

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

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input 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 type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No. 3001547968
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
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	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
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.

Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

Will require a directional survey with the C-104

SL

(Continued on page 2)

Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water

APPROVED WITH CONDITIONS
Approval Date: 09/21/2020

KP GEO Review 1/22/2020

*(Instructions on page 2)

Entered - KMS NMOC

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

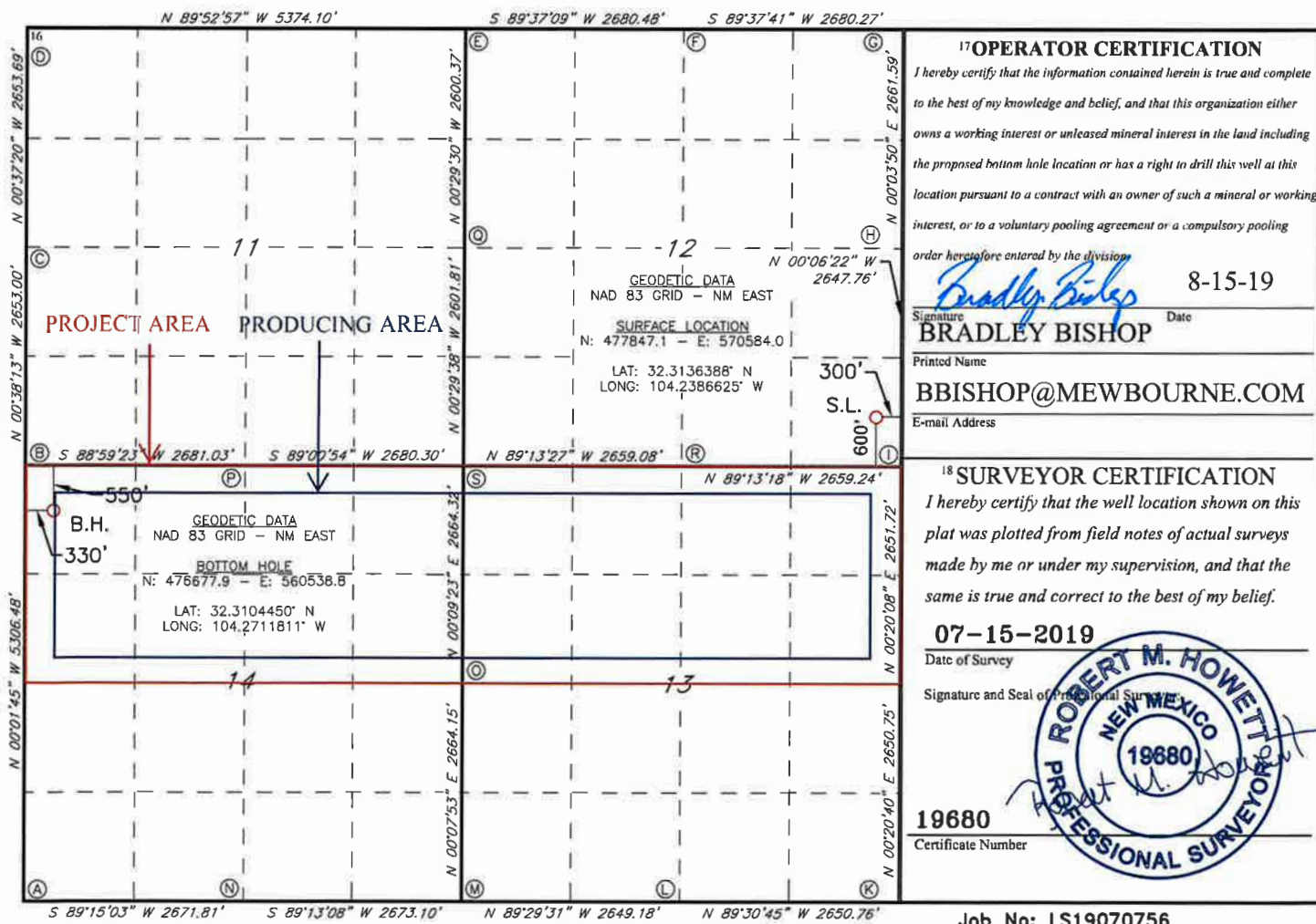
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3001547968		² Pool Code 98220		³ Pool Name PURPLE SAGE - WOLFCAMP	
⁴ Property Code 329993		⁵ Property Name AIRBOSS 13/14 WOAD FED COM			⁶ Well Number 1H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3225
¹⁰ Surface Location					
UL or lot no. P	Section 12	Township 23S	Range 26E	Lot Idn 600	Feet from the SOUTH
				Feet From the 300	East/West line EAST
				County EDDY	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. L	Section 14	Township 23S	Range 26E	Lot Idn 550	Feet from the NORTH
				Feet from the 330	East/West line WEST
				County EDDY	
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ 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.



¹⁷ OPERATOR CERTIFICATION
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.

Signature: *Bradley Bishop* Date: **8-15-19**
Printed Name: **BRADLEY BISHOP**
E-mail Address: **BBISHOP@MEWBOURNE.COM**

¹⁸ SURVEYOR CERTIFICATION
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.

Date of Survey: **07-15-2019**
Signature and Seal of Professional Surveyor: *Robert M. Howett*
Certificate Number: **19680**

Job No: LS19070756

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMNM0027994D
WELL NAME & NO.:	Airboss 13-14 W0AD Fed Com 1H
SURFACE HOLE FOOTAGE:	600'/S & 300'/E
BOTTOM HOLE FOOTAGE:	550'/N & 330'/W
LOCATION:	Section 12, T.23 S., R.26 E., NMP
COUNTY:	EDDY County, New Mexico

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 **475** 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 minimum required fill of cement behind the **9-5/8** inch intermediate casing which shall be set at approximately **1835** feet is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In 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 6%, additional cement might be required.

Option 2:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:

Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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 2nd 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.

OTA09142020

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¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE - WOLFCAMP					
⁴ Property Code		⁵ Property Name AIRBOSS 13/14 WOAD FED COM						⁶ Well Number 1H	
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY						⁹ Elevation 3225	
¹⁰ Surface Location									
UL or lot no. P	Section 12	Township 23S	Range 26E	Lot Idn	Feet from the 600	North/South line SOUTH	Feet from the 300	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. L	Section 14	Township 23S	Range 26E	Lot Idn	Feet from the 550	North/South line NORTH	Feet from the 330	East/West line WEST	County EDDY
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.

