

Well Name: FNR FEDERAL UNIT	Well Location: T23S / R30E / SEC 17 / NWSE / 32.3048014 / -103.8999331	County or Parish/State: EDDY / NM
Well Number: 7H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114355	Unit or CA Name: FNR UNIT	Unit or CA Number: NMNM135781X
US Well Number: 3001548224	Well Status: Drilling Well	Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 05/06/2021	Time Sundry Submitted: 02:37
Date proposed operation will begin: 05/06/2021	

**Procedure Description:** Mewbourne Oil Co is seeking to change the intermediate casing string grades as mentioned in the attached documents. The intermediate casing string will be a tapered string of 9 5/8" 36# J55 LTC and 9 5/8" 40# J55 LTC.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- FNR\_Federal\_Unit\_7H\_\_Csg\_Assumptions\_20210506143320.doc
- FNR\_Federal\_Unit\_7H\_\_9.625\_TAPERED\_STRING\_DIAGRAM\_20210506143320.xlsx

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Conditions of Approval

Specialist Review

FNR\_FEDERAL\_UNIT\_7H\_Sundry\_2160377\_Drilling\_COA\_OTA\_20210528163834.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> BRADLEY BISHOP	<b>Signed on:</b> MAY 06, 2021 02:33 PM
<b>Name:</b> MEWBOURNE OIL COMPANY	
<b>Title:</b> Regulatory	
<b>Street Address:</b> PO Box 5270	
<b>City:</b> Hobbs	<b>State:</b> NM
<b>Phone:</b> (575) 393-5905	
<b>Email address:</b> bbishop@mewbourne.com	

Field Representative

<b>Representative Name:</b> Landon Stallings		
<b>Street Address:</b> PO Box 5270		
<b>City:</b> Hobbs	<b>State:</b> NM	<b>Zip:</b> 88260
<b>Phone:</b> (575)393-5905		
<b>Email address:</b> lstallings@mewbourne.com		

BLM Point of Contact

<b>BLM POC Name:</b> AJIBOLA OLABODE	<b>BLM POC Title:</b> Engineer
<b>BLM POC Phone:</b> 5752342231	<b>BLM POC Email Address:</b> OAJIBOLAEIT@BLM.GOV
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 05/28/2021
<b>Signature:</b> Olabode Thomas Ajibola	

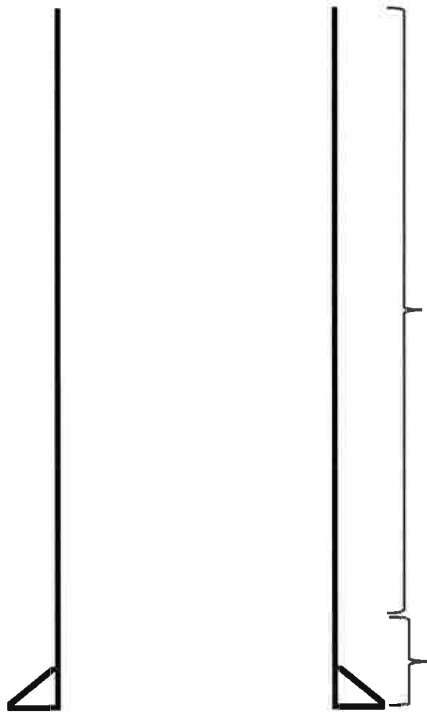
**Mewbourne Oil Company**  
**FNR Federal Unit #7H**  
**Sec 17, T23S, R30E**  
**SL: 2544' FSL & 1570' FEL (17)**  
**BHL: 100' FNL & 400' FEL (5)**

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'	300'	13.375"	48	H40	STC	4.94	11.09	22.36	37.57
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	3.58	4.46
12.25"	3453'	3510'	9.625"	40	J55	LTC	1.41	2.16	228.04	276.27
8.75"	0'	9897'	7"	26	HCP110	LTC	1.62	2.07	2.69	3.31
6.125"	9147'	22879'	4.5"	13.5	P110	LTC	2.15	2.50	1.90	2.37
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 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?	

## TAPERED STRING DIAGRAM



9.625" 36# J55 LTC (0 - 3453')

9.625" 40# J55 LTC (3453 - 3510')

	COLLAPSE	BURST	JOINT YIELD	BODY YIELD
36#	1.130	1.960	3.580	4.460
40#	1.410	2.160	228.040	276.270

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>MEWBOURNE OIL COMPANY</b>
<b>LEASE NO.:</b>	<b>NMNM114355</b>
<b>WELL NAME &amp; NO.:</b>	<b>FNR FEDERAL UNIT 7H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>2544'/S &amp; 1570'/E</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>100'/N &amp; 400'/E</b>
<b>LOCATION:</b>	<b>Section 17, T.23 S., R.30 E., 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 type="radio"/> Secretary	<input checked="" 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 type="checkbox"/> COM	<input checked="" 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 **400 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 **24 hours in the Potash Area** 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 minimum required fill of cement behind the 9 5/8 X 9 5/8 inch intermediate casing which shall be set at approximately 3510 feet is:
    - 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.**
    - ❖ 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.
    - ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection 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 to surface. If cement does not circulate, contact the appropriate BLM office.
- **Excess cement calculates to -35%, 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.
  - **Excess cement calculates to -58% additional cement might be required.**

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)**

### **Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

### **Commercial Well Determination**

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

**OTA05282021**



**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 34099

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 34099
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	6/30/2021