AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 04/07/2026 07:01 AM

APD ID:	10400110016	Well Status:	AAPD
APD Received Date:	02/23/2026 08:16 AM	Well Name:	COUSIN EDDY FED UNIT
Operator:	MEWBOURNE OIL COMPANY	Well Number:	49H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 3 file(s)
  -- Casing Design Assumptions and Worksheet(s): 6 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
  -- Other Facets: 3 file(s)
  -- Other Variances: 2 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- New Road Map: 1 file(s)
  -- Attach Well map: 1 file(s)
  -- Production Facilities map: 1 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Construction Materials source location attachment: 1 file(s)
  -- Well Site Layout Diagram: 1 file(s)
  -- Recontouring attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

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- Bond Report
- Bond Attachments
  -- None

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM61358

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.: NMNM106306061/Cousin Eddy Unit

8. Lease Name and Well No.: COUSIN EDDY FED UNIT 49H

2. Name of Operator: MEWBOURNE OIL COMPANY

9. API Well No.: 30-015-58104

3a. Address: P O BOX 5270, HOBBS, NM 88241

3b. Phone No. *(include area code)*: (575) 393-5905

10. Field and Pool, or Exploratory: BILBREY BASIN/BONE SPRING

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SWNW / 2455 FNL / 1320 FWL / LAT 32.435561 / LONG -103.7357653

At proposed prod. zone: NENW / 10 FNL / 2310 FWL / LAT 32.4713158 / LONG -103.7325427

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 36/T21S/R31E/NMP

14. Distance in miles and direction from nearest town or post office*: 20 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 330 feet

16. No of acres in lease: 100

17. Spacing Unit dedicated to this well: 400.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 20 feet

19. Proposed Depth: 11327 feet / 24957 feet

20. BLM/BIA Bond No. in file: FED: NMB106714150

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3567 feet

22. Approximate date work will start*: 04/04/2026

23. Estimated duration: 60 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	BRADLEY BISHOP / Ph: (575) 393-5905	02/23/2026

Title: Regulatory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CODY LAYTON / Ph: (575) 234-5959	04/06/2026

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

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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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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Additional Operator Remarks

Location of Well

0. SHL: SWNW / 2455 FNL / 1320 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.435561 / LONG: -103.7357653 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 2642 FNL / 2306 FWL / TWSP: 21S / RANGE: 31E / SECTION: 24 / LAT: 32.464084 / LONG: -103.7325457 (TVD: 11353 feet, MD: 22326 feet)

PPP: SESW / 0 FSL / 2308 FWL / TWSP: 21S / RANGE: 31E / SECTION: 25 / LAT: 32.442306 / LONG: -103.7325547 (TVD: 11431 feet, MD: 14403 feet)

PPP: SENW / 2541 FNL / 2310 FWL / TWSP: 21S / RANGE: 31E / SECTION: 36 / LAT: 32.4353227 / LONG: -103.7325575 (TVD: 11457 feet, MD: 11862 feet)

BHL: NENW / 10 FNL / 2310 FWL / TWSP: 21S / RANGE: 31E / SECTION: 24 / LAT: 32.4713158 / LONG: -103.7325427 (TVD: 11327 feet, MD: 24957 feet)

BLM Point of Contact

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

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Well Location GL: 3567'

Point	Calls	Leases
SHL	SHL: 2455' FNL & 1320' FWL (Sec 36)	State
KOP	KOP: 2168' FSL & 2310' FWL (Sec 36)	State
FTP	FTP/LP: 2541' FNL & 2310' FWL (Sec 36)	State
PPP2	PPP2: 0' FSL & 2308' FWL (Sec 25)	NMNM0613
PPP3	PPP3: 2642' FNL & 2306' FWL (Sec 24)	NMNM1352
BHL	BHL: 10' FNL & 2310' FWL (Sec 24)	NMNM1352

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Miner
Rustler	570'	Dolomite/Anhydrite	Us
Salt Top	850'	Salt	
Castile			
Marker Bed 126	1652'	Salt	
Salt Base	4120'	Salt	
Yates			
Seven Rivers			
Queen			
Capitan			
Grayburg			
San Andres			
Glorietta			
Yeso			