¹⁶ <p style="text-align: center;">CORNER DATA NAD 83 GRID - NM EAST</p> <table border="0"> <tr> <td>A: FOUND BRASS CAP "1943" N: 471916.4 - E: 560211.3</td> <td>K: FOUND BRASS CAP "1943" N: 471941.7 - E: 570853.5</td> </tr> <tr> <td>B: FOUND BRASS CAP "1943" N: 477221.9 - E: 560208.6</td> <td>L: FOUND BRASS CAP "1943" N: 471964.3 - E: 568203.4</td> </tr> <tr> <td>C: FOUND BRASS CAP "1943" N: 479874.3 - E: 560179.1</td> <td>M: FOUND BRASS CAP "1943" N: 471987.8 - E: 565554.8</td> </tr> <tr> <td>D: FOUND BRASS CAP "1943" N: 482527.3 - E: 560150.3</td> <td>N: FOUND BRASS CAP "1943" N: 471951.3 - E: 562882.4</td> </tr> <tr> <td>E: FOUND BRASS CAP "1943" N: 482516.3 - E: 565523.4</td> <td>O: FOUND BRASS CAP "1943" N: 474651.4 - E: 565560.9</td> </tr> <tr> <td>F: FOUND BRASS CAP "1943" N: 482534.1 - E: 568203.4</td> <td>P: FOUND BRASS CAP "1943" N: 477269.2 - E: 562888.7</td> </tr> <tr> <td>G: FOUND BRASS CAP "1943" N: 482551.5 - E: 570883.1</td> <td>Q: FOUND BRASS CAP "1943" N: 479916.5 - E: 565545.7</td> </tr> <tr> <td>H: FOUND BRASS CAP "1943" N: 479890.4 - E: 570880.1</td> <td>R: FOUND BRASS CAP "1943" N: 477279.3 - E: 568226.5</td> </tr> <tr> <td>I: FOUND BRASS CAP "1943" N: 477243.2 - E: 570885.0</td> <td>S: FOUND BRASS CAP "1943" N: 477315.3 - E: 565568.1</td> </tr> <tr> <td>J: FOUND BRASS CAP "1943" N: 474592.0 - E: 570869.5</td> <td></td> </tr> </table>		A: FOUND BRASS CAP "1943" N: 471916.4 - E: 560211.3	K: FOUND BRASS CAP "1943" N: 471941.7 - E: 570853.5	B: FOUND BRASS CAP "1943" N: 477221.9 - E: 560208.6	L: FOUND BRASS CAP "1943" N: 471964.3 - E: 568203.4	C: FOUND BRASS CAP "1943" N: 479874.3 - E: 560179.1	M: FOUND BRASS CAP "1943" N: 471987.8 - E: 565554.8	D: FOUND BRASS CAP "1943" N: 482527.3 - E: 560150.3	N: FOUND BRASS CAP "1943" N: 471951.3 - E: 562882.4	E: FOUND BRASS CAP "1943" N: 482516.3 - E: 565523.4	O: FOUND BRASS CAP "1943" N: 474651.4 - E: 565560.9	F: FOUND BRASS CAP "1943" N: 482534.1 - E: 568203.4	P: FOUND BRASS CAP "1943" N: 477269.2 - E: 562888.7	G: FOUND BRASS CAP "1943" N: 482551.5 - E: 570883.1	Q: FOUND BRASS CAP "1943" N: 479916.5 - E: 565545.7	H: FOUND BRASS CAP "1943" N: 479890.4 - E: 570880.1	R: FOUND BRASS CAP "1943" N: 477279.3 - E: 568226.5	I: FOUND BRASS CAP "1943" N: 477243.2 - E: 570885.0	S: FOUND BRASS CAP "1943" N: 477315.3 - E: 565568.1	J: FOUND BRASS CAP "1943" N: 474592.0 - E: 570869.5		¹⁷ OPERATOR CERTIFICATION <p><i>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.</i></p> <p>Signature <u>Bradley Bishop</u> Date <u>8-15-19</u> Printed Name <u>BRADLEY BISHOP</u> E-mail Address <u>BBISHOP@MEWBOURNE.COM</u></p> ¹⁸ SURVEYOR CERTIFICATION <p><i>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.</i></p> <p><u>07-15-2019</u> Date of Survey Signature and Seal of Professional Surveyor <u>Robert M. Howett</u> 19680 Certificate Number</p>
A: FOUND BRASS CAP "1943" N: 471916.4 - E: 560211.3	K: FOUND BRASS CAP "1943" N: 471941.7 - E: 570853.5																					
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Job No: LS19070756

APD ID: 10400045956

Submission Date: 09/18/2019

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
516361	UNKNOWN	3225	27	27	OTHER : Topsoil	NONE	N
516365	TOP SALT	2635	590	590	SALT	NONE	N
516362	BOTTOM SALT	1555	1670	1670	SALT	NONE	N
516366	LAMAR	1315	1910	1910	LIMESTONE	NATURAL GAS, OIL	N
516367	BELL CANYON	1195	2030	2030	SANDSTONE	NATURAL GAS, OIL	N
516368	CHERRY CANYON	545	2680	2680	SANDSTONE	NATURAL GAS, OIL	N
516369	MANZANITA	442	2783	2783	LIMESTONE	NATURAL GAS, OIL	N
516370	BRUSHY CANYON	-835	4060	4060	SANDSTONE	NATURAL GAS, OIL	N
516360	BONE SPRING LIME	-2105	5330	5330	LIMESTONE, SHALE	NATURAL GAS, OIL	N
516363	BONE SPRING 1ST	-3125	6350	6350	SANDSTONE	NATURAL GAS, OIL	N
516364	BONE SPRING 2ND	-3615	6840	6840	SANDSTONE	NATURAL GAS, OIL	N
516371	BONE SPRING 3RD	-3835	7060	7060	SANDSTONE	NATURAL GAS, OIL	N
516372	WOLFCAMP	-5575	8800	8800	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Pressure Rating (PSI): 5M

Rating Depth: 19116

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Anchors aren't required by manufacturer. A multi-bowl wellhead is being 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.

Choke Diagram Attachment:

Airboss_13_14_W0AD_Fed_Com_1H_Flex_Line_Specs_20190918110814.pdf

Airboss_13_14_W0AD_Fed_Com_1H_5M_BOPE_Choke_Diagram_20190918110814.pdf

Airboss_13_14_W0AD_Fed_Com_1H_Flex_Line_Specs_API_16C_20190918110815.pdf

BOP Diagram Attachment:

Airboss_13_14_W0AD_Fed_Com_1H_Multi_Bowl_WH_20190918110826.pdf

Airboss_13_14_W0AD_Fed_Com_1H_5M_BOPE_Schematic_20190918110826.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	475	0	475	3225	2750	475	H-40	48	ST&C	3.46	7.78	DRY	14.12	DRY	23.73
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	1835	0	1835	3208	1390	1835	J-55	36	LT&C	2.12	3.69	DRY	6.86	DRY	8.54
3	PRODUCTION	8.75	7.0	NEW	API	N	0	9098	0	9098	3208	-5873	9098	P-110	26	LT&C	1.7	2.25	DRY	2.93	DRY	3.51
4	LINER	6.125	4.5	NEW	API	N	8510	19116	8396	8873	-5171	-5648	10606	P-110	13.5	LT&C	1.78	2.07	DRY	2.36	DRY	2.95

Casing Attachments

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Airboss_13_14_W0AD_Fed_Com_1H_Csg_Assumptions_20190918111038.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Airboss_13_14_W0AD_Fed_Com_1H_Csg_Assumptions_20190918111119.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Airboss_13_14_W0AD_Fed_Com_1H_Csg_Assumptions_20190918111307.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Casing Attachments

