

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>NMNM112931</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. <b>NMNM 137594</b>
2. Name of Operator <b>MEWBOURNE OIL COMPANY</b>		8. Lease Name and Well No. <b>BIG SINKS 1 W1AP FED COM</b>
3a. Address <b>PO Box 5270, Hobbs, NM 88240</b>	3b. Phone No. (include area code) <b>(575) 393-5905</b>	9. API Well No. <b>30 015 46974</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NWNE / 205 FNL / 1600 FEL / LAT 32.0789695 / LONG -103.7282294</b> At proposed prod. zone <b>SESE / 330 FSL / 1000 FEL / LAT 32.0657754 / LONG -103.7262927</b>		10. Field and Pool, or Exploratory <b>JENNINGS; BONE SPRING, WEST/PURI</b>
11. Sec., T, R, M, or Blk. and Survey or Area <b>SEC 1/T26S/R31E/NMP</b>		12. County or Parish <b>EDDY</b>
13. State <b>NM</b>		14. Distance in miles and direction from nearest town or post office* <b>30 miles</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>185 feet</b>	16. No of acres in lease <b>40</b>	17. Spacing Unit dedicated to this well <b>320.0</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>50 feet</b>	19. Proposed Depth <b>11812 feet / 16582 feet</b>	20. BLM/BIA Bond No. in file <b>FED: NM1693</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>3301 feet</b>	22. Approximate date work will start* <b>10/31/2019</b>	23. Estimated duration <b>60 days</b>
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

25. Signature (Electronic Submission)	Name (Printed/Typed) <b>Bradley Bishop / Ph: (575) 393-5905</b>	Date <b>09/04/2019</b>
Title <b>Regulatory</b>		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) <b>Cody Layton / Ph: (575) 234-5959</b>	Date <b>03/30/2020</b>
Title <b>Assistant Field Manager Lands &amp; Minerals</b>		
Office <b>Carlsbad Field Office</b>		

Application approval 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.  
Conditions of approval, if any, are attached.

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.

Entered 04/06/2020 - Kurt Simmons NMOCD

(Continued on page 2)

\*(Instructions on page 2)

**APPROVED WITH CONDITIONS**  
Approval Date: 03/30/2020

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30 015 46974</b>		<sup>2</sup> Pool Code <b>98220</b>		<sup>3</sup> Pool Name <b>PURPLE SAGE WOLFCAMP GAS</b>	
<sup>4</sup> Property Code <b>328095</b>		<sup>5</sup> Property Name <b>BIG SINKS 1 W1AP FED COM</b>			<sup>6</sup> Well Number <b>3H</b>
<sup>7</sup> OGRID NO. <b>14744</b>		<sup>8</sup> Operator Name <b>MEWBOURNE OIL COMPANY</b>			<sup>9</sup> Elevation <b>3274'</b>

<sup>10</sup> Surface Location

UL or lot no. <b>B</b>	Section <b>1</b>	Township <b>26S</b>	Range <b>31E</b>	Lot Idn	Feet from the <b>205</b>	North/South line <b>NORTH</b>	Feet From the <b>1600</b>	East/West line <b>EAST</b>	County <b>EDDY</b>
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. <b>P</b>	Section <b>1</b>	Township <b>26S</b>	Range <b>31E</b>	Lot Idn	Feet from the <b>330</b>	North/South line <b>SOUTH</b>	Feet from the <b>1000</b>	East/West line <b>EAST</b>	County <b>EDDY</b>
<sup>12</sup> Dedicated Acres <b>320</b>		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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