Casing Program Design A				
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom M
Surface	17.5"	0'	0'	645'
Intermediate	12.25"	0'	0'	3385'

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sa
13.375 in	LEAD	300	12.5	2.12
	TAIL	200	14.8	1.34
9.625 in	LEAD	700	12.5	2.12
	TAIL	200	14.8	1.34
7.625 in	LEAD	50	12.5	2.12
	TAIL	400	15.6	1.18
5.5 in	LEAD	810	13.5	1.85

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type	
12.25	13.375	5M	Annular	
		5M	Blind Ram	
			Pipe Ram	
			Double Ram	
			Other*	.

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (10962') to surface (horizontal well – vertical p
Y	No logs are planned based on well control or offset log information. Offset W
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	
☐	Compensated Densilog	☐	C
☐	Dip Meter Log	☑	
☐	Dual Lateral Log/Microspherically Focused	☐	
☐	Gamma Ray Log	☑	**Mc**
☐	Other	☐	
☐	Sonic Log	☐	S

Drilling Conditions

Condition	Specify what type and where
BH Pressure at deepest TVD	6851 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud sc
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 with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, mea

Other facets of operation

Mewbourne Oil Company requests approval to implement additional designs as described belov
contain PFAS chemicals in the completion or recompletion of the well.

Offline Cementing Variance: Variance is requested to perform offline cementing according to

Casing Program Design B				
Casing String	**Hole Diameter (in)**	**Top MD**	**Top TVD**	**Bottom M**
Surface	17.5"	0'	0'	645'
Intermediate	12.25"	0'	0'	3385'
Intermediate	12.25"	3385'	3385'	4295'
Production	8.75"	0'	0'	11862'
Liner	6.75"	10962'	10884'	24957'

All casing strings will be tested in acco

Is casing new? If used, attach certification as required in Onshore Order #1	
Is casing API approved? If no, attach casing specification sheet.	
Is premium or uncommon casing planned? If yes attach casing specification sheet.	
Does the above casing design meet or exceed BLM's minimum standards? If not provide justifi	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure ra	
Is well located within Capitan Reef?	
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into pre	

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.

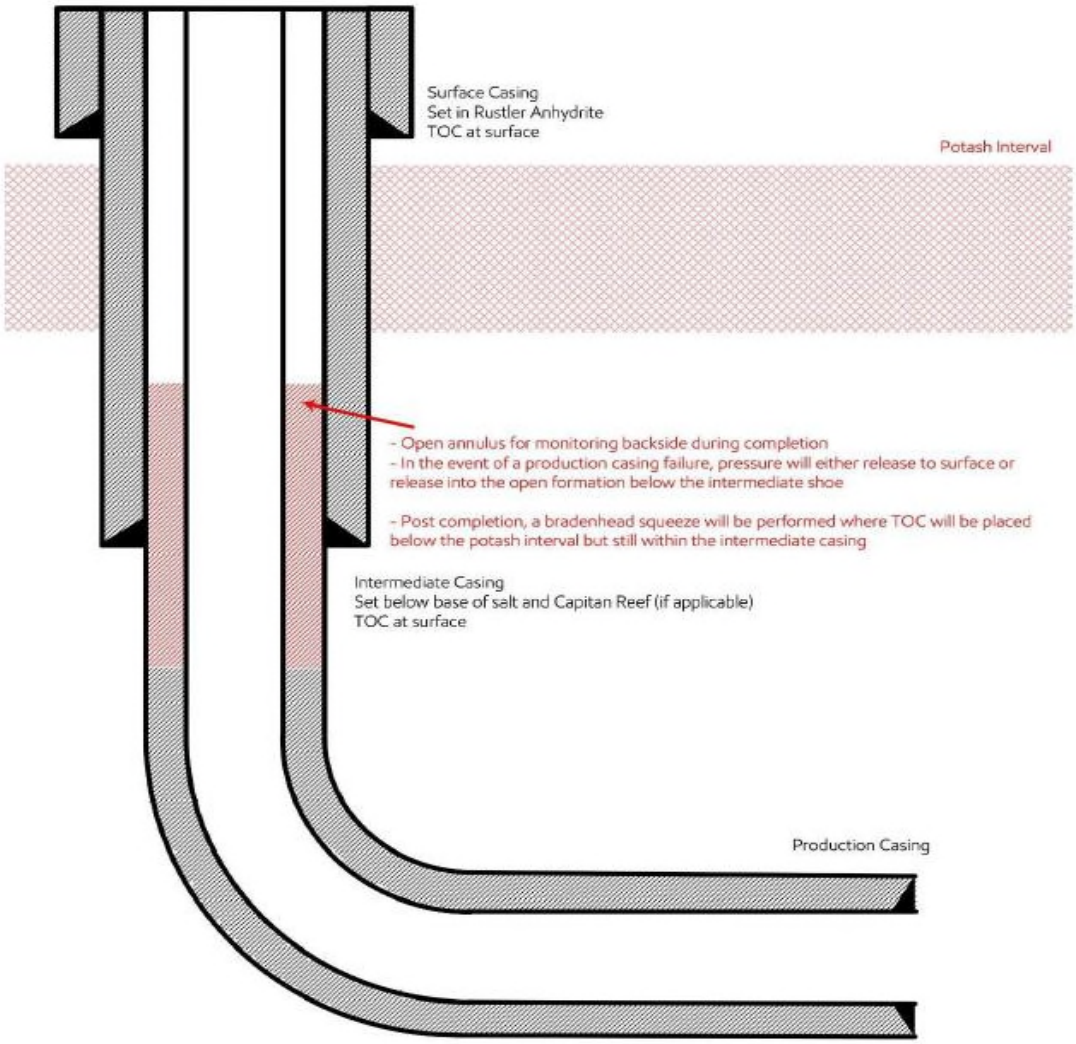
i. A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 1st Intermediate String. Reference wellbore diagram.

