



U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed:

APD ID:
APD Received Date:
Operator:

Well Status:
Well Name:
Well Number:

APD Package Report Contents

- Form 3160-3
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 - Blowout Prevention BOP Diagram Attachment: 2 file(s)
 - Casing Design Assumptions and Worksheet(s): 5 file(s)
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- SUPO Report
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 - None

- Bond Report
- Bond Attachments
 - None

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-58099
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	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.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 04/10/2026

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 an 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: SWNW / 2455 FNL / 1220 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4355612 / LONG: -103.7360893 (TVD: 0 feet, MD: 0 feet)
PPP: SENW / 2642 FNL / 548 FWL / TWSP: 21S / RANGE: 31E / SECTION: 24 / LAT: 32.4640824 / LONG: -103.382508 (TVD: 10196 feet, MD: 21169 feet)
PPP: SESW / 0 FSL / 548 FWL / TWSP: 21S / RANGE: 31E / SECTION: 25 / LAT: 32.4423088 / LONG: -103.7382584 (TVD: 10293 feet, MD: 13247 feet)
PPP: SENW / 2541 FNL / 550 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.435326 / LONG: -103.7382608 (TVD: 10324 feet, MD: 10706 feet)
BHL: NENW / 10 FNL / 550 FWL / TWSP: 21S / RANGE: 31E / SECTION: 24 / LAT: 32.4713153 / LONG: -103.7382482 (TVD: 10164 feet, MD: 23801 feet)

BLM Point of Contact

Name: PAMELLA HERNANDEZ
Title: LIE
Phone: (575) 234-5954
Email: PHERNANDEZ@BLM.GOV

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	COUSIN EDDY FED UNIT 54H
APD ID:	10400110032
LOCATION:	Section 36, T.21 S., R.31 E. NMP.
COUNTY:	Eddy County, New Mexico ▼

COA

H ₂ S	☐ No			☒ Yes
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q	☒ Open Annulus ☐ WIPP
Cave / Karst	3-String Design: Open Production Casing Annulus			
Wellhead	☐ Conventional	☒ Multibowl	☐ Both	☐ Diverter
Cementing	☒ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☒ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024	
Additional Language	☒ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☒ Break Testing
	☐ Four-String	☒ Offline Cementing	☒ Fluid-Filled	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all applicable procedures and requirements listed within the order R-111-Q.

B. CASING DESIGN

Note: The surface casing set depth was adjusted based on the recommendation of the BLM geologist. *"The operator proposes to set surface casing at 645 ft. which will be in or above the Magenta Dolomite Aquifer and will not adequately protect all usable water zones. Instead, set surface casing at a depth of approximately 775 ft. If salt is encountered, set casing at least 25 ft. above the salt."*

1. The **13-3/8** inch surface casing shall be set at approximately **775 ft.** (a minimum of 70 ft. into the Rustler Anhydrite, above the salt and below usable water) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - 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 psi 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 psi 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 in.** intermediate casing shall be set at approximately **4,295 ft.** 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 Potash.

Note: The intermediate casing must be kept fluid-filled to meet the BLM's minimum safety factor requirement against collapse.

3. Operator has proposed to set **7 in.** production casing at approximately **9,806 ft.** (KOP in Design A) or **10,706 ft.** (Landing point in Design B). The minimum required fill of cement behind the **7 in.** production casing is:
- Operator has proposed to cement the production casing in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage within 180 days after well completion in accordance with the R-111-Q guidelines.
 - a. First stage: Operator will cement production casing with intent to bring cement to top of Brushy Canyon formation.
 - b. Second stage: Operator will perform bradenhead squeeze within 180 days after completion per R-111-Q requirements. Cement shall be tie-back **at least 500 ft. into the intermediate casing and below the Marker Bed 126.** If cement does not circulate, the appropriate BLM office shall be notified.
 - ❖ Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM.**
 - ❖ **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. If

- cement does not tie-back at least 500 ft. into the previous casing shoe, the appropriate BLM office shall be notified.
- ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored. Operator must follow **all** monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days**.
 - ❖ **In the event of a casing failure during completion**, the operator must contact the BLM engineer at (575-706-2779) and inspection staff (575-361-2822 Eddy County).

Note: The production casing must be kept fluid-filled to meet the BLM's minimum safety factor requirement against collapse.

4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

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. 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**. Before drilling out surface casing shoe, BOP/BOPE and annular preventer must be pressure tested in accordance with **title 43 CFR 3172**.
 - 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 43 CFR 3172 must be followed.

BOPE Break Testing Variance

- Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- **BOPE Break Testing is NOT permitted to drill the production hole section.**
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 520 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822.

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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** 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 doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING & CEMENTING

1. The current acceptable methods of cement verification are as follows:
 - i. Observing cement circulated to surface,
 - ii. Cement Bond Log (CBL),
 - iii. Temperature log within 8-10 hours after completing the cement job,
 - iv. Echometer (if a second-stage bradenhead is being utilized and operator was granted approval prior to operations.)
2. 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.

3. 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 of both lead and tail cement, 2) until cement has been in place at least 8 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.
4. 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.
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. Whenever a casing string is cemented in the R-111-Q 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 **43 CFR 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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 cement), 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).
 - ii. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester

to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 **43 CFR 3172**.

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.

SA 04/03/2026



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

Operator Certification Data Report

04/10/2026

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: MELONY LEAL

Signed on: 02/20/2026

Title: Analyst

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS

State: NM

Zip: 88240

Phone: (575)393-5905

Email address: MLEAL@MEWBOURNE.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

04/10/2026

APD ID: 10400110032

Submission Date: 02/20/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400110032

Tie to previous NOS? N

Submission Date: 02/20/2026

BLM Office: Carlsbad

User: MELONY LEAL

Title: Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM61358

Lease Acres: 100

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM106306061

Agreement name: Cousin Eddy Unit

Keep application confidential? Y

Permitting Agent? NO

APD Operator: MEWBOURNE OIL COMPANY

Operator letter of

Operator Info

Operator Organization Name: MEWBOURNE OIL COMPANY

Operator Address: P O BOX 5270

Zip: 88241

Operator PO Box:

Operator City: HOBBS

State: NM

Operator Phone: (575)393-5905

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Field/Pool or Exploratory? Field and Pool

Field Name: BILBREY BASIN

Pool Name: Bone Spring

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Is the proposed well in an area containing other mineral resources?** USEABLE WATER,OIL**Is the proposed well in a Helium production area?** N **Use Existing Well Pad?** N **New surface disturbance?****Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:**

COUSIN EDDY 101 102 103 104

Number: 11**Well Class:** HORIZONTAL

49 50 51 52 53 54 55

Number of Legs: 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:** 20 Miles**Distance to nearest well:** 20 FT**Distance to lease line:** 330 FT**Reservoir well spacing assigned acres Measurement:** 400 Acres**Well plat:** COUSIN_EDDY_FED_UNIT__54H_C102_20260204132525.pdf**Well work start Date:** 04/04/2026**Duration:** 60 DAYS**Section 3 - Well Location Table****Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:** 1**Reference Datum:** KELLY BUSHING

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
SHL Leg #1	2455	FNL	1220	FWL	21S	31E	36	Aliquot SWN W	32.4355612	- 103.7360893	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	3565			Y
KOP Leg #1	2167	FSL	550	FWL	21S	31E	36	Aliquot NESW	32.4337513	- 103.7382628	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 6186	9806	9751	Y

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H

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
PPP Leg #1-1	2541	FNL	550	FWL	21S	31E	36	Aliquot SENW	32.435326	- 103.7382608	EDD Y	NEW MEXICO	NEW MEXICO	S	STATE	- 6759	10706	10324	Y
PPP Leg #1-2	0	FSL	548	FWL	21S	31E	25	Aliquot SESW	32.4423088	- 103.7382584	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 61358	- 6728	13247	10293	Y
PPP Leg #1-3	2642	FNL	548	FWL	21S	31E	24	Aliquot SENW	32.4640824	- 103.382508	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 135245	- 6631	21169	10196	Y
EXIT Leg #1	10	FNL	550	FWL	21S	31E	24	Aliquot NENW	32.4713153	- 103.7382482	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 135245	- 6599	23801	10164	Y
BHL Leg #1	10	FNL	550	FWL	21S	31E	24	Aliquot NENW	32.4713153	- 103.7382482	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 135245	- 6599	23801	10164	Y

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number	Pool Code 5695	Pool Name BILBREY BASIN; BONE SPRING
Property Code	Property Name COUSIN EDDY FED UNIT	Well Number 54H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3565'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL E	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2455 FNL	Ft. from E/W 1220 FWL	Latitude 32.4355612°N	Longitude 103.7360893°W	County EDDY
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Bottom Hole Location

UL D	Section 24	Township 21S	Range 31E	Lot	Ft. from N/S 10 FNL	Ft. from E/W 550 FWL	Latitude 32.4713153°N	Longitude 103.7382482°W	County EDDY
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Dedicated Acres 400	Infill or Defining Well INFILL	Defining Well API COUSIN EDDY FED UNIT #56H	Overlapping Spacing Unit (Y/N) Y	Consolidation Code P
Order Numbers. NMNM106306061			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL L	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2167 FSL	Ft. from E/W 550 FWL	Latitude 32.4337513°N	Longitude 103.7382628°W	County EDDY
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First Take Point (FTP)

UL E	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2541 FNL	Ft. from E/W 550 FWL	Latitude 32.4353260°N	Longitude 103.7382608°W	County EDDY
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Last Take Point (LTP)

UL D	Section 24	Township 21S	Range 31E	Lot	Ft. from N/S 10 FNL	Ft. from E/W 550 FWL	Latitude 32.4713153°N	Longitude 103.7382482°W	County EDDY
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Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3565'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Brett Miller 01/21/2026		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature BRETT MILLER		Signature and Seal of Professional Surveyor Robert M. Howell	
Printed Name BRETT.MILLER@MEWBOURNE.COM		Certificate Number 19680	Date of Survey 07/02/2024
Email Address			

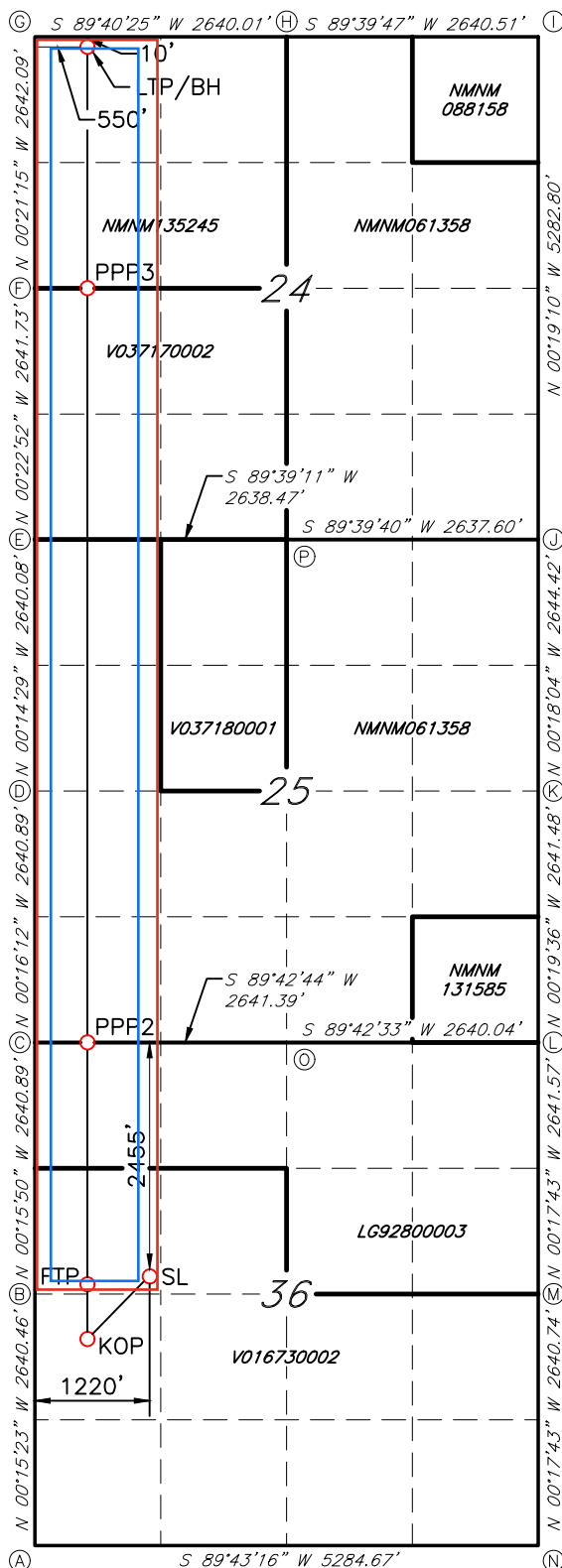
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

COUSIN EDDY FED UNIT #54H



GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
2455' FNL & 1220' FWL SEC.36
N: 522703.3 - E: 725596.9

LAT: 32.4355612° N
LONG: 103.7360893° W

KICK OFF POINT (KOP)
2167' FSL & 550' FWL SEC.36
N: 522041.2 - E: 724930.0

LAT: 32.4337513° N
LONG: 103.7382628° W

FIRST TAKE POINT (FTP)
2541' FNL & 550' FWL SEC.36
N: 522614.0 - E: 724927.4

LAT: 32.4353260° N
LONG: 103.7382608° W

PROPOSED PENETRATION POINT 2 (PPP2)
0' FSL & 548' FWL SEC.25
N: 525154.4 - E: 724914.0

LAT: 32.4423088° N
LONG: 103.7382584° W

PROPOSED PENETRATION POINT 3 (PPP3)
2642' FNL & 548' FWL SEC.24
N: 533075.7 - E: 724872.2

LAT: 32.4640824° N
LONG: 103.7382508° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
10' FNL & 550' FWL SEC.24
N: 535707.1 - E: 724858.3

LAT: 32.4713153° N
LONG: 103.7382482° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1916" N: 519871.5 - E: 724389.8	I: FOUND BRASS CAP "1916" N: 535744.5 - E: 729587.7
B: FOUND BRASS CAP "1916" N: 522511.4 - E: 724378.0	J: FOUND BRASS CAP "1916" N: 530462.9 - E: 729617.1
C: CALCULATED CORNER N: 525151.6 - E: 724365.8	K: FOUND BRASS CAP "1916" N: 527819.1 - E: 729631.0
D: FOUND BRASS CAP "1916" N: 527791.9 - E: 724353.4	L: FOUND BRASS CAP "1916" N: 525178.3 - E: 729646.0
E: FOUND BRASS CAP "1916" N: 530431.4 - E: 724342.3	M: FOUND BRASS CAP "1916" N: 522537.3 - E: 729659.7
F: FOUND BRASS CAP "1916" N: 533072.5 - E: 724324.7	N: FOUND BRASS CAP "1916" N: 519897.2 - E: 729673.3
G: FOUND BRASS CAP "1916" N: 535713.9 - E: 724308.4	O: FOUND BRASS CAP "1916" N: 525164.9 - E: 727006.6
H: FOUND BRASS CAP "1916" N: 535729.0 - E: 726947.8	P: FOUND BRASS CAP "1916" N: 530447.4 - E: 726980.1

JOB #: LS24070588D2



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

Drilling Plan Data Report

04/10/2026

APD ID: 10400110032

Submission Date: 02/20/2026

Highlighted data
reflects the most
recent changes

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17834491	UNKNOWN	3565	28	28	OTHER : Top Soil	NONE	N
17834502	RUSTLER	2995	570	570	ANHYDRITE, DOLOMITE	USEABLE WATER	N
17834503	TOP SALT	2715	850	850	SALT	NONE	N
17834492	BOTTOM SALT	-555	4120	4120	SALT	NONE	N
17834504	LAMAR	-805	4370	4370	LIMESTONE	NATURAL GAS, OIL	N
17834505	BELL CANYON	-885	4450	4450	SANDSTONE	NATURAL GAS, OIL	N
17834506	CHERRY CANYON	-1735	5300	5300	SANDSTONE	NATURAL GAS, OIL	N
17834507	BRUSHY CANYON	-3035	6600	6600	SANDSTONE	NATURAL GAS, OIL	N
17834508	BONE SPRINGS	-4735	8300	8300	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
17834490	BONE SPRING 1ST	-5835	9400	9400	SANDSTONE	NATURAL GAS, OIL	N
17834493	BONE SPRING 2ND	-6595	10160	10160	SANDSTONE	NATURAL GAS, OIL	Y
17834510	BONE SPRING 3RD	-7625	11190	11190	SANDSTONE	NATURAL GAS, OIL	N
17834511	WOLFCAMP	-8035	11600	11600	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Pressure Rating (PSI):** 5M**Rating Depth:** 23801**Equipment:** Annular, Pipe Rams, Blind Rams, 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.**Requesting Variance?** YES**Variance request:** Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.**Testing Procedure:** Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 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.**Choke Diagram Attachment:**

5M_BOPE_Choke_Diagram_20260204133325.pdf

Flex_Line_Specs_API_16C_20260204133330.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20260204133341.pdf

Vault_5K_WH_1002000AD1_20260323134901.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	645	0	645	3565	2920	645	H-40	48	ST&C	2.69	6	DRY	10.4	DRY	17.47
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3385	0	3385	3567	180	3385	J-55	36	LT&C	1.13	1.96	DRY	2.86	DRY	3.56
3	INTERMEDIATE	12.25	9.625	NEW	API	N	3385	4295	3385	4295	182	-730	910	J-55	40	LT&C	1.13	1.73	DRY	14.29	DRY	17.31
4	PRODUCTION	8.75	7.0	NEW	API	N	0	9806	0	9751		-6186	9806	P-110	26	LT&C	1.27	2.02	DRY	2.72	DRY	3.26
5	LINER	6.125	4.5	NEW	API	N	9606	23801	9580	10164	-6015	-6599	14195	P-110	13.5	LT&C	1.73	2.01	DRY	2.43	DRY	3.03

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Casing Attachments****Casing ID:** 1 **String** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

13.375in_48_H40_STC_Csg_20260204092048.pdf

Casing ID: 2 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

9.625in_36_J55_LTC_Csg_20260204092001.pdf

Casing ID: 3 **String** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

9.625in_40_J55_LTC_Csg_20260204091858.pdf

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7in_26_P110_LTC_Csg_20260218074802.pdf

Casing ID: 5 String LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

4.5in_13.5_P110_LTC_Csg_20260218074855.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	455	300	2.12	12.5	640	100	Class C	Salt, Gel, Extender, LCM
SURFACE	Tail		455	645	200	1.34	14.8	268	100	Class C	Retarder
INTERMEDIATE	Lead		0	3640	700	2.12	12.5	1490	25	CLASS C	SALT, GEL, EXTENDER, LCM
INTERMEDIATE	Tail		3640	4295	200	1.34	14.8	268	25	CLASS C	RETARDER
PRODUCTION	Lead		5295	6729	100	2.12	12.5	220	0	Class C	SALT, GEL, EXTENDER, LCM, DEFAOMER

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		5295	6729	400	1.18	15.6	472	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		9606	2380 1	910	1.85	13.5	1690	25	Class H	Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-Settling Agent

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 43 CFR 3172:****Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:**

Describe what will be on location to control well or mitigate other conditions: Formation integrity test will be performed per 43 CFR Part 3172. 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 43 CFR Part 3172.

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

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	645	SPUD MUD	8.4	8.6							
645	4295	SALT SATURATED	10	10.2							
4295	9806	WATER-BASED MUD	8.6	9.7							
9806	2380 1	OIL-BASED MUD	10	11.5							

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H

Section 6 - Test, Logging, Coring

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

No logs are planned based on well control or offset log information. Offset Well: Cousin Eddy Fed Unit #55H

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

DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGIC LITHOLOGY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6174**Anticipated Surface Pressure:** 3902**Anticipated Bottom Hole Temperature(F):** 140**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

H2S_Plan_20260204093338.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COUSIN_EDDY_FED_UNIT_54H_Dir_Plan_20260204133917.pdf

COUSIN_EDDY_FED_UNIT_54H_Dir_Plot_20260204133921.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

NGMP_20260204093419.pdf

Cousin_Eddy_Fed_Unit_54H_R_111Q_Csg_Cmt_Assumptions_20260218075041.pdf

Cousin_Eddy_Fed_Unit_54H_Drlg_Program_20260218075038.pdf

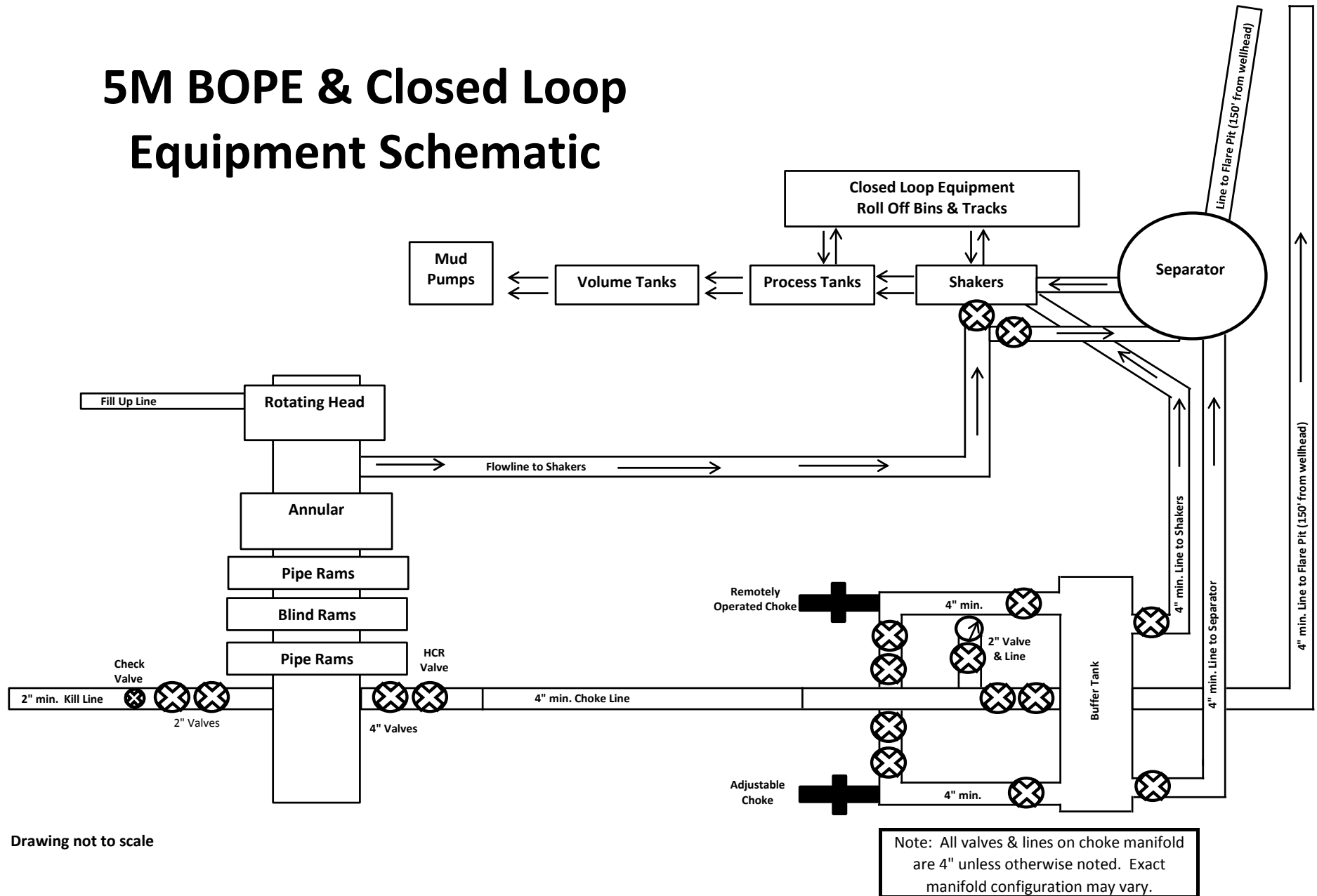
Other Variance request(s)?: Y**Other Variance attachment:**

MOC_Break_Testing_Variance_20260204093437.pdf

MOC_Offline_Cementing_Variance_20260204093442.pdf

CONFIDENTIAL

5M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28

No: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3"×10000psi×60ft (18.29m)	Serial Number	7660144
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.08.26

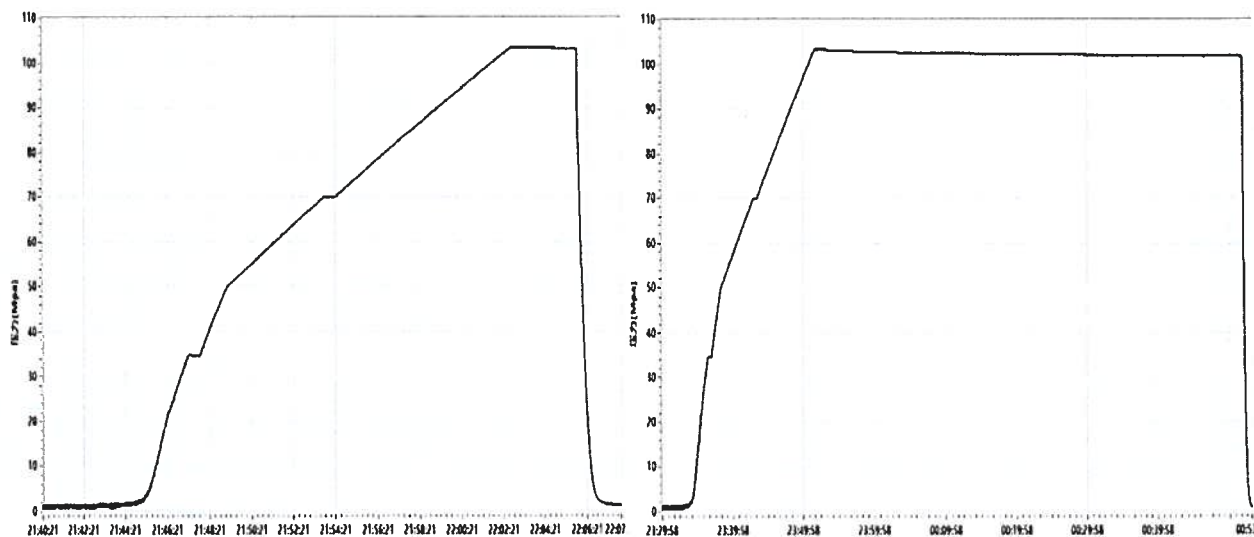
Rate of length change

Standard requirements	At working pressure ,the rate of length change should not more than $\pm 2\%$
Testing result	10000psi (69.0MPa) ,Rate of length change 0.7%

Hydrostatic testing

Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage

Graph of pressure testing:



Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition				
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhanheng Wang

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-126-002

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×60ft (18.29m)	Quantity	2PCS
Serial Number	7660143~7660144	FSL	FSL3
Temperature Range	-29℃~+121℃	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

Inspection Items		Inspection results	
Appearance Checking		In accordance with API Spec 16C 3 rd edition	
Size and Lengths		In accordance with API Spec 16C 3 rd edition	
Dimensions and Tolerances		In accordance with API Spec 16C 3 rd edition	
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 6A 21 st edition	
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 17D 3 rd edition	
Hydrostatic Testing		In accordance with API Spec 16C 3 rd edition	
product Marking		In accordance with API Spec 16C 3 rd edition	
Inspection conclusion		The inspected items meet standard requirements of API Spec 16C 3 rd edition	
Remarks			
Approver	Jiaolong Chen	Auditor	Huiling Dong
		Inspector	Zhansheng Wang

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×60ft (18.29m)

Serial Number: 7660143~7660144

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

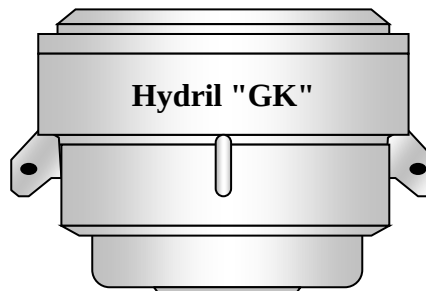
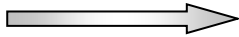
The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in Aug 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on Aug 26, 2023. The overall condition is good. This is to certify that the Choke And Kill Hose complies with all current standards and specifications for API Spec 16C 3rd edition .