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Airboss_13_14_W0AD_Fed_Com_1H_Csg_Assumptions_20190918111429.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	285	190	2.12	12.5	403	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		285	475	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	1192	235	2.12	12.5	498	25	Class C	Salt, Gel, Extender, LCM
INTERMEDIATE	Tail		1192	1835	200	1.34	14.8	268	25	Class C	Retarder
PRODUCTION	Lead	2783	1635	2267	60	2.12	12.5	127	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		2267	2783	100	1.34	14.8	134	25	Class C	Retarder
PRODUCTION	Lead	2783	2783	6599	340	2.12	12.5	721	25	Class C	Gel, Retarder, Defoamer, Extender
PRODUCTION	Tail		6599	9098	400	1.18	15.6	472	25	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		8510	19116	425	2.97	11.2	1262	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

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	475	SPUD MUD	8.6	8.8							
475	1835	SALT SATURATED	10	10							
1835	8818	WATER-BASED MUD	8.6	9.5							
8818	8873	OIL-BASED MUD	10	12							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL from KOP (8510') to surface

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,

Coring operation description for the well:

None

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5537

Anticipated Surface Pressure: 3589

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Airboss_13_14_W0AD_Fed_Com_1H_H2S_Plan_20190918122500.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Airboss_13_14_W0AD_Fed_Com_1H_Dir_Plot_20190918122750.pdf

Airboss_13_14_W0AD_Fed_Com_1H_Dir_Plan_20190918122750.pdf

Other proposed operations facets description:

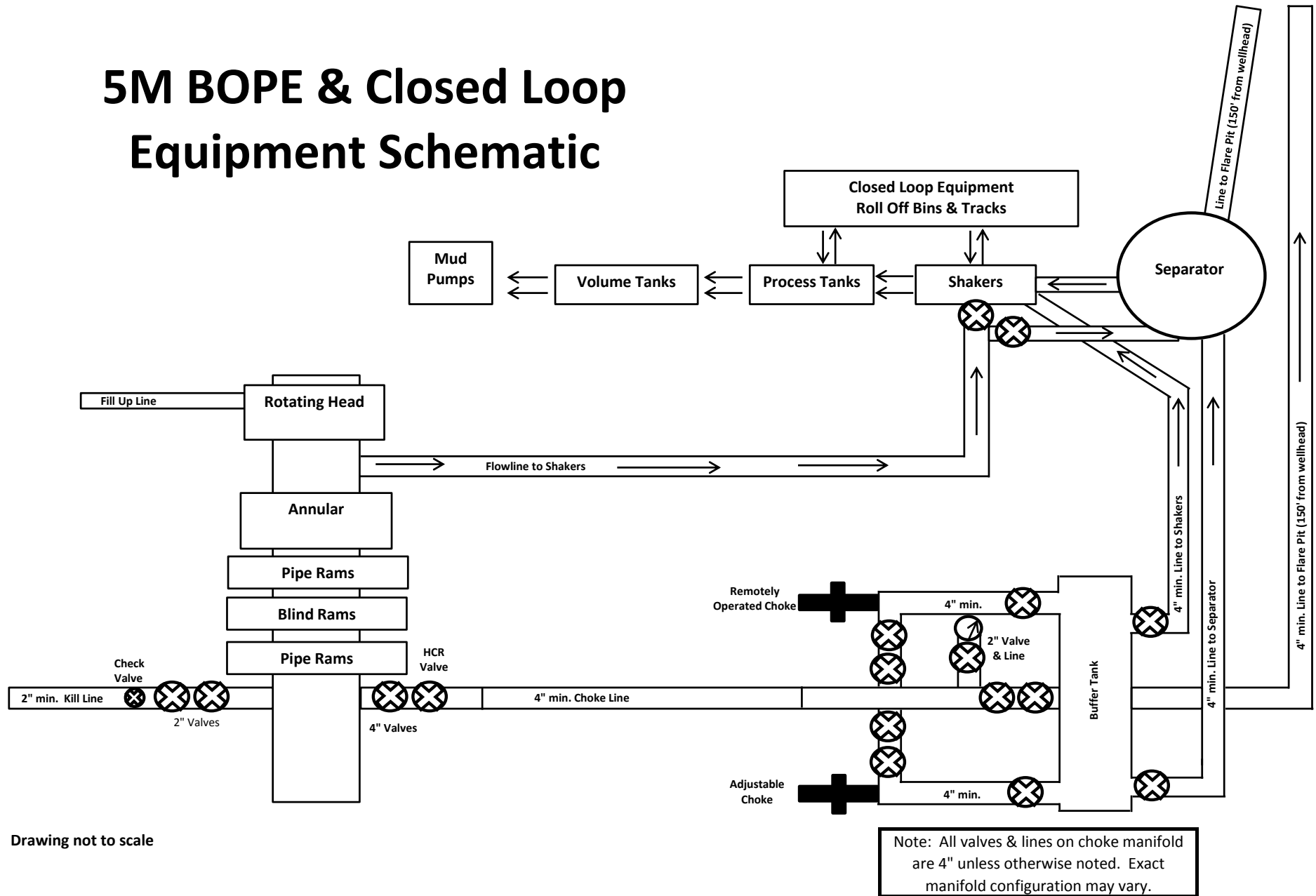
Other proposed operations facets attachment:

Airboss_13_14_W0AD_Fed_Com_1H_Drlg_Program_20190918122806.doc

Airboss_13_14_W0AD_Fed_Com_1H_Add_Info_20190918123014.pdf

Other Variance attachment:

5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale



GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX 77086

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

10K CHOKE & KILL ASSEMBLY PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	8/20/2018
Customer Ref.:	4101901	Hose Serial No.:	H-082018-10
Invoice No.:	511956	Created By:	Moose Naqvi
Product Description:	10KF3.035.0CK41/1610KFLGFXDxFLT L/E		
End Fitting 1:	4 1/16 in. Fixed Flange	End Fitting 2:	4 1/16 in. Float Flange
Gates Part No.:	68503010-9721632	Assembly Code:	L40695052218H-082018-10
Working Pressure:	10,000 psi.	Test Pressure:	15,000 psi.

Gates Engineering & Services North America certifies that the following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements.