<p>③ N 89°29'24" E 2661.00'</p> <p>④ N 89°33'08" E 2662.71'</p> <p>⑤</p>		<p>⑥</p> <p>⑦</p> <p>⑧</p>	
<p>①</p> <p>②</p> <p>③</p> <p>④</p> <p>⑤</p> <p>⑥</p> <p>⑦</p> <p>⑧</p> <p>⑨</p> <p>⑩</p> <p>⑪</p> <p>⑫</p> <p>⑬</p> <p>⑭</p> <p>⑮</p> <p>⑯</p> <p>⑰</p> <p>⑱</p> <p>⑲</p> <p>⑳</p> <p>㉑</p> <p>㉒</p> <p>㉓</p> <p>㉔</p> <p>㉕</p> <p>㉖</p> <p>㉗</p> <p>㉘</p> <p>㉙</p> <p>㉚</p> <p>㉛</p> <p>㉜</p> <p>㉝</p> <p>㉞</p> <p>㉟</p> <p>㊱</p> <p>㊲</p> <p>㊳</p> <p>㊴</p> <p>㊵</p> <p>㊶</p> <p>㊷</p> <p>㊸</p> <p>㊹</p> <p>㊺</p> <p>㊻</p> <p>㊼</p> <p>㊽</p> <p>㊾</p> <p>㊿</p>		<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature <u>Bradley C Bishop</u> Date <u>8-29-19</u></p> <p>Printed Name <u>BRADLEY BISHOP</u></p> <p>E-mail Address <u>BBISHOP@MEWBOURNE.COM</u></p>	
<p>16</p> <p>GEODETIC DATA</p> <p>NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION</p> <p>N: 392991.9 - E: 728753.1</p> <p>LAT: 32.0789695° N</p> <p>LONG: 103.7282294° W</p> <p>GEODETIC DATA</p> <p>NAD 83 GRID - NM EAST</p> <p>BOTTOM HOLE</p> <p>N: 388195.5 - E: 729380.0</p> <p>LAT: 32.0657754° N</p> <p>LONG: 103.7262927° W</p> <p>CORNER DATA</p> <p>NAD 83 GRID - NM EAST</p> <p>A: CALCULATED CORNER</p> <p>N: 387833.0 - E: 725047.4</p> <p>B: FOUND BRASS CAP "1940"</p> <p>N: 390498.5 - E: 725037.4</p> <p>C: FOUND BRASS CAP "1916"</p> <p>N: 393164.8 - E: 725028.3</p> <p>D: FOUND BRASS CAP "1916"</p> <p>N: 393188.5 - E: 727688.6</p> <p>E: FOUND BRASS CAP "1939"</p> <p>N: 393209.3 - E: 730350.7</p> <p>F: FOUND BRASS CAP "1939"</p> <p>N: 390542.7 - E: 730375.8</p> <p>G: FOUND BRASS CAP "1939"</p> <p>N: 387873.1 - E: 730380.3</p>		<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>4-11-19</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>19680</p> <p>Certificate Number</p>	
<p>①</p> <p>②</p> <p>③</p> <p>④</p> <p>⑤</p> <p>⑥</p> <p>⑦</p> <p>⑧</p> <p>⑨</p> <p>⑩</p> <p>⑪</p> <p>⑫</p> <p>⑬</p> <p>⑭</p> <p>⑮</p> <p>⑯</p> <p>⑰</p> <p>⑱</p> <p>⑲</p> <p>⑳</p> <p>㉑</p> <p>㉒</p> <p>㉓</p> <p>㉔</p> <p>㉕</p> <p>㉖</p> <p>㉗</p> <p>㉘</p> <p>㉙</p> <p>㉚</p> <p>㉛</p> <p>㉜</p> <p>㉝</p> <p>㉞</p> <p>㉟</p> <p>㊱</p> <p>㊲</p> <p>㊳</p> <p>㊴</p> <p>㊵</p> <p>㊶</p> <p>㊷</p> <p>㊸</p> <p>㊹</p> <p>㊺</p> <p>㊻</p> <p>㊼</p> <p>㊽</p> <p>㊾</p> <p>㊿</p>		<p>①</p> <p>②</p> <p>③</p> <p>④</p> <p>⑤</p> <p>⑥</p> <p>⑦</p> <p>⑧</p> <p>⑨</p> <p>⑩</p> <p>⑪</p> <p>⑫</p> <p>⑬</p> <p>⑭</p> <p>⑮</p> <p>⑯</p> <p>⑰</p> <p>⑱</p> <p>⑲</p> <p>⑳</p> <p>㉑</p> <p>㉒</p> <p>㉓</p> <p>㉔</p> <p>㉕</p> <p>㉖</p> <p>㉗</p> <p>㉘</p> <p>㉙</p> <p>㉚</p> <p>㉛</p> <p>㉜</p> <p>㉝</p> <p>㉞</p> <p>㉟</p> <p>㊱</p> <p>㊲</p> <p>㊳</p> <p>㊴</p> <p>㊵</p> <p>㊶</p> <p>㊷</p> <p>㊸</p> <p>㊹</p> <p>㊺</p> <p>㊻</p> <p>㊼</p> <p>㊽</p> <p>㊾</p> <p>㊿</p>	

Job No.: LS19030380

Intent ☒ As Drilled ☐

API #

Operator Name: MEWBOURNE OIL COMPANY	Property Name: BIG SINKS 1 W1AP FED COM	Well Number 3H
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Kick Off Point (KOP)

UL A	Section 1	Township 26S	Range 31E	Lot	Feet 10	From N/S N	Feet 1000	From E/W E	County EDDY
Latitude 32.0795073					Longitude -103.7262960				NAD 83

First Take Point (FTP)

UL A	Section 1	Township 26S	Range 31E	Lot	Feet 330	From N/S N	Feet 1000	From E/W E	County EDDY
Latitude 32.0786277					Longitude -103.7262958				NAD 83