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



Mewbo

Casing Program Design A					
String	**Hole Size**	**Top MD**	**Top TVD**	**Bot MD**	
Surface	17.5"	0'	0'	645'	
Intermediate	12.25"	0'	0'	3385'	
Intermediate	12.25"	3385'	3385'	4295'	
Production	8.75"	0'	0'	10962'	
Liner	6.75"	10762'	10730'	24957'	

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft^3/sack	
13.375 in	LEAD	300	12.5	2.12	
	TAIL	200	14.8	1.34	
9.625 in	LEAD	700	12.5	2.12	
	TAIL	200	14.8	1.34	
7.625 in	LEAD	50	12.5	2.12	
	TAIL	400	15.6	1.18	

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	COUSIN EDDY FED UNIT 49H
APD ID:	10400110016
LOCATION:	Section 36, T.21 S., R.31 E. NMP.
COUNTY:	Eddy County, New Mexico

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	○ None	○ Secretary	◉ R-111-Q	☑ Open Annulus
	3-String Design: Open Production Casing Annulus			☐ WIPP
Cave / Karst	◉ Low	○ Medium	○ High	○ Critical
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 (H_2S) 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

 Approval Date: 04/06/2026

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 **7-5/8 in.** production casing at approximately **10,962 ft.** (KOP in Design A) or **11,862 ft.** (Landing point in Design B). The minimum required fill of cement behind the **7-5/8 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 **5-1/2 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

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Operator Certification Data Report

04/07/2026

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:** 02/23/2026

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:

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

Application Data
04/07/2026

APD ID: 10400110016 **Submission Date:** 02/23/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

Well Type: OIL WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400110016 **Tie to previous NOS?** N **Submission Date:** 02/23/2026

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:** 49H

Field/Pool or Exploratory area: Field and Pool **Field Name:** BILBREY BASIN **Pool Name:** BONE SPRING

Released to Imaging: 4/22/2026 2:54:46 PM

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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 49 50 51 52 53 54 55 **Number:** 11

Well Class: HORIZONTAL

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__49H_C102_20260204084055.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	1320	FWL	21S	31E	36	Aliquot SWNW	32.435561	-103.7357653	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	3567			Y
KOP Leg #1	2168	FSL	2310	FWL	21S	31E	36	Aliquot NESW	32.4337481	-103.7325596	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-7317	10962	10884	Y