Quality: QUALITY
Date : 8/20/2018
Signature : *Moose Naqvi*

Production: PRODUCTION
Date : 8/20/2018
Signature : *[Signature]*

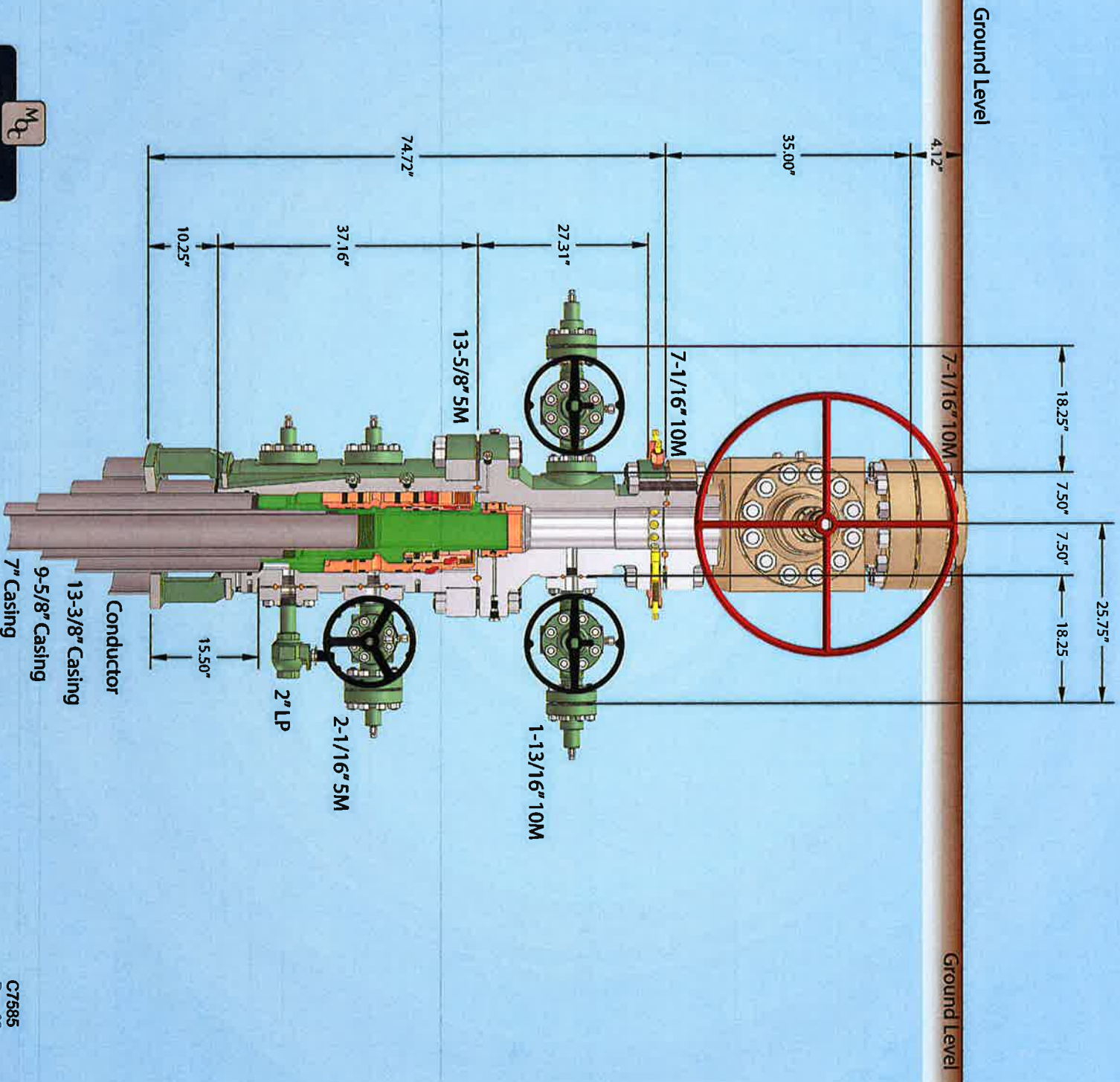
Form PTC - 01 Rev.0 2





CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



MEMBOURNE
OIL COMPANY

MOC

C7585

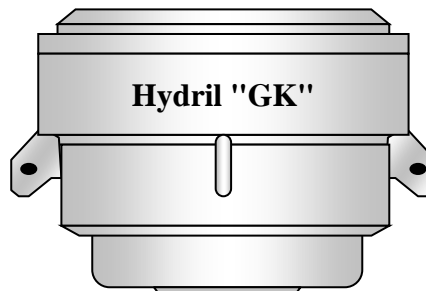
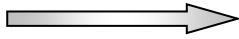
Rev. 02

NOTE: All dimensions on this drawing are estimated measurements and should be evaluated by engineering.

Engineering 537' conductor cut-off

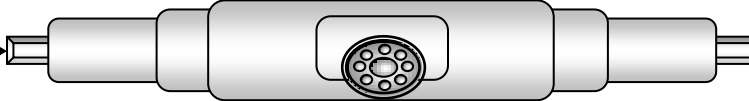
79

Hydril "GK"
13 5/8" 5M

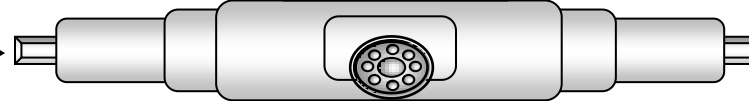


Hydril "GK"

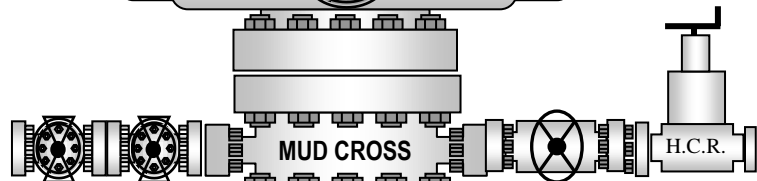
Cameron Type U
13 5/8" 5M



4 1/2" x 5 7/8" VBR



BLIND RAMS



MUD CROSS

H.C.R.



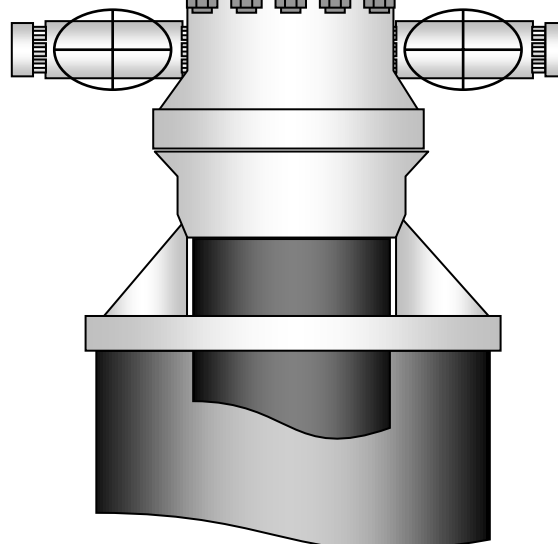
7" RAMS



13 5/8" 5M

13 5/8" 5M

13 5/8" 5M



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 H₂S were found. MOC will have on location and working all H₂S 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 H₂S 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 H₂S 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.