Last Take Point (LTP)

UL P	Section 1	Township 26S	Range 31E	Lot	Feet 330	From N/S S	Feet 1000	From E/W E	County EDDY
Latitude 32.0657754					Longitude -103.7262927				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ N

Is this well an infill well? ☐ Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #  
30-015-43800

Operator Name: MEWBOURNE OIL COMPANY	Property Name: BIG SINKS 1 W1PA FED COM	Well Number 2H
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KZ 06/29/2018

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

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

Submit Original  
to Appropriate  
District Office

## GAS CAPTURE PLAN

Date: 8-29-19

☒ Original

Operator & OGRID No.: Mewbourne Oil Company - 14744

☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Big Sinks 1 W1AP Fed Com #3H	A - 1 -T26S-R31E	205 FNL & 1600 FEL		0	NA	ONLINE AFTER FRAC

### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Western and will be connected to Western low/high pressure gathering system located in EDDY County, New Mexico. It will require 400 ' of pipeline to connect the facility to low/high pressure gathering system. Mewbourne Oil Company provides (periodically) to Western a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Mewbourne Oil Company and Western have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Western Processing Plant located in Sec. 36, Blk. 58 T1S, Culberson County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Western system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

# PECOS DISTRICT

## DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Mewbourne Oil Company</b>
<b>LEASE NO.:</b>	<b>NMNM112931</b>
<b>WELL NAME &amp; NO.:</b>	<b>BIG SINKS 1 W1AP FED COM #3H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>205'/N &amp; 1600'/E</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>330'/S &amp; 1000'/E</b>
<b>LOCATION:</b>	<b>Section 1, T.26 S., R.31 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 checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input 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 checked="" 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

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

#### Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1225 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 intermediate casing shall be set at approximately **4250** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing 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.**  
**Excess cement calculates to 17%, additional cement might be required.**
- ❖ In Medium 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.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

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

**Option 1 (Single Stage):**

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.  
**Excess cement calculates to 1%, 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.

- b. 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.
- c. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.  
**Excess cement calculates to 24%, 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.

### **C. 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.

#### **Option 1:**

- a. 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. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

#### **Option 2:**

1. 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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

#### **D. 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.

## **GENERAL REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612



1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

1. 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.
2. Wait on cement (WOC) for Potash Areas: 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 for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. 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. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. 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.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

#### 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. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.

3. 5M or higher 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. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. 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.
5. 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. 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).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**OTA03242020**

**Mewbourne Oil Company, Big Sinks 1 W1AP Fed Com #3H**  
**Sec 1, T26S, R31E**  
**SL: 205' FNL & 1600' FEL**  
**BHL: 330' FSL & 1000' FEL**

## 2. 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'	1225'	13.375"	48	H40	STC	1.37	3.09	5.48	9.20
12.25"	0'	4250'	9.625"	40	L80	LTC	1.40	2.60	4.28	5.39
8.75"	0'	12000'	7"	26	HCP110	LTC	1.34	1.71	2.22	2.66
6.125"	11259'	16582'	4.5"	13.5	P110	LTC	1.45	1.68	4.70	5.87
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?	
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 3 <sup>rd</sup> 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 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(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, Big Sinks 1 W1AP Fed Com #3H**  
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If yes, are there three strings cemented to surface?	



Hydrogen Sulfide Drilling Operations Plan  
**Mewbourne Oil Company**

**1. General Requirements**

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H<sub>2</sub>S were found. MOC will have on location and working all H<sub>2</sub>S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

**2. Hydrogen Sulfide Training**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

1. The hazards and characteristics of hydrogen sulfide gas.
2. The proper use of personal protective equipment and life support systems.
3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- 1 The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a known hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

**3. Hydrogen Sulfide Safety Equipment and Systems**

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

1. Well Control Equipment
  - A. Choke manifold with minimum of one adjustable choke/remote choke.
  - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
  - C. Auxiliary equipment including annular type blowout preventer.
2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H<sub>2</sub>S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H<sub>2</sub>S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

3. Hydrogen Sulfide Protection and Monitoring Equipment  
Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.
4. Visual Warning Systems
  - A. Wind direction indicators as indicated on the wellsite diagram.
  - B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

#### **4. Mud Program**

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

#### **5. Metallurgy**

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

#### **6. Communications**

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

#### **7. Well Testing**

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

#### **8. Emergency Phone Numbers**

<b>Eddy County Sheriff's Office</b>	<b>911 or 575-887-7551</b>
<b>Ambulance Service</b>	<b>911 or 575-885-2111</b>
<b>Carlsbad Fire Dept</b>	<b>911 or 575-885-2111</b>
<b>Loco Hills Volunteer Fire Dept.</b>	<b>911 or 575-677-3266</b>
<b>Closest Medical Facility - Columbia Medical Center of Carlsbad</b>	<b>575-492-5000</b>