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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	2310	FWL	21S	31E	36	Aliquot SENW	32.4353227	-103.7325575	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-7890	11862	11457	Y
PPP Leg #1-2	0	FSL	2308	FWL	21S	31E	25	Aliquot SESW	32.442306	-103.7325547	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 61358	-7864	14403	11431	Y
PPP Leg #1-3	2642	FNL	2306	FWL	21S	31E	24	Aliquot SENW	32.464084	-103.7325457	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 135245	-7786	22326	11353	Y
EXIT Leg #1	10	FNL	2310	FWL	21S	31E	24	Aliquot NENW	32.4713158	-103.7325427	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 135245	-7760	24957	11327	Y
BHL Leg #1	10	FNL	2310	FWL	21S	31E	24	Aliquot NENW	32.4713158	-103.7325427	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 135245	-7760	24957	11327	Y

CONFIDENTIAL

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	Pool Name
	5695	BILBREY BASIN; BONE SPRING

Property Code	Property Name	Well Number
	COUSIN EDDY FED UNIT	49H

OGRID No.	Operator Name	Ground Level Elevation
14744	MEWBOURNE OIL COMPANY	3567'

Surface Owner: ☑ State ☐ Fee ☐ Tribal ☐ Federal | Mineral Owner: ☑ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	36	21S	31E		2455 FNL	1320 FWL	32.4355610°N	103.7357653°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	24	21S	31E		10 FNL	2310 FWL	32.4713158°N	103.7325427°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
400	INFILL	COUSIN EDDY FED UNIT #56H	Y	P

Order Numbers. NMNM106306061 | Well setbacks are under Common Ownership: ☐ Yes ☑ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	36	21S	31E		2168 FSL	2310 FWL	32.4337481°N	103.7325596°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	36	21S	31E		2541 FNL	2310 FWL	32.4353227°N	103.7325575°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	24	21S	31E		10 FNL	2310 FWL	32.4713158°N	103.7325427°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation:
Y		3567'

OPERATOR CERTIFICATIONS

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 interst, or to a voluntary pooling agreement or a compulsory poolling order heretofore entered by the division.

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.

Brett Miller — 01/22/2026

Signature — Date

BRETT MILLER

Printed Name

BRETT.MILLER@MEWBOURNE.COM

Email Address

SURVEYOR CERTIFICATIONS

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.

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	07/02/2024

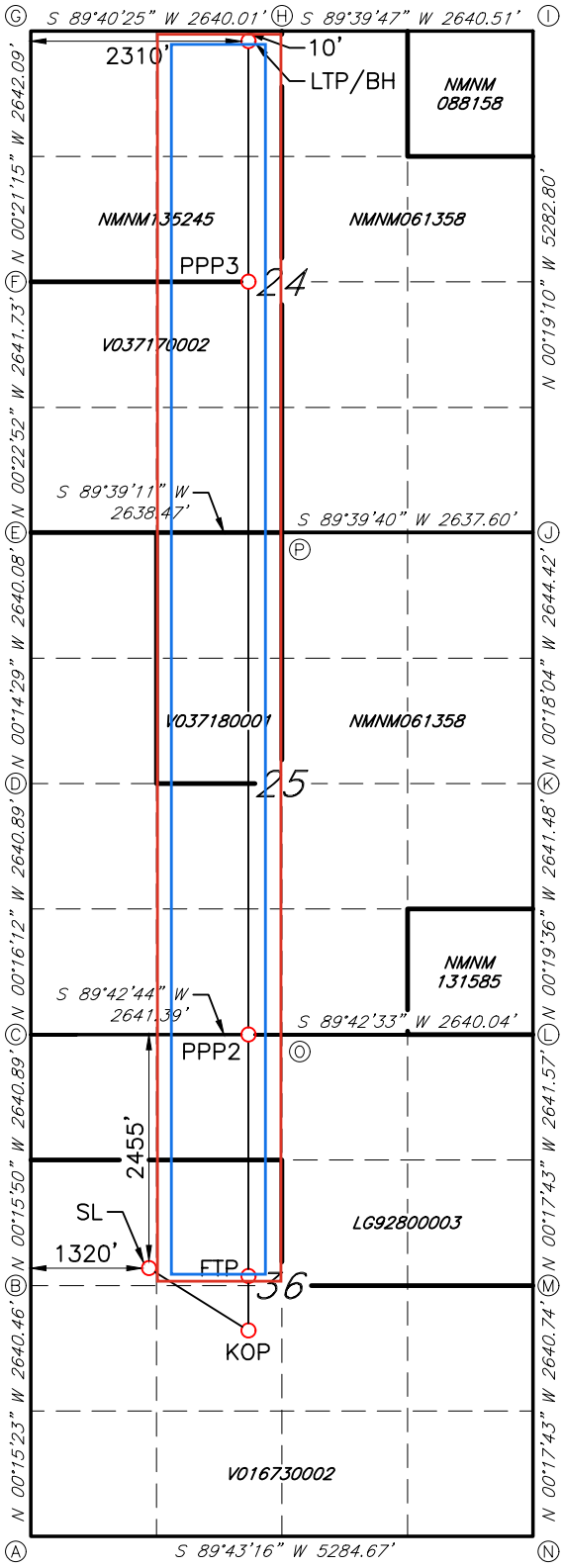
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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 #49H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
2455' FNL & 1320' FWL SEC.36
N: 522703.8 – E: 725696.9