QC Manager:

Jianlong Chen

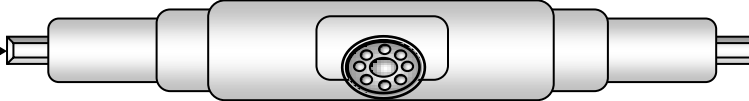
Date:Aug 26, 2023

Hydril "GK"
13 5/8" 5M

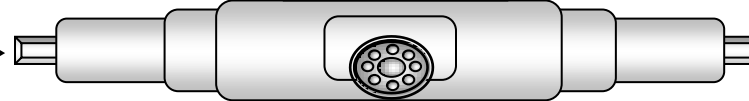


Hydril "GK"

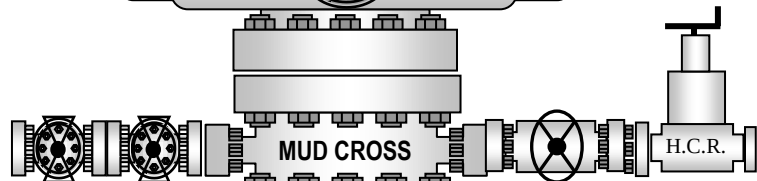
Cameron Type U
13 5/8" 5M



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



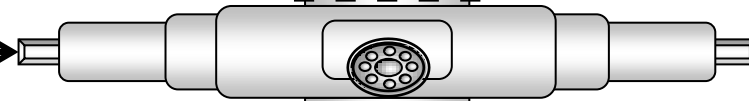
BLIND RAMS



MUD CROSS



H.C.R.



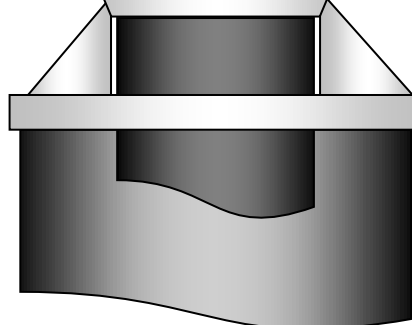
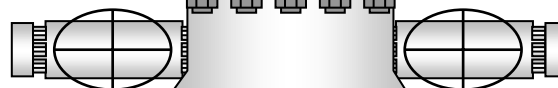
7" RAMS

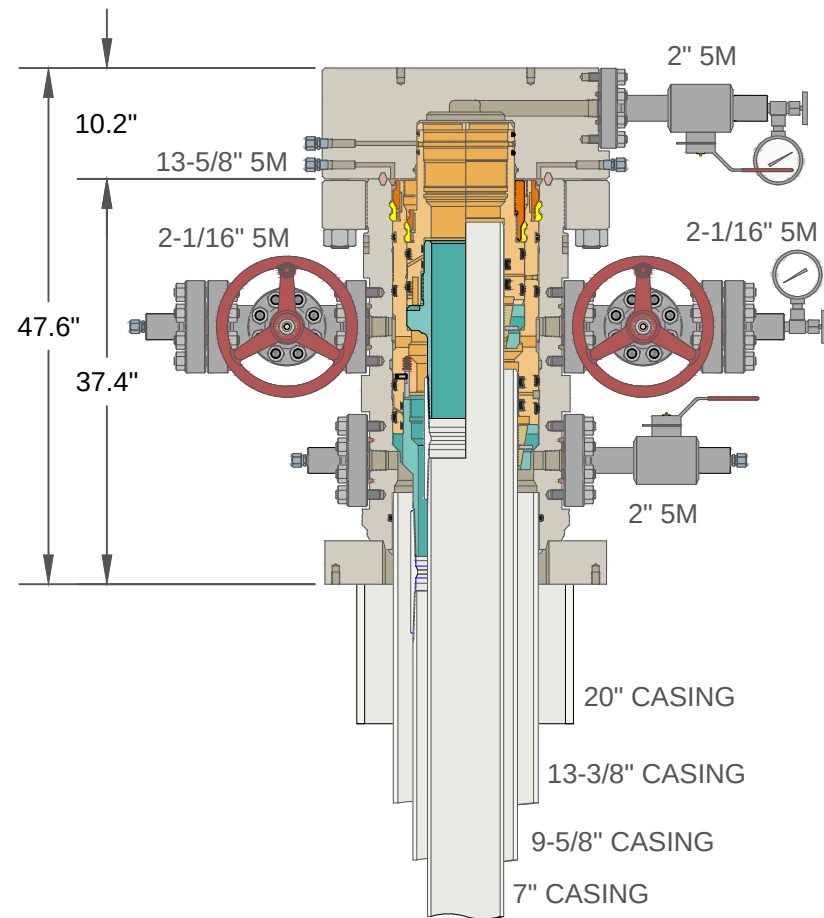
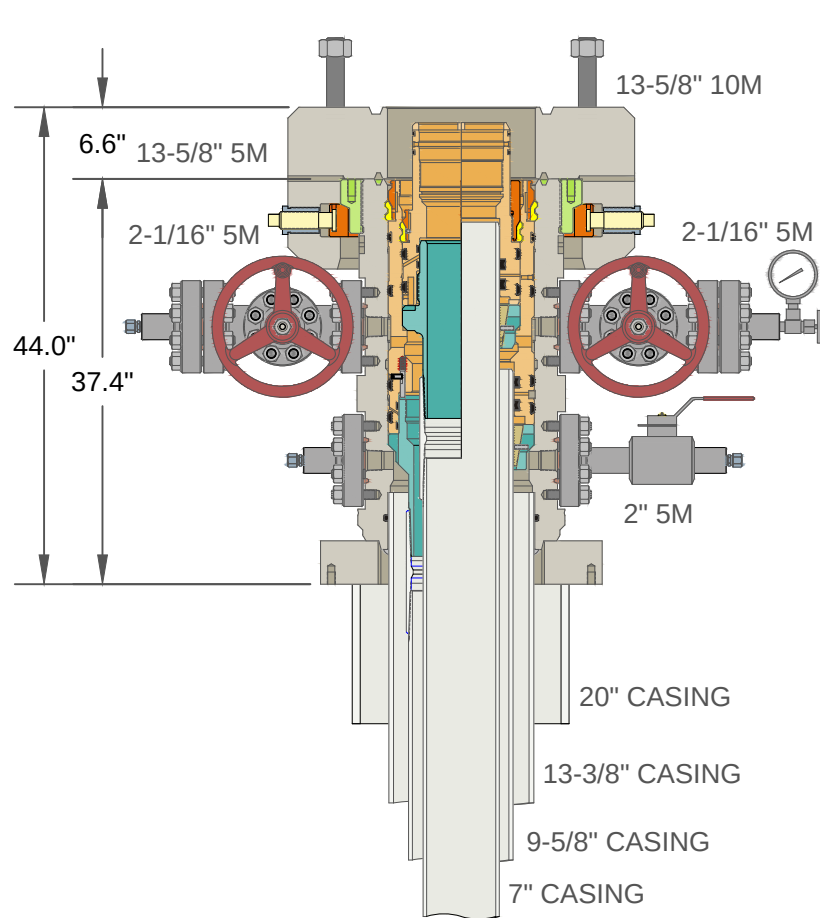


13 5/8" 5M

13 5/8" 5M

13 5/8" 5M





20" X 13-3/8" X 9-5/8" X 7" 5M RSH-2N WELLHEAD ASSEMBLY,
WITH TA CAP AND DRILLING ADAPTER

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ALL DIMENSIONS ARE APPROXIMATE, NOT FOR MANUFACTURING USE.

DRAWN BY:	KN	DRAWING NO.	1002000
REVIEWED BY:		Rev. A	Sht. 1 of
APPROVED BY:		DATE:	8/17/2022

MEWBOURNE OIL COMPANY



API LTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			Performance	
Nominal OD	9.625 in.	Drift	8.679 in.	SMYS55,000 psi
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft	Min UTS75,000 psi
Nominal Weight	40 lb/ft	OD Tolerance	API	Body Yield Strength630 x1000 lb
Nominal ID	8.835 in.			Min. Internal Yield Pressure3950 psi
				Collapse Pressure2570 psi
				Max. Allowed Bending26 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	520 x1000 lb	Minimum Torque	3900 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	5200 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3950 psi	Maximum Torque	6500 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
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API LTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.352 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	9.625 in.	Drift	8.765 in.	SMYS	55,000 psi
Wall Thickness	0.352 in.	Plain End Weight	34.89 lb/ft	Min UTS	75,000 psi
Nominal Weight	36 lb/ft	OD Tolerance	API	Body Yield Strength	564 x1000 lb
Nominal ID	8.921 in.			Min. Internal Yield Pressure	3520 psi
				Collapse Pressure	2020 psi
				Max. Allowed Bending	26 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	453 x1000 lb	Minimum Torque	3400 ft-lb
Connection OD	10.625 in.	Coupling Face Load	433 x1000 lb	Optimum Torque	4530 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	3520 psi	Maximum Torque	5660 ft-lb

Notes

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API STC

Coupling	Pipe Body
Grade: H40	Grade: H40
Body: -	1st Band: Black
1st Band: Black	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.330 in.	Grade	H40
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	13.375 in.	Drift	12.559 in.	SMYS	40,000 psi
Wall Thickness	0.330 in.	Plain End Weight	46.02 lb/ft	Min UTS	60,000 psi
Nominal Weight	48 lb/ft	OD Tolerance	API	Body Yield Strength	541 x1000 lb
Nominal ID	12.715 in.			Min. Internal Yield Pressure	1730 psi
				Collapse Pressure	740 psi
				Max. Allowed Bending	14 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	322 x1000 lb	Minimum Torque	2420 ft-lb
Connection OD	14.375 in.	Coupling Face Load	377 x1000 lb	Optimum Torque	3220 ft-lb
Hand Tight Stand Off	3.500 in.	Internal Pressure Capacity	1730 psi	Maximum Torque	4030 ft-lb

Notes

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API LTC

Coupling	Pipe Body
Grade: P110	Grade: P110
Body: White	1st Band: White
1st Band: -	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	7.000 in.	Wall Thickness	0.362 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.000 in.	Drift	6.151 in.	SMYS	110,000 psi
Wall Thickness	0.362 in.	Plain End Weight	25.69 lb/ft	Min UTS	125,000 psi
Nominal Weight	26 lb/ft	OD Tolerance	API	Body Yield Strength	830 x1000 lb
Nominal ID	6.276 in.			Min. Internal Yield Pressure	9960 psi
				Collapse Pressure	6230 psi
				Max. Allowed Bending	72 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	693 x1000 lb	Minimum Torque	5200 ft-lb
Connection OD	7.875 in.	Coupling Face Load	799 x1000 lb	Optimum Torque	6930 ft-lb
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	9960 psi	Maximum Torque	8660 ft-lb

Notes

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API LTC

Coupling	Pipe Body
Grade: P110	Grade: P110
Body: White	1st Band: White
1st Band: -	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	4.500 in.	Wall Thickness	0.290 in.	Grade	P110
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	4.500 in.	Drift	3.795 in.	SMYS	110,000 psi
Wall Thickness	0.290 in.	Plain End Weight	13.05 lb/ft	Min UTS	125,000 psi
Nominal Weight	13.500 lb/ft	OD Tolerance	API	Body Yield Strength	422 x1000 lb
Nominal ID	3.920 in.			Min. Internal Yield Pressure	12,410 psi
				Collapse Pressure	10,690 psi
				Max. Allowed Bending	112 °/100 ft

Connection Data

Geometry		Performance		Make-Up Torques	
Thread per In	8	Joint Strength	338 x1000 lb	Minimum Torque	2750 ft-lb
Connection OD	5.250 in.	Coupling Face Load	473 x1000 lb	Optimum Torque	3660 ft-lb
Hand Tight Stand Off	3 in.	Internal Pressure Capacity	12,410 psi	Maximum Torque	4580 ft-lb

Notes

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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

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Cousin Eddy Fed Unit #54H

Sec 36, T21S, R31E

SHL: 2455' FNL & 1220' FWL (Sec 36)

BHL: 10' FNL & 550' FWL (Sec 24)

Plan: Design #1

Standard Planning Report

21 January, 2026

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
Design:	Design #1		

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

Site		Cousin Eddy Fed Unit #54H			
Site Position:		Northing:	522,703.30 usft	Latitude:	32.4355611
From:	Map	Easting:	725,596.90 usft	Longitude:	-103.7360893
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	Sec 36, T21S, R31E					
Well Position	+N/-S	0.0 usft	Northing:	522,703.30 usft	Latitude:	32.4355611
	+E/-W	0.0 usft	Easting:	725,596.90 usft	Longitude:	-103.7360893
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,593.0 usft	Ground Level:	3,565.0 usft
Grid Convergence:		0.32 °				

Wellbore	BHL: 10' FNL & 550' FWL (Sec 24)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.24	60.27	48,345.05780092

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	356.75	

Plan Survey Tool Program	Date	1/21/2026			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	23,801.1	Design #1 (BHL: 10' FNL & 550' F		

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	
1,652.0	0.00	0.00	1,652.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,997.6	6.91	225.21	1,996.7	-14.7	-14.8	2.00	2.00	0.00	225.21	
9,461.3	6.91	225.21	9,406.3	-647.4	-652.1	0.00	0.00	0.00	0.00	
9,806.9	0.00	0.00	9,751.0	-662.1	-666.9	2.00	-2.00	0.00	180.00	KOP: 2167' FSL & 550' F
10,714.0	90.70	359.70	10,324.0	-82.1	-669.9	10.00	10.00	0.00	-0.30	
23,801.1	90.70	359.70	10,164.0	13,003.8	-738.6	0.00	0.00	0.00	0.00	BHL: 10' FNL & 550' F