<b>Mewbourne Oil Company</b>	<b>Hobbs District Office</b>	<b>575-393-5905</b>
	<b>Fax</b>	<b>575-397-6252</b>
	<b>2<sup>nd</sup> Fax</b>	<b>575-393-7259</b>

<b>District Manager</b>	<b>Robin Terrell</b>	<b>575-390-4816</b>
<b>Drilling Superintendent</b>	<b>Frosty Lathan</b>	<b>575-390-4103</b>
	<b>Bradley Bishop</b>	<b>575-390-6838</b>
<b>Drilling Foreman</b>	<b>Wesley Noseff</b>	<b>575-441-0729</b>

# **Mewbourne Oil Company**

**Eddy County, New Mexico NAD 83**

**Big Sinks 1 W1AP Fed Com #3H**

**SL: 205 FNL & 1600 FEL**

**Sec 1, T26S, R31E**

**BHL: 330 FSL & 1000 FEL**

**Plan: Design #1**

## **Standard Planning Report**

**29 July, 2019**

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Big Sinks 1 W1AP Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Site:</b>	Big Sinks 1 W1AP Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	SL: 205 FNL & 1600 FEL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 330 FSL & 1000 FEL		
<b>Design:</b>	Design #1		

<b>Project</b>	Eddy County, New Mexico NAD 83		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Big Sinks 1 W1AP Fed Com #3H			
<b>Site Position:</b>		<b>Northing:</b>	392,991.90 usft	<b>Latitude:</b> 32.0789695
<b>From:</b>	Map	<b>Easting:</b>	728,753.10 usft	<b>Longitude:</b> -103.7282293
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.32 °

<b>Well</b>	SL: 205 FNL & 1600 FEL			
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	392,991.90 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	728,753.10 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	3,301.0 usft
			<b>Ground Level:</b>	3,274.0 usft

<b>Wellbore</b>	BHL: 330 FSL & 1000 FEL				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/29/2019	6.64	59.82	47,704

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	172.55

<b>Plan Sections</b>										
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	
1,225.0	0.00	0.00	1,225.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,471.0	3.69	71.59	1,470.8	2.5	7.5	1.50	1.50	0.00	71.59	
11,013.1	3.69	71.59	10,993.2	196.5	590.2	0.00	0.00	0.00	0.00	
11,259.1	0.00	0.00	11,239.0	199.0	597.7	1.50	-1.50	0.00	180.00	KOP: 10 FNL & 1000
12,159.2	90.00	179.67	11,812.0	-374.0	601.0	10.00	10.00	0.00	179.67	
16,581.7	90.00	179.67	11,812.0	-4,796.4	626.9	0.00	0.00	0.00	0.00	BHL: 330 FSL & 1000

