

OCD - HOBBS  
11/19/2020  
RECEIVED

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

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. NMNM0000127A
1b. Type of Well: <input checked="" 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.
2. Name of Operator MEWBOURNE OIL COMPANY [14744]		8. Lease Name and Well No. SALADO DRAW 9 W1DM FED COM [316523] 4H
3a. Address PO Box 5270, Hobbs, NM 88240	3b. Phone No. (include area code) (575) 393-5905	9. API Well No. 30-025-48041
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW / 320 FNL / 420 FWL / LAT 32.0644067 / LONG -103.5844189 At proposed prod. zone SWSW / 100 FSL / 1310 FWL / LAT 32.0510474 / LONG -103.5815406		10. Field and Pool, or Exploratory [98097] SANDERS TANK; UPPER WOLFCAMP
14. Distance in miles and direction from nearest town or post office* 30 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 320 feet		13. State NM
16. No of acres in lease 320		17. Spacing Unit dedicated to this well 160.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50 feet		20. BLM/BIA Bond No. in file FED: NM1693
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3325 feet		22. Approximate date work will start* 01/27/2020
		23. Estimated duration 60 days
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) BRADLEY BISHOP / Ph: (575) 393-5905	Date 11/27/2019
Title Regulatory		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575) 234-5959	Date 08/31/2020
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

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.

GCP Rec 11/19/2020

Revised C-102 Rec 11/24/2020

SL

(Continued on page 2)

APPROVED WITH CONDITIONS  
Approval Date: 08/31/2020

KZ  
11/24/2020

\*(Instructions on page 2)

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM I:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to a new evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## Additional Operator Remarks

### Location of Well

0. SHL: NWNW / 320 FNL / 420 FWL / TWSP: 26S / RANGE: 33E / SECTION: 9 / LAT: 32.0644067 / LONG: -103.5844189 ( TVD: 0 feet, MD: 0 feet )

PPP: NWSW / 2638 FSL / 1310 FWL / TWSP: 26S / RANGE: 33E / SECTION: 9 / LAT: 32.0580242 / LONG: -103.5815438 ( TVD: 12528 feet, MD: 14948 feet )

PPP: NWNW / 100 FNL / 1310 FWL / TWSP: 26S / RANGE: 33E / SECTION: 9 / LAT: 32.0650063 / LONG: -103.581547 ( TVD: 12258 feet, MD: 12316 feet )

BHL: SWSW / 100 FSL / 1310 FWL / TWSP: 26S / RANGE: 33E / SECTION: 9 / LAT: 32.0510474 / LONG: -103.5815406 ( TVD: 12533 feet, MD: 17486 feet )

### BLM Point of Contact

Name: Pamela Hernandez

Title:

Phone: (575) 234-5954

Email: phernandez@blm.gov

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**Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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# PECOS DISTRICT

## DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Mewbourne Oil Company</b>
<b>LEASE NO.:</b>	<b>NMNM0000127A</b>
<b>WELL NAME &amp; NO.:</b>	<b>SALADO DRAW 9 W1DM FED COM #4H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>320' N &amp; 420' W</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>100' S &amp; 1310' W</b>
<b>LOCATION:</b>	<b>Section 9, T.26 S., R.33 E., NMP</b>
<b>COUNTY:</b>	<b>Lea 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 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 **960** feet (a minimum of **25 feet (Lea 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 **4875** 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 20%, 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.
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 2%, 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 22%, 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.

**OTA04292020**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Number: 4H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N

Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: SINGLE WELL

Multiple Well Pad Name:

Number:

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: APPRAISAL

Describe sub-type:

Distance to town: 30 Miles

Distance to nearest well: 50 FT

Distance to lease line: 320 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: SaladoDraw9W1DMFedCom4H\_wellplat\_20191126135401.pdf

Well work start Date: 01/27/2020

Duration: 60 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	320	FNL	420	FW L	26S	33E	9	Aliquot NWN W	32.06440 67	- 103.5844 189	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000012 7A	332 5	0	0	Y
KOP Leg #1	10	FNL	131 0	FW L	26S	33E	9	Aliquot NWN W	32.06525 37	- 103.5815 471	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000012 7A	- 862 5	119 91	119 50	Y
PPP Leg #1-1	100	FNL	131 0	FW L	26S	33E	9	Aliquot NWN W	32.06500 63	- 103.5815 47	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 000012 7A	- 893 3	123 16	122 58	Y

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SALADO DRAW 9 W1DM FED COM

**Well Number:** 4H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-2	2638	FSL	1310	FWL	26S	33E	9	Aliquot NWS W	32.0580242	- 103.5815438	LEA	NEW MEXICO	NEW MEXICO	F	FEE	- 9203	14948	12528	Y
EXIT Leg #1	100	FSL	1310	FWL	26S	33E	9	Aliquot SWS W	32.0510475	- 103.5815406	LEA	NEW MEXICO	NEW MEXICO	F	FEE	- 9208	17486	12533	Y
BHL Leg #1	100	FSL	1310	FWL	26S	33E	9	Aliquot SWS W	32.0510474	- 103.5815406	LEA	NEW MEXICO	NEW MEXICO	F	FEE	- 9208	17486	12533	Y

APD ID: 10400051685

Submission Date: 11/27/2019

Highlighted data reflects the most recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Type: CONVENTIONAL GAS WELL

Well Number: 4H

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
598323	UNKNOWN	3325	28	28	OTHER : Top soil	NONE	N
598334	RUSTLER	2480	845	845	ANHYDRITE, DOLOMITE	USEABLE WATER	N
598335	TOP SALT	2109	1216	1216	SALT	NONE	N
598324	BOTTOM SALT	-1355	4680	4680	SALT	NONE	N
598331	LAMAR	-1585	4910	4910	LIMESTONE	NATURAL GAS, OIL	N
598327	BELL CANYON	-1615	4940	4940	SANDSTONE	NATURAL GAS, OIL	N
598328	CHERRY CANYON	-2715	6040	6040	SANDSTONE	NATURAL GAS, OIL	N
598329	MANZANITA	-2864	6189	6189	LIMESTONE	NATURAL GAS, OIL	N
598322	BONE SPRING	-5635	8960	8960	LIMESTONE, SHALE	NATURAL GAS, OIL	N
598325	BONE SPRING 1ST	-6640	9965	9965	SANDSTONE	NATURAL GAS, OIL	N
598326	BONE SPRING 2ND	-7195	10520	10520	SANDSTONE	NATURAL GAS, OIL	N
598333	BONE SPRING 3RD	-8280	11605	11605	SANDSTONE	NATURAL GAS, OIL	N
598330	WOLFCAMP	-8640	11965	11965	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Number: 4H

Pressure Rating (PSI): 10M

Rating Depth: 17486

Equipment: Annular, Pipe Rams, Blind Rams

Requesting Variance? YES

Variance request: Request variance for the use of a flexible choke line from the BOP to Choke Manifold. Anchors not required by manufacturer. A multi-bowl wellhead will be used. See attached schematic.

Testing Procedure: 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.