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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: 2455' FNL & 1220' FWL (Sec 36)									
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	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
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	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
550.0	0.00	0.00	550.0	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
650.0	0.00	0.00	650.0	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
750.0	0.00	0.00	750.0	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
850.0	0.00	0.00	850.0	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
950.0	0.00	0.00	950.0	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
1,050.0	0.00	0.00	1,050.0	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
1,150.0	0.00	0.00	1,150.0	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
1,250.0	0.00	0.00	1,250.0	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
1,350.0	0.00	0.00	1,350.0	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
1,450.0	0.00	0.00	1,450.0	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
1,550.0	0.00	0.00	1,550.0	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
1,650.0	0.00	0.00	1,650.0	0.0	0.0	0.0	0.00	0.00	0.00
1,652.0	0.00	0.00	1,652.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.96	225.21	1,700.0	-0.3	-0.3	-0.3	2.00	2.00	0.00
1,750.0	1.96	225.21	1,750.0	-1.2	-1.2	-1.1	2.00	2.00	0.00
1,800.0	2.96	225.21	1,799.9	-2.7	-2.7	-2.5	2.00	2.00	0.00
1,850.0	3.96	225.21	1,849.8	-4.8	-4.9	-4.5	2.00	2.00	0.00
1,900.0	4.96	225.21	1,899.7	-7.6	-7.6	-7.1	2.00	2.00	0.00
1,950.0	5.96	225.21	1,949.5	-10.9	-11.0	-10.3	2.00	2.00	0.00
1,997.6	6.91	225.21	1,996.7	-14.7	-14.8	-13.8	2.00	2.00	0.00
2,000.0	6.91	225.21	1,999.1	-14.9	-15.0	-14.0	0.00	0.00	0.00
2,050.0	6.91	225.21	2,048.8	-19.1	-19.3	-18.0	0.00	0.00	0.00
2,100.0	6.91	225.21	2,098.4	-23.4	-23.5	-22.0	0.00	0.00	0.00
2,150.0	6.91	225.21	2,148.1	-27.6	-27.8	-26.0	0.00	0.00	0.00
2,200.0	6.91	225.21	2,197.7	-31.8	-32.1	-30.0	0.00	0.00	0.00
2,250.0	6.91	225.21	2,247.3	-36.1	-36.3	-33.9	0.00	0.00	0.00
2,300.0	6.91	225.21	2,297.0	-40.3	-40.6	-37.9	0.00	0.00	0.00
2,350.0	6.91	225.21	2,346.6	-44.5	-44.9	-41.9	0.00	0.00	0.00
2,400.0	6.91	225.21	2,396.2	-48.8	-49.1	-45.9	0.00	0.00	0.00
2,450.0	6.91	225.21	2,445.9	-53.0	-53.4	-49.9	0.00	0.00	0.00
2,500.0	6.91	225.21	2,495.5	-57.3	-57.7	-53.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
2,550.0	6.91	225.21	2,545.1	-61.5	-61.9	-57.9	0.00	0.00	0.00
2,600.0	6.91	225.21	2,594.8	-65.7	-66.2	-61.9	0.00	0.00	0.00
2,650.0	6.91	225.21	2,644.4	-70.0	-70.5	-65.9	0.00	0.00	0.00
2,700.0	6.91	225.21	2,694.1	-74.2	-74.8	-69.9	0.00	0.00	0.00
2,750.0	6.91	225.21	2,743.7	-78.5	-79.0	-73.8	0.00	0.00	0.00
2,800.0	6.91	225.21	2,793.3	-82.7	-83.3	-77.8	0.00	0.00	0.00
2,850.0	6.91	225.21	2,843.0	-86.9	-87.6	-81.8	0.00	0.00	0.00
2,900.0	6.91	225.21	2,892.6	-91.2	-91.8	-85.8	0.00	0.00	0.00
2,950.0	6.91	225.21	2,942.2	-95.4	-96.1	-89.8	0.00	0.00	0.00
3,000.0	6.91	225.21	2,991.9	-99.7	-100.4	-93.8	0.00	0.00	0.00
3,050.0	6.91	225.21	3,041.5	-103.9	-104.6	-97.8	0.00	0.00	0.00
3,100.0	6.91	225.21	3,091.2	-108.1	-108.9	-101.8	0.00	0.00	0.00
3,150.0	6.91	225.21	3,140.8	-112.4	-113.2	-105.8	0.00	0.00	0.00
3,200.0	6.91	225.21	3,190.4	-116.6	-117.5	-109.8	0.00	0.00	0.00
3,250.0	6.91	225.21	3,240.1	-120.8	-121.7	-113.7	0.00	0.00	0.00
3,300.0	6.91	225.21	3,289.7	-125.1	-126.0	-117.7	0.00	0.00	0.00
3,350.0	6.91	225.21	3,339.3	-129.3	-130.3	-121.7	0.00	0.00	0.00
3,400.0	6.91	225.21	3,389.0	-133.6	-134.5	-125.7	0.00	0.00	0.00
3,450.0	6.91	225.21	3,438.6	-137.8	-138.8	-129.7	0.00	0.00	0.00
3,500.0	6.91	225.21	3,488.2	-142.0	-143.1	-133.7	0.00	0.00	0.00
3,550.0	6.91	225.21	3,537.9	-146.3	-147.3	-137.7	0.00	0.00	0.00
3,600.0	6.91	225.21	3,587.5	-150.5	-151.6	-141.7	0.00	0.00	0.00
3,650.0	6.91	225.21	3,637.2	-154.8	-155.9	-145.7	0.00	0.00	0.00
3,700.0	6.91	225.21	3,686.8	-159.0	-160.1	-149.7	0.00	0.00	0.00
3,750.0	6.91	225.21	3,736.4	-163.2	-164.4	-153.6	0.00	0.00	0.00
3,800.0	6.91	225.21	3,786.1	-167.5	-168.7	-157.6	0.00	0.00	0.00
3,850.0	6.91	225.21	3,835.7	-171.7	-173.0	-161.6	0.00	0.00	0.00
3,900.0	6.91	225.21	3,885.3	-176.0	-177.2	-165.6	0.00	0.00	0.00
3,950.0	6.91	225.21	3,935.0	-180.2	-181.5	-169.6	0.00	0.00	0.00
4,000.0	6.91	225.21	3,984.6	-184.4	-185.8	-173.6	0.00	0.00	0.00
4,050.0	6.91	225.21	4,034.2	-188.7	-190.0	-177.6	0.00	0.00	0.00
4,100.0	6.91	225.21	4,083.9	-192.9	-194.3	-181.6	0.00	0.00	0.00
4,150.0	6.91	225.21	4,133.5	-197.1	-198.6	-185.6	0.00	0.00	0.00
4,200.0	6.91	225.21	4,183.2	-201.4	-202.8	-189.6	0.00	0.00	0.00
4,250.0	6.91	225.21	4,232.8	-205.6	-207.1	-193.5	0.00	0.00	0.00
4,300.0	6.91	225.21	4,282.4	-209.9	-211.4	-197.5	0.00	0.00	0.00
4,350.0	6.91	225.21	4,332.1	-214.1	-215.7	-201.5	0.00	0.00	0.00
4,400.0	6.91	225.21	4,381.7	-218.3	-219.9	-205.5	0.00	0.00	0.00
4,450.0	6.91	225.21	4,431.3	-222.6	-224.2	-209.5	0.00	0.00	0.00
4,500.0	6.91	225.21	4,481.0	-226.8	-228.5	-213.5	0.00	0.00	0.00
4,550.0	6.91	225.21	4,530.6	-231.1	-232.7	-217.5	0.00	0.00	0.00
4,600.0	6.91	225.21	4,580.3	-235.3	-237.0	-221.5	0.00	0.00	0.00
4,650.0	6.91	225.21	4,629.9	-239.5	-241.3	-225.5	0.00	0.00	0.00
4,700.0	6.91	225.21	4,679.5	-243.8	-245.5	-229.5	0.00	0.00	0.00
4,750.0	6.91	225.21	4,729.2	-248.0	-249.8	-233.4	0.00	0.00	0.00
4,800.0	6.91	225.21	4,778.8	-252.3	-254.1	-237.4	0.00	0.00	0.00
4,850.0	6.91	225.21	4,828.4	-256.5	-258.4	-241.4	0.00	0.00	0.00
4,900.0	6.91	225.21	4,878.1	-260.7	-262.6	-245.4	0.00	0.00	0.00
4,950.0	6.91	225.21	4,927.7	-265.0	-266.9	-249.4	0.00	0.00	0.00
5,000.0	6.91	225.21	4,977.3	-269.2	-271.2	-253.4	0.00	0.00	0.00
5,050.0	6.91	225.21	5,027.0	-273.4	-275.4	-257.4	0.00	0.00	0.00
5,100.0	6.91	225.21	5,076.6	-277.7	-279.7	-261.4	0.00	0.00	0.00
5,150.0	6.91	225.21	5,126.3	-281.9	-284.0	-265.4	0.00	0.00	0.00
5,200.0	6.91	225.21	5,175.9	-286.2	-288.2	-269.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
5,250.0	6.91	225.21	5,225.5	-290.4	-292.5	-273.3	0.00	0.00	0.00
5,300.0	6.91	225.21	5,275.2	-294.6	-296.8	-277.3	0.00	0.00	0.00
5,350.0	6.91	225.21	5,324.8	-298.9	-301.0	-281.3	0.00	0.00	0.00
5,400.0	6.91	225.21	5,374.4	-303.1	-305.3	-285.3	0.00	0.00	0.00
5,450.0	6.91	225.21	5,424.1	-307.4	-309.6	-289.3	0.00	0.00	0.00
5,500.0	6.91	225.21	5,473.7	-311.6	-313.9	-293.3	0.00	0.00	0.00
5,550.0	6.91	225.21	5,523.4	-315.8	-318.1	-297.3	0.00	0.00	0.00
5,600.0	6.91	225.21	5,573.0	-320.1	-322.4	-301.3	0.00	0.00	0.00
5,650.0	6.91	225.21	5,622.6	-324.3	-326.7	-305.3	0.00	0.00	0.00
5,700.0	6.91	225.21	5,672.3	-328.6	-330.9	-309.3	0.00	0.00	0.00
5,750.0	6.91	225.21	5,721.9	-332.8	-335.2	-313.2	0.00	0.00	0.00
5,800.0	6.91	225.21	5,771.5	-337.0	-339.5	-317.2	0.00	0.00	0.00
5,850.0	6.91	225.21	5,821.2	-341.3	-343.7	-321.2	0.00	0.00	0.00
5,900.0	6.91	225.21	5,870.8	-345.5	-348.0	-325.2	0.00	0.00	0.00
5,950.0	6.91	225.21	5,920.4	-349.7	-352.3	-329.2	0.00	0.00	0.00
6,000.0	6.91	225.21	5,970.1	-354.0	-356.6	-333.2	0.00	0.00	0.00
6,050.0	6.91	225.21	6,019.7	-358.2	-360.8	-337.2	0.00	0.00	0.00
6,100.0	6.91	225.21	6,069.4	-362.5	-365.1	-341.2	0.00	0.00	0.00
6,150.0	6.91	225.21	6,119.0	-366.7	-369.4	-345.2	0.00	0.00	0.00
6,200.0	6.91	225.21	6,168.6	-370.9	-373.6	-349.2	0.00	0.00	0.00
6,250.0	6.91	225.21	6,218.3	-375.2	-377.9	-353.1	0.00	0.00	0.00
6,300.0	6.91	225.21	6,267.9	-379.4	-382.2	-357.1	0.00	0.00	0.00
6,350.0	6.91	225.21	6,317.5	-383.7	-386.4	-361.1	0.00	0.00	0.00
6,400.0	6.91	225.21	6,367.2	-387.9	-390.7	-365.1	0.00	0.00	0.00
6,450.0	6.91	225.21	6,416.8	-392.1	-395.0	-369.1	0.00	0.00	0.00
6,500.0	6.91	225.21	6,466.4	-396.4	-399.2	-373.1	0.00	0.00	0.00
6,550.0	6.91	225.21	6,516.1	-400.6	-403.5	-377.1	0.00	0.00	0.00
6,600.0	6.91	225.21	6,565.7	-404.9	-407.8	-381.1	0.00	0.00	0.00
6,650.0	6.91	225.21	6,615.4	-409.1	-412.1	-385.1	0.00	0.00	0.00
6,700.0	6.91	225.21	6,665.0	-413.3	-416.3	-389.1	0.00	0.00	0.00
6,750.0	6.91	225.21	6,714.6	-417.6	-420.6	-393.0	0.00	0.00	0.00
6,800.0	6.91	225.21	6,764.3	-421.8	-424.9	-397.0	0.00	0.00	0.00
6,850.0	6.91	225.21	6,813.9	-426.0	-429.1	-401.0	0.00	0.00	0.00
6,900.0	6.91	225.21	6,863.5	-430.3	-433.4	-405.0	0.00	0.00	0.00
6,950.0	6.91	225.21	6,913.2	-434.5	-437.7	-409.0	0.00	0.00	0.00
7,000.0	6.91	225.21	6,962.8	-438.8	-441.9	-413.0	0.00	0.00	0.00
7,050.0	6.91	225.21	7,012.5	-443.0	-446.2	-417.0	0.00	0.00	0.00
7,100.0	6.91	225.21	7,062.1	-447.2	-450.5	-421.0	0.00	0.00	0.00
7,150.0	6.91	225.21	7,111.7	-451.5	-454.8	-425.0	0.00	0.00	0.00
7,200.0	6.91	225.21	7,161.4	-455.7	-459.0	-429.0	0.00	0.00	0.00
7,250.0	6.91	225.21	7,211.0	-460.0	-463.3	-432.9	0.00	0.00	0.00
7,300.0	6.91	225.21	7,260.6	-464.2	-467.6	-436.9	0.00	0.00	0.00
7,350.0	6.91	225.21	7,310.3	-468.4	-471.8	-440.9	0.00	0.00	0.00
7,400.0	6.91	225.21	7,359.9	-472.7	-476.1	-444.9	0.00	0.00	0.00
7,450.0	6.91	225.21	7,409.5	-476.9	-480.4	-448.9	0.00	0.00	0.00
7,500.0	6.91	225.21	7,459.2	-481.2	-484.6	-452.9	0.00	0.00	0.00
7,550.0	6.91	225.21	7,508.8	-485.4	-488.9	-456.9	0.00	0.00	0.00
7,600.0	6.91	225.21	7,558.5	-489.6	-493.2	-460.9	0.00	0.00	0.00
7,650.0	6.91	225.21	7,608.1	-493.9	-497.5	-464.9	0.00	0.00	0.00
7,700.0	6.91	225.21	7,657.7	-498.1	-501.7	-468.9	0.00	0.00	0.00
7,750.0	6.91	225.21	7,707.4	-502.3	-506.0	-472.8	0.00	0.00	0.00
7,800.0	6.91	225.21	7,757.0	-506.6	-510.3	-476.8	0.00	0.00	0.00
7,850.0	6.91	225.21	7,806.6	-510.8	-514.5	-480.8	0.00	0.00	0.00
7,900.0	6.91	225.21	7,856.3	-515.1	-518.8	-484.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
7,950.0	6.91	225.21	7,905.9	-519.3	-523.1	-488.8	0.00	0.00	0.00
8,000.0	6.91	225.21	7,955.5	-523.5	-527.3	-492.8	0.00	0.00	0.00
8,050.0	6.91	225.21	8,005.2	-527.8	-531.6	-496.8	0.00	0.00	0.00
8,100.0	6.91	225.21	8,054.8	-532.0	-535.9	-500.8	0.00	0.00	0.00
8,150.0	6.91	225.21	8,104.5	-536.3	-540.1	-504.8	0.00	0.00	0.00
8,200.0	6.91	225.21	8,154.1	-540.5	-544.4	-508.8	0.00	0.00	0.00
8,250.0	6.91	225.21	8,203.7	-544.7	-548.7	-512.7	0.00	0.00	0.00
8,300.0	6.91	225.21	8,253.4	-549.0	-553.0	-516.7	0.00	0.00	0.00
8,350.0	6.91	225.21	8,303.0	-553.2	-557.2	-520.7	0.00	0.00	0.00
8,400.0	6.91	225.21	8,352.6	-557.5	-561.5	-524.7	0.00	0.00	0.00
8,450.0	6.91	225.21	8,402.3	-561.7	-565.8	-528.7	0.00	0.00	0.00
8,500.0	6.91	225.21	8,451.9	-565.9	-570.0	-532.7	0.00	0.00	0.00
8,550.0	6.91	225.21	8,501.6	-570.2	-574.3	-536.7	0.00	0.00	0.00
8,600.0	6.91	225.21	8,551.2	-574.4	-578.6	-540.7	0.00	0.00	0.00
8,650.0	6.91	225.21	8,600.8	-578.6	-582.8	-544.7	0.00	0.00	0.00
8,700.0	6.91	225.21	8,650.5	-582.9	-587.1	-548.7	0.00	0.00	0.00
8,750.0	6.91	225.21	8,700.1	-587.1	-591.4	-552.6	0.00	0.00	0.00
8,800.0	6.91	225.21	8,749.7	-591.4	-595.7	-556.6	0.00	0.00	0.00
8,850.0	6.91	225.21	8,799.4	-595.6	-599.9	-560.6	0.00	0.00	0.00
8,900.0	6.91	225.21	8,849.0	-599.8	-604.2	-564.6	0.00	0.00	0.00
8,950.0	6.91	225.21	8,898.6	-604.1	-608.5	-568.6	0.00	0.00	0.00
9,000.0	6.91	225.21	8,948.3	-608.3	-612.7	-572.6	0.00	0.00	0.00
9,050.0	6.91	225.21	8,997.9	-612.6	-617.0	-576.6	0.00	0.00	0.00
9,100.0	6.91	225.21	9,047.6	-616.8	-621.3	-580.6	0.00	0.00	0.00
9,150.0	6.91	225.21	9,097.2	-621.0	-625.5	-584.6	0.00	0.00	0.00
9,200.0	6.91	225.21	9,146.8	-625.3	-629.8	-588.6	0.00	0.00	0.00
9,250.0	6.91	225.21	9,196.5	-629.5	-634.1	-592.5	0.00	0.00	0.00
9,300.0	6.91	225.21	9,246.1	-633.8	-638.3	-596.5	0.00	0.00	0.00
9,350.0	6.91	225.21	9,295.7	-638.0	-642.6	-600.5	0.00	0.00	0.00
9,400.0	6.91	225.21	9,345.4	-642.2	-646.9	-604.5	0.00	0.00	0.00
9,450.0	6.91	225.21	9,395.0	-646.5	-651.2	-608.5	0.00	0.00	0.00
9,461.3	6.91	225.21	9,406.3	-647.4	-652.1	-609.4	0.00	0.00	0.00
9,500.0	6.14	225.21	9,444.7	-650.5	-655.2	-612.3	2.00	-2.00	0.00
9,550.0	5.14	225.21	9,494.4	-654.0	-658.7	-615.6	2.00	-2.00	0.00
9,600.0	4.14	225.21	9,544.3	-656.8	-661.6	-618.3	2.00	-2.00	0.00
9,650.0	3.14	225.21	9,594.2	-659.1	-663.9	-620.4	2.00	-2.00	0.00
9,700.0	2.14	225.21	9,644.1	-660.7	-665.5	-621.9	2.00	-2.00	0.00
9,750.0	1.14	225.21	9,694.1	-661.7	-666.5	-622.8	2.00	-2.00	0.00
9,800.0	0.14	225.21	9,744.1	-662.1	-666.9	-623.2	2.00	-2.00	0.00
9,806.9	0.00	0.00	9,751.0	-662.1	-666.9	-623.2	2.00	-2.00	0.00
KOP: 2167' FSL & 550' FWL (Sec 36)									
9,850.0	4.31	359.70	9,794.1	-660.5	-666.9	-621.6	10.00	10.00	0.00
9,900.0	9.31	359.70	9,843.7	-654.6	-666.9	-615.7	10.00	10.00	0.00
9,950.0	14.31	359.70	9,892.6	-644.3	-667.0	-605.5	10.00	10.00	0.00
10,000.0	19.31	359.70	9,940.5	-629.9	-667.1	-591.0	10.00	10.00	0.00
10,050.0	24.31	359.70	9,986.9	-611.3	-667.2	-572.5	10.00	10.00	0.00
10,100.0	29.30	359.70	10,031.5	-588.8	-667.3	-550.0	10.00	10.00	0.00
10,150.0	34.30	359.70	10,074.0	-562.4	-667.4	-523.7	10.00	10.00	0.00
10,200.0	39.30	359.70	10,114.0	-532.5	-667.6	-493.8	10.00	10.00	0.00
10,250.0	44.30	359.70	10,151.2	-499.2	-667.8	-460.5	10.00	10.00	0.00
10,300.0	49.30	359.70	10,185.5	-462.7	-667.9	-424.1	10.00	10.00	0.00
10,350.0	54.30	359.70	10,216.4	-423.4	-668.2	-384.9	10.00	10.00	0.00
10,400.0	59.30	359.70	10,243.7	-381.6	-668.4	-343.1	10.00	10.00	0.00
10,450.0	64.30	359.70	10,267.4	-337.6	-668.6	-299.1	10.00	10.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
10,500.0	69.30	359.70	10,287.0	-291.6	-668.8	-253.2	10.00	10.00	0.00
10,550.0	74.30	359.70	10,302.7	-244.1	-669.1	-205.8	10.00	10.00	0.00
10,600.0	79.30	359.70	10,314.1	-195.5	-669.3	-157.2	10.00	10.00	0.00
10,650.0	84.30	359.70	10,321.2	-146.0	-669.6	-107.8	10.00	10.00	0.00
10,700.0	89.30	359.70	10,324.0	-96.1	-669.9	-58.0	10.00	10.00	0.00
10,706.8	89.98	359.70	10,324.0	-89.3	-669.9	-51.2	10.00	10.00	0.00
FTP/LP: 2541' FNL & 550' FWL (Sec 36)									
10,714.0	90.70	359.70	10,324.0	-82.1	-669.9	-43.9	10.00	10.00	0.00
10,750.0	90.70	359.70	10,323.6	-46.1	-670.1	-8.0	0.00	0.00	0.00
10,800.0	90.70	359.70	10,322.9	3.9	-670.4	41.9	0.00	0.00	0.00
10,850.0	90.70	359.70	10,322.3	53.9	-670.7	91.8	0.00	0.00	0.00
10,900.0	90.70	359.70	10,321.7	103.9	-670.9	141.8	0.00	0.00	0.00
10,950.0	90.70	359.70	10,321.1	153.9	-671.2	191.7	0.00	0.00	0.00
11,000.0	90.70	359.70	10,320.5	203.9	-671.4	241.6	0.00	0.00	0.00
11,050.0	90.70	359.70	10,319.9	253.9	-671.7	291.5	0.00	0.00	0.00
11,100.0	90.70	359.70	10,319.3	303.9	-672.0	341.5	0.00	0.00	0.00
11,150.0	90.70	359.70	10,318.7	353.9	-672.2	391.4	0.00	0.00	0.00
11,200.0	90.70	359.70	10,318.1	403.9	-672.5	441.3	0.00	0.00	0.00
11,250.0	90.70	359.70	10,317.4	453.8	-672.8	491.3	0.00	0.00	0.00
11,300.0	90.70	359.70	10,316.8	503.8	-673.0	541.2	0.00	0.00	0.00
11,350.0	90.70	359.70	10,316.2	553.8	-673.3	591.1	0.00	0.00	0.00
11,400.0	90.70	359.70	10,315.6	603.8	-673.5	641.1	0.00	0.00	0.00
11,450.0	90.70	359.70	10,315.0	653.8	-673.8	691.0	0.00	0.00	0.00
11,500.0	90.70	359.70	10,314.4	703.8	-674.1	740.9	0.00	0.00	0.00
11,550.0	90.70	359.70	10,313.8	753.8	-674.3	790.8	0.00	0.00	0.00
11,600.0	90.70	359.70	10,313.2	803.8	-674.6	840.8	0.00	0.00	0.00
11,650.0	90.70	359.70	10,312.6	853.8	-674.9	890.7	0.00	0.00	0.00
11,700.0	90.70	359.70	10,311.9	903.8	-675.1	940.6	0.00	0.00	0.00
11,750.0	90.70	359.70	10,311.3	953.8	-675.4	990.6	0.00	0.00	0.00
11,800.0	90.70	359.70	10,310.7	1,003.8	-675.6	1,040.5	0.00	0.00	0.00
11,850.0	90.70	359.70	10,310.1	1,053.8	-675.9	1,090.4	0.00	0.00	0.00
11,900.0	90.70	359.70	10,309.5	1,103.8	-676.2	1,140.4	0.00	0.00	0.00
11,950.0	90.70	359.70	10,308.9	1,153.8	-676.4	1,190.3	0.00	0.00	0.00
12,000.0	90.70	359.70	10,308.3	1,203.8	-676.7	1,240.2	0.00	0.00	0.00
12,050.0	90.70	359.70	10,307.7	1,253.8	-677.0	1,290.1	0.00	0.00	0.00
12,100.0	90.70	359.70	10,307.1	1,303.8	-677.2	1,340.1	0.00	0.00	0.00
12,150.0	90.70	359.70	10,306.4	1,353.8	-677.5	1,390.0	0.00	0.00	0.00
12,200.0	90.70	359.70	10,305.8	1,403.8	-677.7	1,439.9	0.00	0.00	0.00
12,250.0	90.70	359.70	10,305.2	1,453.8	-678.0	1,489.9	0.00	0.00	0.00
12,300.0	90.70	359.70	10,304.6	1,503.8	-678.3	1,539.8	0.00	0.00	0.00
12,350.0	90.70	359.70	10,304.0	1,553.7	-678.5	1,589.7	0.00	0.00	0.00
12,400.0	90.70	359.70	10,303.4	1,603.7	-678.8	1,639.7	0.00	0.00	0.00
12,450.0	90.70	359.70	10,302.8	1,653.7	-679.1	1,689.6	0.00	0.00	0.00
12,500.0	90.70	359.70	10,302.2	1,703.7	-679.3	1,739.5	0.00	0.00	0.00
12,550.0	90.70	359.70	10,301.6	1,753.7	-679.6	1,789.4	0.00	0.00	0.00
12,600.0	90.70	359.70	10,300.9	1,803.7	-679.8	1,839.4	0.00	0.00	0.00
12,650.0	90.70	359.70	10,300.3	1,853.7	-680.1	1,889.3	0.00	0.00	0.00
12,700.0	90.70	359.70	10,299.7	1,903.7	-680.4	1,939.2	0.00	0.00	0.00
12,750.0	90.70	359.70	10,299.1	1,953.7	-680.6	1,989.2	0.00	0.00	0.00
12,800.0	90.70	359.70	10,298.5	2,003.7	-680.9	2,039.1	0.00	0.00	0.00
12,850.0	90.70	359.70	10,297.9	2,053.7	-681.1	2,089.0	0.00	0.00	0.00
12,900.0	90.70	359.70	10,297.3	2,103.7	-681.4	2,139.0	0.00	0.00	0.00
12,950.0	90.70	359.70	10,296.7	2,153.7	-681.7	2,188.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
13,000.0	90.70	359.70	10,296.1	2,203.7	-681.9	2,238.8	0.00	0.00	0.00
13,050.0	90.70	359.70	10,295.4	2,253.7	-682.2	2,288.7	0.00	0.00	0.00
13,100.0	90.70	359.70	10,294.8	2,303.7	-682.5	2,338.7	0.00	0.00	0.00
13,150.0	90.70	359.70	10,294.2	2,353.7	-682.7	2,388.6	0.00	0.00	0.00
13,200.0	90.70	359.70	10,293.6	2,403.7	-683.0	2,438.5	0.00	0.00	0.00
13,247.4	90.70	359.70	10,293.0	2,451.1	-683.2	2,485.9	0.00	0.00	0.00
PPP2: 0' FSL & 548' FWL (Sec 25)									
13,250.0	90.70	359.70	10,293.0	2,453.7	-683.2	2,488.5	0.00	0.00	0.00
13,300.0	90.70	359.70	10,292.4	2,503.7	-683.5	2,538.4	0.00	0.00	0.00
13,350.0	90.70	359.70	10,291.8	2,553.7	-683.8	2,588.3	0.00	0.00	0.00
13,400.0	90.70	359.70	10,291.2	2,603.7	-684.0	2,638.3	0.00	0.00	0.00
13,450.0	90.70	359.70	10,290.6	2,653.7	-684.3	2,688.2	0.00	0.00	0.00
13,500.0	90.70	359.70	10,289.9	2,703.6	-684.6	2,738.1	0.00	0.00	0.00
13,550.0	90.70	359.70	10,289.3	2,753.6	-684.8	2,788.0	0.00	0.00	0.00
13,600.0	90.70	359.70	10,288.7	2,803.6	-685.1	2,838.0	0.00	0.00	0.00
13,650.0	90.70	359.70	10,288.1	2,853.6	-685.3	2,887.9	0.00	0.00	0.00
13,700.0	90.70	359.70	10,287.5	2,903.6	-685.6	2,937.8	0.00	0.00	0.00
13,750.0	90.70	359.70	10,286.9	2,953.6	-685.9	2,987.8	0.00	0.00	0.00
13,800.0	90.70	359.70	10,286.3	3,003.6	-686.1	3,037.7	0.00	0.00	0.00
13,850.0	90.70	359.70	10,285.7	3,053.6	-686.4	3,087.6	0.00	0.00	0.00
13,900.0	90.70	359.70	10,285.0	3,103.6	-686.7	3,137.6	0.00	0.00	0.00
13,950.0	90.70	359.70	10,284.4	3,153.6	-686.9	3,187.5	0.00	0.00	0.00
14,000.0	90.70	359.70	10,283.8	3,203.6	-687.2	3,237.4	0.00	0.00	0.00
14,050.0	90.70	359.70	10,283.2	3,253.6	-687.4	3,287.3	0.00	0.00	0.00
14,100.0	90.70	359.70	10,282.6	3,303.6	-687.7	3,337.3	0.00	0.00	0.00
14,150.0	90.70	359.70	10,282.0	3,353.6	-688.0	3,387.2	0.00	0.00	0.00
14,200.0	90.70	359.70	10,281.4	3,403.6	-688.2	3,437.1	0.00	0.00	0.00
14,250.0	90.70	359.70	10,280.8	3,453.6	-688.5	3,487.1	0.00	0.00	0.00
14,300.0	90.70	359.70	10,280.2	3,503.6	-688.8	3,537.0	0.00	0.00	0.00
14,350.0	90.70	359.70	10,279.5	3,553.6	-689.0	3,586.9	0.00	0.00	0.00
14,400.0	90.70	359.70	10,278.9	3,603.6	-689.3	3,636.9	0.00	0.00	0.00
14,450.0	90.70	359.70	10,278.3	3,653.6	-689.5	3,686.8	0.00	0.00	0.00
14,500.0	90.70	359.70	10,277.7	3,703.6	-689.8	3,736.7	0.00	0.00	0.00
14,550.0	90.70	359.70	10,277.1	3,753.6	-690.1	3,786.6	0.00	0.00	0.00
14,600.0	90.70	359.70	10,276.5	3,803.5	-690.3	3,836.6	0.00	0.00	0.00
14,650.0	90.70	359.70	10,275.9	3,853.5	-690.6	3,886.5	0.00	0.00	0.00
14,700.0	90.70	359.70	10,275.3	3,903.5	-690.9	3,936.4	0.00	0.00	0.00
14,750.0	90.70	359.70	10,274.7	3,953.5	-691.1	3,986.4	0.00	0.00	0.00
14,800.0	90.70	359.70	10,274.0	4,003.5	-691.4	4,036.3	0.00	0.00	0.00
14,850.0	90.70	359.70	10,273.4	4,053.5	-691.6	4,086.2	0.00	0.00	0.00
14,900.0	90.70	359.70	10,272.8	4,103.5	-691.9	4,136.2	0.00	0.00	0.00
14,950.0	90.70	359.70	10,272.2	4,153.5	-692.2	4,186.1	0.00	0.00	0.00
15,000.0	90.70	359.70	10,271.6	4,203.5	-692.4	4,236.0	0.00	0.00	0.00
15,050.0	90.70	359.70	10,271.0	4,253.5	-692.7	4,285.9	0.00	0.00	0.00
15,100.0	90.70	359.70	10,270.4	4,303.5	-693.0	4,335.9	0.00	0.00	0.00
15,150.0	90.70	359.70	10,269.8	4,353.5	-693.2	4,385.8	0.00	0.00	0.00
15,200.0	90.70	359.70	10,269.2	4,403.5	-693.5	4,435.7	0.00	0.00	0.00
15,250.0	90.70	359.70	10,268.5	4,453.5	-693.7	4,485.7	0.00	0.00	0.00
15,300.0	90.70	359.70	10,267.9	4,503.5	-694.0	4,535.6	0.00	0.00	0.00
15,350.0	90.70	359.70	10,267.3	4,553.5	-694.3	4,585.5	0.00	0.00	0.00
15,400.0	90.70	359.70	10,266.7	4,603.5	-694.5	4,635.5	0.00	0.00	0.00
15,450.0	90.70	359.70	10,266.1	4,653.5	-694.8	4,685.4	0.00	0.00	0.00
15,500.0	90.70	359.70	10,265.5	4,703.5	-695.1	4,735.3	0.00	0.00	0.00
15,550.0	90.70	359.70	10,264.9	4,753.5	-695.3	4,785.2	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
15,600.0	90.70	359.70	10,264.3	4,803.5	-695.6	4,835.2	0.00	0.00	0.00
15,650.0	90.70	359.70	10,263.7	4,853.5	-695.8	4,885.1	0.00	0.00	0.00
15,700.0	90.70	359.70	10,263.0	4,903.5	-696.1	4,935.0	0.00	0.00	0.00
15,750.0	90.70	359.70	10,262.4	4,953.4	-696.4	4,985.0	0.00	0.00	0.00
15,800.0	90.70	359.70	10,261.8	5,003.4	-696.6	5,034.9	0.00	0.00	0.00
15,850.0	90.70	359.70	10,261.2	5,053.4	-696.9	5,084.8	0.00	0.00	0.00
15,900.0	90.70	359.70	10,260.6	5,103.4	-697.1	5,134.8	0.00	0.00	0.00
15,950.0	90.70	359.70	10,260.0	5,153.4	-697.4	5,184.7	0.00	0.00	0.00
16,000.0	90.70	359.70	10,259.4	5,203.4	-697.7	5,234.6	0.00	0.00	0.00
16,050.0	90.70	359.70	10,258.8	5,253.4	-697.9	5,284.5	0.00	0.00	0.00
16,100.0	90.70	359.70	10,258.2	5,303.4	-698.2	5,334.5	0.00	0.00	0.00
16,150.0	90.70	359.70	10,257.5	5,353.4	-698.5	5,384.4	0.00	0.00	0.00
16,200.0	90.70	359.70	10,256.9	5,403.4	-698.7	5,434.3	0.00	0.00	0.00
16,250.0	90.70	359.70	10,256.3	5,453.4	-699.0	5,484.3	0.00	0.00	0.00
16,300.0	90.70	359.70	10,255.7	5,503.4	-699.2	5,534.2	0.00	0.00	0.00
16,350.0	90.70	359.70	10,255.1	5,553.4	-699.5	5,584.1	0.00	0.00	0.00
16,400.0	90.70	359.70	10,254.5	5,603.4	-699.8	5,634.1	0.00	0.00	0.00
16,450.0	90.70	359.70	10,253.9	5,653.4	-700.0	5,684.0	0.00	0.00	0.00
16,500.0	90.70	359.70	10,253.3	5,703.4	-700.3	5,733.9	0.00	0.00	0.00
16,550.0	90.70	359.70	10,252.7	5,753.4	-700.6	5,783.8	0.00	0.00	0.00
16,600.0	90.70	359.70	10,252.0	5,803.4	-700.8	5,833.8	0.00	0.00	0.00
16,650.0	90.70	359.70	10,251.4	5,853.4	-701.1	5,883.7	0.00	0.00	0.00
16,700.0	90.70	359.70	10,250.8	5,903.4	-701.3	5,933.6	0.00	0.00	0.00
16,750.0	90.70	359.70	10,250.2	5,953.4	-701.6	5,983.6	0.00	0.00	0.00
16,800.0	90.70	359.70	10,249.6	6,003.4	-701.9	6,033.5	0.00	0.00	0.00
16,850.0	90.70	359.70	10,249.0	6,053.4	-702.1	6,083.4	0.00	0.00	0.00
16,900.0	90.70	359.70	10,248.4	6,103.3	-702.4	6,133.4	0.00	0.00	0.00
16,950.0	90.70	359.70	10,247.8	6,153.3	-702.7	6,183.3	0.00	0.00	0.00
17,000.0	90.70	359.70	10,247.1	6,203.3	-702.9	6,233.2	0.00	0.00	0.00
17,050.0	90.70	359.70	10,246.5	6,253.3	-703.2	6,283.1	0.00	0.00	0.00
17,100.0	90.70	359.70	10,245.9	6,303.3	-703.4	6,333.1	0.00	0.00	0.00
17,150.0	90.70	359.70	10,245.3	6,353.3	-703.7	6,383.0	0.00	0.00	0.00
17,200.0	90.70	359.70	10,244.7	6,403.3	-704.0	6,432.9	0.00	0.00	0.00
17,250.0	90.70	359.70	10,244.1	6,453.3	-704.2	6,482.9	0.00	0.00	0.00
17,300.0	90.70	359.70	10,243.5	6,503.3	-704.5	6,532.8	0.00	0.00	0.00
17,350.0	90.70	359.70	10,242.9	6,553.3	-704.8	6,582.7	0.00	0.00	0.00
17,400.0	90.70	359.70	10,242.3	6,603.3	-705.0	6,632.7	0.00	0.00	0.00
17,450.0	90.70	359.70	10,241.6	6,653.3	-705.3	6,682.6	0.00	0.00	0.00
17,500.0	90.70	359.70	10,241.0	6,703.3	-705.5	6,732.5	0.00	0.00	0.00
17,550.0	90.70	359.70	10,240.4	6,753.3	-705.8	6,782.4	0.00	0.00	0.00
17,600.0	90.70	359.70	10,239.8	6,803.3	-706.1	6,832.4	0.00	0.00	0.00
17,650.0	90.70	359.70	10,239.2	6,853.3	-706.3	6,882.3	0.00	0.00	0.00
17,700.0	90.70	359.70	10,238.6	6,903.3	-706.6	6,932.2	0.00	0.00	0.00
17,750.0	90.70	359.70	10,238.0	6,953.3	-706.9	6,982.2	0.00	0.00	0.00
17,800.0	90.70	359.70	10,237.4	7,003.3	-707.1	7,032.1	0.00	0.00	0.00
17,850.0	90.70	359.70	10,236.8	7,053.3	-707.4	7,082.0	0.00	0.00	0.00
17,900.0	90.70	359.70	10,236.1	7,103.3	-707.6	7,132.0	0.00	0.00	0.00
17,950.0	90.70	359.70	10,235.5	7,153.3	-707.9	7,181.9	0.00	0.00	0.00
18,000.0	90.70	359.70	10,234.9	7,203.2	-708.2	7,231.8	0.00	0.00	0.00
18,050.0	90.70	359.70	10,234.3	7,253.2	-708.4	7,281.7	0.00	0.00	0.00
18,100.0	90.70	359.70	10,233.7	7,303.2	-708.7	7,331.7	0.00	0.00	0.00
18,150.0	90.70	359.70	10,233.1	7,353.2	-709.0	7,381.6	0.00	0.00	0.00
18,200.0	90.70	359.70	10,232.5	7,403.2	-709.2	7,431.5	0.00	0.00	0.00
18,250.0	90.70	359.70	10,231.9	7,453.2	-709.5	7,481.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
18,300.0	90.70	359.70	10,231.3	7,503.2	-709.7	7,531.4	0.00	0.00	0.00
18,350.0	90.70	359.70	10,230.6	7,553.2	-710.0	7,581.3	0.00	0.00	0.00
18,400.0	90.70	359.70	10,230.0	7,603.2	-710.3	7,631.3	0.00	0.00	0.00
18,450.0	90.70	359.70	10,229.4	7,653.2	-710.5	7,681.2	0.00	0.00	0.00
18,500.0	90.70	359.70	10,228.8	7,703.2	-710.8	7,731.1	0.00	0.00	0.00
18,550.0	90.70	359.70	10,228.2	7,753.2	-711.1	7,781.0	0.00	0.00	0.00
18,600.0	90.70	359.70	10,227.6	7,803.2	-711.3	7,831.0	0.00	0.00	0.00
18,650.0	90.70	359.70	10,227.0	7,853.2	-711.6	7,880.9	0.00	0.00	0.00
18,700.0	90.70	359.70	10,226.4	7,903.2	-711.8	7,930.8	0.00	0.00	0.00
18,750.0	90.70	359.70	10,225.8	7,953.2	-712.1	7,980.8	0.00	0.00	0.00
18,800.0	90.70	359.70	10,225.1	8,003.2	-712.4	8,030.7	0.00	0.00	0.00
18,850.0	90.70	359.70	10,224.5	8,053.2	-712.6	8,080.6	0.00	0.00	0.00
18,900.0	90.70	359.70	10,223.9	8,103.2	-712.9	8,130.6	0.00	0.00	0.00
18,950.0	90.70	359.70	10,223.3	8,153.2	-713.2	8,180.5	0.00	0.00	0.00
19,000.0	90.70	359.70	10,222.7	8,203.2	-713.4	8,230.4	0.00	0.00	0.00
19,050.0	90.70	359.70	10,222.1	8,253.2	-713.7	8,280.3	0.00	0.00	0.00
19,100.0	90.70	359.70	10,221.5	8,303.2	-713.9	8,330.3	0.00	0.00	0.00
19,150.0	90.70	359.70	10,220.9	8,353.1	-714.2	8,380.2	0.00	0.00	0.00
19,200.0	90.70	359.70	10,220.3	8,403.1	-714.5	8,430.1	0.00	0.00	0.00
19,250.0	90.70	359.70	10,219.6	8,453.1	-714.7	8,480.1	0.00	0.00	0.00
19,300.0	90.70	359.70	10,219.0	8,503.1	-715.0	8,530.0	0.00	0.00	0.00
19,350.0	90.70	359.70	10,218.4	8,553.1	-715.2	8,579.9	0.00	0.00	0.00
19,400.0	90.70	359.70	10,217.8	8,603.1	-715.5	8,629.9	0.00	0.00	0.00
19,450.0	90.70	359.70	10,217.2	8,653.1	-715.8	8,679.8	0.00	0.00	0.00
19,500.0	90.70	359.70	10,216.6	8,703.1	-716.0	8,729.7	0.00	0.00	0.00
19,550.0	90.70	359.70	10,216.0	8,753.1	-716.3	8,779.6	0.00	0.00	0.00
19,600.0	90.70	359.70	10,215.4	8,803.1	-716.6	8,829.6	0.00	0.00	0.00
19,650.0	90.70	359.70	10,214.8	8,853.1	-716.8	8,879.5	0.00	0.00	0.00
19,700.0	90.70	359.70	10,214.1	8,903.1	-717.1	8,929.4	0.00	0.00	0.00
19,750.0	90.70	359.70	10,213.5	8,953.1	-717.3	8,979.4	0.00	0.00	0.00
19,800.0	90.70	359.70	10,212.9	9,003.1	-717.6	9,029.3	0.00	0.00	0.00
19,850.0	90.70	359.70	10,212.3	9,053.1	-717.9	9,079.2	0.00	0.00	0.00
19,900.0	90.70	359.70	10,211.7	9,103.1	-718.1	9,129.2	0.00	0.00	0.00
19,950.0	90.70	359.70	10,211.1	9,153.1	-718.4	9,179.1	0.00	0.00	0.00
20,000.0	90.70	359.70	10,210.5	9,203.1	-718.7	9,229.0	0.00	0.00	0.00
20,050.0	90.70	359.70	10,209.9	9,253.1	-718.9	9,278.9	0.00	0.00	0.00
20,100.0	90.70	359.70	10,209.2	9,303.1	-719.2	9,328.9	0.00	0.00	0.00
20,150.0	90.70	359.70	10,208.6	9,353.1	-719.4	9,378.8	0.00	0.00	0.00
20,200.0	90.70	359.70	10,208.0	9,403.1	-719.7	9,428.7	0.00	0.00	0.00
20,250.0	90.70	359.70	10,207.4	9,453.0	-720.0	9,478.7	0.00	0.00	0.00
20,300.0	90.70	359.70	10,206.8	9,503.0	-720.2	9,528.6	0.00	0.00	0.00
20,350.0	90.70	359.70	10,206.2	9,553.0	-720.5	9,578.5	0.00	0.00	0.00
20,400.0	90.70	359.70	10,205.6	9,603.0	-720.8	9,628.5	0.00	0.00	0.00
20,450.0	90.70	359.70	10,205.0	9,653.0	-721.0	9,678.4	0.00	0.00	0.00
20,500.0	90.70	359.70	10,204.4	9,703.0	-721.3	9,728.3	0.00	0.00	0.00
20,550.0	90.70	359.70	10,203.7	9,753.0	-721.5	9,778.2	0.00	0.00	0.00
20,600.0	90.70	359.70	10,203.1	9,803.0	-721.8	9,828.2	0.00	0.00	0.00
20,650.0	90.70	359.70	10,202.5	9,853.0	-722.1	9,878.1	0.00	0.00	0.00
20,700.0	90.70	359.70	10,201.9	9,903.0	-722.3	9,928.0	0.00	0.00	0.00
20,750.0	90.70	359.70	10,201.3	9,953.0	-722.6	9,978.0	0.00	0.00	0.00
20,800.0	90.70	359.70	10,200.7	10,003.0	-722.9	10,027.9	0.00	0.00	0.00
20,850.0	90.70	359.70	10,200.1	10,053.0	-723.1	10,077.8	0.00	0.00	0.00
20,900.0	90.70	359.70	10,199.5	10,103.0	-723.4	10,127.8	0.00	0.00	0.00
20,950.0	90.70	359.70	10,198.9	10,153.0	-723.6	10,177.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)	
21,000.0	90.70	359.70	10,198.2	10,203.0	-723.9	10,227.6	0.00	0.00	0.00	
21,050.0	90.70	359.70	10,197.6	10,253.0	-724.2	10,277.5	0.00	0.00	0.00	
21,100.0	90.70	359.70	10,197.0	10,303.0	-724.4	10,327.5	0.00	0.00	0.00	
21,150.0	90.70	359.70	10,196.4	10,353.0	-724.7	10,377.4	0.00	0.00	0.00	
21,169.4	90.70	359.70	10,196.2	10,372.4	-724.8	10,396.8	0.00	0.00	0.00	
PPP3: 2642' FNL & 548' FWL (Sec 24)										
21,200.0	90.70	359.70	10,195.8	10,403.0	-725.0	10,427.3	0.00	0.00	0.00	
21,250.0	90.70	359.70	10,195.2	10,453.0	-725.2	10,477.3	0.00	0.00	0.00	
21,300.0	90.70	359.70	10,194.6	10,503.0	-725.5	10,527.2	0.00	0.00	0.00	
21,350.0	90.70	359.70	10,194.0	10,553.0	-725.7	10,577.1	0.00	0.00	0.00	
21,400.0	90.70	359.70	10,193.4	10,602.9	-726.0	10,627.1	0.00	0.00	0.00	
21,450.0	90.70	359.70	10,192.7	10,652.9	-726.3	10,677.0	0.00	0.00	0.00	
21,500.0	90.70	359.70	10,192.1	10,702.9	-726.5	10,726.9	0.00	0.00	0.00	
21,550.0	90.70	359.70	10,191.5	10,752.9	-726.8	10,776.8	0.00	0.00	0.00	
21,600.0	90.70	359.70	10,190.9	10,802.9	-727.1	10,826.8	0.00	0.00	0.00	
21,650.0	90.70	359.70	10,190.3	10,852.9	-727.3	10,876.7	0.00	0.00	0.00	
21,700.0	90.70	359.70	10,189.7	10,902.9	-727.6	10,926.6	0.00	0.00	0.00	
21,750.0	90.70	359.70	10,189.1	10,952.9	-727.8	10,976.6	0.00	0.00	0.00	
21,800.0	90.70	359.70	10,188.5	11,002.9	-728.1	11,026.5	0.00	0.00	0.00	
21,850.0	90.70	359.70	10,187.9	11,052.9	-728.4	11,076.4	0.00	0.00	0.00	
21,900.0	90.70	359.70	10,187.2	11,102.9	-728.6	11,126.4	0.00	0.00	0.00	
21,950.0	90.70	359.70	10,186.6	11,152.9	-728.9	11,176.3	0.00	0.00	0.00	
22,000.0	90.70	359.70	10,186.0	11,202.9	-729.2	11,226.2	0.00	0.00	0.00	
22,050.0	90.70	359.70	10,185.4	11,252.9	-729.4	11,276.1	0.00	0.00	0.00	
22,100.0	90.70	359.70	10,184.8	11,302.9	-729.7	11,326.1	0.00	0.00	0.00	
22,150.0	90.70	359.70	10,184.2	11,352.9	-729.9	11,376.0	0.00	0.00	0.00	
22,200.0	90.70	359.70	10,183.6	11,402.9	-730.2	11,425.9	0.00	0.00	0.00	
22,250.0	90.70	359.70	10,183.0	11,452.9	-730.5	11,475.9	0.00	0.00	0.00	
22,300.0	90.70	359.70	10,182.4	11,502.9	-730.7	11,525.8	0.00	0.00	0.00	
22,350.0	90.70	359.70	10,181.7	11,552.9	-731.0	11,575.7	0.00	0.00	0.00	
22,400.0	90.70	359.70	10,181.1	11,602.9	-731.2	11,625.7	0.00	0.00	0.00	
22,450.0	90.70	359.70	10,180.5	11,652.9	-731.5	11,675.6	0.00	0.00	0.00	
22,500.0	90.70	359.70	10,179.9	11,702.9	-731.8	11,725.5	0.00	0.00	0.00	
22,550.0	90.70	359.70	10,179.3	11,752.8	-732.0	11,775.4	0.00	0.00	0.00	
22,600.0	90.70	359.70	10,178.7	11,802.8	-732.3	11,825.4	0.00	0.00	0.00	
22,650.0	90.70	359.70	10,178.1	11,852.8	-732.6	11,875.3	0.00	0.00	0.00	
22,700.0	90.70	359.70	10,177.5	11,902.8	-732.8	11,925.2	0.00	0.00	0.00	
22,750.0	90.70	359.70	10,176.9	11,952.8	-733.1	11,975.2	0.00	0.00	0.00	
22,800.0	90.70	359.70	10,176.2	12,002.8	-733.3	12,025.1	0.00	0.00	0.00	
22,850.0	90.70	359.70	10,175.6	12,052.8	-733.6	12,075.0	0.00	0.00	0.00	
22,900.0	90.70	359.70	10,175.0	12,102.8	-733.9	12,125.0	0.00	0.00	0.00	
22,950.0	90.70	359.70	10,174.4	12,152.8	-734.1	12,174.9	0.00	0.00	0.00	
23,000.0	90.70	359.70	10,173.8	12,202.8	-734.4	12,224.8	0.00	0.00	0.00	
23,050.0	90.70	359.70	10,173.2	12,252.8	-734.7	12,274.7	0.00	0.00	0.00	
23,100.0	90.70	359.70	10,172.6	12,302.8	-734.9	12,324.7	0.00	0.00	0.00	
23,150.0	90.70	359.70	10,172.0	12,352.8	-735.2	12,374.6	0.00	0.00	0.00	
23,200.0	90.70	359.70	10,171.3	12,402.8	-735.4	12,424.5	0.00	0.00	0.00	
23,250.0	90.70	359.70	10,170.7	12,452.8	-735.7	12,474.5	0.00	0.00	0.00	
23,300.0	90.70	359.70	10,170.1	12,502.8	-736.0	12,524.4	0.00	0.00	0.00	
23,350.0	90.70	359.70	10,169.5	12,552.8	-736.2	12,574.3	0.00	0.00	0.00	
23,400.0	90.70	359.70	10,168.9	12,602.8	-736.5	12,624.3	0.00	0.00	0.00	
23,450.0	90.70	359.70	10,168.3	12,652.8	-736.8	12,674.2	0.00	0.00	0.00	
23,500.0	90.70	359.70	10,167.7	12,702.8	-737.0	12,724.1	0.00	0.00	0.00	
23,550.0	90.70	359.70	10,167.1	12,752.8	-737.3	12,774.0	0.00	0.00	0.00	