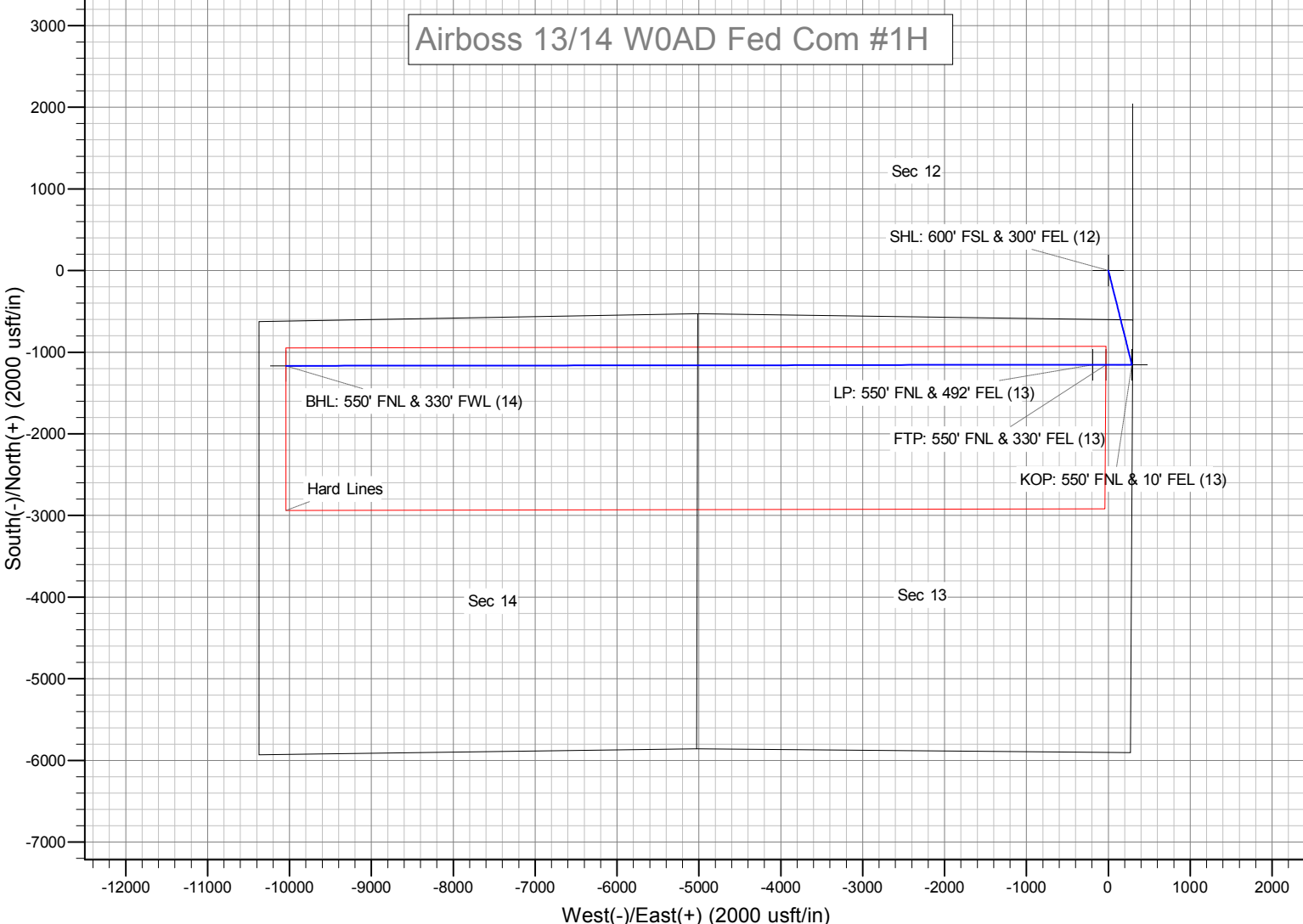
8. Emergency Phone Numbers

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

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

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

Airboss 13/14 W0AD Fed Com #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Airboss 13/14 W0AD Fed Com #1H

Sec 12, T23S, R26E

SHL: 600' FSL & 300' FEL, Sec 12

BHL: 550' FNL & 330' FWL, Sec 14

Plan: Design #1

Standard Planning Report

09 August, 2019

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

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

Site		Airboss 13/14 W0AD Fed Com #1H			
Site Position:		Northing:	477,847.00 usft	Latitude:	32.3136387
From:	Map	Easting:	570,584.00 usft	Longitude:	-104.2386625
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.05 °

Well	Sec 12, T23S, R26E					
Well Position	+N/-S	0.0 usft	Northing:	477,847.00 usft	Latitude:	32.3136387
	+E/-W	0.0 usft	Easting:	570,584.00 usft	Longitude:	-104.2386625
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,252.0 usft	Ground Level:	3,225.0 usft

Wellbore	BHL: 550' FNL & 330' FWL, Sec 14				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/9/2019	6.90	59.96	47,789