LAT: 32.4355610° N
LONG: 103.7357653° W

KICK OFF POINT (KOP)
2168' FSL & 2310' FWL SEC.36
N: 522049.8 – E: 726689.6

LAT: 32.4337481° N
LONG: 103.7325596° W

FIRST TAKE POINT (FTP)
2541' FNL & 2310' FWL SEC.36
N: 522622.7 – E: 726687.0

LAT: 32.4353227° N
LONG: 103.7325575° W

PROPOSED PENETRATION POINT 2 (PPP2)
0' FSL & 2308' FWL SEC.25
N: 525163.2 – E: 726673.6

LAT: 32.4423060° N
LONG: 103.7325547° W

PROPOSED PENETRATION POINT 3 (PPP3)
2642' FNL & 2308' FWL SEC.24
N: 533086.1 – E: 726631.8

LAT: 32.4640840° N
LONG: 103.7325457° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
10' FNL & 2310' FWL SEC.24
N: 535717.1 – E: 726617.9

LAT: 32.4713158° N
LONG: 103.7325427° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1916"
N: 519871.5 – E: 724389.8

B: FOUND BRASS CAP "1916"
N: 522511.4 – E: 724378.0

C: CALCULATED CORNER
N: 525151.6 – E: 724365.8

D: FOUND BRASS CAP "1916"
N: 527791.9 – E: 724353.4

E: FOUND BRASS CAP "1916"
N: 530431.4 – E: 724342.3

F: FOUND BRASS CAP "1916"
N: 533072.5 – E: 724324.7

G: FOUND BRASS CAP "1916"
N: 535713.9 – E: 724308.4

H: FOUND BRASS CAP "1916"
N: 535729.0 – E: 726947.8

I: FOUND BRASS CAP "1916"
N: 535744.5 – E: 729587.7

J: FOUND BRASS CAP "1916"
N: 530462.9 – E: 729617.1

K: FOUND BRASS CAP "1916"
N: 527819.1 – E: 729631.0

L: FOUND BRASS CAP "1916"
N: 525178.3 – E: 729646.0

M: FOUND BRASS CAP "1916"
N: 522537.3 – E: 729659.7

N: FOUND BRASS CAP "1916"
N: 519897.2 – E: 729673.3

O: FOUND BRASS CAP "1916"
N: 525164.9 – E: 727006.6

P: FOUND BRASS CAP "1916"
N: 530447.4 – E: 726980.1

JOB #: LS24070583D2

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BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
04/07/2026