Choke Diagram Attachment:

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_10M\_BOPE\_Choke\_Diagram\_20191127110012.pdf

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Flex\_Line\_Specs\_20191127110013.pdf

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Flex\_Line\_Specs\_API\_16C\_20200420154017.pdf

BOP Diagram Attachment:

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_10M\_BOPE\_Schematic\_w\_5M\_Annular\_20191127110048.pdf

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_10M\_Multi\_Bowl\_WH\_Running\_Proc\_20191127110053.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	90	0	900	3325	2425	90	H-40	48	ST&C	1.87	4.2	DRY	7.45	DRY	12.52
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4875	0	4875	3326	-1550	4875	L-80	40	LT&C	1.22	2.27	DRY	3.73	DRY	4.7
3	PRODUCTION	8.75	7.0	NEW	API	N	0	12700	0	12492	3326	-9167	12700	HCP-110	29	LT&C	1.49	1.82	DRY	2.16	DRY	2.52
4	LINER	6.125	4.5	NEW	API	N	11991	17486	11950	12533	-8625	-9208	5495	P-110	13.5	LT&C	1.37	1.59	DRY	4.56	DRY	5.69

Casing Attachments



**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SALADO DRAW 9 W1DM FED COM

**Well Number:** 4H

**Casing Attachments**

**Casing ID:** 1                    **String Type:**SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Csg\_assumptions\_20191127103008.pdf

**Casing ID:** 2                    **String Type:**INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Csg\_assumptions\_20191127103054.pdf

**Casing ID:** 3                    **String Type:**PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Csg\_assumptions\_20191127103138.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Number: 4H

Casing Attachments

Casing ID: 4String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Csg\_assumptions\_20191127103233.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	709	470	2.12	12.5	996	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		709	900	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	4188	770	2.12	12.5	1632	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		4188	4875	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	6200	4675	5476	70	2.12	12.5	148	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		5476	6200	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	6189	6189	10216	360	2.12	12.5	763	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		10216	12700	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		11991	17486	220	2.97	11.2	653	25	Class C	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: SALADO DRAW 9 W1DM FED COM

Well Number: 4H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole

Describe the mud monitoring system utilized: Pason/PVT/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	900	SPUD MUD	8.6	8.8							
900	4875	SALT SATURATED	10	10							
4875	12492	WATER-BASED MUD	8.6	9.5							
12492	12533	OIL-BASED MUD	10	13							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GR/CNL from KOP (11991') to surface.

Will run MWD GR from KOP (11991') to TD.

List of open and cased hole logs run in the well:

COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGIC LITHOLOGY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None

**Operator Name:** MEWBOURNE OIL COMPANY

**Well Name:** SALADO DRAW 9 W1DM FED COM

**Well Number:** 4H

Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7821

**Anticipated Surface Pressure:** 5063

**Anticipated Bottom Hole Temperature(F):** 165

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_H2S\_Plan\_20191127103926.pdf

Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Dir\_plot\_20191127103952.pdf

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Dir\_plan\_20191127103952.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Add\_Info\_20191127104014.pdf

Salado\_Draw\_9\_W1DM\_Fed\_Com\_4H\_Drlg\_Program\_20191127104039.docx

**Other Variance attachment:**

# 10M BOPE & Closed Loop Equipment Schematic

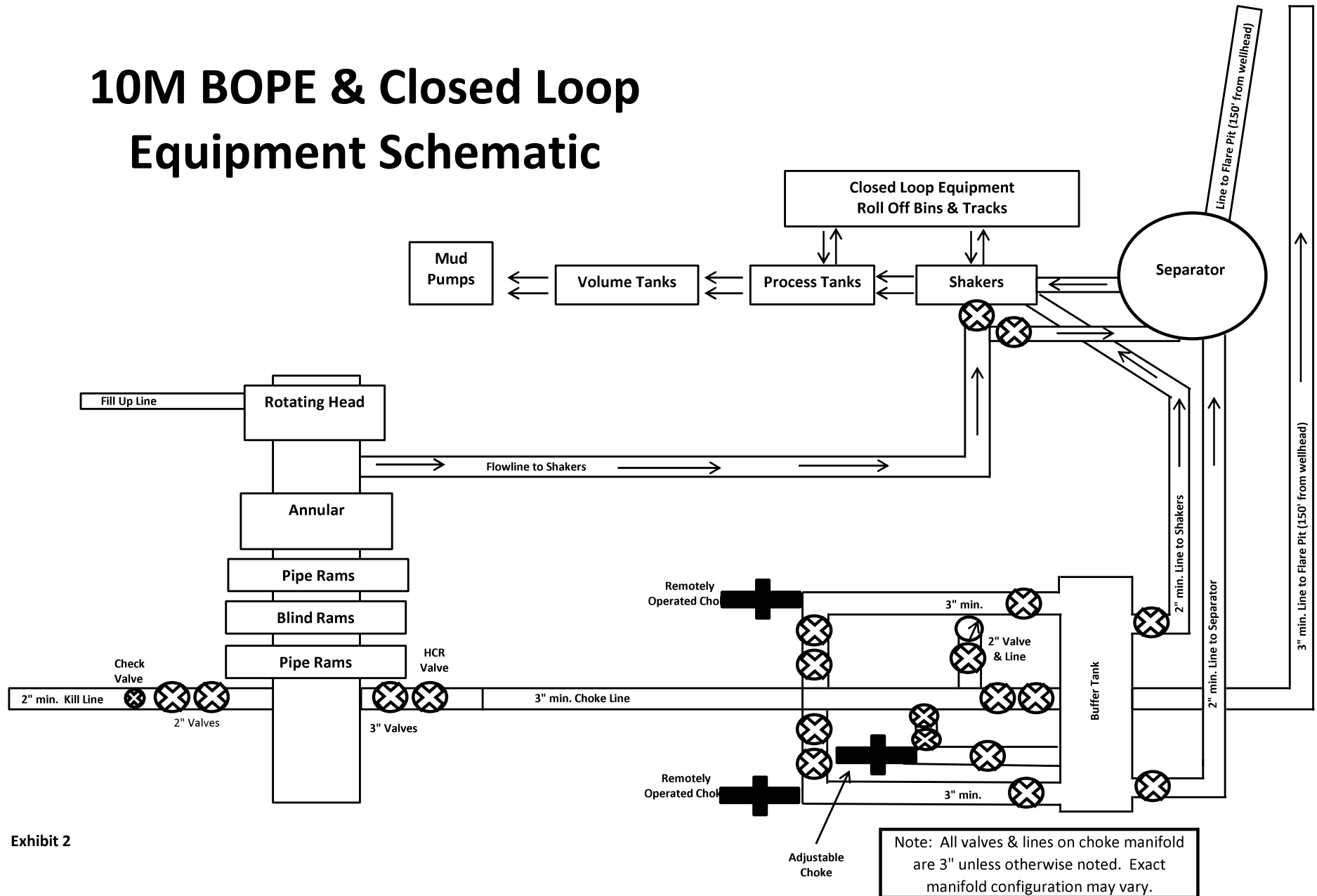


Exhibit 2



GATES E & S NORTH AMERICA, INC.  
134 44TH STREET  
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807  
FAX: 361-887-0812  
EMAIL: [Tim.Cantu@gates.com](mailto:Tim.Cantu@gates.com)  
WEB: [www.gates.com](http://www.gates.com)

