential | <input type="radio"/> Low               | <input type="radio"/> Medium               | <input checked="" type="radio"/> High |
| Cave/Karst Potential | <input type="radio"/> Critical          |  |                                       |
| Variance             | <input type="radio"/> None              | <input checked="" type="radio"/> Flex Hose | <input type="radio"/> Other           |
| Wellhead             | <input type="radio"/> Conventional      | <input checked="" type="radio"/> Multibowl | <input type="radio"/> Both            |
| Other                | <input type="checkbox"/> 4 String Area  | <input type="checkbox"/> Capitan Reef      | <input type="checkbox"/> WIPP         |
| Other                | <input type="checkbox"/> Fluid Filled   | <input type="checkbox"/> Cement Squeeze    | <input type="checkbox"/> Pilot Hole   |
| Special Requirements | <input type="checkbox"/> Water Disposal | <input checked="" type="checkbox"/> COM    | <input type="checkbox"/> Unit         |

**All Previous COAs Still Apply.**

### A. CASING

#### Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **540** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - 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 will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - 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.

2. The 9-5/8 inch first intermediate casing shall be set at approximately 4,240 feet. The minimum required fill of cement behind the 9-5/8 inch first intermediate casing is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**  
**Excess cement calculates to -38%, additional cement might be required.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**  
**Excess cement calculates to 20%, additional cement might be required.**
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

**Option 1 (Single Stage):**

- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**  
**Excess cement calculates to -24%, additional cement might be required.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - d. Second stage above DV tool:
    - Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
4. The minimum required fill of cement behind the 4-1/2 inch production liner is:

Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

**B. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.



- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### C. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

**OTA12062022**

**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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS  
  
Action 164530

CONDITIONS

|   |  |
|---|--|
| Operator:<br>MEWBOURNE OIL CO<br>P.O. Box 5270<br>Hobbs, NM 88241 | OGRID:<br>14744                                      |
|   | Action Number:<br>164530                             |
|   | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |   |                |
|------------|---|----------------|
| Created By | Condition                                       | Condition Date |
| kpickford  | Adhere to previous NMOCD Conditions of Approval | 12/8/2022      |