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	263.36

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,910.0	0.00	0.00	1,910.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,478.5	11.37	165.99	2,474.7	-54.5	13.6	2.00	2.00	0.00	165.99	
7,941.7	11.37	165.99	7,830.8	-1,099.5	274.4	0.00	0.00	0.00	0.00	
8,510.2	0.00	0.00	8,395.5	-1,154.0	288.0	2.00	-2.00	0.00	180.00	KOP: 550' FNL & 10' I
9,262.9	90.32	269.92	8,873.0	-1,154.7	-192.1	12.00	12.00	0.00	-90.08	
19,115.9	90.32	269.92	8,818.0	-1,169.0	-10,045.0	0.00	0.00	0.00	0.00	BHL: 550' FNL & 330'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 600' FSL & 300' FEL (12)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,910.0	0.00	0.00	1,910.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	1.80	165.99	2,000.0	-1.4	0.3	-0.2	2.00	2.00	0.00
2,100.0	3.80	165.99	2,099.9	-6.1	1.5	-0.8	2.00	2.00	0.00
2,200.0	5.80	165.99	2,199.5	-14.2	3.6	-1.9	2.00	2.00	0.00
2,300.0	7.80	165.99	2,298.8	-25.7	6.4	-3.4	2.00	2.00	0.00
2,400.0	9.80	165.99	2,397.6	-40.6	10.1	-5.4	2.00	2.00	0.00
2,478.5	11.37	165.99	2,474.7	-54.5	13.6	-7.2	2.00	2.00	0.00
2,500.0	11.37	165.99	2,495.9	-58.7	14.6	-7.8	0.00	0.00	0.00
2,600.0	11.37	165.99	2,593.9	-77.8	19.4	-10.3	0.00	0.00	0.00
2,700.0	11.37	165.99	2,691.9	-96.9	24.2	-12.8	0.00	0.00	0.00
2,800.0	11.37	165.99	2,790.0	-116.0	29.0	-15.4	0.00	0.00	0.00
2,900.0	11.37	165.99	2,888.0	-135.2	33.7	-17.9	0.00	0.00	0.00
3,000.0	11.37	165.99	2,986.0	-154.3	38.5	-20.4	0.00	0.00	0.00
3,100.0	11.37	165.99	3,084.1	-173.4	43.3	-22.9	0.00	0.00	0.00
3,200.0	11.37	165.99	3,182.1	-192.5	48.1	-25.5	0.00	0.00	0.00
3,300.0	11.37	165.99	3,280.2	-211.7	52.8	-28.0	0.00	0.00	0.00
3,400.0	11.37	165.99	3,378.2	-230.8	57.6	-30.5	0.00	0.00	0.00
3,500.0	11.37	165.99	3,476.2	-249.9	62.4	-33.1	0.00	0.00	0.00
3,600.0	11.37	165.99	3,574.3	-269.1	67.1	-35.6	0.00	0.00	0.00
3,700.0	11.37	165.99	3,672.3	-288.2	71.9	-38.1	0.00	0.00	0.00
3,800.0	11.37	165.99	3,770.3	-307.3	76.7	-40.7	0.00	0.00	0.00
3,900.0	11.37	165.99	3,868.4	-326.4	81.5	-43.2	0.00	0.00	0.00
4,000.0	11.37	165.99	3,966.4	-345.6	86.2	-45.7	0.00	0.00	0.00
4,100.0	11.37	165.99	4,064.5	-364.7	91.0	-48.2	0.00	0.00	0.00
4,200.0	11.37	165.99	4,162.5	-383.8	95.8	-50.8	0.00	0.00	0.00
4,300.0	11.37	165.99	4,260.5	-402.9	100.6	-53.3	0.00	0.00	0.00
4,400.0	11.37	165.99	4,358.6	-422.1	105.3	-55.8	0.00	0.00	0.00
4,500.0	11.37	165.99	4,456.6	-441.2	110.1	-58.4	0.00	0.00	0.00
4,600.0	11.37	165.99	4,554.6	-460.3	114.9	-60.9	0.00	0.00	0.00
4,700.0	11.37	165.99	4,652.7	-479.4	119.7	-63.4	0.00	0.00	0.00
4,800.0	11.37	165.99	4,750.7	-498.6	124.4	-66.0	0.00	0.00	0.00
4,900.0	11.37	165.99	4,848.8	-517.7	129.2	-68.5	0.00	0.00	0.00
5,000.0	11.37	165.99	4,946.8	-536.8	134.0	-71.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	11.37	165.99	5,044.8	-555.9	138.7	-73.5	0.00	0.00	0.00
5,200.0	11.37	165.99	5,142.9	-575.1	143.5	-76.1	0.00	0.00	0.00
5,300.0	11.37	165.99	5,240.9	-594.2	148.3	-78.6	0.00	0.00	0.00
5,400.0	11.37	165.99	5,338.9	-613.3	153.1	-81.1	0.00	0.00	0.00
5,500.0	11.37	165.99	5,437.0	-632.4	157.8	-83.7	0.00	0.00	0.00
5,600.0	11.37	165.99	5,535.0	-651.6	162.6	-86.2	0.00	0.00	0.00
5,700.0	11.37	165.99	5,633.1	-670.7	167.4	-88.7	0.00	0.00	0.00
5,800.0	11.37	165.99	5,731.1	-689.8	172.2	-91.3	0.00	0.00	0.00
5,900.0	11.37	165.99	5,829.1	-709.0	176.9	-93.8	0.00	0.00	0.00
6,000.0	11.37	165.99	5,927.2	-728.1	181.7	-96.3	0.00	0.00	0.00
6,100.0	11.37	165.99	6,025.2	-747.2	186.5	-98.9	0.00	0.00	0.00
6,200.0	11.37	165.99	6,123.3	-766.3	191.3	-101.4	0.00	0.00	0.00
6,300.0	11.37	165.99	6,221.3	-785.5	196.0	-103.9	0.00	0.00	0.00
6,400.0	11.37	165.99	6,319.3	-804.6	200.8	-106.4	0.00	0.00	0.00
6,500.0	11.37	165.99	6,417.4	-823.7	205.6	-109.0	0.00	0.00	0.00
6,600.0	11.37	165.99	6,515.4	-842.8	210.3	-111.5	0.00	0.00	0.00
6,700.0	11.37	165.99	6,613.4	-862.0	215.1	-114.0	0.00	0.00	0.00
6,800.0	11.37	165.99	6,711.5	-881.1	219.9	-116.6	0.00	0.00	0.00
6,900.0	11.37	165.99	6,809.5	-900.2	224.7	-119.1	0.00	0.00	0.00
7,000.0	11.37	165.99	6,907.6	-919.3	229.4	-121.6	0.00	0.00	0.00
7,100.0	11.37	165.99	7,005.6	-938.5	234.2	-124.2	0.00	0.00	0.00
7,200.0	11.37	165.99	7,103.6	-957.6	239.0	-126.7	0.00	0.00	0.00
7,300.0	11.37	165.99	7,201.7	-976.7	243.8	-129.2	0.00	0.00	0.00
7,400.0	11.37	165.99	7,299.7	-995.8	248.5	-131.7	0.00	0.00	0.00
7,500.0	11.37	165.99	7,397.7	-1,015.0	253.3	-134.3	0.00	0.00	0.00
7,600.0	11.37	165.99	7,495.8	-1,034.1	258.1	-136.8	0.00	0.00	0.00
7,700.0	11.37	165.99	7,593.8	-1,053.2	262.8	-139.3	0.00	0.00	0.00
7,800.0	11.37	165.99	7,691.9	-1,072.4	267.6	-141.9	0.00	0.00	0.00
7,900.0	11.37	165.99	7,789.9	-1,091.5	272.4	-144.4	0.00	0.00	0.00
7,941.7	11.37	165.99	7,830.8	-1,099.5	274.4	-145.5	0.00	0.00	0.00
8,000.0	10.20	165.99	7,888.0	-1,110.0	277.0	-146.9	2.00	-2.00	0.00
8,100.0	8.20	165.99	7,986.8	-1,125.6	280.9	-148.9	2.00	-2.00	0.00
8,200.0	6.20	165.99	8,086.0	-1,137.7	283.9	-150.5	2.00	-2.00	0.00
8,300.0	4.20	165.99	8,185.5	-1,146.5	286.1	-151.7	2.00	-2.00	0.00
8,400.0	2.20	165.99	8,285.4	-1,151.9	287.5	-152.4	2.00	-2.00	0.00
8,500.0	0.20	165.99	8,385.4	-1,154.0	288.0	-152.7	2.00	-2.00	0.00
8,510.2	0.00	0.00	8,395.5	-1,154.0	288.0	-152.7	2.00	-2.00	0.00
KOP: 550' FNL & 10' FEL (13)									
8,600.0	10.78	269.92	8,484.8	-1,154.0	279.6	-144.3	12.00	12.00	0.00
8,700.0	22.78	269.92	8,580.4	-1,154.1	250.8	-115.7	12.00	12.00	0.00
8,800.0	34.78	269.92	8,667.9	-1,154.1	202.7	-67.9	12.00	12.00	0.00
8,900.0	46.78	269.92	8,743.5	-1,154.2	137.5	-3.2	12.00	12.00	0.00
9,000.0	58.78	269.92	8,803.8	-1,154.3	58.0	75.8	12.00	12.00	0.00
9,097.6	70.49	269.92	8,845.6	-1,154.5	-30.0	163.3	12.00	12.00	0.00
FTP: 550' FNL & 330' FEL (13)									
9,100.0	70.78	269.92	8,846.4	-1,154.5	-32.3	165.5	12.00	12.00	0.00
9,200.0	82.78	269.92	8,869.2	-1,154.6	-129.4	262.0	12.00	12.00	0.00
9,262.8	90.32	269.92	8,873.0	-1,154.7	-192.1	324.3	12.00	12.00	0.00
LP: 550' FNL & 492' FEL (13)									
9,300.0	90.32	269.92	8,872.8	-1,154.8	-229.3	361.2	0.01	0.01	0.00
9,400.0	90.32	269.92	8,872.2	-1,154.9	-329.3	460.6	0.00	0.00	0.00
9,500.0	90.32	269.92	8,871.7	-1,155.0	-429.3	559.9	0.00	0.00	0.00
9,600.0	90.32	269.92	8,871.1	-1,155.2	-529.3	659.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	90.32	269.92	8,870.6	-1,155.3	-629.3	758.6	0.00	0.00	0.00
9,800.0	90.32	269.92	8,870.0	-1,155.5	-729.3	857.9	0.00	0.00	0.00
9,900.0	90.32	269.92	8,869.4	-1,155.6	-829.3	957.3	0.00	0.00	0.00
10,000.0	90.32	269.92	8,868.9	-1,155.8	-929.3	1,056.6	0.00	0.00	0.00
10,100.0	90.32	269.92	8,868.3	-1,155.9	-1,029.3	1,156.0	0.00	0.00	0.00
10,200.0	90.32	269.92	8,867.8	-1,156.1	-1,129.3	1,255.3	0.00	0.00	0.00
10,300.0	90.32	269.92	8,867.2	-1,156.2	-1,229.3	1,354.7	0.00	0.00	0.00
10,400.0	90.32	269.92	8,866.7	-1,156.3	-1,329.3	1,454.0	0.00	0.00	0.00
10,500.0	90.32	269.92	8,866.1	-1,156.5	-1,429.3	1,553.4	0.00	0.00	0.00
10,600.0	90.32	269.92	8,865.5	-1,156.6	-1,529.3	1,652.7	0.00	0.00	0.00