## 10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER
Product Description:	10K3.548.0CK4.1/1610KFLGE/E LE		
End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :  
Date :  
Signature :

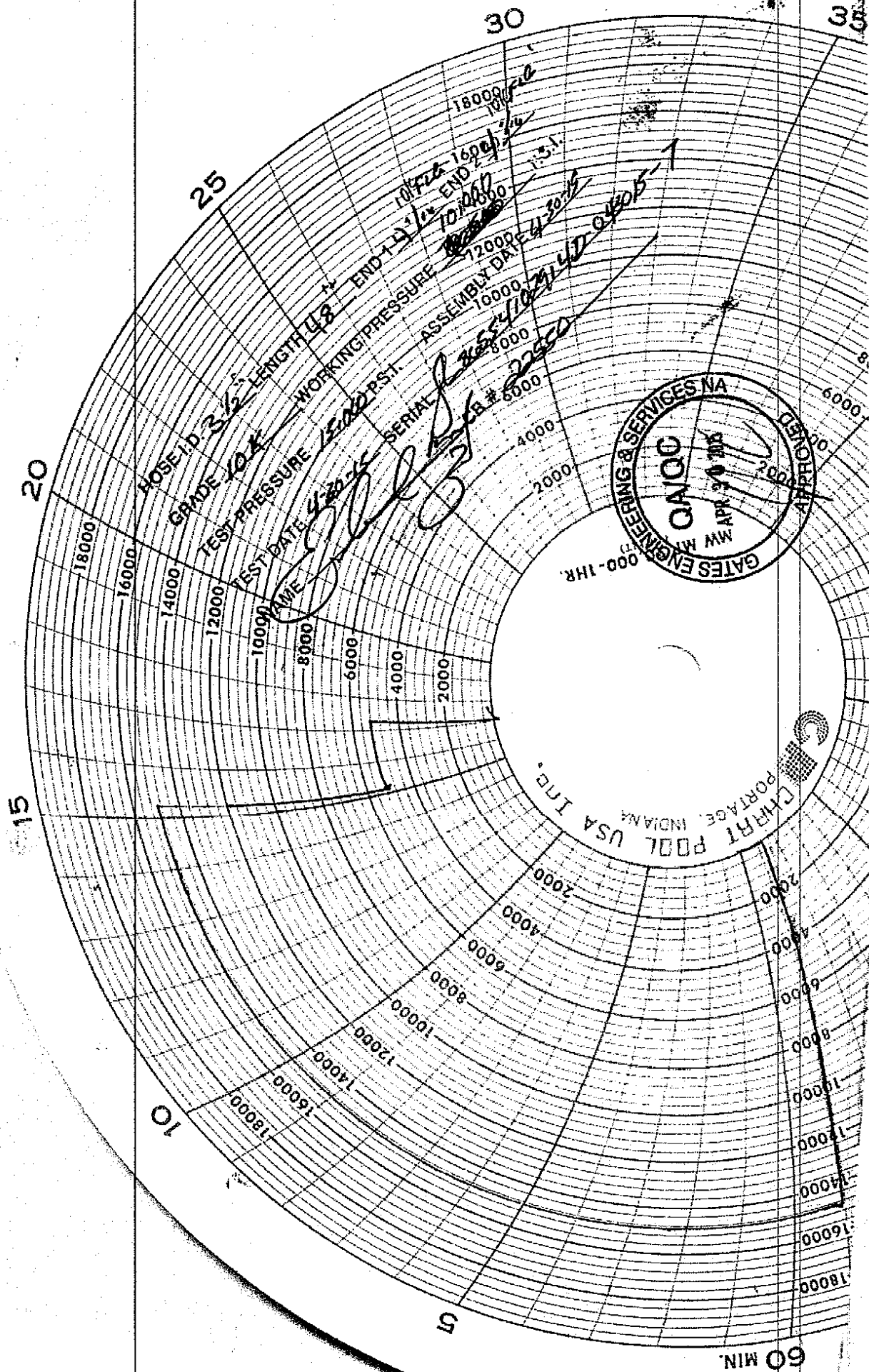
QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:  
Date :  
Signature :

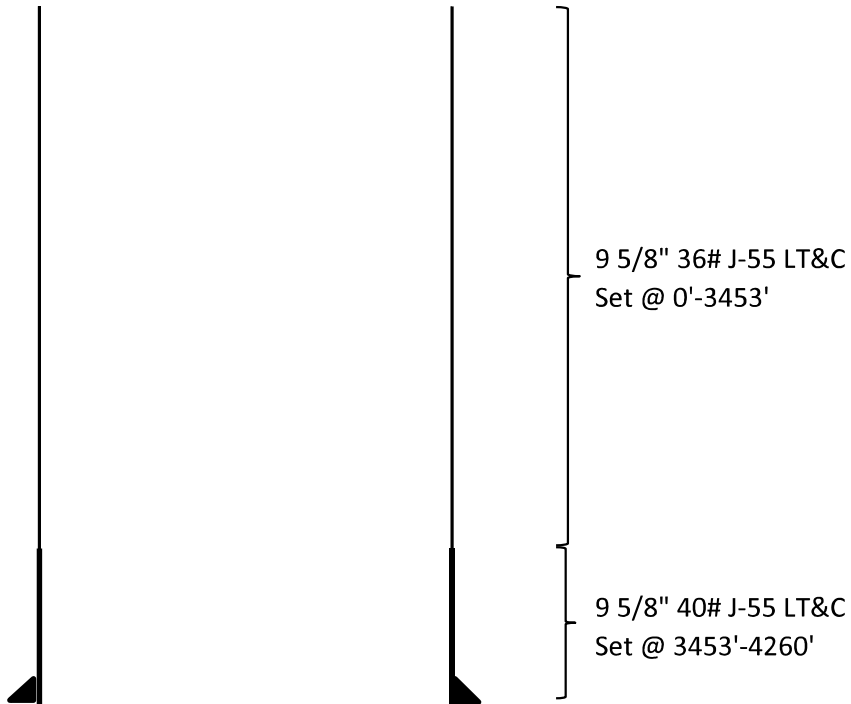
PRODUCTION
4/30/2015
<i>Justin Cropper</i>

Form-PTC - 01 Rev.02





Red Hills West Unit #018H  
Intermediate Casing



Casing	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
36# J-55	1.13	1.96	2.89	4.54
40# J-55	1.16	1.78	16.11	19.52



**Mewbourne Oil Company**  
**Salado Draw 9 WIDM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

**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'	900'	13.375"	48	H40	STC	1.87	4.20	7.45	12.52
12.25"	0'	4875'	9.625"	40	L80	LTC	1.22	2.27	3.73	4.70
8.75"	0'	12700'	7"	29	HCP110	LTC	1.49	1.82	2.16	2.52
6.125"	11991'	17486'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
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?	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**  
**Salado Draw 9 WIDM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

**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'	900'	13.375"	48	H40	STC	1.87	4.20	7.45	12.52
12.25"	0'	4875'	9.625"	40	L80	LTC	1.22	2.27	3.73	4.70
8.75"	0'	12700'	7"	29	HCP110	LTC	1.49	1.82	2.16	2.52
6.125"	11991'	17486'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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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
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**Mewbourne Oil Company**  
**Salado Draw 9 WIDM Fed Com #4H**  
**Sec 9, T26S, R33E**  
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All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h  
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	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?	
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**Mewbourne Oil Company**  
**Salado Draw 9 WIDM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
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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
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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?	