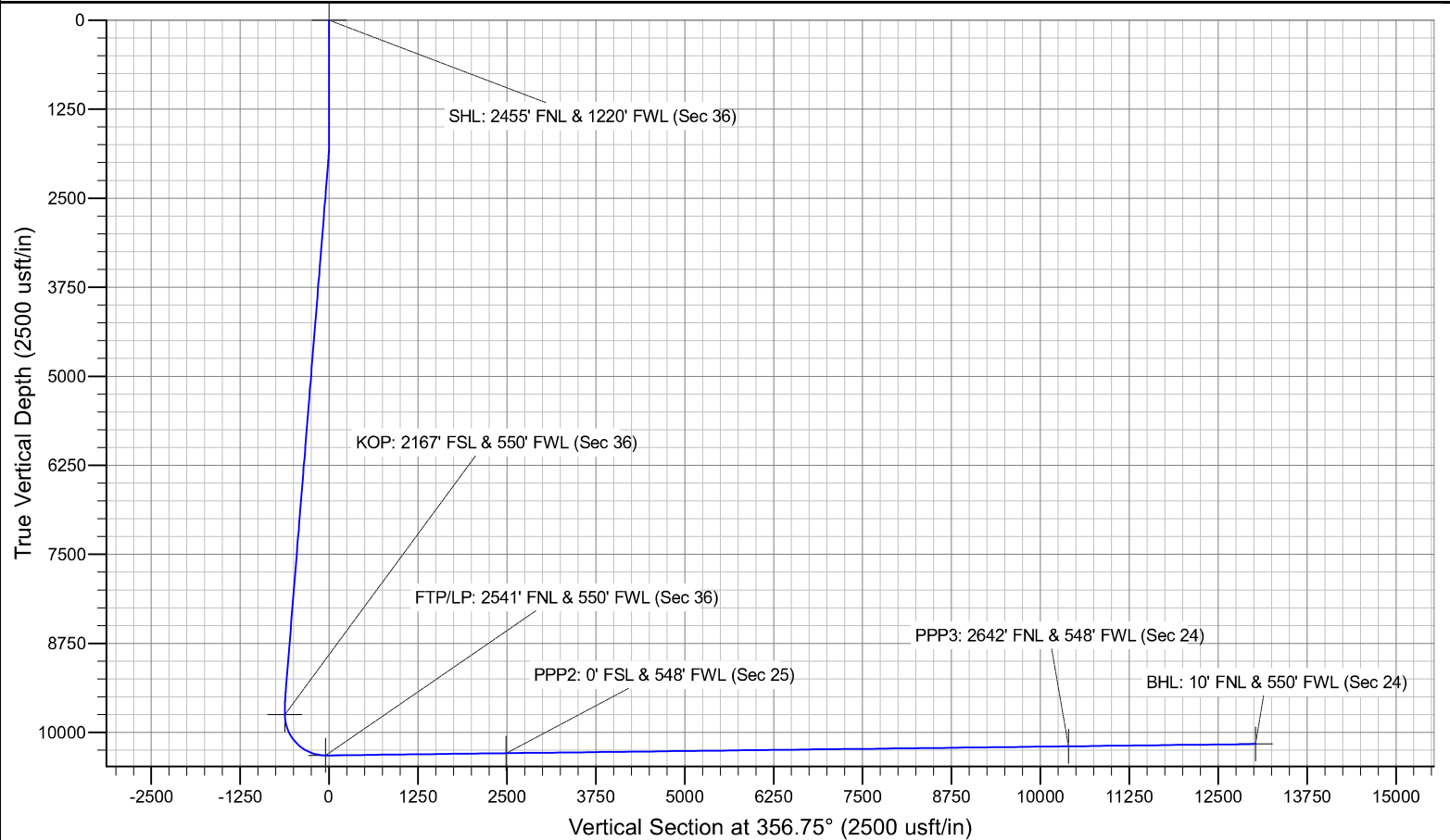
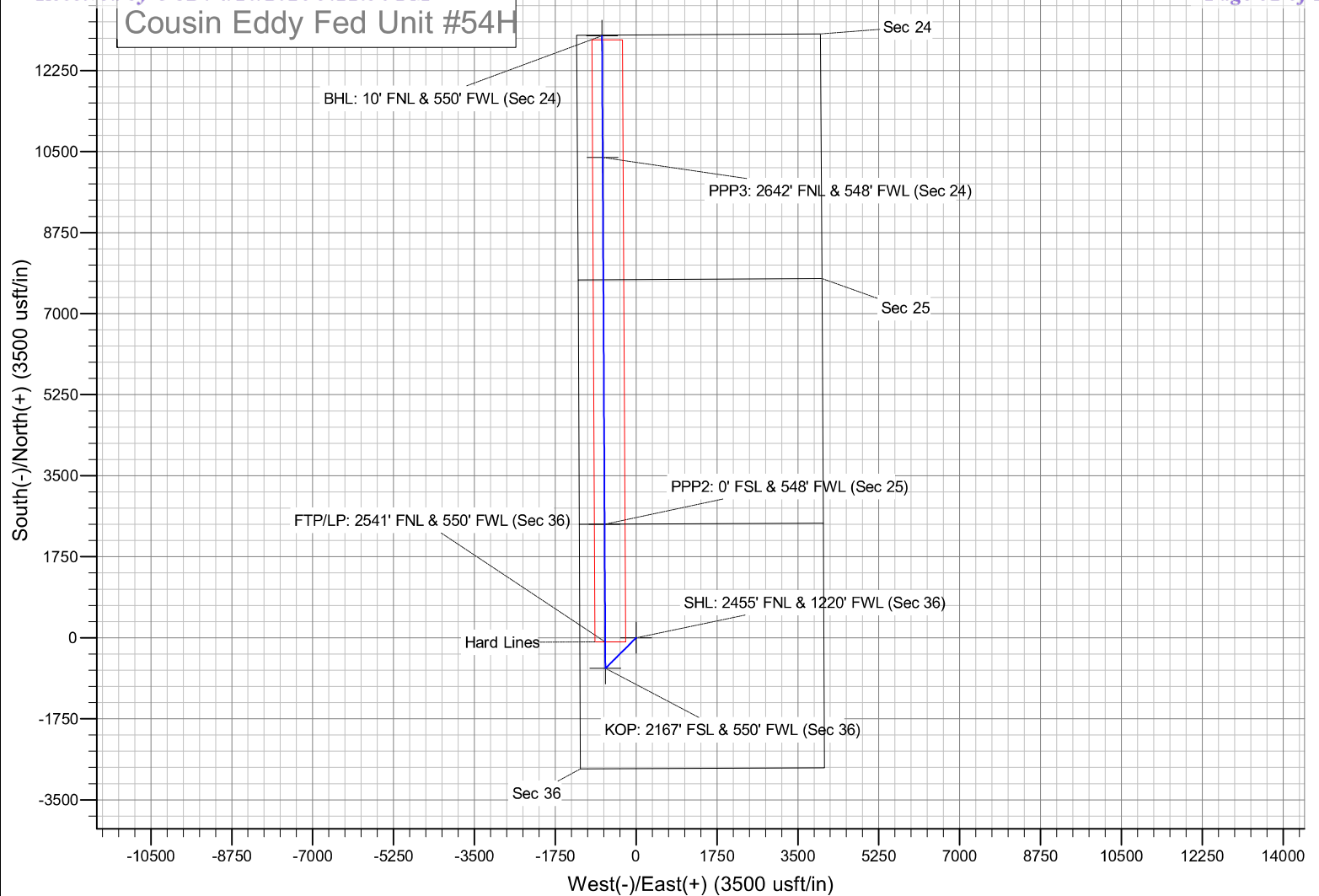
Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Cousin Eddy Fed Unit #54H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3593.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3593.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #54H	North Reference:	Grid
Well:	Sec 36, T21S, R31E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 10' FNL & 550' FWL (Sec 24)		
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)
23,600.0	90.70	359.70	10,166.5	12,802.8	-737.5	12,824.0	0.00	0.00	0.00
23,650.0	90.70	359.70	10,165.8	12,852.7	-737.8	12,873.9	0.00	0.00	0.00
23,700.0	90.70	359.70	10,165.2	12,902.7	-738.1	12,923.8	0.00	0.00	0.00
23,750.0	90.70	359.70	10,164.6	12,952.7	-738.3	12,973.8	0.00	0.00	0.00
23,800.0	90.70	359.70	10,164.0	13,002.7	-738.6	13,023.7	0.00	0.00	0.00
23,801.1	90.70	359.70	10,164.0	13,003.8	-738.6	13,024.8	0.00	0.00	0.00
BHL: 10' FNL & 550' FWL (Sec 24)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL: 2455' FNL & 1220' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	522,703.30	725,596.90	32.4355611	-103.7360893
KOP: 2167' FSL & 550' F - plan hits target center - Point	0.00	0.00	9,751.0	-662.1	-666.9	522,041.20	724,930.00	32.4337514	-103.7382628
BHL: 10' FNL & 550' FW - plan hits target center - Point	0.00	0.00	10,164.0	13,003.8	-738.6	535,707.10	724,858.30	32.4713154	-103.7382483
PPP3: 2642' FNL & 548' - plan hits target center - Point	0.00	0.00	10,196.2	10,372.4	-724.8	533,075.70	724,872.10	32.4640824	-103.7382511
PPP2: 0' FSL & 548' FW - plan hits target center - Point	0.00	0.00	10,293.0	2,451.1	-683.2	525,154.40	724,913.66	32.4423088	-103.7382595
FTP/LP: 2541' FNL & 55 - plan hits target center - Point	0.00	0.00	10,324.0	-89.3	-669.9	522,614.00	724,926.99	32.4353259	-103.7382622

Cousin Eddy Fed Unit #54H



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: MEWBOURNE OIL CO. **OGRID:** 14744 **Date:** 2 / 3 / 26

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe:

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

[illegible]

IV. Central Delivery Point Name: COUSIN EDDY FED UNIT [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
COUSIN EDDY FED UNIT		3/3/26	4/3/26	5/3/26	5/28/26	6/2/26

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	
Printed Name:	BRADLEY BISHOP
Title:	REGULATORY MANAGER
E-mail Address:	BBISHOP@MEWBOURNE.COM
Date:	2/3/2026
Phone:	575-393-5905
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

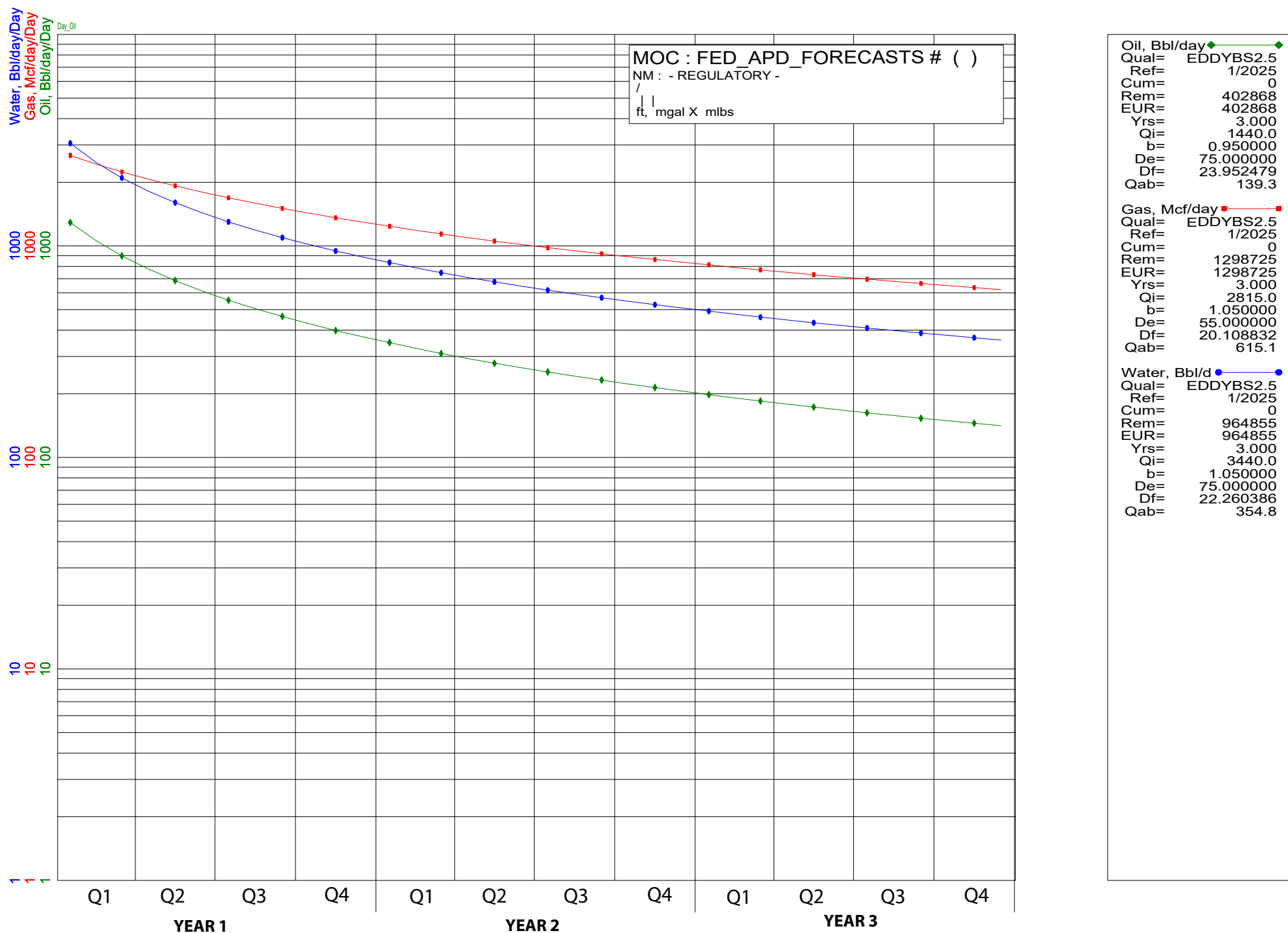
Mewbourne Oil Company

Natural Gas Management Plan – Attachment

- VI. Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing ProMax modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Mewbourne Oil Company (MOC) will take following actions to comply with the regulations listed in 19.15.27.8 :
- A. MOC will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. MOC will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100 ft from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flow will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, MOC will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. MOC will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. MOC will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(1) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs in order to minimize the waste. Production storage tanks constructed after May 25, 2021 will be equipped with automatic gauging system. Flares constructed after May 25, 2021 will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. MOC will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
 - F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured or estimated. MOC will install equipment to measure

the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021 that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, MOC will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.