10,700.0	90.32	269.92	8,865.0	-1,156.8	-1,629.3	1,752.0	0.00	0.00	0.00
10,800.0	90.32	269.92	8,864.4	-1,156.9	-1,729.2	1,851.4	0.00	0.00	0.00
10,900.0	90.32	269.92	8,863.9	-1,157.1	-1,829.2	1,950.7	0.00	0.00	0.00
11,000.0	90.32	269.92	8,863.3	-1,157.2	-1,929.2	2,050.1	0.00	0.00	0.00
11,100.0	90.32	269.92	8,862.7	-1,157.4	-2,029.2	2,149.4	0.00	0.00	0.00
11,200.0	90.32	269.92	8,862.2	-1,157.5	-2,129.2	2,248.8	0.00	0.00	0.00
11,300.0	90.32	269.92	8,861.6	-1,157.7	-2,229.2	2,348.1	0.00	0.00	0.00
11,400.0	90.32	269.92	8,861.1	-1,157.8	-2,329.2	2,447.5	0.00	0.00	0.00
11,500.0	90.32	269.92	8,860.5	-1,157.9	-2,429.2	2,546.8	0.00	0.00	0.00
11,600.0	90.32	269.92	8,860.0	-1,158.1	-2,529.2	2,646.2	0.00	0.00	0.00
11,700.0	90.32	269.92	8,859.4	-1,158.2	-2,629.2	2,745.5	0.00	0.00	0.00
11,800.0	90.32	269.92	8,858.8	-1,158.4	-2,729.2	2,844.8	0.00	0.00	0.00
11,900.0	90.32	269.92	8,858.3	-1,158.5	-2,829.2	2,944.2	0.00	0.00	0.00
12,000.0	90.32	269.92	8,857.7	-1,158.7	-2,929.2	3,043.5	0.00	0.00	0.00
12,100.0	90.32	269.92	8,857.2	-1,158.8	-3,029.2	3,142.9	0.00	0.00	0.00
12,200.0	90.32	269.92	8,856.6	-1,159.0	-3,129.2	3,242.2	0.00	0.00	0.00
12,300.0	90.32	269.92	8,856.0	-1,159.1	-3,229.2	3,341.6	0.00	0.00	0.00
12,400.0	90.32	269.92	8,855.5	-1,159.3	-3,329.2	3,440.9	0.00	0.00	0.00
12,500.0	90.32	269.92	8,854.9	-1,159.4	-3,429.2	3,540.3	0.00	0.00	0.00
12,600.0	90.32	269.92	8,854.4	-1,159.5	-3,529.2	3,639.6	0.00	0.00	0.00
12,700.0	90.32	269.92	8,853.8	-1,159.7	-3,629.2	3,738.9	0.00	0.00	0.00
12,758.8	90.32	269.92	8,853.5	-1,159.8	-3,688.0	3,797.3	0.00	0.00	0.00
PPP2: 550' FNL & 1330' FWL (13)									
12,800.0	90.32	269.92	8,853.3	-1,159.8	-3,729.2	3,838.3	0.00	0.00	0.00
12,900.0	90.32	269.92	8,852.7	-1,160.0	-3,829.2	3,937.6	0.00	0.00	0.00
13,000.0	90.32	269.92	8,852.1	-1,160.1	-3,929.2	4,037.0	0.00	0.00	0.00
13,100.0	90.32	269.92	8,851.6	-1,160.3	-4,029.2	4,136.3	0.00	0.00	0.00
13,200.0	90.32	269.92	8,851.0	-1,160.4	-4,129.2	4,235.7	0.00	0.00	0.00
13,300.0	90.32	269.92	8,850.5	-1,160.6	-4,229.2	4,335.0	0.00	0.00	0.00
13,400.0	90.32	269.92	8,849.9	-1,160.7	-4,329.2	4,434.4	0.00	0.00	0.00
13,500.0	90.32	269.92	8,849.3	-1,160.8	-4,429.2	4,533.7	0.00	0.00	0.00
13,600.0	90.32	269.92	8,848.8	-1,161.0	-4,529.2	4,633.0	0.00	0.00	0.00
13,700.0	90.32	269.92	8,848.2	-1,161.1	-4,629.2	4,732.4	0.00	0.00	0.00
13,800.0	90.32	269.92	8,847.7	-1,161.3	-4,729.2	4,831.7	0.00	0.00	0.00
13,900.0	90.32	269.92	8,847.1	-1,161.4	-4,829.2	4,931.1	0.00	0.00	0.00
14,000.0	90.32	269.92	8,846.6	-1,161.6	-4,929.2	5,030.4	0.00	0.00	0.00
14,088.8	90.32	269.92	8,846.1	-1,161.7	-5,018.0	5,118.6	0.00	0.00	0.00
PPP3: 550' FNL & 0' FEL (14)									
14,100.0	90.32	269.92	8,846.0	-1,161.7	-5,029.2	5,129.8	0.00	0.00	0.00
14,200.0	90.32	269.92	8,845.4	-1,161.9	-5,129.2	5,229.1	0.00	0.00	0.00
14,300.0	90.32	269.92	8,844.9	-1,162.0	-5,229.2	5,328.5	0.00	0.00	0.00
14,400.0	90.32	269.92	8,844.3	-1,162.2	-5,329.2	5,427.8	0.00	0.00	0.00
14,500.0	90.32	269.92	8,843.8	-1,162.3	-5,429.2	5,527.1	0.00	0.00	0.00
14,600.0	90.32	269.92	8,843.2	-1,162.4	-5,529.2	5,626.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,700.0	90.32	269.92	8,842.6	-1,162.6	-5,629.2	5,725.8	0.00	0.00	0.00
14,800.0	90.32	269.92	8,842.1	-1,162.7	-5,729.2	5,825.2	0.00	0.00	0.00
14,900.0	90.32	269.92	8,841.5	-1,162.9	-5,829.2	5,924.5	0.00	0.00	0.00
15,000.0	90.32	269.92	8,841.0	-1,163.0	-5,929.2	6,023.9	0.00	0.00	0.00
15,100.0	90.32	269.92	8,840.4	-1,163.2	-6,029.2	6,123.2	0.00	0.00	0.00
15,200.0	90.32	269.92	8,839.9	-1,163.3	-6,129.2	6,222.6	0.00	0.00	0.00
15,300.0	90.32	269.92	8,839.3	-1,163.5	-6,229.2	6,321.9	0.00	0.00	0.00
15,400.0	90.32	269.92	8,838.7	-1,163.6	-6,329.2	6,421.3	0.00	0.00	0.00
15,500.0	90.32	269.92	8,838.2	-1,163.8	-6,429.2	6,520.6	0.00	0.00	0.00
15,600.0	90.32	269.92	8,837.6	-1,163.9	-6,529.2	6,619.9	0.00	0.00	0.00
15,700.0	90.32	269.92	8,837.1	-1,164.0	-6,629.2	6,719.3	0.00	0.00	0.00
15,800.0	90.32	269.92	8,836.5	-1,164.2	-6,729.2	6,818.6	0.00	0.00	0.00
15,900.0	90.32	269.92	8,836.0	-1,164.3	-6,829.2	6,918.0	0.00	0.00	0.00
16,000.0	90.32	269.92	8,835.4	-1,164.5	-6,929.2	7,017.3	0.00	0.00	0.00
16,100.0	90.32	269.92	8,834.8	-1,164.6	-7,029.2	7,116.7	0.00	0.00	0.00
16,200.0	90.32	269.92	8,834.3	-1,164.8	-7,129.2	7,216.0	0.00	0.00	0.00
16,300.0	90.32	269.92	8,833.7	-1,164.9	-7,229.2	7,315.4	0.00	0.00	0.00
16,400.0	90.32	269.92	8,833.2	-1,165.1	-7,329.2	7,414.7	0.00	0.00	0.00
16,500.0	90.32	269.92	8,832.6	-1,165.2	-7,429.2	7,514.0	0.00	0.00	0.00
16,600.0	90.32	269.92	8,832.0	-1,165.3	-7,529.2	7,613.4	0.00	0.00	0.00
16,700.0	90.32	269.92	8,831.5	-1,165.5	-7,629.2	7,712.7	0.00	0.00	0.00
16,800.0	90.32	269.92	8,830.9	-1,165.6	-7,729.1	7,812.1	0.00	0.00	0.00
16,900.0	90.32	269.92	8,830.4	-1,165.8	-7,829.1	7,911.4	0.00	0.00	0.00
17,000.0	90.32	269.92	8,829.8	-1,165.9	-7,929.1	8,010.8	0.00	0.00	0.00
17,100.0	90.32	269.92	8,829.3	-1,166.1	-8,029.1	8,110.1	0.00	0.00	0.00
17,200.0	90.32	269.92	8,828.7	-1,166.2	-8,129.1	8,209.5	0.00	0.00	0.00
17,300.0	90.32	269.92	8,828.1	-1,166.4	-8,229.1	8,308.8	0.00	0.00	0.00
17,400.0	90.32	269.92	8,827.6	-1,166.5	-8,329.1	8,408.1	0.00	0.00	0.00
17,500.0	90.32	269.92	8,827.0	-1,166.7	-8,429.1	8,507.5	0.00	0.00	0.00
17,600.0	90.32	269.92	8,826.5	-1,166.8	-8,529.1	8,606.8	0.00	0.00	0.00
17,700.0	90.32	269.92	8,825.9	-1,166.9	-8,629.1	8,706.2	0.00	0.00	0.00
17,800.0	90.32	269.92	8,825.3	-1,167.1	-8,729.1	8,805.5	0.00	0.00	0.00
17,900.0	90.32	269.92	8,824.8	-1,167.2	-8,829.1	8,904.9	0.00	0.00	0.00
18,000.0	90.32	269.92	8,824.2	-1,167.4	-8,929.1	9,004.2	0.00	0.00	0.00
18,100.0	90.32	269.92	8,823.7	-1,167.5	-9,029.1	9,103.6	0.00	0.00	0.00
18,200.0	90.32	269.92	8,823.1	-1,167.7	-9,129.1	9,202.9	0.00	0.00	0.00
18,300.0	90.32	269.92	8,822.6	-1,167.8	-9,229.1	9,302.2	0.00	0.00	0.00
18,400.0	90.32	269.92	8,822.0	-1,168.0	-9,329.1	9,401.6	0.00	0.00	0.00
18,500.0	90.32	269.92	8,821.4	-1,168.1	-9,429.1	9,500.9	0.00	0.00	0.00
18,600.0	90.32	269.92	8,820.9	-1,168.3	-9,529.1	9,600.3	0.00	0.00	0.00
18,700.0	90.32	269.92	8,820.3	-1,168.4	-9,629.1	9,699.6	0.00	0.00	0.00
18,800.0	90.32	269.92	8,819.8	-1,168.5	-9,729.1	9,799.0	0.00	0.00	0.00
18,900.0	90.32	269.92	8,819.2	-1,168.7	-9,829.1	9,898.3	0.00	0.00	0.00
19,000.0	90.32	269.92	8,818.6	-1,168.8	-9,929.1	9,997.7	0.00	0.00	0.00
19,100.0	90.32	269.92	8,818.1	-1,169.0	-10,029.1	10,097.0	0.00	0.00	0.00
19,115.9	90.32	269.92	8,818.0	-1,169.0	-10,045.0	10,112.8	0.00	0.00	0.00
BHL: 550' FNL & 330' FWL (14)									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Airboss 13/14 W0AD Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3252.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3252.0usft (Original Well Elev)
Site:	Airboss 13/14 W0AD Fed Com #1H	North Reference:	Grid
Well:	Sec 12, T23S, R26E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 550' FNL & 330' FWL, Sec 14		
Design:	Design #1		