## 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.

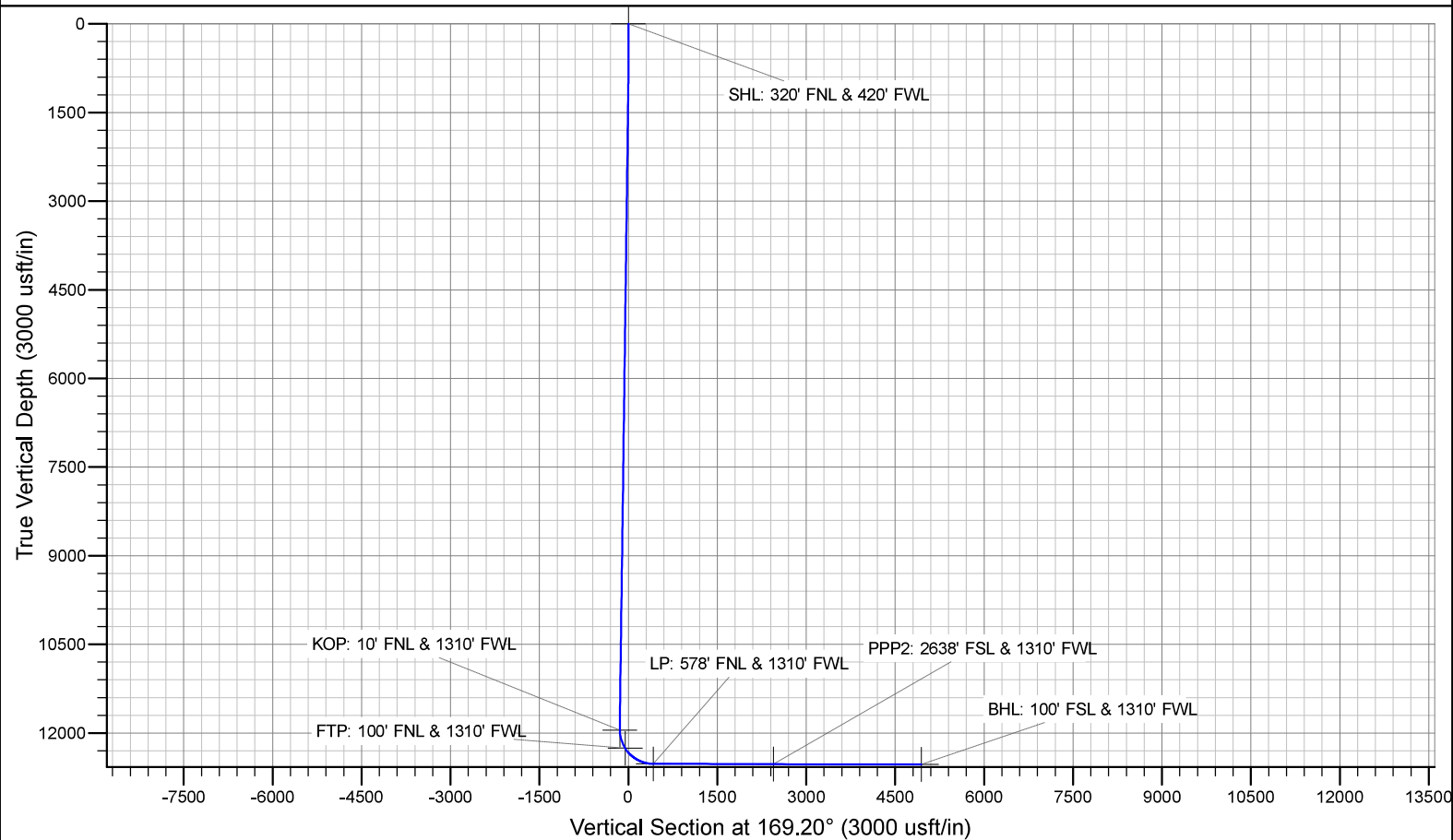
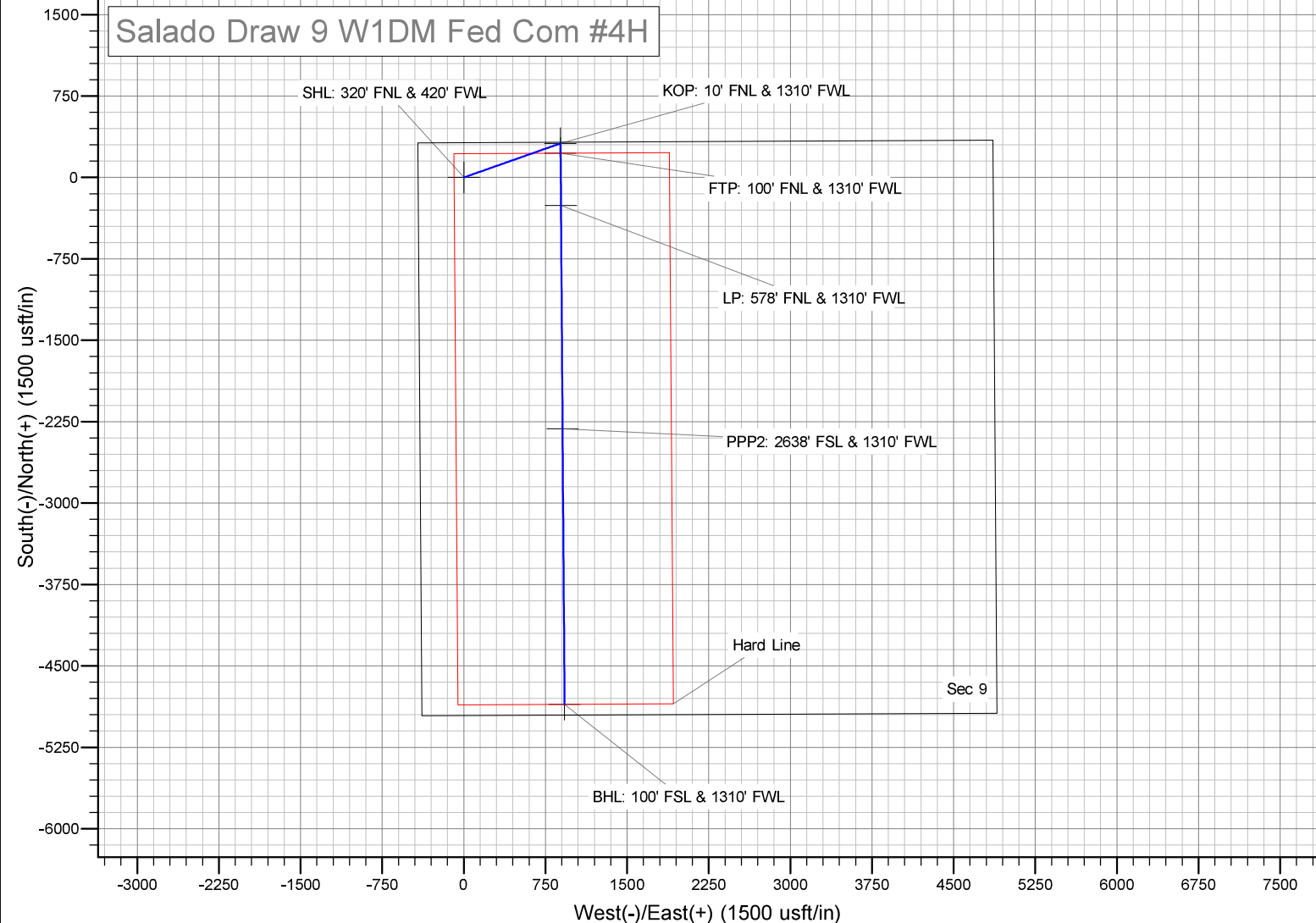
#### **8. Emergency Phone Numbers**