Mewbourne Oil Company R-111Q Procedure

Mewbourne Oil Company request permission to perform Open Hole Annulus procedure per R-111Q guidelines to be implemented as follows:

Production String

a) The Production string shall consist new oil field casing in good condition that meets API specifications, rated for the loads expected over the lifecycle of the well.

b) For wells within the KPLA where a 2nd intermediate string will not be utilized resulting in a 3 String Design (Surface, Salt or Salt/Capitan Reef, Production), the following safeguard shall apply to safely divert flow of wellbore fluids away from the Salt Interval in the event of a catastrophic production casing failure. The Surface Equipment utilized during stimulation operations should be designed to relieve pressure from the production x intermediate casing annulus below the burst threshold of the casing string components.

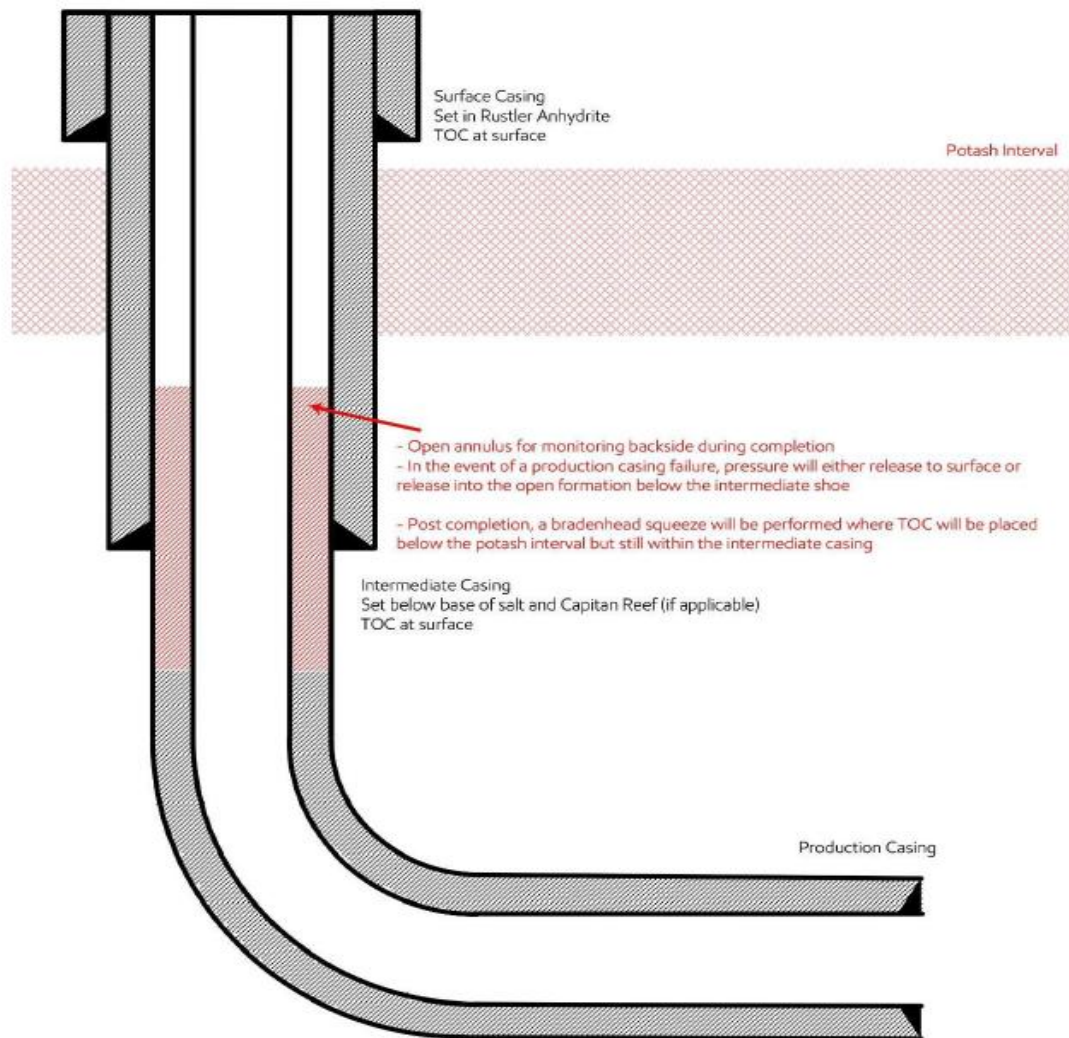
i. A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 1st Intermediate String. Reference wellbore diagram.

i. The top of cement in the Production Casing x 1st Intermediate Casing Annulus shall stand uncemented at least 500' below the 1st Intermediate Casing Shoe. Zero percent excess shall be pumped on the Production Cementing Slurry to ensure no tie-back into the 1st Intermediate Casing Shoe.

ii. After Stimulation Operations have been concluded and no longer than 180 days after the well is brought online, the operator will be responsible for Bradenheading cement to ensure at least a 500' tie back has been established inside the 1st Intermediate (Salt String / Capitan String) but not higher than Marker Bed No. 126 (base of the Potash mining interval).

iii. The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid.

3-String Design – Open Production Casing Annulus



Mewbourne Oil Company, Cousin Eddy Fed Unit 54H
Sec 36, T21S, R31E
SHL: 2455' FNL 1220' FWL (Sec 36)
BHL: 10' FNL 550' FWL (Sec 24)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	645'	645'	13.375" 48# H40 STC	2.67	6.00	10.40	17.47
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.86	3.56
Intermediate	12.25"	3385'	3385'	4295'	4295'	9.625" 40# J55 LTC	1.13	1.73	14.29	17.31
Production	8.75"	0'	0'	9806'	9751'	7" 26# P110 LTC	1.27	2.02	2.72	3.26
Liner	6.125"	9606'	9580'	23801'	10164'	4.5" 13.5# P110 LTC	1.73	2.01	2.43	3.03

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	300	12.5	2.12	0' - 455'	640	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	455' - 645'	268		Class C: Retarder
9.625 in	LEAD	700	12.5	2.12	0' - 3640'	1490	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3640' - 4295'	268		Class C: Retarder
7 in	LEAD	100	12.5	2.12	5295' - 6729'	220	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6729' - 9806'	472		Class H: Retarder, Fluid Loss, Defoamer
7" TOC @ 5295', BHS TOC @ 3795'								
Braden Head Sqz	LEAD	210	14.8	1.34	3795' - 5295'	290	25%	Class C
4.5 in	LEAD	910	13.5	1.85	9606' - 23801'	1690	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	645'	645'	13.375" 48# H40 STC	2.67	6.00	10.40	17.47
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.86	3.56
Intermediate	12.25"	3385'	3385'	4295'	4295'	9.625" 40# J55 LTC	1.13	1.73	14.29	17.31
Production	8.75"	0'	0'	10706'	10324'	7" 26# P110 LTC	1.20	1.91	2.49	2.98
Liner	6.125"	9806'	9751'	23801'	10164'	4.5" 13.5# P110 LTC	1.73	2.01	2.43	3.03

Design B - Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft³/sack	TOC/BOC	Volume ft³	% Excess	Slurry Description
13.375 in	LEAD	300	12.5	2.12	0' - 455'	640	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	455' - 645'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	670	12.5	2.12	0' - 3617'	1430	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3617' - 4295'	268		Class C: Retarder
7 in	LEAD	110	12.5	2.12	5295' - 6860'	240	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	500	15.6	1.18	6860' - 10706'	590		Class H: Retarder, Fluid Loss, Defoamer
7" TOC @ 5295', BHS TOC @ 3795'								
Braden Head Sqz	LEAD	210	14.8	1.34	3795' - 5295'	290	25%	Class C
4.5 in	LEAD	890	13.5	1.85	9806' - 23801'	1650	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Mewbourne Oil Company, Cousin Eddy Fed Unit 54H
Sec 36, T21S, R31E
SHL: 2455' FNL 1220' FWL (Sec 36)
BHL: 10' FNL 550' FWL (Sec 24)

Well Location		GL: 3565'									
Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 2455' FNL & 1220' FWL (Sec 36)	State	SWNW	36	21S	31E	Eddy	32.4355612	- 103.7360893	0'	0'
KOP	KOP: 2167' FSL & 550' FWL (Sec 36)	State	NESW	36	21S	31E	Eddy	32.4337513	- 103.7382628	9,751'	9,806'
FTP	FTP/LP: 2541' FNL & 550' FWL (Sec 36)	State	SENW	36	21S	31E	Eddy	32.4353260	- 103.7382608	10,324'	10,706'
PPP2	PPP2: 0' FSL & 548' FWL (Sec 25)	NMNM061358	SESW	25	21S	31E	Eddy	32.4423088	- 103.7382584	10,293'	13,247'
PPP3	PPP3: 2642' FNL & 548' FWL (Sec 24)	NMNM135245	SENW	24	21S	31E	Eddy	32.4640824	- 103.7382508	10,196'	21,169'
BHL	BHL: 10' FNL & 550' FWL (Sec 24)	NMNM135245	NENW	24	21S	31E	Eddy	32.4713153	- 103.7382482	10,164'	23,801'

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	570'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)	4370'	Limestone	Oil/Natural Gas
Salt Top	850'	Salt	None	Bell Canyon	4450'	Sandstone	Oil/Natural Gas
Castile				Cherry Canyon	5300'	Sandstone	Oil/Natural Gas
Marker Bed 126	1652'	Salt	None	Manzanita Marker			
Salt Base	4120'	Salt	None	Basal Brushy Canyon	6600'	Sandstone	Oil/Natural Gas
Yates				Bone Spring	8300'	Limestone/Shale	Oil/Natural Gas
Seven Rivers				1st Bone Spring Carbonate	8560'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring Sand	9400'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate	9960'	Limestone	Oil/Natural Gas
Grayburg				2nd Bone Spring Sand	10160'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring Carbonate	10540'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	11190'	Sandstone	Oil/Natural Gas
Yeso				Wolfcamp	11600'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	645'	645'	13.375" 48# H40 STC	2.67	6.00	10.40	17.47
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.86	3.56
Intermediate	12.25"	3385'	3385'	4295'	4295'	9.625" 40# J55 LTC	1.13	1.73	14.29	17.31
Production	8.75"	0'	0'	9806'	9751'	7" 26# P110 LTC	1.27	2.02	2.72	3.26
Liner	6.125"	9606'	9580'	23801'	10164'	4.5" 13.5# P110 LTC	1.73	2.01	2.43	3.03

All casing strings will be tested in accordance with 43 CFR Part 3172. 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.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100’ to 600’ below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Cousin Eddy Fed Unit 54H
Sec 36, T21S, R31E
SHL: 2455' FNL 1220' FWL (Sec 36)
BHL: 10' FNL 550' FWL (Sec 24)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	300	12.5	2.12	0' - 455'	640	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	455' - 645'	268		Class C: Retarder
9.625 in	LEAD	700	12.5	2.12	0' - 3640'	1490	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3640' - 4295'	268		Class C: Retarder
7 in	LEAD	100	12.5	2.12	5295' - 6729'	220	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6729' - 9806'	472		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	910	13.5	1.85	9606' - 23801'	1690	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	23,801'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, 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.

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 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.

Y	Formation integrity test will be performed per 43 CFR Part 3172. 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 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 645'	8.4 - 8.6	Fresh Water
645' - 4295'	10.0 - 10.2	Brine
4295' - 9806'	8.6 - 9.7	Cut-Brine
9806' - 23801'	10.0 - 11.5	OBM

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

Mewbourne Oil Company, Cousin Eddy Fed Unit 54H
Sec 36, T21S, R31E
SHL: 2455' FNL 1220' FWL (Sec 36)
BHL: 10' FNL 550' FWL (Sec 24)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (9806') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Cousin Eddy Fed Unit #55H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐ Caliper	☐ Cement Bond Log	☐ CNL/FDC
☐ Compensated Densilog	☐ Compensated Neutron Log	☐ Computer Generated Log
☐ Dip Meter Log	☒ Directional Survey	☐ Dual Induction/Microresistivity
☐ Dual Lateral Log/Microspherically Focused	☐ Electric Log	☐ Formation Density Compensated Log
☐ Gamma Ray Log	☒ Measurement While Drilling	☐ Mud Log/Geological Lithology Log
☐ Other	☐ Porosity-Resistivity Log	☐ Sidewall Neutron Log
☐ Sonic Log	☐ Spontaneous Potential Log	☐ Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6174 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	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, Cousin Eddy Fed Unit 54H
Sec 36, T21S, R31E
SHL: 2455' FNL 1220' FWL (Sec 36)
BHL: 10' FNL 550' FWL (Sec 24)

Other facets of operation

Mewbourne Oil Company requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design. Mewbourne Oil Company will not introduce any additives that contain PFAS chemicals in the completion or recompletion of the well.

☐ Deep Conductor

Offline Cementing Variance: Variance is requested to perform offline cementing according to the attached procedure. **R-111Q:** Mewbourne proposes performing Open Hole Cementing per R-111Q Guidelines if well is in Potash.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD	Casing Description	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	645'	645'	13.375" 48# H40 STC	2.67	6.00	10.40	17.47
Intermediate	12.25"	0'	0'	3385'	3385'	9.625" 36# J55 LTC	1.13	1.96	2.86	3.56
Intermediate	12.25"	3385'	3385'	4295'	4295'	9.625" 40# J55 LTC	1.13	1.73	14.29	17.31
Production	8.75"	0'	0'	10706'	10324'	7" 26# P110 LTC	1.20	1.91	2.49	2.98
Liner	6.125"	9806'	9751'	23801'	10164'	4.5" 13.5# P110 LTC	1.73	2.01	2.43	3.03

All casing strings will be tested in accordance with 43 CFR Part 3172. 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.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	
Is well located in R-111-Q and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100’ to 600’ below the base of salt?	Y
Is an open annulus used to satisfy R-111-Q? If yes, see cement design.	Y
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	300	12.5	2.12	0' - 455'	640	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	455' - 645'	268		Class C: Retarder
9.625 in	LEAD	700	12.5	2.12	0' - 3640'	1490	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	3640' - 4295'	268		Class C: Retarder
7 in	LEAD	110	12.5	2.12	5295' - 6860'	240	0%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	500	15.6	1.18	6860' - 10706'	590		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	900	13.5	1.85	9806' - 23801'	1670	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent



Mewbourne Oil Co.

BOP Break Testing Variance

Mewbourne Oil Company requests a variance from the minimum standards for well control equipment testing of 43 CFR 3172 to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with batch drilling & offline cementing operations. Modern rig upgrades which facilitate pad drilling allow the BOP stack to be moved between wells on a multi-well pad without breaking any BOP stack components apart. Widespread use of these technologies has led to break testing BOPE being endorsed as safe and reliable. American Petroleum Institute (API) best practices are frequently used by regulators to develop their regulations. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (5th Ed., Dec. 2018) Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component."

Procedures

1. Full BOPE test at first installation on the pad.
 - Full BOPE test at least every 21 days.
 - Function test BOP elements per 43 CFR 3172.
 - Contact the BLM if a well control event occurs.
2. After the well section is secured and the well is confirmed to be static, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. Two breaks on the BOPE will be made (Fig. 1).
 - Connection between the flex line and the HCR valve
 - Connection between the wellhead and the BOP quick connect (Fig. 5 & 6).
3. A capping flange will be installed after cementing per wellhead vendor procedure & casing pressure will be monitored via wellhead valve.
4. The BOP will be removed and carried by a hydraulic carrier (Fig. 3 & 4).
5. The rig will then walk to the next well.
6. Confirm that the well is static and remove the capping flange.
7. The connection between the flex line and HCR valve and the connection between the wellhead and the BOP quick connect will be reconnected.
8. Install a test plug into the wellhead.
9. A test will then be conducted against the upper pipe rams and choke, testing both breaks (Fig. 1 & 2).
10. The test will be held at 250 psi low and to the high value submitted in the APD, not to exceed 5000 psi.
11. The annular, blind rams and lower pipe rams will then be function tested.
12. If a pad consists of three or more wells, steps 4 through 11 will be repeated.



13. A break test will only be conducted if the intermediate section can be drilled and cased within 21 days of the last full BOPE test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool and/or cement head
- Capping flange after cementing

Summary

A variance is requested to only test broken pressure seals on the BOPE when moving between wells on a multi-well pad if the following conditions are met:

- A full BOPE test is conducted on the first well on the pad. API Standard 53 requires testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater.
- If the first well on the pad is not the well with the deepest intermediate section, a full BOPE test will also be performed when moving to a deeper well.
- The hole section being drilled has a MASP under 5000 psi.
- If a well control event occurs, Mewbourne will contact BLM for permission to continue break testing.
- If significant (>50%) losses occur, full BOPE testing will be required going forward.
- Full BOPE test will be required prior to drilling the production hole.

While walking the rig, the BOP stack will be secured via hydraulic winch or hydraulic carrier. A full BOPE test will be performed at least every 21 days.