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
SHL: 600' FSL & 300' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	477,847.00	570,584.00	32.3136387	-104.2386625
KOP: 550' FNL & 10' FE - plan hits target center - Point	0.00	0.00	8,395.5	-1,154.0	288.0	476,693.00	570,872.00	32.3104658	-104.2377335
BHL: 550' FNL & 330' FV - plan hits target center - Point	0.00	0.00	8,818.0	-1,169.0	-10,045.0	476,678.00	560,539.00	32.3104454	-104.2711803
FTP: 550' FNL & 330' FE - plan hits target center - Point	0.00	0.00	8,845.6	-1,154.5	-30.0	476,692.54	570,554.00	32.3104653	-104.2387629
PPP3: 550' FNL & 0' FEI - plan hits target center - Point	0.00	0.00	8,846.1	-1,161.7	-5,018.0	476,685.30	565,566.00	32.3104564	-104.2549085
PPP2: 550' FNL & 1330' - plan hits target center - Point	0.00	0.00	8,853.5	-1,159.8	-3,688.0	476,687.23	566,896.00	32.3104590	-104.2506034
LP: 550' FNL & 492' FEL - plan hits target center - Point	0.00	0.00	8,873.0	-1,154.7	-192.1	476,692.30	570,391.90	32.3104650	-104.2392876

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? N

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Operator Name: MEWBOURNE OIL COMPANY

Well Name: AIRBOSS 13/14 W0AD FED COM

Well Number: 1H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

AIRBOSS13_14W0ADFedCom1H_wellsitelayout_20190816130408.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance
(acres): 3.95

Road proposed disturbance (acres): 0

Powerline proposed disturbance
(acres): 0

Pipeline proposed disturbance
(acres): 0

Other proposed disturbance (acres):
3.949

Total proposed disturbance: 7.899

Well pad interim reclamation (acres):
1.39

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):
0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 1.39

Well pad long term disturbance
(acres): 2.56

Road long term disturbance (acres): 0

Powerline long term disturbance
(acres): 0

Pipeline long term disturbance
(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 2.56

Disturbance Comments: In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

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: 8-13-19

☒ 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
Airboss 13/14 W0AD Fed Com #1H		P- 12- 23S - 26E	600' FSL & 300' 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 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