APD ID: 10400110016
Submission Date: 02/23/2026
Operator Name: MEWBOURNE OIL COMPANY
Well Name: COUSIN EDDY FED UNIT
Well Number: 49H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17801022	UNKNOWN	3567	28	28	OTHER : Top Soil	NONE	N
17801033	RUSTLER	2997	570	570	ANHYDRITE, DOLOMITE	USEABLE WATER	N
17801034	TOP SALT	2717	850	850	SALT	NONE	N
17801023	BOTTOM SALT	-553	4120	4120	SALT	NONE	N
17801035	LAMAR	-803	4370	4370	LIMESTONE	NATURAL GAS, OIL	N
17801036	BELL CANYON	-883	4450	4450	SANDSTONE	NATURAL GAS, OIL	N
17801037	CHERRY CANYON	-1733	5300	5300	SANDSTONE	NATURAL GAS, OIL	N
17801038	BRUSHY CANYON	-3033	6600	6600	SANDSTONE	NATURAL GAS, OIL	N
17801039	BONE SPRINGS	-4733	8300	8300	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
17801021	BONE SPRING	-5833	9400	9400	SANDSTONE	NATURAL GAS, OIL	N
17801024	BONE SPRING 2ND	-6593	10160	10160	SANDSTONE	NATURAL GAS, OIL	Y
17801041	BONE SPRING 3RD	-7623	11190	11190	SANDSTONE	NATURAL GAS, OIL	Y
17801042	WOLFCAMP	-8033	11600	11600	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

Pressure Rating (PSI): 5M **Rating Depth:** 24957

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_20260204090850.pdf

Flex_Line_Specs_API_16C_20260204091158.pdf

BOP Diagram Attachment:

5M_BOPE_Schematic_20260204091207.pdf

Vault_5K_with_7.625_csg_WH_20260204091221.pdf

Multi_Bowl_WH_20260204091239.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	3567	2922	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	182	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	-728	910	J-55	40	LT&C	1.13	1.73	DRY	14.29	DRY	17.31
4	PRODUCTION	8.75	7.625	NEW	API	N	0	10962	0	10884		-7317	10962	HCP-110	29.7	OTHER - GBCD	1.51	1.72	DRY	2.36	DRY	2.89
5	LINER	6.125	5.5	NEW	API	N	10762	24957	10730	11327	-7163	-7760	14195	OTHER - HCP110	20	OTHER - TALON	1.62	1.84	DRY	2.39	DRY	2.8

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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

CONFIDENTIAL

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

Casing Attachments

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

7.625in_29.7_HCP110_GBCD_Slim_Csg_20260204092216.pdf

Casing ID: 5 **String** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

5.5in_20_HPP110_Talon_Csg_20260204092340.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	6366	50	2.12	12.5	110	0	Class C	SALT, GEL, EXTENDER, LCM,

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		6366	10962	400	1.18	15.6	472	0	Class H	Retarder, Fluid Loss, Defoamer
LINER	Lead		10762	24957	810	1.85	13.5	1500	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	10962	WATER-BASED MUD	8.6	9.7							
10962	24957	OIL-BASED MUD	10	11.5							

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6851 **Anticipated Surface Pressure:** 4330

Anticipated Bottom Hole Temperature(F): 140

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

Describe:

Contingency Plans geoharzards 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_49H_Dir_Plan_20260204093359.pdf
COUSIN_EDDY_FED_UNIT_49H_Dir_Plot_20260204093403.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

NGMP_20260204093419.pdf
Cousin_Eddy_Fed_Unit__49H_R_111Q_Csg___Cmt_Assumptions_20260218072240.pdf
Cousin_Eddy_Fed_Unit__49H_Drlg_Program_20260218072240.pdf

Other Variance request(s)?: Y

Other Variance attachment:

MOC_Break_Testing_Variance_20260204093437.pdf
MOC_Offline_Cementing_Variance_20260204093442.pdf