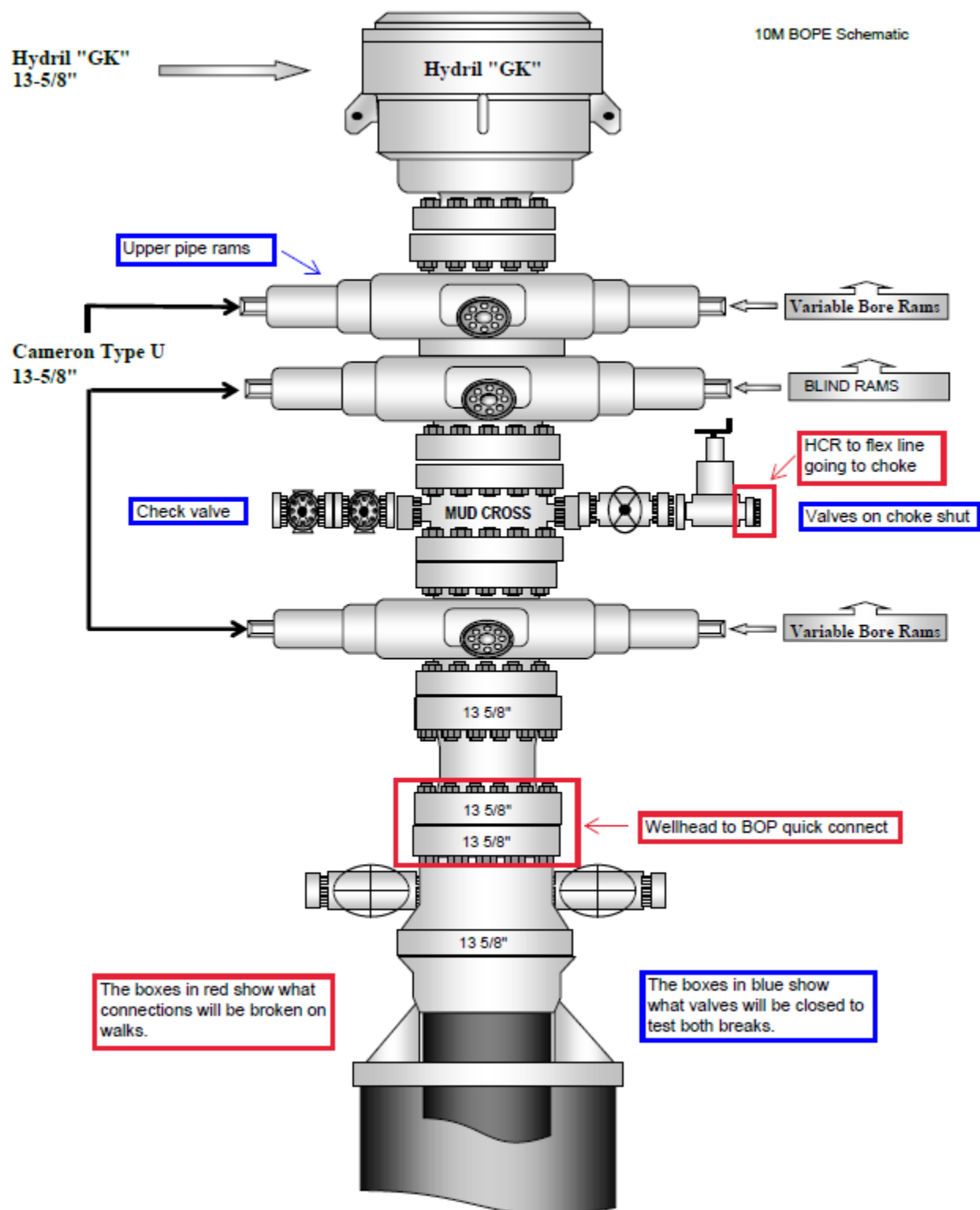


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

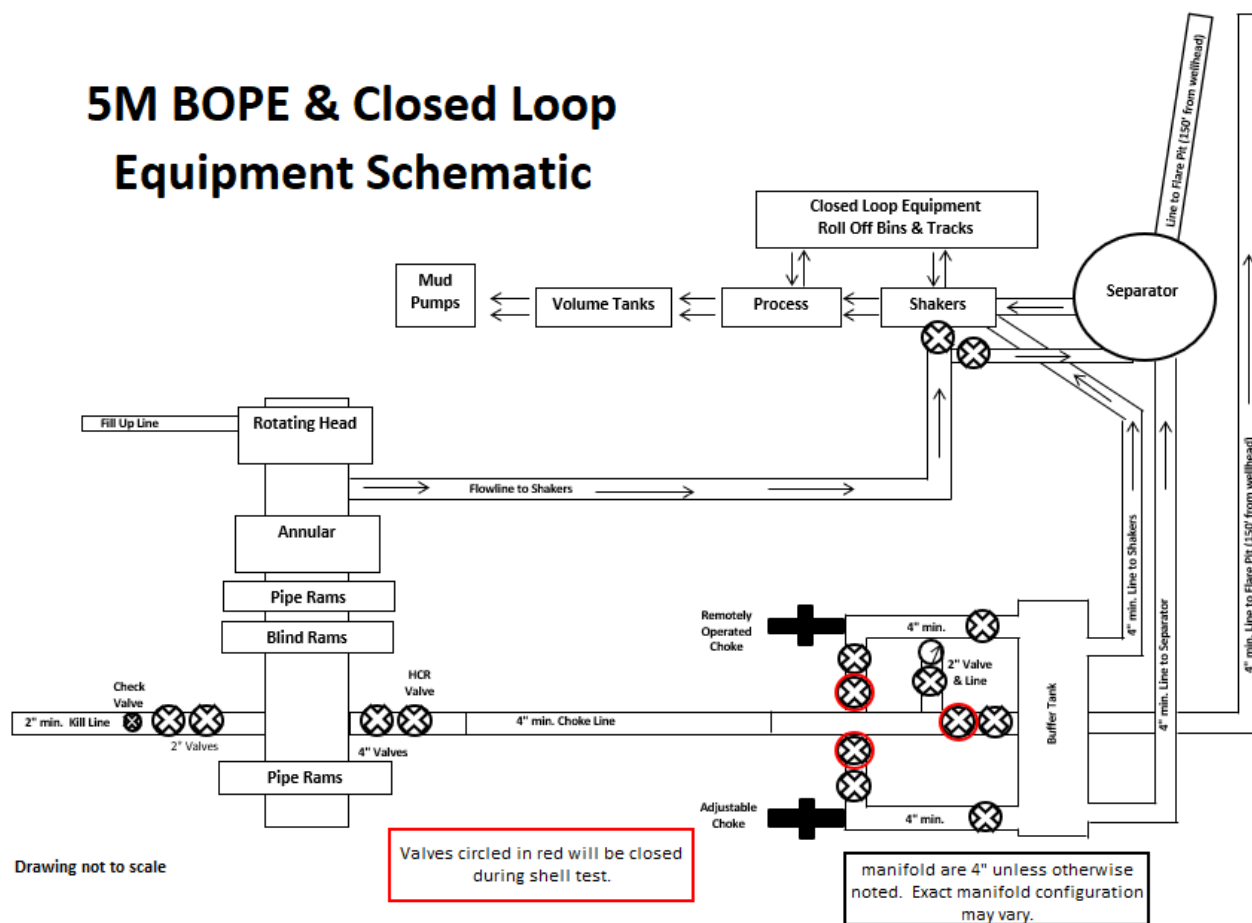


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

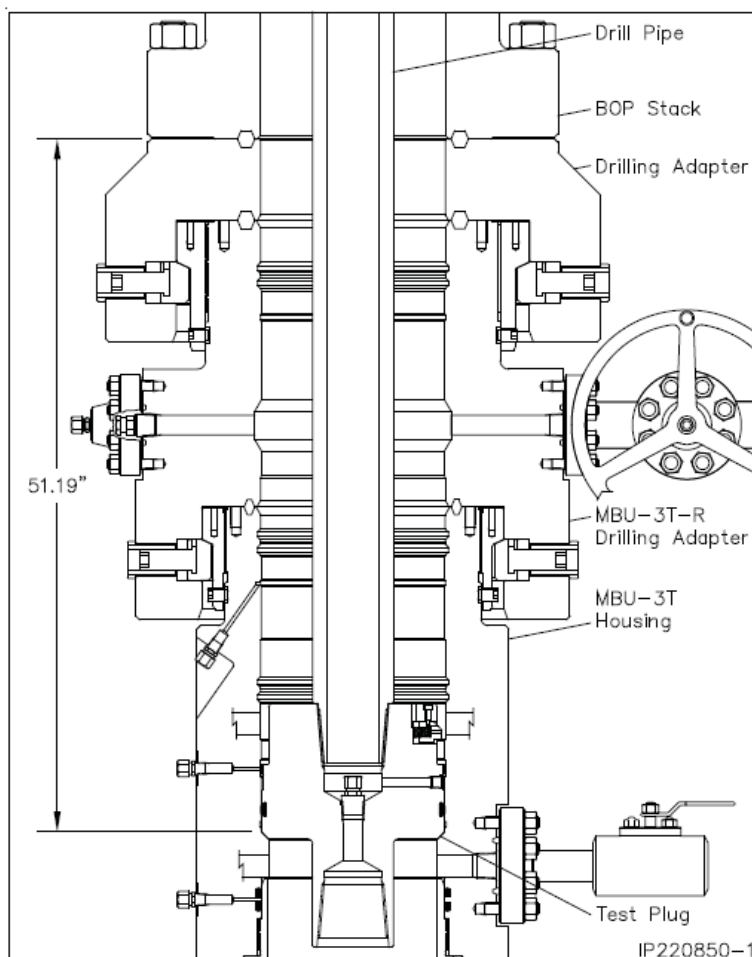


Figure 5. Cactus 5M wellhead with BOP quick connect

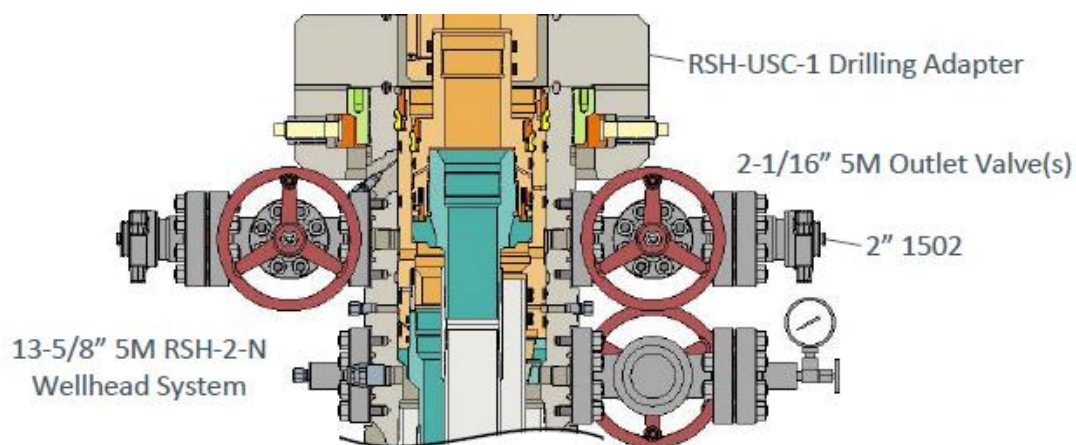


Figure 6. Vault 5M wellhead with BOP quick connect



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

Mewbourne Oil Company requests a variance to perform offline cementing for surface and intermediate casing strings with the following conditions:

- Offline cementing will not be performed on production casing.
- Offline cementing will not be performed on a hole section with MASP > 5000 psi.
- Offline cementing will not be performed concurrently with offset drilling.

Surface Casing Order of Operations:

1. Run 13 3/8" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static.
4. Make up 13 5/8" wellhead or wellhead landing ring assembly and land on 20" conductor.
5. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint.
8. Walk rig to next well on pad with cement crew standing by to rig up.
9. Make up offline cement tool with forklift per wellhead manufacturer (Fig. 1 & 2).
10. Make up cement head on top of offline cement tool with forklift.
11. Commence cement operations.
12. If cement circulates, confirm well is static and proceed to step 16.
13. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
14. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
15. Confirm well is static.
16. Once cement job is complete, the cement head and offline cementing tool are removed. The wellhead technician returns to cellar to install wellhead/valves.
17. Install wellhead capping flange.

Barriers

Before Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus

**After Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

20" Surface Casing Order of Operations (4 string area):

1. Run 20" surface casing as per normal operations (TPGS and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Fill pipe, circulate casing capacity and confirm float(s) are still holding.
4. Confirm well is static.
5. Back out landing joint and pull to rig floor. Lay down landing joint.
6. Make up cement head.
7. Walk rig to next well on pad with cement crew standing by to rig up.
8. Commence cement operations.
9. If cement circulates, confirm well is static and proceed to step 13.
10. If cement does not circulate, notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
11. Use 1" pipe for remedial cement job until the surface casing is cemented to surface.
12. Confirm well is static.
13. Once cement job is complete, remove cement head and install cap.

Barriers**Before Walk:**

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement Head

After Walk:

- Float(s) in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Cement head
- Capping flange after cementing



Intermediate Casing Order of Operations:

1. Run casing as per normal operations (float shoe and float collar).
2. Perform negative pressure test to confirm integrity of float equipment while running casing.
3. Confirm well is static (if running SBM).
4. Land casing.
5. Fill pipe, circulate casing capacity and confirm floats are still holding.
6. Confirm well is static.
7. Back out landing joint and pull to rig floor. Lay down landing joint. Install packoff & test.
8. Nipple down BOP.
9. Walk rig to next well on pad with cement crew standing by to rig up.
10. Make up offline cement tool using forklift per wellhead manufacturer (Fig. 3 - 8).
11. Make up cement head on top of offline cement tool.
12. Commence cement operations.
13. If cement circulates, confirm well is static and proceed to step 16.
14. If cement does not circulate (when required), notify the appropriate BLM office, wait a minimum of six hours, and run a temperature survey to determine the top of cement.
15. Pump remedial cement job if required.
16. Confirm well is static.
17. Remove cement head and offline cementing tool.
18. Install wellhead capping flange and test.

Barriers

Before Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff

After Nipple Down:

- Floats in casing
- Kill weight fluid in casing
- Kill weight fluid in annulus
- Solid body mandrel and/or packoff
- Offline cementing tool tested to 5000 psi and cement head
- Capping flange after cementing

**Risks:**

- Pressure build up in annulus before cementing
 - Contact BLM if a well control event occurs.
 - Rig up 3rd party pump or rig pumps to pump down casing and kill well.
 - Returns will be taken through the wellhead valves to a choke manifold (Fig 9 & 10).
 - Well could also be killed through the wellhead valves down the annulus.