<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>

# Salado Draw 9 W1DM Fed Com #4H



# **Mewbourne Oil Company**

**Lea County, New Mexico NAD 83**

**Salado Draw 9 W1DM Fed Com #4H**

**Sec 9, T26S, R33E**

**SHL: 320' FNL & 420' FWL**

**BHL: 100' FSL & 1310' FWL**

**Plan: Design #1**

## **Standard Planning Report**

**22 November, 2019**



## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<b>Design:</b>	Design #1		

<b>Project</b>	Lea 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>	Salado Draw 9 W1DM Fed Com #4H			
<b>Site Position:</b>		<b>Northing:</b>	387,974.00 usft	<b>Latitude:</b> 32.0644076
<b>From:</b> Map		<b>Easting:</b>	773,332.00 usft	<b>Longitude:</b> -103.5844205
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b> 0.40 °

<b>Well</b>	Sec 9, T26S, R33E			
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	387,974.00 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	773,332.00 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	3,353.0 usft
			<b>Ground Level:</b>	3,325.0 usft

<b>Wellbore</b>	BHL: 100' FSL & 1310' FWL				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/22/2019	6.53	59.82	47,677

<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	169.20

<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	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,234.9	5.02	70.53	1,234.5	4.9	13.8	1.50	1.50	0.00	70.53	
11,656.0	5.02	70.53	11,615.5	309.1	874.2	0.00	0.00	0.00	0.00	
11,990.9	0.00	0.00	11,950.0	314.0	888.0	1.50	-1.50	0.00	180.00	KOP: 10' FNL & 1310'
12,889.7	89.88	179.58	12,523.0	-257.7	892.2	10.00	10.00	0.00	179.58	
17,486.1	89.88	179.58	12,533.0	-4,854.0	926.0	0.00	0.00	0.00	0.00	BHL: 100' FSL & 1310'

# Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 320' FNL & 420' FWL									
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	1.50	70.53	1,000.0	0.4	1.2	-0.2	1.50	1.50	0.00
1,100.0	3.00	70.53	1,099.9	1.7	4.9	-0.8	1.50	1.50	0.00
1,200.0	4.50	70.53	1,199.7	3.9	11.1	-1.8	1.50	1.50	0.00
1,234.9	5.02	70.53	1,234.5	4.9	13.8	-2.2	1.50	1.50	0.00
1,300.0	5.02	70.53	1,299.3	6.8	19.2	-3.1	0.00	0.00	0.00
1,400.0	5.02	70.53	1,398.9	9.7	27.5	-4.4	0.00	0.00	0.00
1,500.0	5.02	70.53	1,498.6	12.6	35.7	-5.7	0.00	0.00	0.00
1,600.0	5.02	70.53	1,598.2	15.5	44.0	-7.0	0.00	0.00	0.00
1,700.0	5.02	70.53	1,697.8	18.5	52.2	-8.4	0.00	0.00	0.00
1,800.0	5.02	70.53	1,797.4	21.4	60.5	-9.7	0.00	0.00	0.00
1,900.0	5.02	70.53	1,897.0	24.3	68.7	-11.0	0.00	0.00	0.00
2,000.0	5.02	70.53	1,996.6	27.2	77.0	-12.3	0.00	0.00	0.00
2,100.0	5.02	70.53	2,096.2	30.1	85.3	-13.6	0.00	0.00	0.00
2,200.0	5.02	70.53	2,195.9	33.1	93.5	-15.0	0.00	0.00	0.00
2,300.0	5.02	70.53	2,295.5	36.0	101.8	-16.3	0.00	0.00	0.00
2,400.0	5.02	70.53	2,395.1	38.9	110.0	-17.6	0.00	0.00	0.00
2,500.0	5.02	70.53	2,494.7	41.8	118.3	-18.9	0.00	0.00	0.00
2,600.0	5.02	70.53	2,594.3	44.7	126.5	-20.2	0.00	0.00	0.00
2,700.0	5.02	70.53	2,693.9	47.7	134.8	-21.6	0.00	0.00	0.00
2,800.0	5.02	70.53	2,793.6	50.6	143.0	-22.9	0.00	0.00	0.00
2,900.0	5.02	70.53	2,893.2	53.5	151.3	-24.2	0.00	0.00	0.00
3,000.0	5.02	70.53	2,992.8	56.4	159.6	-25.5	0.00	0.00	0.00
3,100.0	5.02	70.53	3,092.4	59.3	167.8	-26.8	0.00	0.00	0.00
3,200.0	5.02	70.53	3,192.0	62.3	176.1	-28.2	0.00	0.00	0.00
3,300.0	5.02	70.53	3,291.6	65.2	184.3	-29.5	0.00	0.00	0.00
3,400.0	5.02	70.53	3,391.3	68.1	192.6	-30.8	0.00	0.00	0.00
3,500.0	5.02	70.53	3,490.9	71.0	200.8	-32.1	0.00	0.00	0.00
3,600.0	5.02	70.53	3,590.5	73.9	209.1	-33.4	0.00	0.00	0.00
3,700.0	5.02	70.53	3,690.1	76.9	217.3	-34.8	0.00	0.00	0.00
3,800.0	5.02	70.53	3,789.7	79.8	225.6	-36.1	0.00	0.00	0.00
3,900.0	5.02	70.53	3,889.3	82.7	233.9	-37.4	0.00	0.00	0.00
4,000.0	5.02	70.53	3,988.9	85.6	242.1	-38.7	0.00	0.00	0.00
4,100.0	5.02	70.53	4,088.6	88.5	250.4	-40.0	0.00	0.00	0.00
4,200.0	5.02	70.53	4,188.2	91.4	258.6	-41.4	0.00	0.00	0.00
4,300.0	5.02	70.53	4,287.8	94.4	266.9	-42.7	0.00	0.00	0.00
4,400.0	5.02	70.53	4,387.4	97.3	275.1	-44.0	0.00	0.00	0.00
4,500.0	5.02	70.53	4,487.0	100.2	283.4	-45.3	0.00	0.00	0.00
4,600.0	5.02	70.53	4,586.6	103.1	291.6	-46.6	0.00	0.00	0.00
4,700.0	5.02	70.53	4,686.3	106.0	299.9	-48.0	0.00	0.00	0.00
4,800.0	5.02	70.53	4,785.9	109.0	308.2	-49.3	0.00	0.00	0.00
4,900.0	5.02	70.53	4,885.5	111.9	316.4	-50.6	0.00	0.00	0.00
5,000.0	5.02	70.53	4,985.1	114.8	324.7	-51.9	0.00	0.00	0.00
5,100.0	5.02	70.53	5,084.7	117.7	332.9	-53.3	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<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)	
5,200.0	5.02	70.53	5,184.3	120.6	341.2	-54.6	0.00	0.00	0.00	
5,300.0	5.02	70.53	5,284.0	123.6	349.4	-55.9	0.00	0.00	0.00	
5,400.0	5.02	70.53	5,383.6	126.5	357.7	-57.2	0.00	0.00	0.00	
5,500.0	5.02	70.53	5,483.2	129.4	365.9	-58.5	0.00	0.00	0.00	
5,600.0	5.02	70.53	5,582.8	132.3	374.2	-59.9	0.00	0.00	0.00	
5,700.0	5.02	70.53	5,682.4	135.2	382.5	-61.2	0.00	0.00	0.00	
5,800.0	5.02	70.53	5,782.0	138.2	390.7	-62.5	0.00	0.00	0.00	
5,900.0	5.02	70.53	5,881.7	141.1	399.0	-63.8	0.00	0.00	0.00	
6,000.0	5.02	70.53	5,981.3	144.0	407.2	-65.1	0.00	0.00	0.00	
6,100.0	5.02	70.53	6,080.9	146.9	415.5	-66.5	0.00	0.00	0.00	
6,200.0	5.02	70.53	6,180.5	149.8	423.7	-67.8	0.00	0.00	0.00	
6,300.0	5.02	70.53	6,280.1	152.8	432.0	-69.1	0.00	0.00	0.00	
6,400.0	5.02	70.53	6,379.7	155.7	440.2	-70.4	0.00	0.00	0.00	
6,500.0	5.02	70.53	6,479.3	158.6	448.5	-71.7	0.00	0.00	0.00	
6,600.0	5.02	70.53	6,579.0	161.5	456.8	-73.1	0.00	0.00	0.00	
6,700.0	5.02	70.53	6,678.6	164.4	465.0	-74.4	0.00	0.00	0.00	
6,800.0	5.02	70.53	6,778.2	167.4	473.3	-75.7	0.00	0.00	0.00	
6,900.0	5.02	70.53	6,877.8	170.3	481.5	-77.0	0.00	0.00	0.00	
7,000.0	5.02	70.53	6,977.4	173.2	489.8	-78.3	0.00	0.00	0.00	
7,100.0	5.02	70.53	7,077.0	176.1	498.0	-79.7	0.00	0.00	0.00	
7,200.0	5.02	70.53	7,176.7	179.0	506.3	-81.0	0.00	0.00	0.00	
7,300.0	5.02	70.53	7,276.3	181.9	514.5	-82.3	0.00	0.00	0.00	
7,400.0	5.02	70.53	7,375.9	184.9	522.8	-83.6	0.00	0.00	0.00	
7,500.0	5.02	70.53	7,475.5	187.8	531.1	-84.9	0.00	0.00	0.00	
7,600.0	5.02	70.53	7,575.1	190.7	539.3	-86.3	0.00	0.00	0.00	
7,700.0	5.02	70.53	7,674.7	193.6	547.6	-87.6	0.00	0.00	0.00	
7,800.0	5.02	70.53	7,774.4	196.5	555.8	-88.9	0.00	0.00	0.00	
7,900.0	5.02	70.53	7,874.0	199.5	564.1	-90.2	0.00	0.00	0.00	
8,000.0	5.02	70.53	7,973.6	202.4	572.3	-91.5	0.00	0.00	0.00	
8,100.0	5.02	70.53	8,073.2	205.3	580.6	-92.9	0.00	0.00	0.00	
8,200.0	5.02	70.53	8,172.8	208.2	588.9	-94.2	0.00	0.00	0.00	
8,300.0	5.02	70.53	8,272.4	211.1	597.1	-95.5	0.00	0.00	0.00	
8,400.0	5.02	70.53	8,372.0	214.1	605.4	-96.8	0.00	0.00	0.00	
8,500.0	5.02	70.53	8,471.7	217.0	613.6	-98.1	0.00	0.00	0.00	
8,600.0	5.02	70.53	8,571.3	219.9	621.9	-99.5	0.00	0.00	0.00	
8,700.0	5.02	70.53	8,670.9	222.8	630.1	-100.8	0.00	0.00	0.00	
8,800.0	5.02	70.53	8,770.5	225.7	638.4	-102.1	0.00	0.00	0.00	
8,900.0	5.02	70.53	8,870.1	228.7	646.6	-103.4	0.00	0.00	0.00	
9,000.0	5.02	70.53	8,969.7	231.6	654.9	-104.7	0.00	0.00	0.00	
9,100.0	5.02	70.53	9,069.4	234.5	663.2	-106.1	0.00	0.00	0.00	
9,200.0	5.02	70.53	9,169.0	237.4	671.4	-107.4	0.00	0.00	0.00	
9,300.0	5.02	70.53	9,268.6	240.3	679.7	-108.7	0.00	0.00	0.00	
9,400.0	5.02	70.53	9,368.2	243.3	687.9	-110.0	0.00	0.00	0.00	
9,500.0	5.02	70.53	9,467.8	246.2	696.2	-111.4	0.00	0.00	0.00	
9,600.0	5.02	70.53	9,567.4	249.1	704.4	-112.7	0.00	0.00	0.00	
9,700.0	5.02	70.53	9,667.1	252.0	712.7	-114.0	0.00	0.00	0.00	
9,800.0	5.02	70.53	9,766.7	254.9	720.9	-115.3	0.00	0.00	0.00	
9,900.0	5.02	70.53	9,866.3	257.8	729.2	-116.6	0.00	0.00	0.00	
10,000.0	5.02	70.53	9,965.9	260.8	737.5	-118.0	0.00	0.00	0.00	
10,100.0	5.02	70.53	10,065.5	263.7	745.7	-119.3	0.00	0.00	0.00	
10,200.0	5.02	70.53	10,165.1	266.6	754.0	-120.6	0.00	0.00	0.00	
10,300.0	5.02	70.53	10,264.7	269.5	762.2	-121.9	0.00	0.00	0.00	
10,400.0	5.02	70.53	10,364.4	272.4	770.5	-123.2	0.00	0.00	0.00	
10,500.0	5.02	70.53	10,464.0	275.4	778.7	-124.6	0.00	0.00	0.00	

# Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<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)
10,600.0	5.02	70.53	10,563.6	278.3	787.0	-125.9	0.00	0.00	0.00
10,700.0	5.02	70.53	10,663.2	281.2	795.2	-127.2	0.00	0.00	0.00
10,800.0	5.02	70.53	10,762.8	284.1	803.5	-128.5	0.00	0.00	0.00
10,900.0	5.02	70.53	10,862.4	287.0	811.8	-129.8	0.00	0.00	0.00
11,000.0	5.02	70.53	10,962.1	290.0	820.0	-131.2	0.00	0.00	0.00
11,100.0	5.02	70.53	11,061.7	292.9	828.3	-132.5	0.00	0.00	0.00
11,200.0	5.02	70.53	11,161.3	295.8	836.5	-133.8	0.00	0.00	0.00
11,300.0	5.02	70.53	11,260.9	298.7	844.8	-135.1	0.00	0.00	0.00
11,400.0	5.02	70.53	11,360.5	301.6	853.0	-136.4	0.00	0.00	0.00
11,500.0	5.02	70.53	11,460.1	304.6	861.3	-137.8	0.00	0.00	0.00
11,600.0	5.02	70.53	11,559.8	307.5	869.5	-139.1	0.00	0.00	0.00
11,656.0	5.02	70.53	11,615.5	309.1	874.2	-139.8	0.00	0.00	0.00
11,700.0	4.36	70.53	11,659.4	310.3	877.6	-140.4	1.50	-1.50	0.00
11,800.0	2.86	70.53	11,759.2	312.4	883.5	-141.3	1.50	-1.50	0.00
11,900.0	1.36	70.53	11,859.1	313.6	887.0	-141.9	1.50	-1.50	0.00
11,990.9	0.00	0.00	11,950.0	314.0	888.0	-142.0	1.50	-1.50	0.00
KOP: 10' FNL & 1310' FWL									
12,000.0	0.91	179.58	11,959.1	313.9	888.0	-142.0	10.00	10.00	0.00
12,100.0	10.91	179.58	12,058.5	303.6	888.1	-131.8	10.00	10.00	0.00
12,200.0	20.91	179.58	12,154.5	276.3	888.3	-104.9	10.00	10.00	0.00
12,300.0	30.91	179.58	12,244.3	232.6	888.6	-62.0	10.00	10.00	0.00
12,316.4	32.55	179.58	12,258.3	224.0	888.7	-53.5	10.00	10.00	0.00
FTP: 100' FNL & 1310' FWL									
12,400.0	40.91	179.58	12,325.2	174.1	889.0	-4.4	10.00	10.00	0.00
12,500.0	50.91	179.58	12,394.7	102.3	889.6	66.2	10.00	10.00	0.00
12,600.0	60.91	179.58	12,450.7	19.6	890.2	147.5	10.00	10.00	0.00
12,700.0	70.91	179.58	12,491.5	-71.5	890.8	237.2	10.00	10.00	0.00
12,800.0	80.91	179.58	12,515.8	-168.4	891.5	332.5	10.00	10.00	0.00
12,889.7	89.87	179.58	12,523.0	-257.7	892.2	420.3	10.00	10.00	0.00
LP: 578' FNL & 1310' FWL									
12,900.0	89.88	179.58	12,523.0	-268.0	892.3	430.5	0.04	0.04	0.00
13,000.0	89.88	179.58	12,523.2	-368.0	893.0	528.8	0.00	0.00	0.00
13,100.0	89.88	179.58	12,523.5	-468.0	893.8	627.2	0.00	0.00	0.00
13,200.0	89.88	179.58	12,523.7	-568.0	894.5	725.6	0.00	0.00	0.00
13,300.0	89.88	179.58	12,523.9	-668.0	895.2	823.9	0.00	0.00	0.00
13,400.0	89.88	179.58	12,524.1	-768.0	896.0	922.3	0.00	0.00	0.00
13,500.0	89.88	179.58	12,524.3	-868.0	896.7	1,020.7	0.00	0.00	0.00
13,600.0	89.88	179.58	12,524.5	-968.0	897.4	1,119.0	0.00	0.00	0.00
13,700.0	89.88	179.58	12,524.8	-1,068.0	898.2	1,217.4	0.00	0.00	0.00
13,800.0	89.88	179.58	12,525.0	-1,168.0	898.9	1,315.8	0.00	0.00	0.00
13,900.0	89.88	179.58	12,525.2	-1,268.0	899.6	1,414.1	0.00	0.00	0.00
14,000.0	89.88	179.58	12,525.4	-1,368.0	900.4	1,512.5	0.00	0.00	0.00
14,100.0	89.88	179.58	12,525.6	-1,468.0	901.1	1,610.8	0.00	0.00	0.00
14,200.0	89.88	179.58	12,525.9	-1,568.0	901.8	1,709.2	0.00	0.00	0.00
14,300.0	89.88	179.58	12,526.1	-1,668.0	902.6	1,807.6	0.00	0.00	0.00
14,400.0	89.88	179.58	12,526.3	-1,768.0	903.3	1,905.9	0.00	0.00	0.00
14,500.0	89.88	179.58	12,526.5	-1,868.0	904.0	2,004.3	0.00	0.00	0.00
14,600.0	89.88	179.58	12,526.7	-1,968.0	904.8	2,102.7	0.00	0.00	0.00
14,700.0	89.88	179.58	12,526.9	-2,068.0	905.5	2,201.0	0.00	0.00	0.00
14,800.0	89.88	179.58	12,527.2	-2,168.0	906.2	2,299.4	0.00	0.00	0.00
14,900.0	89.88	179.58	12,527.4	-2,268.0	907.0	2,397.8	0.00	0.00	0.00
14,948.0	89.88	179.58	12,527.5	-2,316.0	907.3	2,445.0	0.00	0.00	0.00
PPP2: 2638' FSL & 1310' FWL									