# Planning Report

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<b>Wellbore:</b>	BHL: 330 FSL & 1000 FEL		
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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: 205 FNL & 1600 FEL									
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
1,225.0	0.00	0.00	1,225.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	1.13	71.59	1,300.0	0.2	0.7	-0.1	1.50	1.50	0.00
1,400.0	2.63	71.59	1,399.9	1.3	3.8	-0.8	1.50	1.50	0.00
1,471.0	3.69	71.59	1,470.8	2.5	7.5	-1.5	1.50	1.50	0.00
1,500.0	3.69	71.59	1,499.8	3.1	9.3	-1.9	0.00	0.00	0.00
1,600.0	3.69	71.59	1,599.6	5.1	15.4	-3.1	0.00	0.00	0.00
1,700.0	3.69	71.59	1,699.4	7.2	21.5	-4.3	0.00	0.00	0.00
1,800.0	3.69	71.59	1,799.1	9.2	27.6	-5.5	0.00	0.00	0.00
1,900.0	3.69	71.59	1,898.9	11.2	33.7	-6.8	0.00	0.00	0.00
2,000.0	3.69	71.59	1,998.7	13.3	39.8	-8.0	0.00	0.00	0.00
2,100.0	3.69	71.59	2,098.5	15.3	45.9	-9.2	0.00	0.00	0.00
2,200.0	3.69	71.59	2,198.3	17.3	52.0	-10.4	0.00	0.00	0.00
2,300.0	3.69	71.59	2,298.1	19.4	58.1	-11.7	0.00	0.00	0.00
2,400.0	3.69	71.59	2,397.9	21.4	64.2	-12.9	0.00	0.00	0.00
2,500.0	3.69	71.59	2,497.7	23.4	70.3	-14.1	0.00	0.00	0.00
2,600.0	3.69	71.59	2,597.5	25.5	76.5	-15.3	0.00	0.00	0.00
2,700.0	3.69	71.59	2,697.3	27.5	82.6	-16.6	0.00	0.00	0.00
2,800.0	3.69	71.59	2,797.1	29.5	88.7	-17.8	0.00	0.00	0.00
2,900.0	3.69	71.59	2,896.9	31.6	94.8	-19.0	0.00	0.00	0.00
3,000.0	3.69	71.59	2,996.7	33.6	100.9	-20.2	0.00	0.00	0.00
3,100.0	3.69	71.59	3,096.5	35.6	107.0	-21.5	0.00	0.00	0.00
3,200.0	3.69	71.59	3,196.2	37.7	113.1	-22.7	0.00	0.00	0.00
3,300.0	3.69	71.59	3,296.0	39.7	119.2	-23.9	0.00	0.00	0.00
3,400.0	3.69	71.59	3,395.8	41.7	125.3	-25.1	0.00	0.00	0.00
3,500.0	3.69	71.59	3,495.6	43.8	131.4	-26.4	0.00	0.00	0.00
3,600.0	3.69	71.59	3,595.4	45.8	137.5	-27.6	0.00	0.00	0.00
3,700.0	3.69	71.59	3,695.2	47.8	143.6	-28.8	0.00	0.00	0.00
3,800.0	3.69	71.59	3,795.0	49.9	149.7	-30.0	0.00	0.00	0.00
3,900.0	3.69	71.59	3,894.8	51.9	155.8	-31.3	0.00	0.00	0.00
4,000.0	3.69	71.59	3,994.6	53.9	161.9	-32.5	0.00	0.00	0.00
4,100.0	3.69	71.59	4,094.4	56.0	168.0	-33.7	0.00	0.00	0.00
4,200.0	3.69	71.59	4,194.2	58.0	174.2	-34.9	0.00	0.00	0.00
4,300.0	3.69	71.59	4,294.0	60.0	180.3	-36.1	0.00	0.00	0.00
4,400.0	3.69	71.59	4,393.8	62.0	186.4	-37.4	0.00	0.00	0.00
4,500.0	3.69	71.59	4,493.6	64.1	192.5	-38.6	0.00	0.00	0.00
4,600.0	3.69	71.59	4,593.3	66.1	198.6	-39.8	0.00	0.00	0.00
4,700.0	3.69	71.59	4,693.1	68.1	204.7	-41.0	0.00	0.00	0.00
4,800.0	3.69	71.59	4,792.9	70.2	210.8	-42.3	0.00	0.00	0.00
4,900.0	3.69	71.59	4,892.7	72.2	216.9	-43.5	0.00	0.00	0.00
5,000.0	3.69	71.59	4,992.5	74.2	223.0	-44.7	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Big Sinks 1 W1AP Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Site:</b>	Big Sinks 1 W1AP Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	SL: 205 FNL & 1600 FEL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 330 FSL & 1000 FEL		
<b>Design:</b>	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)
5,100.0	3.69	71.59	5,092.3	76.3	229.1	-45.9	0.00	0.00	0.00
5,200.0	3.69	71.59	5,192.1	78.3	235.2	-47.2	0.00	0.00	0.00