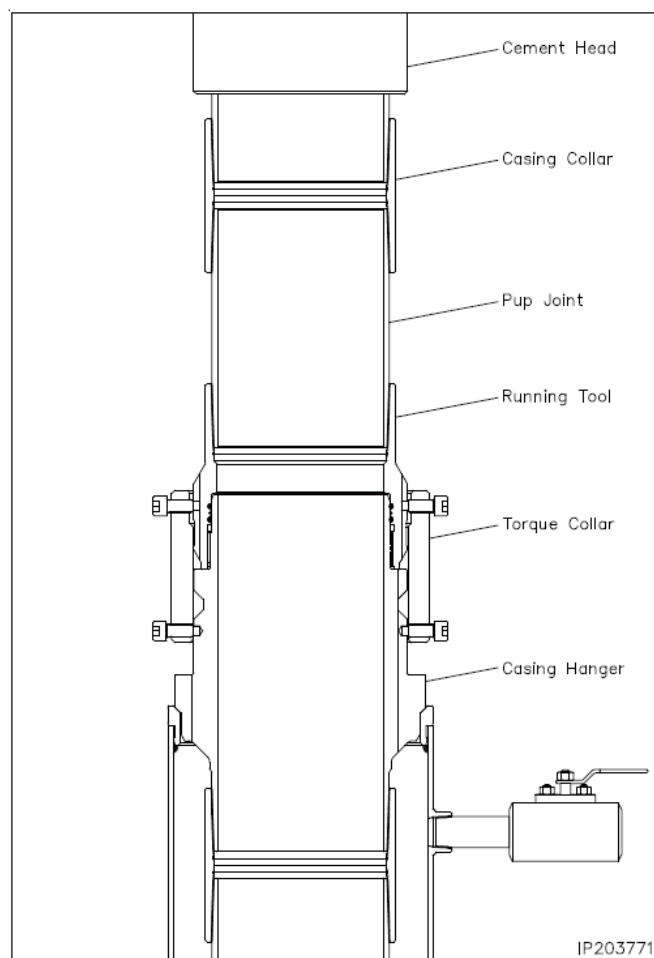


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

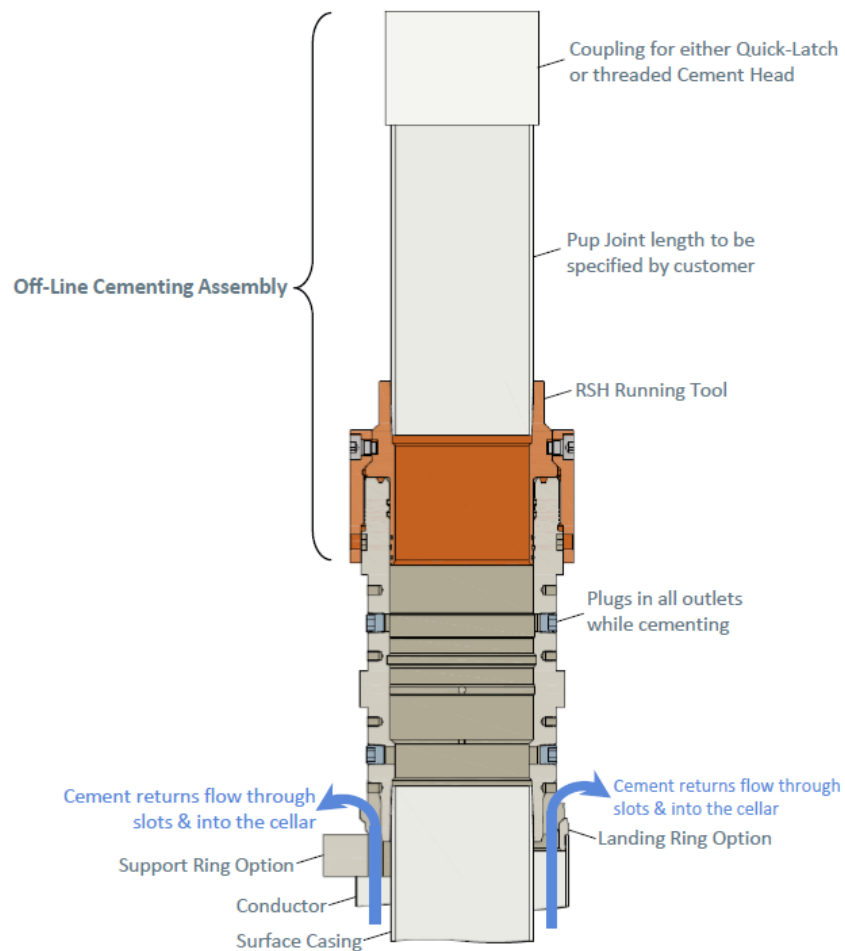


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

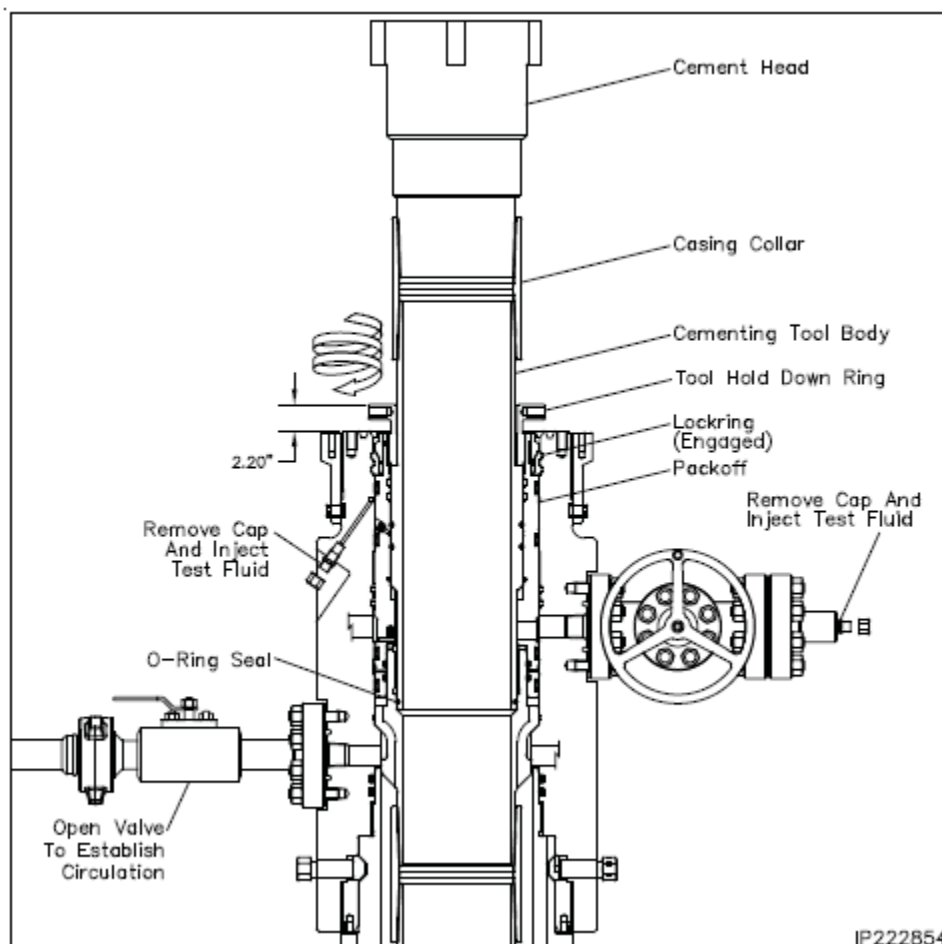


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

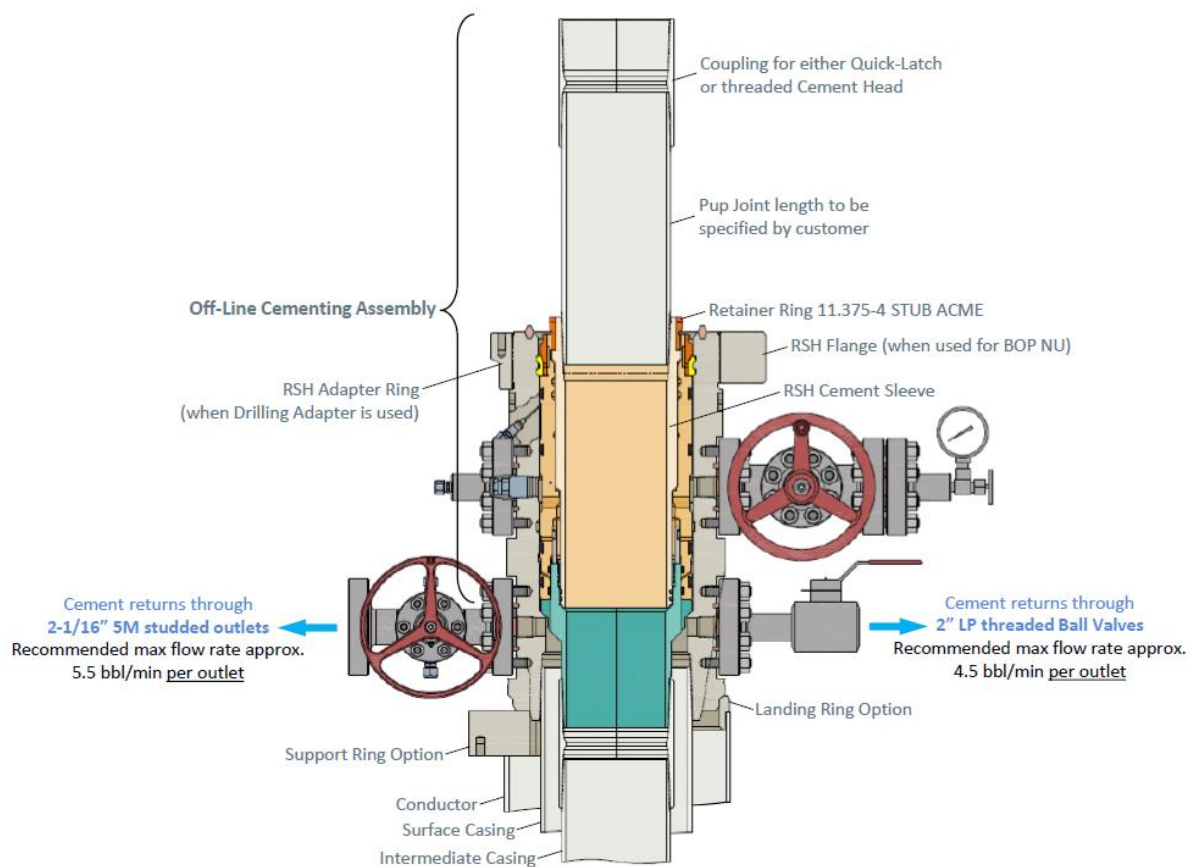


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

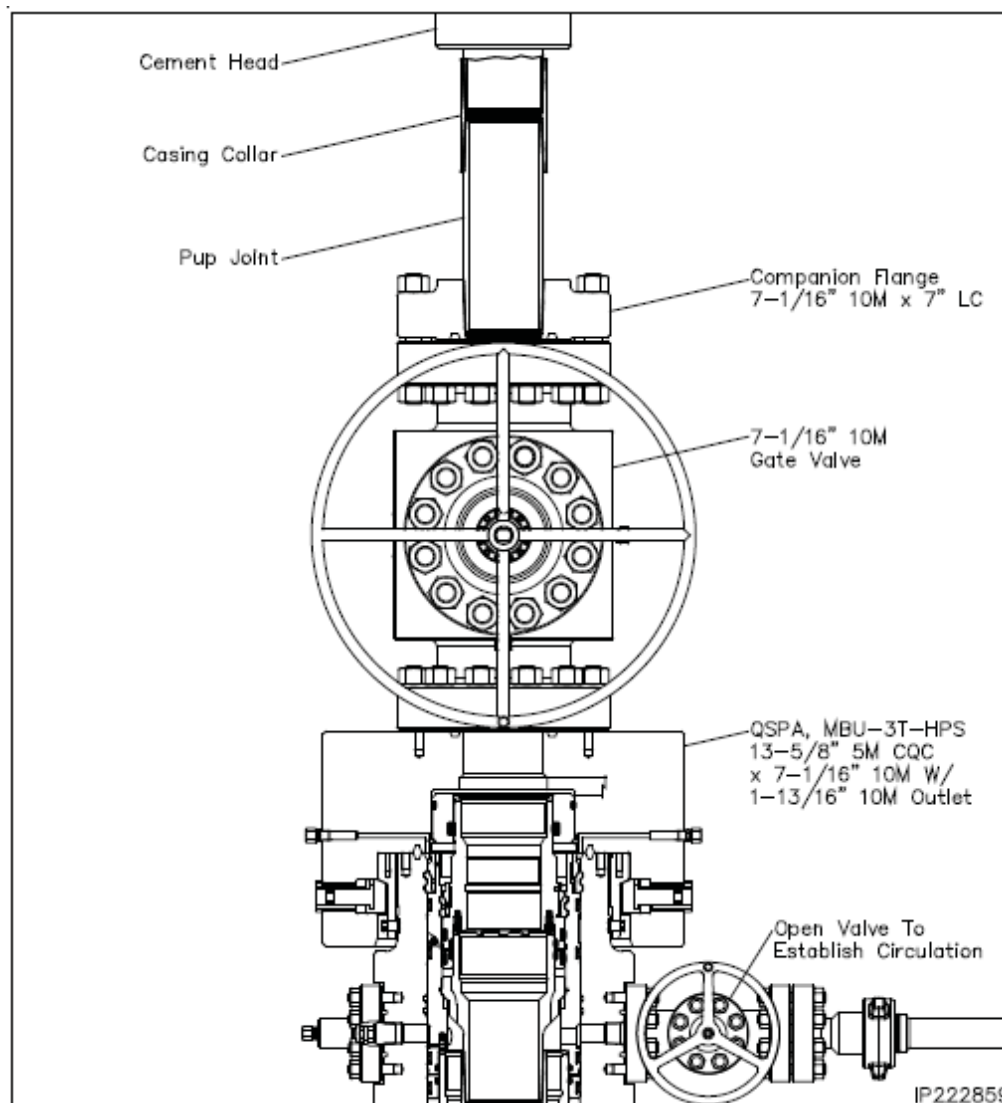


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

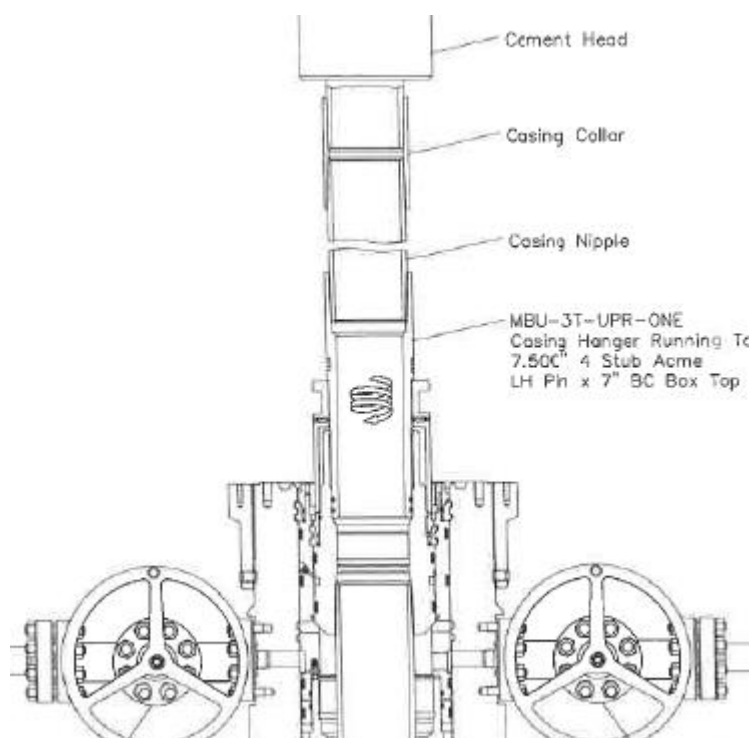


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

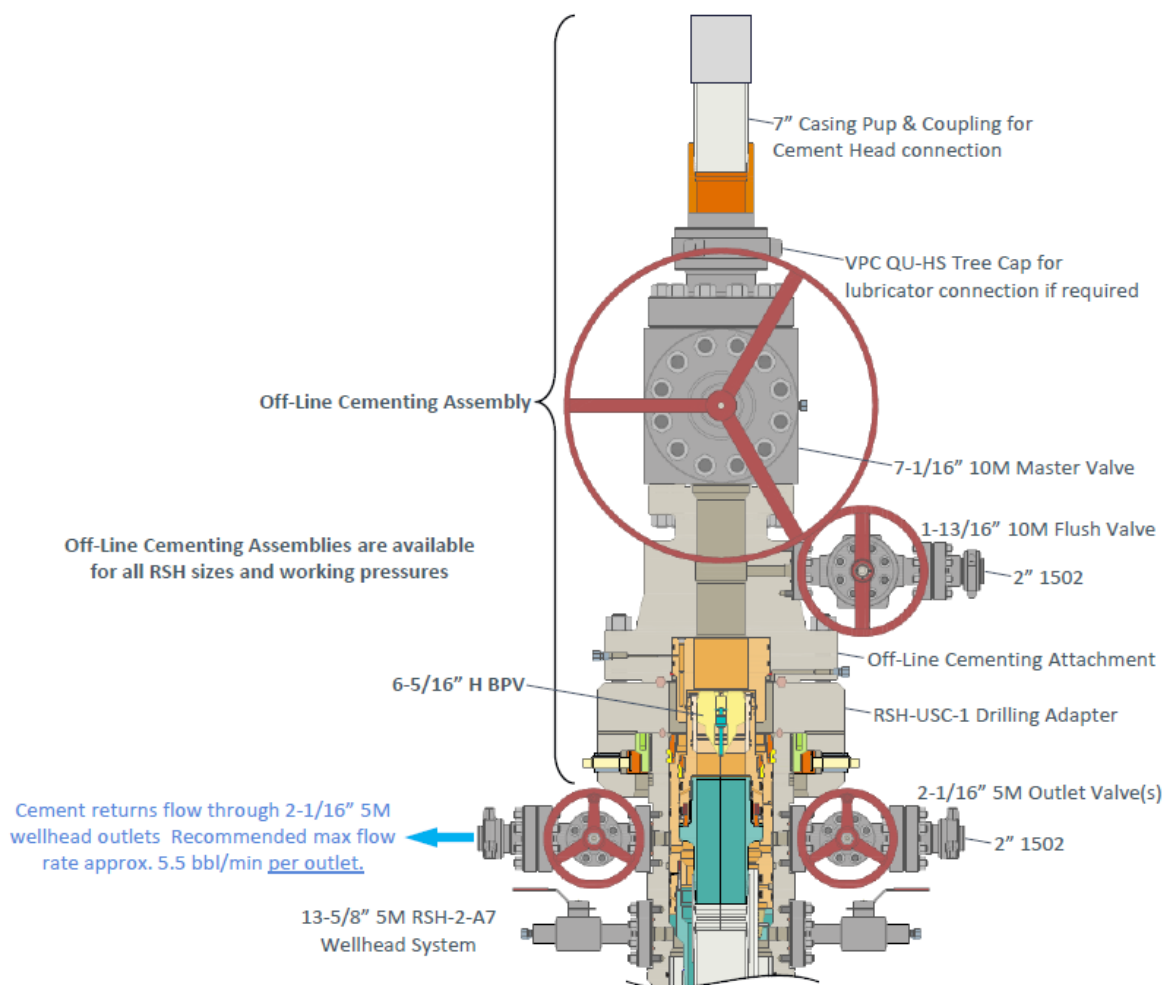


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

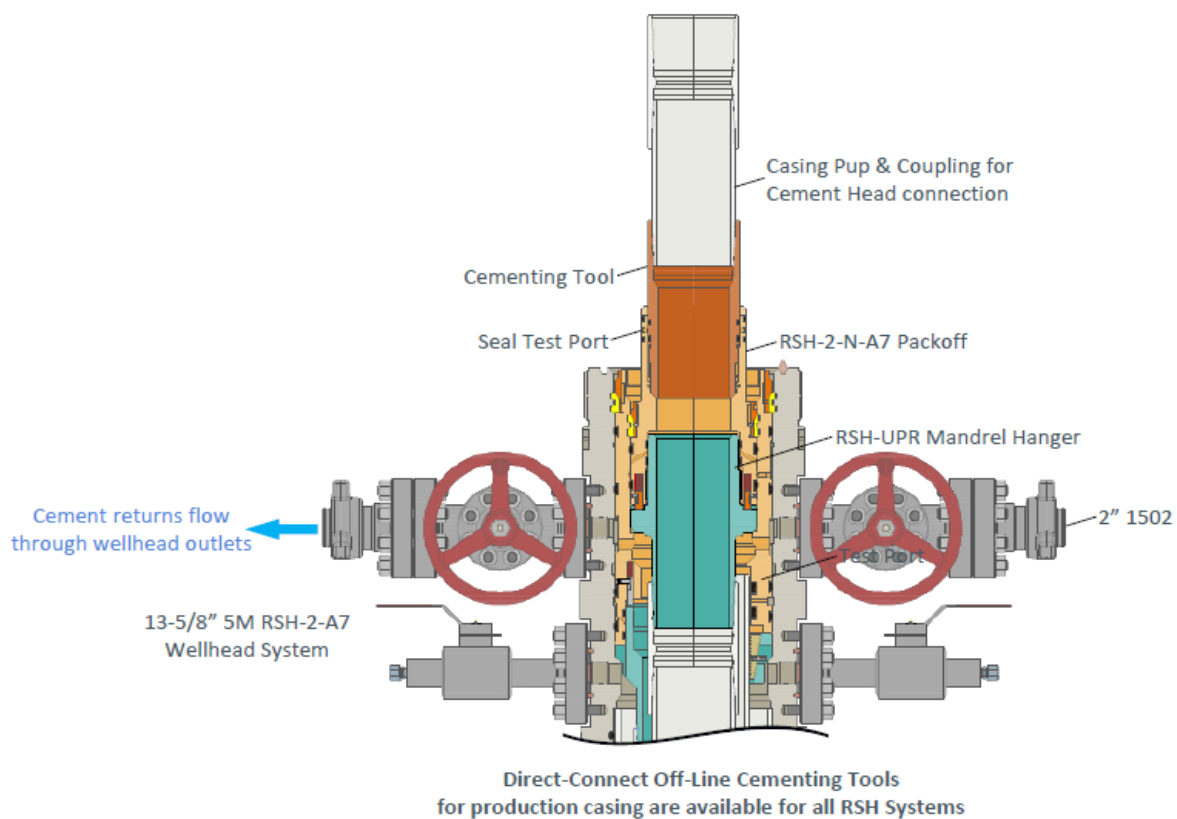


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

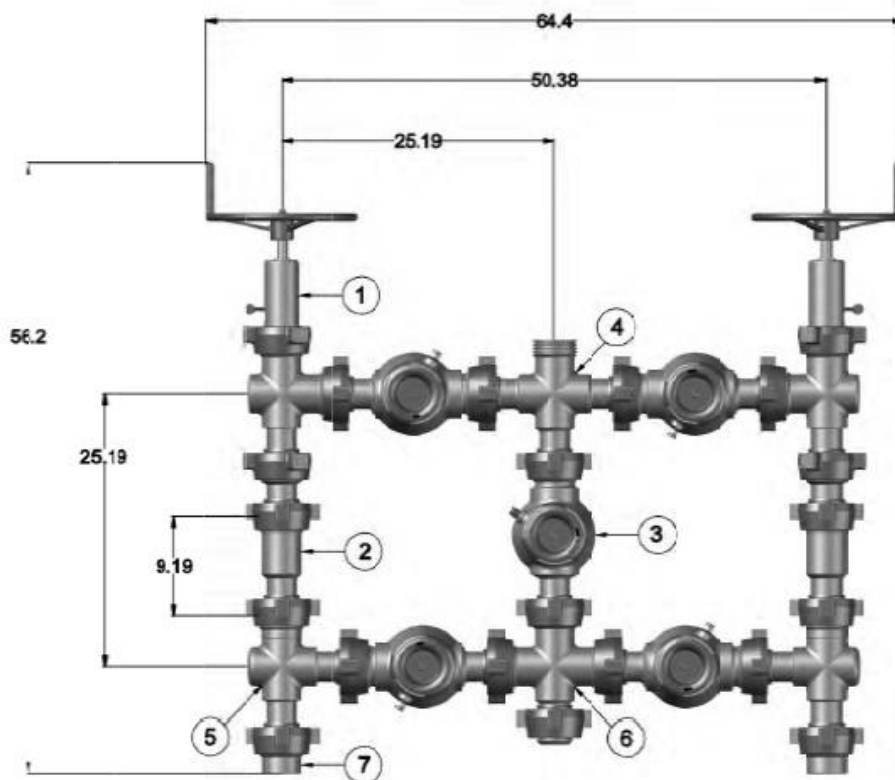


Figure 9. Five valve 15k choke manifold.

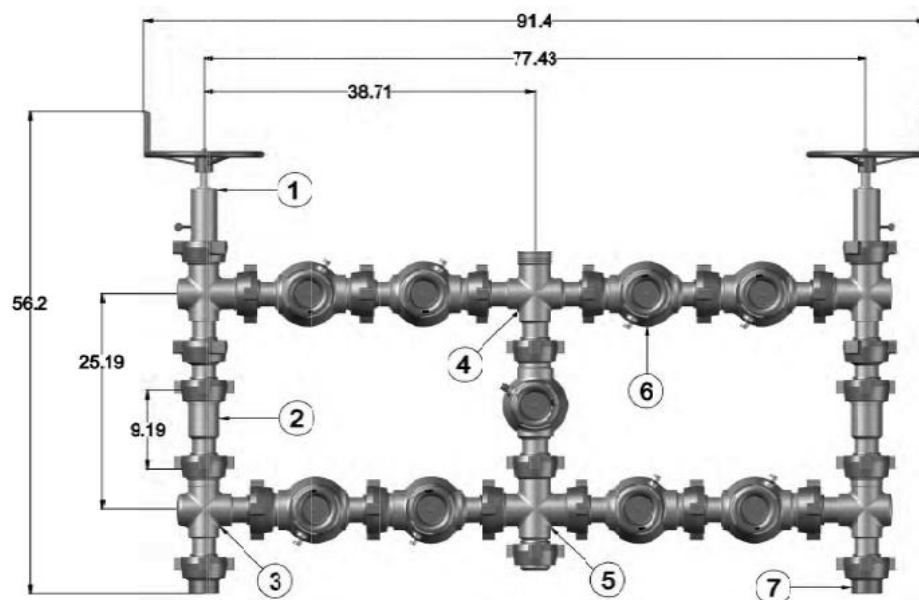


Figure 10. Nine valve 15k choke manifold.



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

SUPO Data Report

04/10/2026

APD ID: 10400110032

Submission Date: 02/20/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Existing_Road_Map_20260204093459.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

New_Road_Map_20260204093525.pdf

New road type: RESOURCE

Length: 6559.13 Feet

Width (ft.): 20

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 13

New road access erosion control: N/A

New road access plan or profile prepared? N

New road access plan

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Access road engineering design?** N**Access road engineering design****Turnout?** N**Access surfacing type:** GRAVEL**Access topsoil source:** OFFSITE**Access surfacing type description:****Access onsite topsoil source depth:****Offsite topsoil source description:** N/A**Onsite topsoil removal process:****Access other construction information:** N/A**Access miscellaneous information:** N/A**Number of access turnouts:****Access turnout map:**

Drainage Control

New road drainage crossing: OTHER**Other Description:** N/A**Drainage Control comments:** N/A**Road Drainage Control Structures (DCS) description:** N/A**Road Drainage Control Structures (DCS) attachment:**

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES**Existing Well map Attachment:**

Existing_Well_Map_20260204093754.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: .The battery is located in SENW of Sec. 36 in T21S R31E. These wells will flow to pre-existing infrastructure. We will flow to an existing production manifold on the edge of location, then use the existing 3-4in test & 1-8in bulk buried FlexSteel flowlines, with a working pressure of 250# (approx. 850), 1-4.5in buried steel gas lift injection line with a working pressure of 1200# (approx. 750), 1-4in buried poly gas supply lines with working pressure of 150# (approx. 750), & 1-2in buried poly air supply line with working pressure of 150# (approx. 750). These lines are installed in one ditch following the attached

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

route, going back to the Cousin Eddy Fed Unit Battery #1. An overhead electric line is installed 15 of the flowline route (approx. 750 & up to 22900 volts)

Production Facilities map:

Production_Facility_Map_20260204093805.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: IRRIGATION

Water source use type:

DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION CASING

STIMULATION

Source latitude: 32.779423

Source longitude: -103.898674

Source datum: NAD83

City:

Water source permit type:

WATER WELL

PRIVATE CONTRACT

Water source transport method:

TRUCKING

Source land ownership: PRIVATE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 1940

Source volume (acre-feet): 0.2500526

Source volume (gal): 81480

Water source and transportation

Water_Source_Trans_Map_20260204093821.pdf

Water source comments: LAT: 32.423300 LONG: -103.718780

New water well? N

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Aquifer documentation:****Well depth (ft):****Well casing type:****Well casing outside diameter (in.):****Well casing inside diameter (in.):****New water well casing?****Used casing source:****Drilling method:****Drill material:****Grout material:****Grout depth:****Casing length (ft.):****Casing top depth (ft.):****Well Production type:****Completion Method:****Water well additional information:****State appropriation permit:****Additional information attachment:****Section 6 - Construction Materials****Using any construction materials:** YES**Construction Materials description:** SWSE SEC 36 21S 36E LAT: 32.429483 LONG: -103.729238**Construction Materials source location**

Caliche_Source_Trans_Map_20260204094000.pdf

Section 7 - Methods for Handling**Waste type:** GARBAGE**Waste content description:** Garbage & trash**Amount of waste:** 1500 pounds**Waste disposal frequency :** One Time Only**Safe containment description:** Enclosed trash trailer**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** Waste Management facility in Carlsbad.**Waste type:** SEWAGE**Waste content description:** Human waste & grey water**Amount of waste:** 1500 gallons**Waste disposal frequency :** Weekly**Safe containment description:** 2,000 gallon plastic container**Safe containmant attachment:**

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE**Disposal type description:****Disposal location description:** City of Carlsbad Water Treatment facility**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? NO**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?****Cuttings area liner****Cuttings area liner specifications and installation description**

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N**Ancillary Facilities****Comments:**

Section 9 - Well Site

Well Site Layout Diagram:

Well_Site_Layout_20260204094013.pdf

Comments: NONE

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** COUSIN EDDY 101 102 103 104 49 50 51
52 53 54 55**Multiple Well Pad Number:** 11**Recontouring**

Inteirm_Reclamation_Map_20260204103440.pdf

Drainage/Erosion control construction: None**Drainage/Erosion control reclamation:** None**Well pad proposed disturbance
(acres):** 4.6**Road proposed disturbance (acres):**
1.5**Powerline proposed disturbance
(acres):** 0**Pipeline proposed disturbance
(acres):** 0**Other proposed disturbance (acres):**
1.136**Total proposed disturbance:** 7.236**Well pad interim reclamation (acres):**
0.6**Road interim reclamation (acres):** 0**Powerline interim reclamation (acres):**
0**Pipeline interim reclamation (acres):** 0**Other interim reclamation (acres):** 0**Total interim reclamation:** 0.6**Well pad long term disturbance
(acres):** 4**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:** 4

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

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H

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.

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Various brush & grasses

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: NA

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: NA

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

[Seed](#)[Seed Table](#)[Seed Summary](#)**Total pounds/Acre:**

Seed Type	Pounds/Acre
-----------	-------------

Seed reclamation

[Operator Contact/Responsible Official](#)

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**First Name:****Last Name:****Phone:****Email:**

Seedbed prep: Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed BMP: To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: NA

Weed treatment plan

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

Monitoring plan

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP, STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: SUA in place.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP,STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NM

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: SUA in place.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**Surface use plan certification:** NO**Surface use plan certification document:****Surface access agreement or bond:** AGREEMENT**Surface Access Agreement Need description:** SUA in place.**Surface Access Bond BLM or Forest Service:****BLM Surface Access Bond number:****USFS Surface access bond number:**

Section 12 - Other

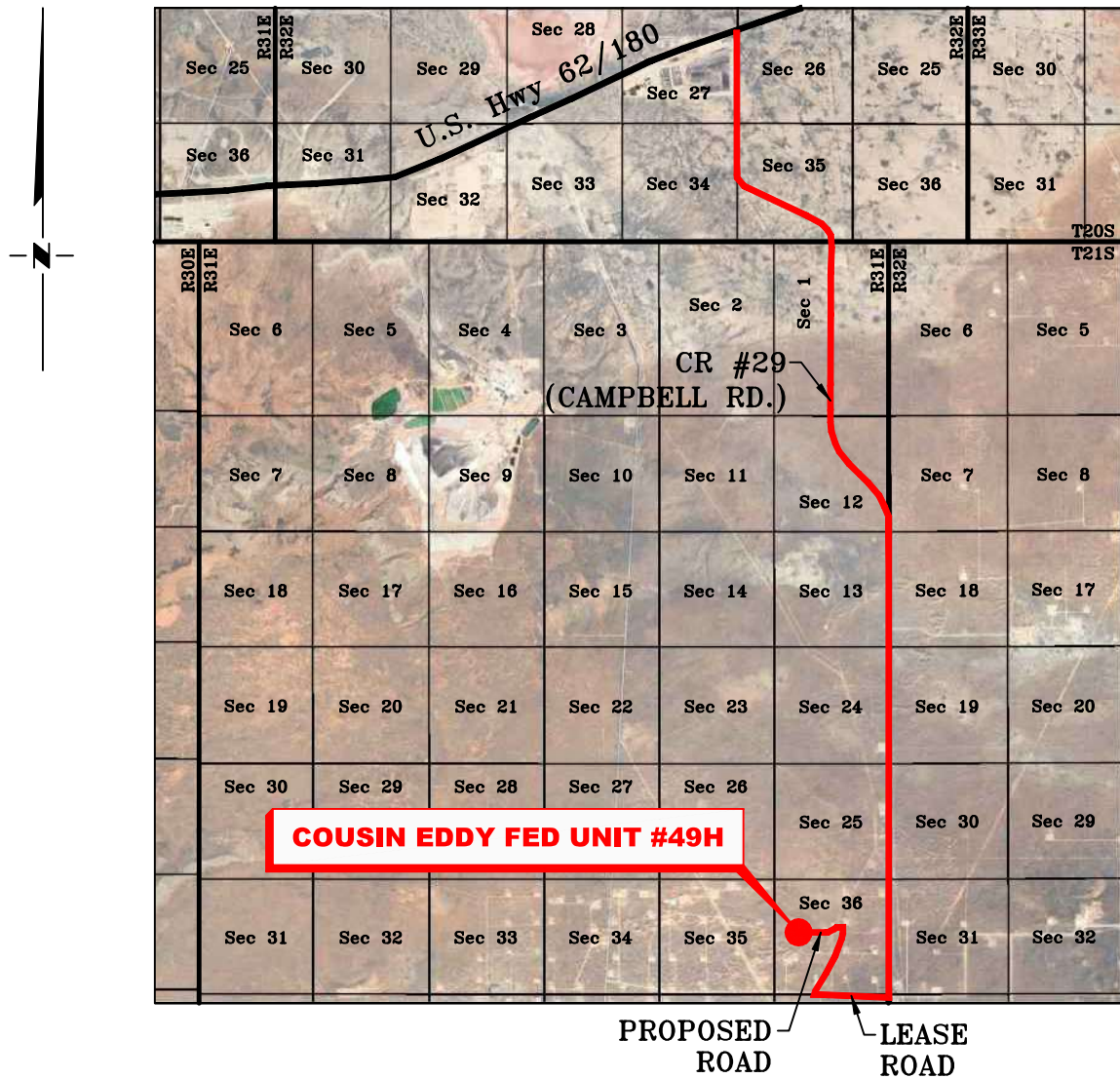
Right of Way needed? N**Use APD as ROW?****ROW Type(s):****ROW****SUPO Additional Information:****Use a previously conducted onsite?** Y

Previous Onsite information: Met w/RRC surveying & staked location @ 2535' FNL & 1100' FWL, Sec 36, T21S, R31E, Eddy Co., NM. (Elev. @ 3563'). Pad is 600' x 612'. Approx. 660 of new road off NE corner to reclaimed pad area to existing lease road. A 365' flowline/utilities line is staked to the Section 36 Cousin Eddy battery pad to the NE. Topsoil staked 30' to the W. Reclaim 60' W. BLM potash onsite completed. Will need arch survey. Lat.: 32.4353416 N, Long.: -103.7364786 W NAD83. (BPS)

Other SUPO

VICINITY MAP

NOT TO SCALE



SECTION 36, TWP. 21 SOUTH, RGE. 31 EAST,
N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: Mewbourne Oil CompanyLOCATION: 2455' FNL & 1320' FWLLEASE: Cousin Eddy Fed UnitELEVATION: 3567'WELL NO.: 49H

1	SL MOVE	12/10/25
NO.	REVISION	DATE
JOB NO.: LS24070583R2		
DWG. NO.: 24070583R2-4		

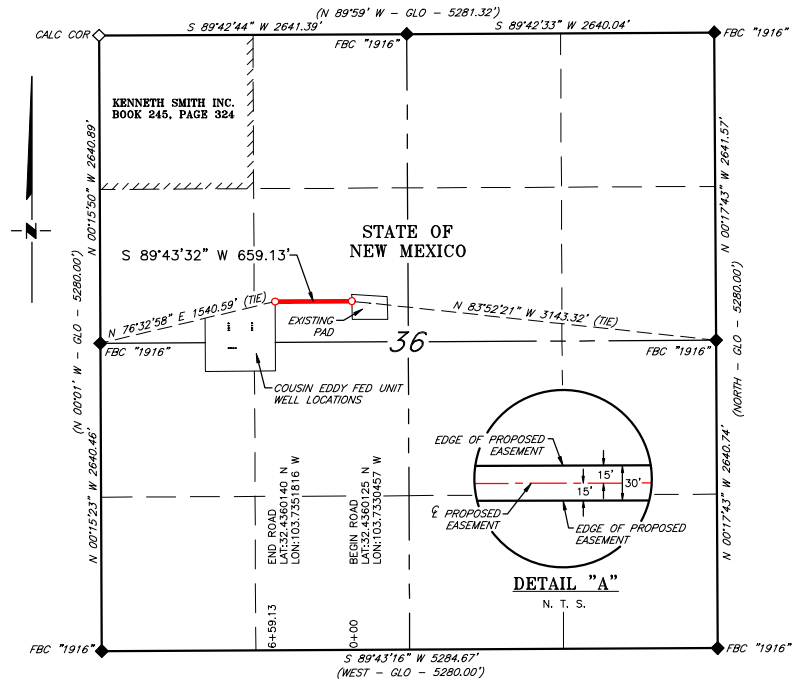


701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: N. T. S.
DATE: 07/02/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

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**MEWBORNE OIL COMPANY
ACCESS ROAD FOR THE COUSIN EDDY FED UNIT WELL LOCATIONS
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A strip of land 30 feet wide, being 659.13 feet or 39.947 rods in length, lying in Section 36, Township 21 South, Range 31 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northwest quarter of Section 36, which bears, N 83°52'21" W, 3,143.32 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 36;

Thence S 89°43'32" W, 659.13 feet, to Engr. Sta. 6+59.13, the End of Survey, a point in the Northwest quarter of Section 36, which bears, N 76°32'58" E, 1,540.59 feet from a brass cap, stamped "1916", found for the West quarter corner of Section 36.

Said strip of land contains 0.454 acres, more or less, and is allocated by forties as follows:

SE 1/4 NW 1/4 659.13 Feet 39.947 Rods 0.454 Acres

SCALE: 1" = 1000'
0 500' 1000'

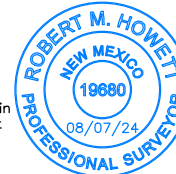
BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

() RECORD DATA - GLO
NM EAST
FOUND MONUMENT
AS NOTED
◇ CALCULATED CORNER
PROPOSED ACCESS ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

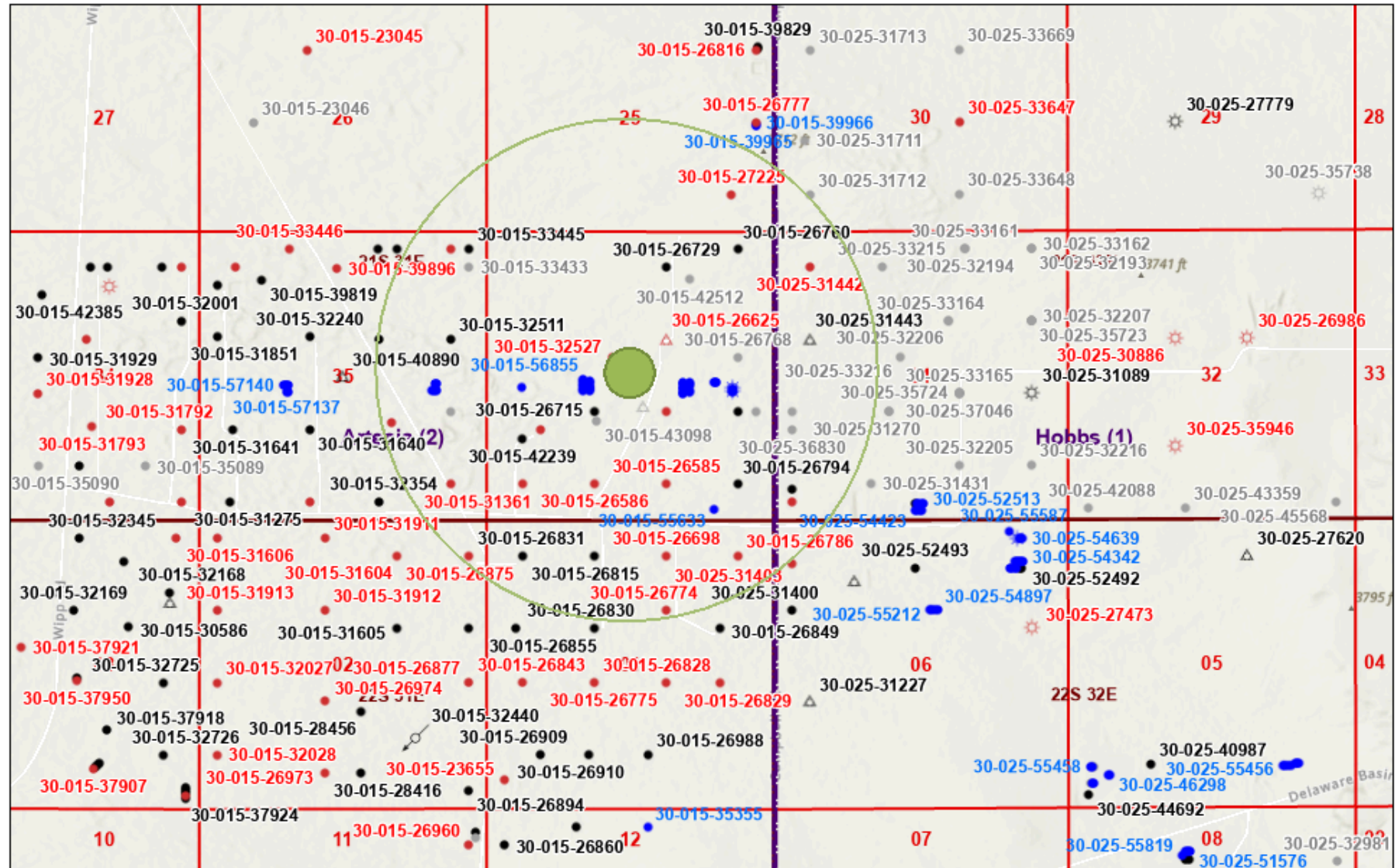


NO.	REVISION	DATE
JOB NO.:	LS24070583	
DWG. NO.:	24070583-6	

RRC
ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 07/02/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

OCD Well Locations



2/3/2026, 1:18:19 PM

Areas	Wells - Large Scale	Gas, Plugged	Oil, New	Salt Water Injection, Plugged
Override 1	Gas, Active	Injection, Active	Oil, Plugged	OCD Districts
Override 2	Gas, Cancelled	Oil, Active	Salt Water Injection, Active	PLSS First Division
	Gas, New	Oil, Cancelled	Salt Water Injection, Cancelled	PLSS Townships

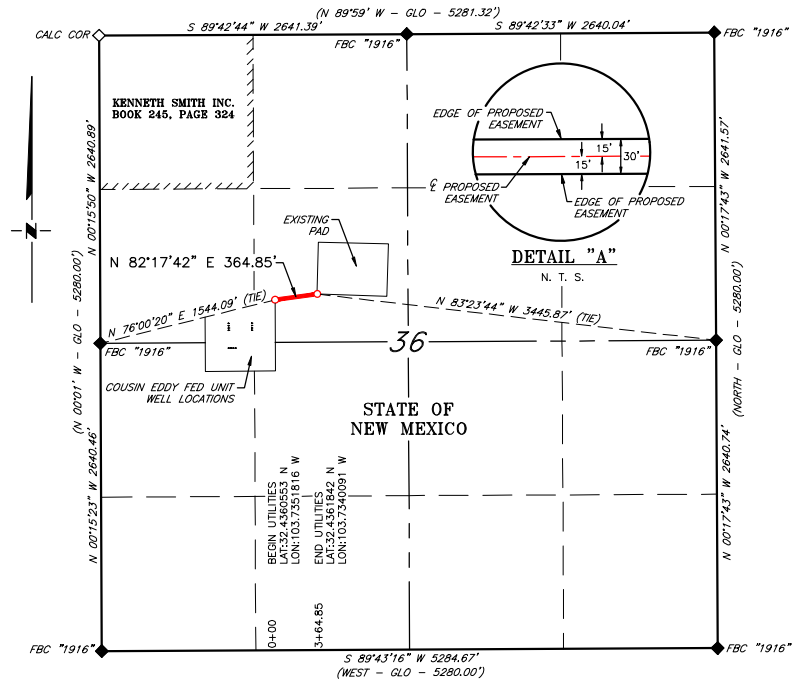
A number line illustrating the conversion of 1 mile to 1.6 kilometers. The top scale is in miles (0 to 1) and the bottom scale is in kilometers (0 to 1.6). The conversion factor 1:36,112 is written above the line.