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<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)	
15,000.0	89.88	179.58	12,527.6	-2,368.0	907.7	2,496.1	0.00	0.00	0.00	
15,100.0	89.88	179.58	12,527.8	-2,468.0	908.5	2,594.5	0.00	0.00	0.00	
15,200.0	89.88	179.58	12,528.0	-2,568.0	909.2	2,692.8	0.00	0.00	0.00	
15,300.0	89.88	179.58	12,528.2	-2,668.0	909.9	2,791.2	0.00	0.00	0.00	
15,400.0	89.88	179.58	12,528.5	-2,768.0	910.7	2,889.6	0.00	0.00	0.00	
15,500.0	89.88	179.58	12,528.7	-2,868.0	911.4	2,987.9	0.00	0.00	0.00	
15,600.0	89.88	179.58	12,528.9	-2,967.9	912.1	3,086.3	0.00	0.00	0.00	
15,700.0	89.88	179.58	12,529.1	-3,067.9	912.9	3,184.7	0.00	0.00	0.00	
15,800.0	89.88	179.58	12,529.3	-3,167.9	913.6	3,283.0	0.00	0.00	0.00	
15,900.0	89.88	179.58	12,529.5	-3,267.9	914.3	3,381.4	0.00	0.00	0.00	
16,000.0	89.88	179.58	12,529.8	-3,367.9	915.1	3,479.8	0.00	0.00	0.00	
16,100.0	89.88	179.58	12,530.0	-3,467.9	915.8	3,578.1	0.00	0.00	0.00	
16,200.0	89.88	179.58	12,530.2	-3,567.9	916.5	3,676.5	0.00	0.00	0.00	
16,300.0	89.88	179.58	12,530.4	-3,667.9	917.3	3,774.8	0.00	0.00	0.00	
16,400.0	89.88	179.58	12,530.6	-3,767.9	918.0	3,873.2	0.00	0.00	0.00	
16,500.0	89.88	179.58	12,530.9	-3,867.9	918.7	3,971.6	0.00	0.00	0.00	
16,600.0	89.88	179.58	12,531.1	-3,967.9	919.5	4,069.9	0.00	0.00	0.00	
16,700.0	89.88	179.58	12,531.3	-4,067.9	920.2	4,168.3	0.00	0.00	0.00	
16,800.0	89.88	179.58	12,531.5	-4,167.9	921.0	4,266.7	0.00	0.00	0.00	
16,900.0	89.88	179.58	12,531.7	-4,267.9	921.7	4,365.0	0.00	0.00	0.00	
17,000.0	89.88	179.58	12,531.9	-4,367.9	922.4	4,463.4	0.00	0.00	0.00	
17,100.0	89.88	179.58	12,532.2	-4,467.9	923.2	4,561.8	0.00	0.00	0.00	
17,200.0	89.88	179.58	12,532.4	-4,567.9	923.9	4,660.1	0.00	0.00	0.00	
17,300.0	89.88	179.58	12,532.6	-4,667.9	924.6	4,758.5	0.00	0.00	0.00	
17,400.0	89.88	179.58	12,532.8	-4,767.9	925.4	4,856.8	0.00	0.00	0.00	
17,486.1	89.88	179.58	12,533.0	-4,854.0	926.0	4,941.5	0.00	0.00	0.00	
BHL: 100' FSL & 1310' FWL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL: 320' FNL & 420' FV - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	387,974.00	773,332.00	32.0644076	-103.5844205	
KOP: 10' FNL & 1310' FV - plan hits target center - Point	0.00	0.00	11,950.0	314.0	888.0	388,288.00	774,220.00	32.0652537	-103.5815471	
FTP: 100' FNL & 1310' F - plan hits target center - Point	0.00	0.00	12,258.3	224.0	888.7	388,198.00	774,220.66	32.0650063	-103.5815470	
LP: 578' FNL & 1310' FV - plan hits target center - Point	0.00	0.00	12,523.0	-257.7	892.2	387,716.30	774,224.20	32.0636822	-103.5815464	
PPP2: 2638' FSL & 1310' F - plan hits target center - Point	0.00	0.00	12,527.5	-2,316.0	907.3	385,658.00	774,239.34	32.0580242	-103.5815438	
BHL: 100' FSL & 1310' F - plan hits target center - Point	0.00	0.00	12,533.0	-4,854.0	926.0	383,120.00	774,258.00	32.0510475	-103.5815406	

## Planning Report

<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Salado Draw 9 W1DM Fed Com #4H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico NAD 83	<b>MD Reference:</b>	WELL @ 3353.0usft (Original Well Elev)
<b>Site:</b>	Salado Draw 9 W1DM Fed Com #4H	<b>North Reference:</b>	Grid
<b>Well:</b>	Sec 9, T26S, R33E	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	BHL: 100' FSL & 1310' FWL		
<b>Design:</b>	Design #1		

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

**1. Geologic Formations**

<b>TVD of target</b>	<b>12533'</b>	Pilot hole depth	NA
<b>MD at TD:</b>	<b>17486'</b>	Deepest expected fresh water:	<b>260'</b>

**Basin**

<b>Formation</b>	<b>Depth (TVD) from KB</b>	<b>Water/Mineral Bearing/ Target Zone?</b>	<b>Hazards*</b>
Quaternary Fill	Surface		
Rustler	845		
Top of Salt	1216		
Castile			
Base of Salt	4680		
Lamar	4910	Oil/Gas	
Bell Canyon	4840	Oil/Gas	
Cherry Canyon	6040	Oil/Gas	
Manzanita Marker	6189		
Brushy Canyon		Oil/Gas	
Bone Spring	8960	Oil/Gas	
1 <sup>st</sup> Bone Spring Sand	9965	Oil/Gas	
2 <sup>nd</sup> Bone Spring Sand	10520	Oil/Gas	
3 <sup>rd</sup> Bone Spring Sand	11605	Oil/Gas	
Abo			
Wolfcamp	11965	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

**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'	900'	13.375"	48	H40	STC	1.87	4.20	7.45	12.52
12.25"	0'	4875'	9.625"	40	L80	LTC	1.22	2.27	3.73	4.70
8.75"	0'	12700'	7"	29	HCP110	LTC	1.49	1.82	2.16	2.52
6.125"	1199 1'	17486'	4.5"	13.5	P110	LTC	1.37	1.59	4.56	5.69
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



**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

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?	

### 3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H <sub>2</sub> O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	470	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.	770	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	360	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 @ 6200'						
Prod. Stg 2	70	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	220	11.2	2.97	18	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.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4675'	25%
Liner	11991'	25%

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

#### 4. Pressure Control Equipment

<b>Y</b>	Variance: A variance is requested for use of a 5000 psi annular BOP with the 10,000 psi BOP stack. Please see attached description and procedure.
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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	10,000#
			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

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
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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.

<b>X</b>	Formation integrity test will be performed per Onshore Order #2. 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.
<b>Y</b>	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.
<b>N</b>	Are anchors required by manufacturer?
<b>Y</b>	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.  <ul style="list-style-type: none"> <li>Provide description here: See attached schematic.</li> </ul>

## 5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	900	FW Gel	8.6-8.8	28-34	N/C
900	4875	Saturated Brine	10.0	28-34	N/C
4875	12492	Cut Brine	8.6-9.7	28-34	N/C
12492	12533	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. Mud weight up to 13.0 ppg may be required for shale control. The highest mud weight needed to balance formation is expected to be 12.0 ppg.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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## 6. Logging and Testing Procedures

Logging, Coring and Testing.	
<b>X</b>	Will run GR/CNL from KOP (11991') to surface (horizontal well – vertical portion of

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

	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	11991' (KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

## 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7821 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

**Mewbourne Oil Company**  
**Salado Draw 9 W1DM Fed Com #4H**  
**Sec 9, T26S, R33E**  
**SL: 320' FNL & 420' FWL**  
**BHL: 100' FSL & 1310' FWL**

**8. 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

Intent ☒ As Drilled ☐

API #

Operator Name: Mewbourne Oil Co.	Property Name: Salado Draw 9 W1DM Fed Com	Well Number 4H
-------------------------------------	--	-------------------

Kick Off Point (KOP)

UL D	Section 9	Township 26S	Range 33E	Lot	Feet 10	From N/S N	Feet 1310	From E/W W	County Lea
Latitude 32.0652537					Longitude -103.5815471			NAD 83	

First Take Point (FTP)

UL D	Section 9	Township 26S	Range 33E	Lot	Feet 100	From N/S N	Feet 1310	From E/W W	County Lea
Latitude 32.0652537					Longitude -103.5815471			NAD 83	

Last Take Point (LTP)

UL M	Section 9	Township 26S	Range 33E	Lot	Feet 100	From N/S S	Feet 1310	From E/W W	County Lea
Latitude 32.0510475					Longitude -103.5815406			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☒

Is this well an infill well? ☐

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

API #

Operator Name:	Property Name:	Well Number
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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

OCD - HOBBS  
11/19/2020  
RECEIVED

## GAS CAPTURE PLAN

Date: 11-27-19

☒ 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
Salado Draw 9 W1DM Fed Com #4H	<b>30-025-48041</b>	D - 9 -T26S-R33E	320' FNL & 420' FWL	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 3,400 ' 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