5,300.0	3.69	71.59	5,291.9	80.3	241.3	-48.4	0.00	0.00	0.00
5,400.0	3.69	71.59	5,391.7	82.4	247.4	-49.6	0.00	0.00	0.00
5,500.0	3.69	71.59	5,491.5	84.4	253.5	-50.8	0.00	0.00	0.00
5,600.0	3.69	71.59	5,591.3	86.4	259.6	-52.1	0.00	0.00	0.00
5,700.0	3.69	71.59	5,691.1	88.5	265.7	-53.3	0.00	0.00	0.00
5,800.0	3.69	71.59	5,790.9	90.5	271.9	-54.5	0.00	0.00	0.00
5,900.0	3.69	71.59	5,890.6	92.5	278.0	-55.7	0.00	0.00	0.00
6,000.0	3.69	71.59	5,990.4	94.6	284.1	-57.0	0.00	0.00	0.00
6,100.0	3.69	71.59	6,090.2	96.6	290.2	-58.2	0.00	0.00	0.00
6,200.0	3.69	71.59	6,190.0	98.6	296.3	-59.4	0.00	0.00	0.00
6,300.0	3.69	71.59	6,289.8	100.7	302.4	-60.6	0.00	0.00	0.00
6,400.0	3.69	71.59	6,389.6	102.7	308.5	-61.9	0.00	0.00	0.00
6,500.0	3.69	71.59	6,489.4	104.7	314.6	-63.1	0.00	0.00	0.00
6,600.0	3.69	71.59	6,589.2	106.8	320.7	-64.3	0.00	0.00	0.00
6,700.0	3.69	71.59	6,689.0	108.8	326.8	-65.5	0.00	0.00	0.00
6,800.0	3.69	71.59	6,788.8	110.8	332.9	-66.8	0.00	0.00	0.00
6,900.0	3.69	71.59	6,888.6	112.9	339.0	-68.0	0.00	0.00	0.00
7,000.0	3.69	71.59	6,988.4	114.9	345.1	-69.2	0.00	0.00	0.00
7,100.0	3.69	71.59	7,088.2	116.9	351.2	-70.4	0.00	0.00	0.00
7,200.0	3.69	71.59	7,188.0	119.0	357.3	-71.7	0.00	0.00	0.00
7,300.0	3.69	71.59	7,287.7	121.0	363.5	-72.9	0.00	0.00	0.00
7,400.0	3.69	71.59	7,387.5	123.0	369.6	-74.1	0.00	0.00	0.00
7,500.0	3.69	71.59	7,487.3	125.1	375.7	-75.3	0.00	0.00	0.00
7,600.0	3.69	71.59	7,587.1	127.1	381.8	-76.6	0.00	0.00	0.00
7,700.0	3.69	71.59	7,686.9	129.1	387.9	-77.8	0.00	0.00	0.00
7,800.0	3.69	71.59	7,786.7	131.2	394.0	-79.0	0.00	0.00	0.00
7,900.0	3.69	71.59	7,886.5	133.2	400.1	-80.2	0.00	0.00	0.00
8,000.0	3.69	71.59	7,986.3	135.2	406.2	-81.5	0.00	0.00	0.00
8,100.0	3.69	71.59	8,086.1	137.3	412.3	-82.7	0.00	0.00	0.00
8,200.0	3.69	71.59	8,185.9	139.3	418.4	-83.9	0.00	0.00	0.00
8,300.0	3.69	71.59	8,285.7	141.3	424.5	-85.1	0.00	0.00	0.00
8,400.0	3.69	71.59	8,385.5	143.4	430.6	-86.4	0.00	0.00	0.00
8,500.0	3.69	71.59	8,485.3	145.4	436.7	-87.6	0.00	0.00	0.00
8,600.0	3.69	71.59	8,585.1	147.4	442.8	-88.8	0.00	0.00	0.00
8,700.0	3.69	71.59	8,684.8	149.5	448.9	-90.0	0.00	0.00	0.00
8,800.0	3.69	71.59	8,784.6	151.5	455.0	-91.3	0.00	0.00	0.00
8,900.0	3.69	71.59	8,884.4	153.5	461.2	-92.5	0.00	0.00	0.00
9,000.0	3.69	71.59	8,984.2	155.6	467.3	-93.7	0.00	0.00	0.00
9,100.0	3.69	71.59	9,084.0	157.6	473.4	-94.9	0.00	0.00	0.00
9,200.0	3.69	71.59	9,183.8	159.6	479.5	-96.2	0.00	0.00	0.00
9,300.0	3.69	71.59	9,283.6	161.7	485.6	-97.4	0.00	0.00	0.00
9,400.0	3.69	71.59	9,383.4	163.7	491.7	-98.6	0.00	0.00	0.00
9,500.0	3.69	71.59	9,483.2	165.7	497.8	-99.8	0.00	0.00	0.00
9,600.0	3.69	71.59	9,583.0	167.8	503.9	-101.0	0.00	0.00	0.00
9,700.0	3.69	71.59	9,682.8	169.8	510.0	-102.3	0.00	0.00	0.00
9,800.0	3.69	71.59	9,782.6	171.8	516.1	-103.5	0.00	0.00	0.00
9,900.0	3.69	71.59	9,882.4	173.9	522.2	-104.7	0.00	0.00	0.00
10,000.0	3.69	71.59	9,982.1	175.9	528.3	-105.9	0.00	0.00	0.00
10,100.0	3.69	71.59	10,081.9	177.9	534.4	-107.2	0.00	0.00	0.00
10,200.0	3.69	71.59	10,181.7	180.0	540.5	-108.4	0.00	0.00	0.00
10,300.0	3.69	71.59	10,281.5	182.0	546.6	-109.6	0.00	0.00	0.00