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community.

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.argois.com/apps/webappviewer/index.html?id=4d01712306164de29fd2fb9f8f35ca75>; New Mexico Oil Conservation Division

**MEWBORNE OIL COMPANY
UTILITIES FOR THE COUSIN EDDY FED UNIT WELL LOCATIONS
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO**



DESCRIPTION

A strip of land 30 feet wide, being 364.85 feet or 22.112 rods in length, lying in Section 36, Township 21 South, Range 31 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across State of New Mexico land:

BEGINNING at Engr. Sta. 0+00, a point in the Northwest quarter of Section 36, which bears N 76°00'20\" E, 1,544.09 feet from a brass cap, stamped "1916", found for the West quarter corner of Section 36;

Thence N 82°17'42\" E, 364.85 feet, to Engr. Sta. 3+64.85, the End of Survey, a point in the Northwest quarter of Section 36, which bears N 83°23'44\" W, 3,445.87 feet from a brass cap, stamped "1916", found for the East quarter corner of Section 36.

Said strip of land contains 0.251 acres, more or less, and is allocated by forties as follows:

SE 1/4 NW 1/4 364.85 Feet 22.112 Rods 0.251 Acres

SCALE: 1" = 1000'
0 500' 1000'

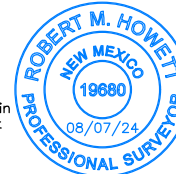
BEARINGS ARE GRID NAD 83
NM EAST
DISTANCES ARE HORIZ. GROUND.

LEGEND

() RECORD DATA - GLO
NM EAST
FOUND MONUMENT
AS NOTED
◇ CALCULATED CORNER
PROPOSED UTILITIES

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

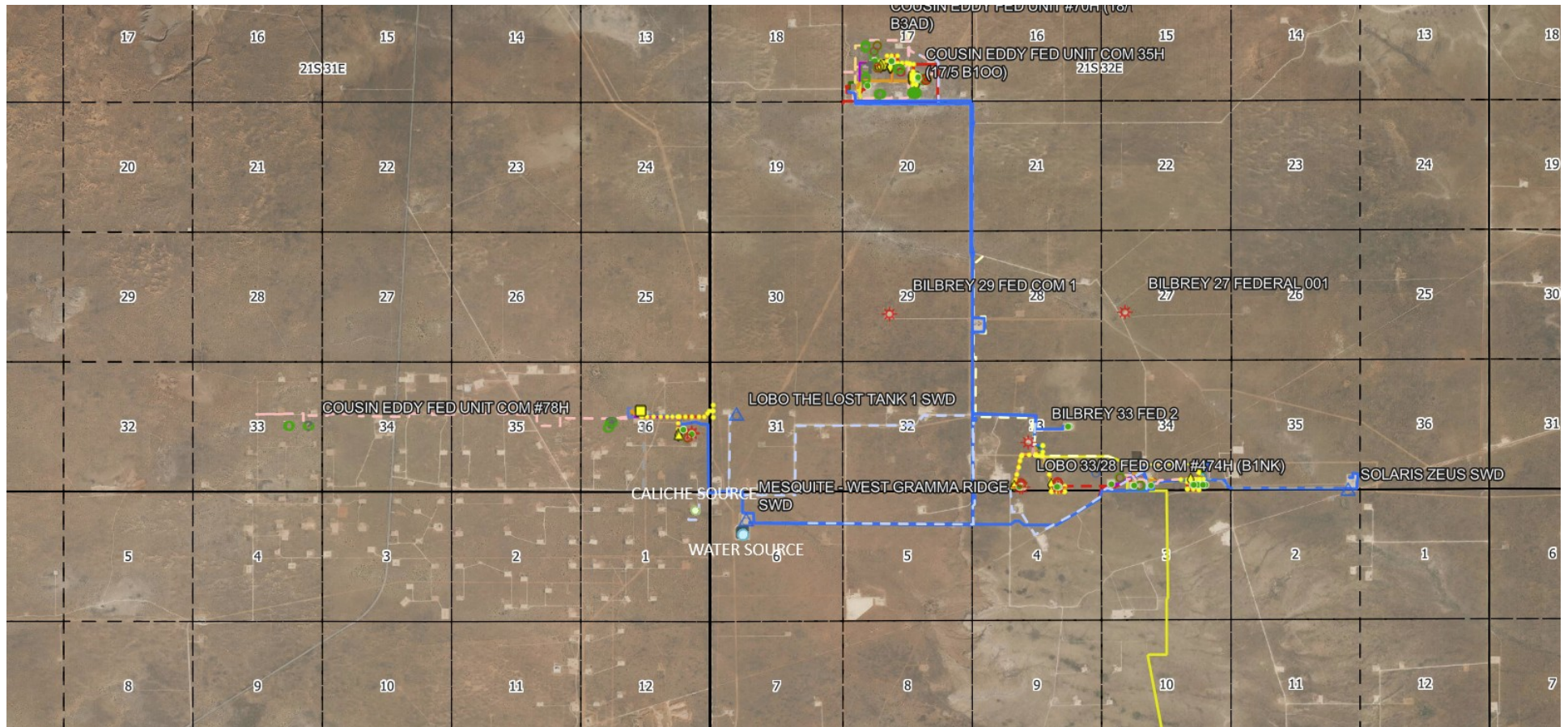
Robert M. Howett
Robert M. Howett NM PS 19680

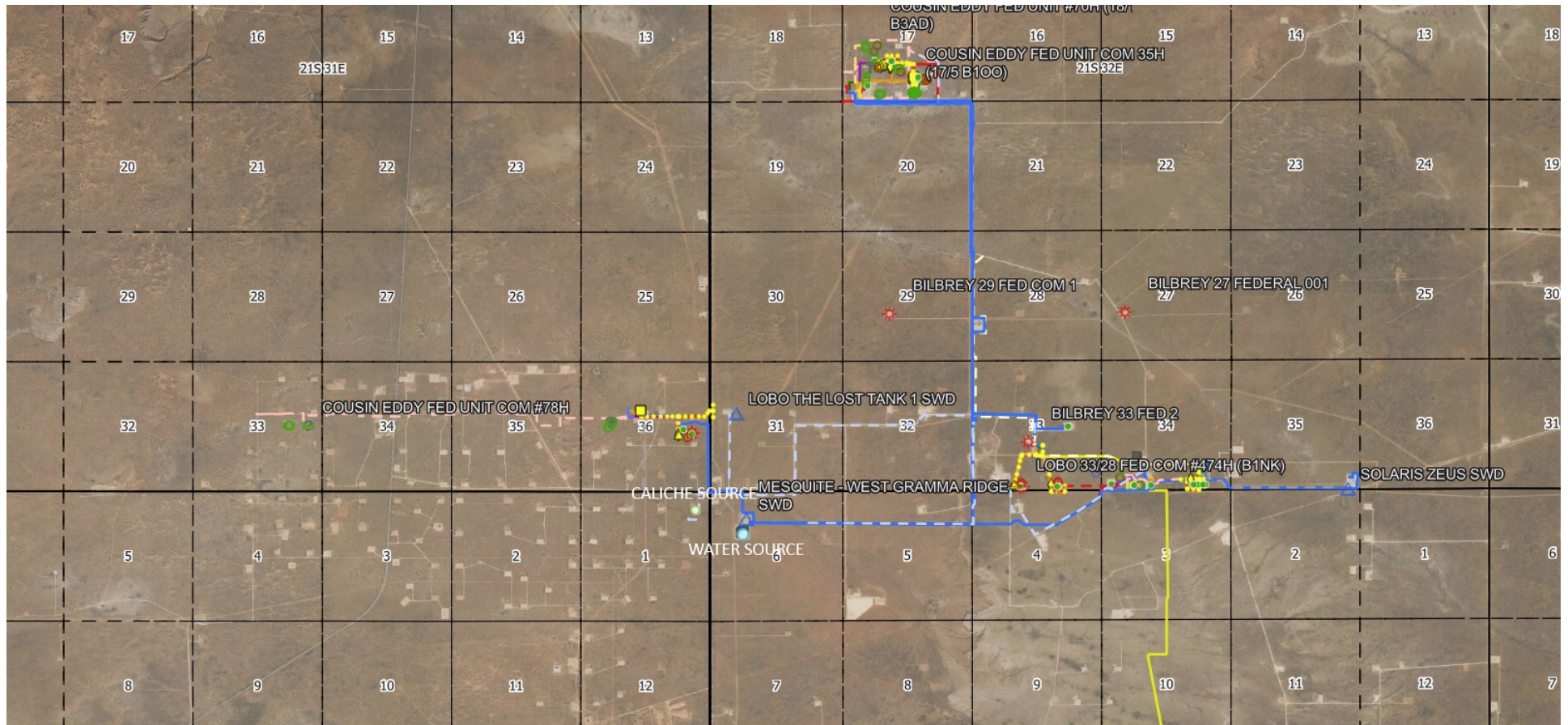


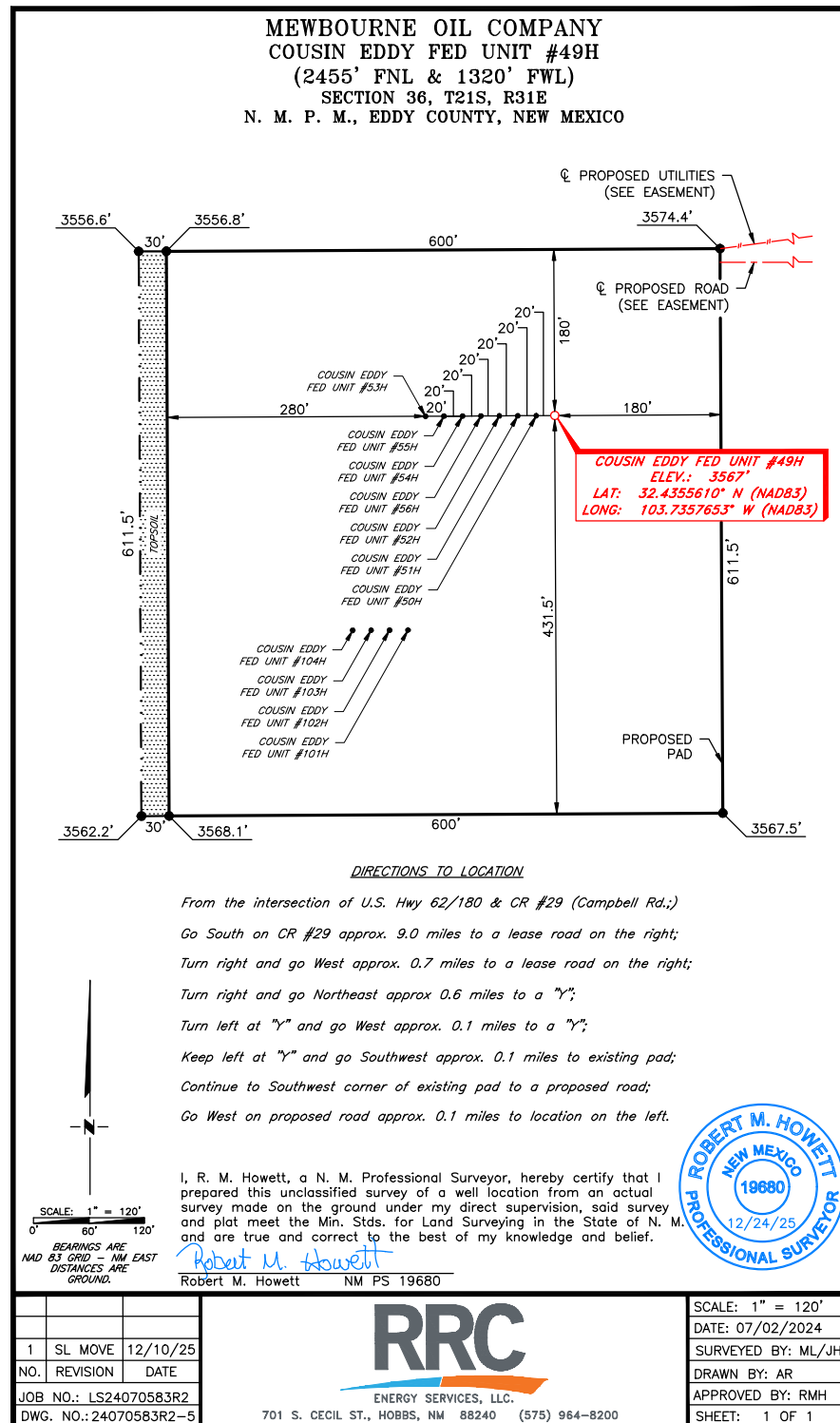
NO.	REVISION	DATE
JOB NO.:	LS24070583	
DWG. NO.:	24070583-7	

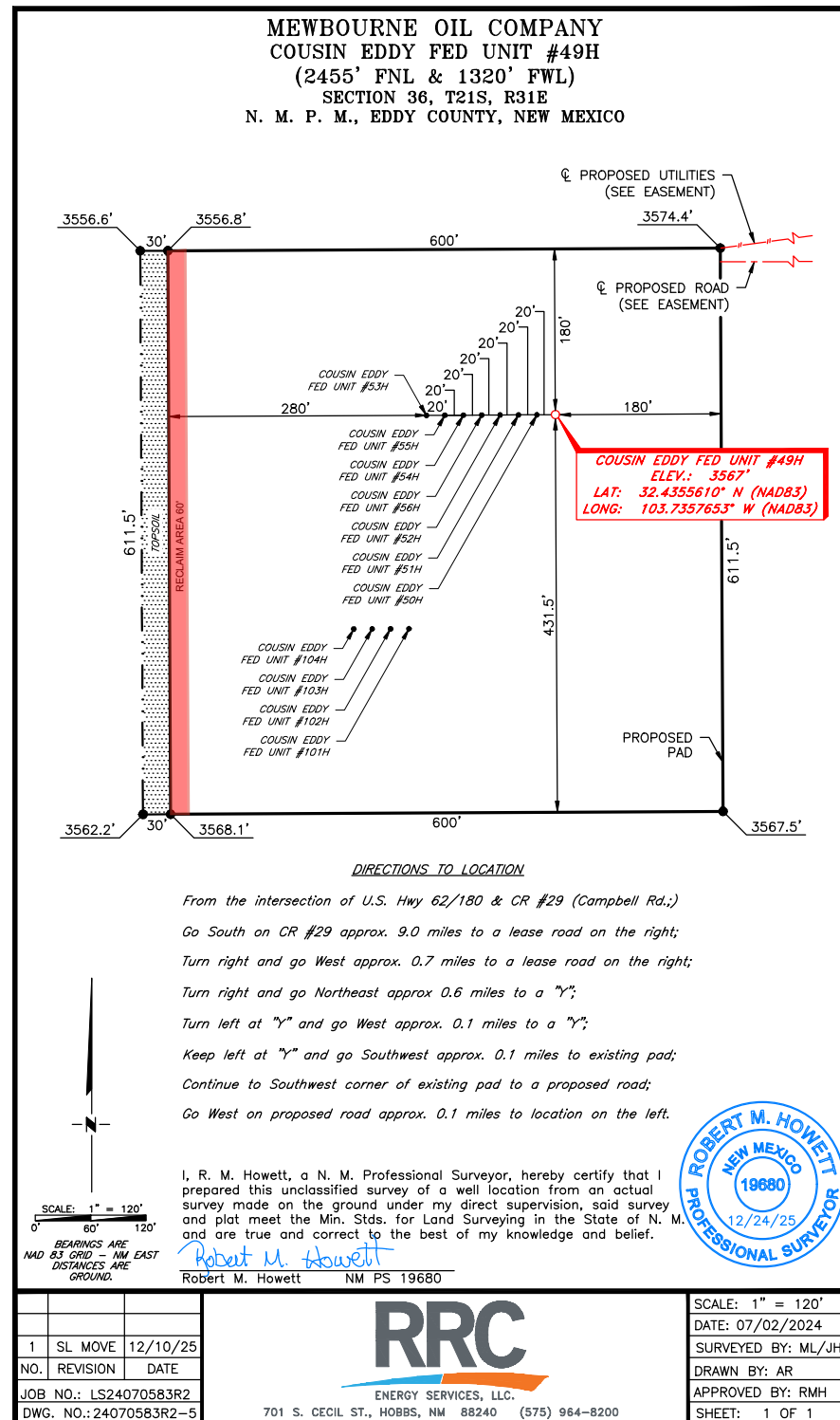
RRC
ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 1000'
DATE: 07/02/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1











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

PWD Data Report

04/10/2026

APD ID: 10400110032

Submission Date: 02/20/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: MEWBOURNE OIL COMPANY**Well Name:** COUSIN EDDY FED UNIT**Well Number:** 54H**State****Unlined Produced Water Pit Estimated****Unlined pit: do you have a reclamation bond for the pit?****Is the reclamation bond a rider under the BLM bond?****Unlined pit bond number:****Unlined pit bond amount:****Additional bond information****Section 4 -****Would you like to utilize Injection PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD Surface Owner Description:****Injection PWD discharge volume (bbl/day):****Injection well mineral owner:****Injection well type:****Injection well number:****Injection well name:****Assigned injection well API number?****Injection well API number:****Injection well new surface disturbance (acres):****Minerals protection information:****Mineral protection****Underground Injection Control (UIC) Permit?****UIC Permit****Section 5 - Surface****Would you like to utilize Surface Discharge PWD options?** N**Produced Water Disposal (PWD) Location:****PWD surface owner:****PWD disturbance (acres):****Other PWD Surface Owner Description :****Surface discharge PWD discharge volume (bbl/day):****Surface Discharge NPDES Permit?****Surface Discharge NPDES Permit attachment:****Surface Discharge site facilities information:****Surface discharge site facilities map:**

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

04/10/2026

APD ID: 10400110032

Submission Date: 02/20/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT

Well Number: 54H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Bond

Federal/Indian APD: FED

BLM Bond number: NMB106714150

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-58099	Pool Code 5695	Pool Name BILBREY BASIN; BONE SPRING
Property Code 336428	Property Name COUSIN EDDY FED UNIT	Well Number 54H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3565'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL E	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2455 FNL	Ft. from E/W 1220 FWL	Latitude 32.4355612°N	Longitude 103.7360893°W	County EDDY
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Bottom Hole Location

UL D	Section 24	Township 21S	Range 31E	Lot	Ft. from N/S 10 FNL	Ft. from E/W 550 FWL	Latitude 32.4713153°N	Longitude 103.7382482°W	County EDDY
----------------	----------------------	------------------------	---------------------	-----	-------------------------------	--------------------------------	---------------------------------	-----------------------------------	-----------------------

Dedicated Acres 400	Infill or Defining Well INFILL	Defining Well API COUSIN EDDY FED UNIT #56H	Overlapping Spacing Unit (Y/N) Y (Mewbourne Oil)	Consolidation Code P
Order Numbers. NMNM106306061			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL L	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2167 FSL	Ft. from E/W 550 FWL	Latitude 32.4337513°N	Longitude 103.7382628°W	County EDDY
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First Take Point (FTP)

UL E	Section 36	Township 21S	Range 31E	Lot	Ft. from N/S 2541 FNL	Ft. from E/W 550 FWL	Latitude 32.4353260°N	Longitude 103.7382608°W	County EDDY
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Last Take Point (LTP)

UL D	Section 24	Township 21S	Range 31E	Lot	Ft. from N/S 10 FNL	Ft. from E/W 550 FWL	Latitude 32.4713153°N	Longitude 103.7382482°W	County EDDY
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Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3565'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Brett Miller 01/21/2026		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature BRETT MILLER		Signature and Seal of Professional Surveyor Robert M. Howell	
Printed Name BRETT.MILLER@MEWBOURNE.COM		Certificate Number 19680	Date of Survey 07/02/2024
Email Address			

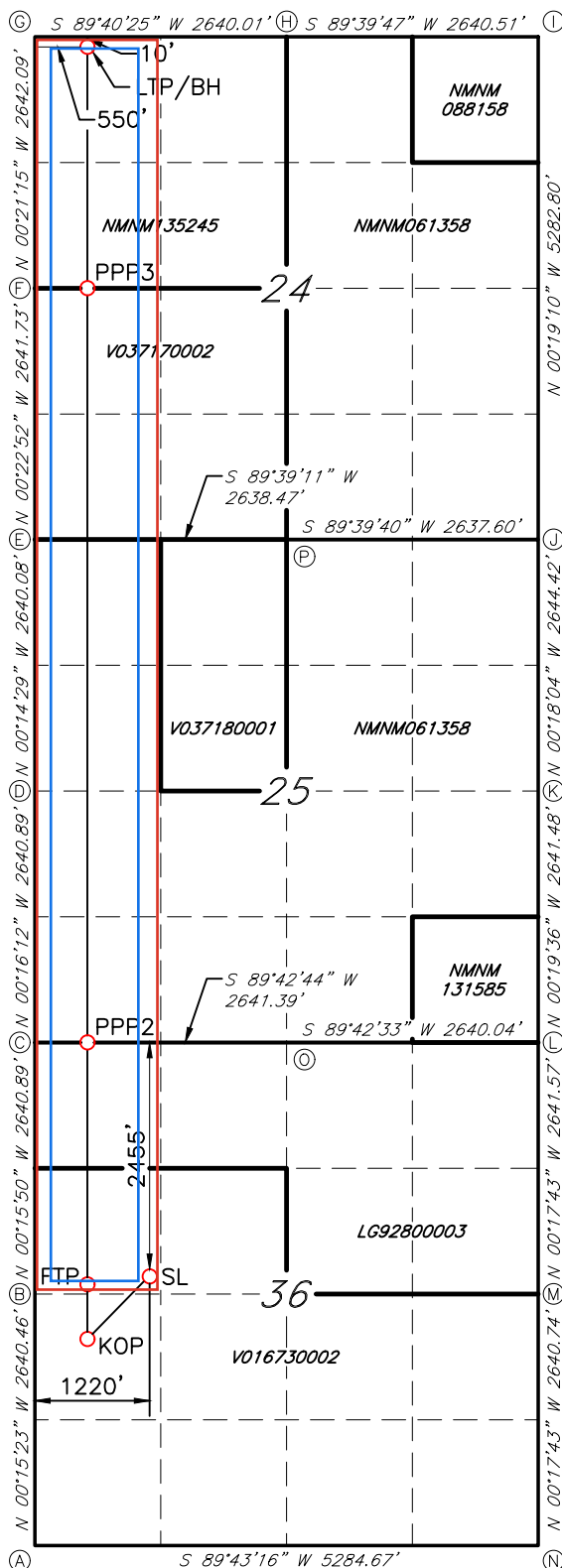
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

COUSIN EDDY FED UNIT #54H



GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
2455' FNL & 1220' FWL SEC.36
N: 522703.3 - E: 725596.9

LAT: 32.4355612° N
LONG: 103.7360893° W

KICK OFF POINT (KOP)
2167' FSL & 550' FWL SEC.36
N: 522041.2 - E: 724930.0

LAT: 32.4337513° N
LONG: 103.7382628° W

FIRST TAKE POINT (FTP)
2541' FNL & 550' FWL SEC.36
N: 522614.0 - E: 724927.4

LAT: 32.4353260° N
LONG: 103.7382608° W

PROPOSED PENETRATION POINT 2 (PPP2)
0' FSL & 548' FWL SEC.25
N: 525154.4 - E: 724914.0

LAT: 32.4423088° N
LONG: 103.7382584° W

PROPOSED PENETRATION POINT 3 (PPP3)
2642' FNL & 548' FWL SEC.24
N: 533075.7 - E: 724872.2

LAT: 32.4640824° N
LONG: 103.7382508° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
10' FNL & 550' FWL SEC.24
N: 535707.1 - E: 724858.3

LAT: 32.4713153° N
LONG: 103.7382482° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1916" N: 519871.5 - E: 724389.8	I: FOUND BRASS CAP "1916" N: 535744.5 - E: 729587.7
B: FOUND BRASS CAP "1916" N: 522511.4 - E: 724378.0	J: FOUND BRASS CAP "1916" N: 530462.9 - E: 729617.1
C: CALCULATED CORNER N: 525151.6 - E: 724365.8	K: FOUND BRASS CAP "1916" N: 527819.1 - E: 729631.0
D: FOUND BRASS CAP "1916" N: 527791.9 - E: 724353.4	L: FOUND BRASS CAP "1916" N: 525178.3 - E: 729646.0
E: FOUND BRASS CAP "1916" N: 530431.4 - E: 724342.3	M: FOUND BRASS CAP "1916" N: 522537.3 - E: 729659.7
F: FOUND BRASS CAP "1916" N: 533072.5 - E: 724324.7	N: FOUND BRASS CAP "1916" N: 519897.2 - E: 729673.3
G: FOUND BRASS CAP "1916" N: 535713.9 - E: 724308.4	O: FOUND BRASS CAP "1916" N: 525164.9 - E: 727006.6
H: FOUND BRASS CAP "1916" N: 535729.0 - E: 726947.8	P: FOUND BRASS CAP "1916" N: 530447.4 - E: 726980.1

JOB #: LS24070588D2

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 574205

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 574205
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 574205

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 574205
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mleal	Cement is required to circulate on both surface and intermediate1 strings of casing.	4/10/2026
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/10/2026
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	4/22/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/22/2026
ward.rikala	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.	4/22/2026
ward.rikala	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.	4/22/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/22/2026
ward.rikala	Operator must comply with all of the R-111-Q requirements.	4/22/2026