10,400.0	3.69	71.59	10,381.3	184.0	552.7	-110.8	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Big Sinks 1 W1AP Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Site:</b>	Big Sinks 1 W1AP Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	SL: 205 FNL & 1600 FEL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 330 FSL & 1000 FEL		
<b>Design:</b>	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)
10,500.0	3.69	71.59	10,481.1	186.1	558.9	-112.1	0.00	0.00	0.00
10,600.0	3.69	71.59	10,580.9	188.1	565.0	-113.3	0.00	0.00	0.00
10,700.0	3.69	71.59	10,680.7	190.1	571.1	-114.5	0.00	0.00	0.00
10,800.0	3.69	71.59	10,780.5	192.2	577.2	-115.7	0.00	0.00	0.00
10,900.0	3.69	71.59	10,880.3	194.2	583.3	-117.0	0.00	0.00	0.00
11,000.0	3.69	71.59	10,980.1	196.2	589.4	-118.2	0.00	0.00	0.00
11,013.1	3.69	71.59	10,993.2	196.5	590.2	-118.4	0.00	0.00	0.00
11,100.0	2.39	71.59	11,079.9	198.0	594.6	-119.2	1.50	-1.50	0.00
11,200.0	0.89	71.59	11,179.9	198.9	597.3	-119.8	1.50	-1.50	0.00
11,259.1	0.00	0.00	11,239.0	199.0	597.7	-119.9	1.50	-1.50	0.00
<b>KOP: 10 FNL &amp; 1000 FEL</b>									
11,300.0	4.09	179.67	11,279.8	197.5	597.7	-118.4	10.00	10.00	0.00
11,400.0	14.09	179.67	11,378.5	181.8	597.8	-102.8	10.00	10.00	0.00
11,500.0	24.09	179.67	11,472.8	149.1	598.0	-70.4	10.00	10.00	0.00
11,600.0	34.09	179.67	11,560.1	100.6	598.3	-22.2	10.00	10.00	0.00
11,700.0	44.08	179.67	11,637.6	37.6	598.6	40.3	10.00	10.00	0.00
11,800.0	54.08	179.67	11,703.1	-37.9	599.1	115.2	10.00	10.00	0.00
11,897.2	63.80	179.67	11,753.1	-121.0	599.6	197.7	10.00	10.00	0.00
<b>FTP: 330 FNL &amp; 1000 FEL</b>									
11,900.0	64.08	179.67	11,754.4	-123.6	599.6	200.2	10.00	10.00	0.00
12,000.0	74.08	179.67	11,790.0	-216.8	600.1	292.8	10.00	10.00	0.00
12,100.0	84.08	179.67	11,808.9	-314.9	600.7	390.1	10.00	10.00	0.00
12,159.2	90.00	179.67	11,812.0	-374.0	601.0	448.7	10.00	10.00	0.00
12,200.0	90.00	179.67	11,812.0	-414.8	601.3	489.2	0.00	0.00	0.00
12,300.0	90.00	179.67	11,812.0	-514.8	601.9	588.5	0.00	0.00	0.00
12,400.0	90.00	179.67	11,812.0	-614.8	602.5	687.7	0.00	0.00	0.00
12,500.0	90.00	179.67	11,812.0	-714.8	603.0	786.9	0.00	0.00	0.00
12,600.0	90.00	179.67	11,812.0	-814.8	603.6	886.2	0.00	0.00	0.00
12,700.0	90.00	179.67	11,812.0	-914.8	604.2	985.4	0.00	0.00	0.00
12,800.0	90.00	179.67	11,812.0	-1,014.8	604.8	1,084.6	0.00	0.00	0.00
12,900.0	90.00	179.67	11,812.0	-1,114.8	605.4	1,183.8	0.00	0.00	0.00
13,000.0	90.00	179.67	11,812.0	-1,214.8	606.0	1,283.1	0.00	0.00	0.00
13,100.0	90.00	179.67	11,812.0	-1,314.8	606.5	1,382.3	0.00	0.00	0.00
13,200.0	90.00	179.67	11,812.0	-1,414.8	607.1	1,481.5	0.00	0.00	0.00
13,300.0	90.00	179.67	11,812.0	-1,514.8	607.7	1,580.8	0.00	0.00	0.00
13,400.0	90.00	179.67	11,812.0	-1,614.8	608.3	1,680.0	0.00	0.00	0.00
13,500.0	90.00	179.67	11,812.0	-1,714.8	608.9	1,779.2	0.00	0.00	0.00
13,600.0	90.00	179.67	11,812.0	-1,814.8	609.5	1,878.5	0.00	0.00	0.00
13,700.0	90.00	179.67	11,812.0	-1,914.8	610.1	1,977.7	0.00	0.00	0.00
13,800.0	90.00	179.67	11,812.0	-2,014.8	610.6	2,076.9	0.00	0.00	0.00
13,900.0	90.00	179.67	11,812.0	-2,114.8	611.2	2,176.2	0.00	0.00	0.00
14,000.0	90.00	179.67	11,812.0	-2,214.8	611.8	2,275.4	0.00	0.00	0.00
14,100.0	90.00	179.67	11,812.0	-2,314.8	612.4	2,374.6	0.00	0.00	0.00
14,200.0	90.00	179.67	11,812.0	-2,414.8	613.0	2,473.8	0.00	0.00	0.00
14,300.0	90.00	179.67	11,812.0	-2,514.8	613.6	2,573.1	0.00	0.00	0.00
14,400.0	90.00	179.67	11,812.0	-2,614.8	614.1	2,672.3	0.00	0.00	0.00
14,500.0	90.00	179.67	11,812.0	-2,714.8	614.7	2,771.5	0.00	0.00	0.00
14,600.0	90.00	179.67	11,812.0	-2,814.8	615.3	2,870.8	0.00	0.00	0.00
14,700.0	90.00	179.67	11,812.0	-2,914.8	615.9	2,970.0	0.00	0.00	0.00
14,800.0	90.00	179.67	11,812.0	-3,014.8	616.5	3,069.2	0.00	0.00	0.00
14,900.0	90.00	179.67	11,812.0	-3,114.8	617.1	3,168.5	0.00	0.00	0.00
15,000.0	90.00	179.67	11,812.0	-3,214.8	617.7	3,267.7	0.00	0.00	0.00
15,100.0	90.00	179.67	11,812.0	-3,314.8	618.2	3,366.9	0.00	0.00	0.00
15,200.0	90.00	179.67	11,812.0	-3,414.7	618.8	3,466.2	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Big Sinks 1 W1AP Fed Com #3H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Project:</b>	Eddy County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3301.0usft (Original Well Elev)
<b>Site:</b>	Big Sinks 1 W1AP Fed Com #3H	<b>North Reference:</b>	Grid
<b>Well:</b>	SL: 205 FNL & 1600 FEL	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 330 FSL & 1000 FEL		
<b>Design:</b>	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)	
15,300.0	90.00	179.67	11,812.0	-3,514.7	619.4	3,565.4	0.00	0.00	0.00	
15,400.0	90.00	179.67	11,812.0	-3,614.7	620.0	3,664.6	0.00	0.00	0.00	
15,500.0	90.00	179.67	11,812.0	-3,714.7	620.6	3,763.8	0.00	0.00	0.00	
15,576.6	90.00	179.67	11,812.0	-3,791.3	621.0	3,839.8	0.00	0.00	0.00	
PPP2: 1335 FSL & 1000 FEL										
15,600.0	90.00	179.67	11,812.0	-3,814.7	621.2	3,863.1	0.00	0.00	0.00	
15,700.0	90.00	179.67	11,812.0	-3,914.7	621.7	3,962.3	0.00	0.00	0.00	
15,800.0	90.00	179.67	11,812.0	-4,014.7	622.3	4,061.5	0.00	0.00	0.00	
15,900.0	90.00	179.67	11,812.0	-4,114.7	622.9	4,160.8	0.00	0.00	0.00	
16,000.0	90.00	179.67	11,812.0	-4,214.7	623.5	4,260.0	0.00	0.00	0.00	
16,100.0	90.00	179.67	11,812.0	-4,314.7	624.1	4,359.2	0.00	0.00	0.00	
16,200.0	90.00	179.67	11,812.0	-4,414.7	624.7	4,458.5	0.00	0.00	0.00	
16,300.0	90.00	179.67	11,812.0	-4,514.7	625.3	4,557.7	0.00	0.00	0.00	
16,400.0	90.00	179.67	11,812.0	-4,614.7	625.8	4,656.9	0.00	0.00	0.00	
16,500.0	90.00	179.67	11,812.0	-4,714.7	626.4	4,756.1	0.00	0.00	0.00	
16,581.7	90.00	179.67	11,812.0	-4,796.4	626.9	4,837.2	0.00	0.00	0.00	
BHL: 330 FSL & 1000 FEL										

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: 205 FNL & 1600 FEI - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	392,991.90	728,753.10	32.0789695		-103.7282293
KOP: 10 FNL & 1000 FE - plan hits target center - Point	0.00	0.00	11,239.0	199.0	597.7	393,190.90	729,350.80	32.0795073		-103.7262960
FTP: 330 FNL & 1000 FI - plan hits target center - Point	0.00	0.00	11,753.1	-121.0	599.6	392,870.90	729,352.67	32.0786277		-103.7262958
BHL: 330 FSL & 1000 FI - plan hits target center - Point	0.00	0.00	11,812.0	-4,796.4	626.9	388,195.50	729,380.00	32.0657754		-103.7262925
PPP2: 1335 FSL & 1000 - plan hits target center - Point	0.00	0.00	11,812.0	-3,791.3	621.0	389,200.60	729,374.12	32.0685383		-103.7262932



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