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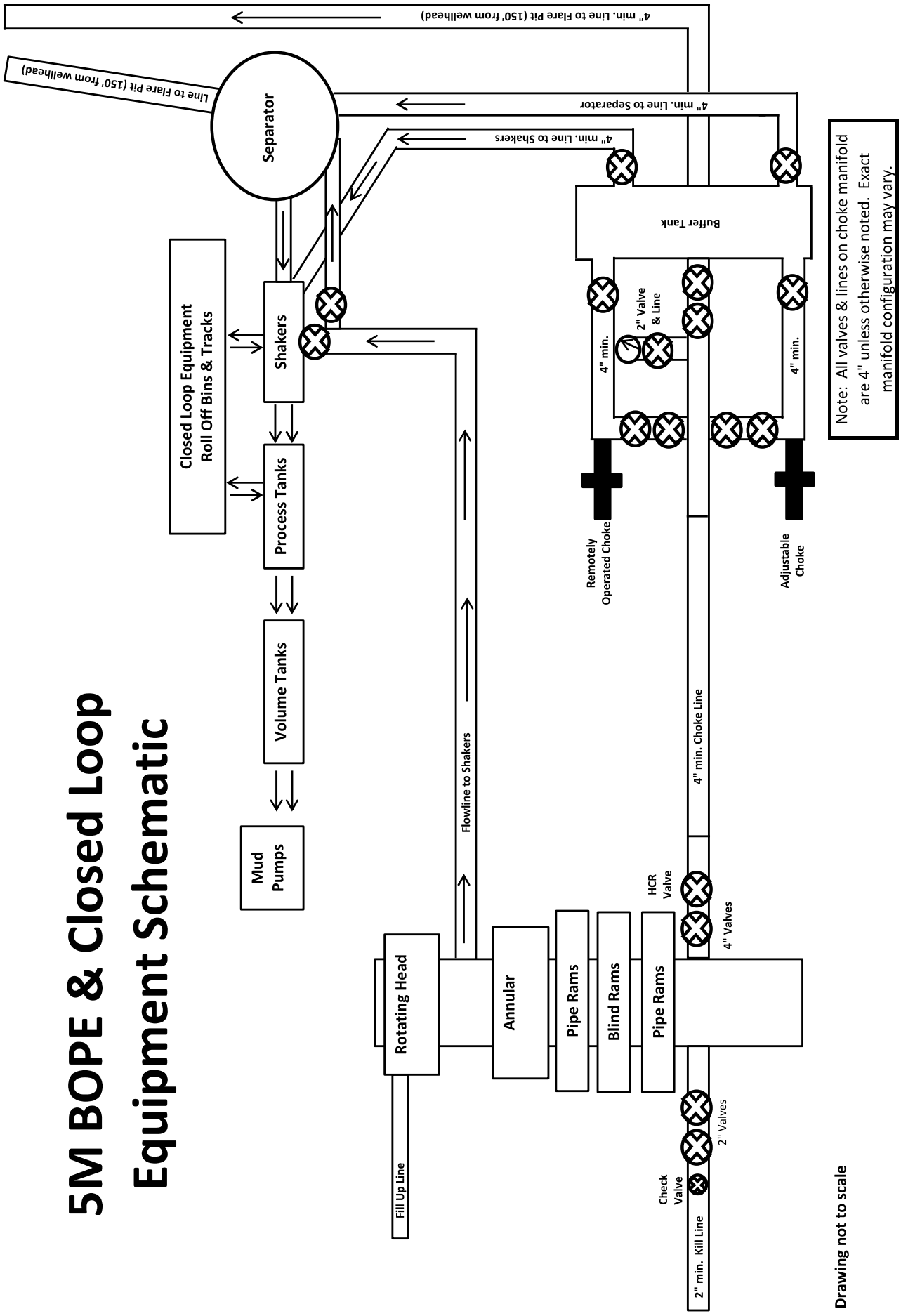

5M BOPE & Closed Loop Equipment Schematic
4" min. Line to Flare Pit (150' from wellhead)
Line to Flare Pit (150' from wellhead)
Separator
4" min. Line to Separator
4" min. Line to Shakers
Buffer Tank
Closed Loop Equipment Roll Off Bins & Tracks
Shakers
Process Tanks
Volume Tanks
Mud Pumps
Flowline to Shakers
4" min.
2" Valve & Line
4" min.
Remotely Operated Choke
Adjustable Choke
Note: All valves & lines on choke manifold are 4" unless otherwise noted. Exact manifold configuration may vary.
4" min. Choke Line
HCR Valve
4" Valves
Rotating Head
Annular
Pipe Rams
Blind Rams
Pipe Rams
2" Valves
Check Valve
2" min. Kill Line
Fill Up Line
Drawing not to scale

LETONE

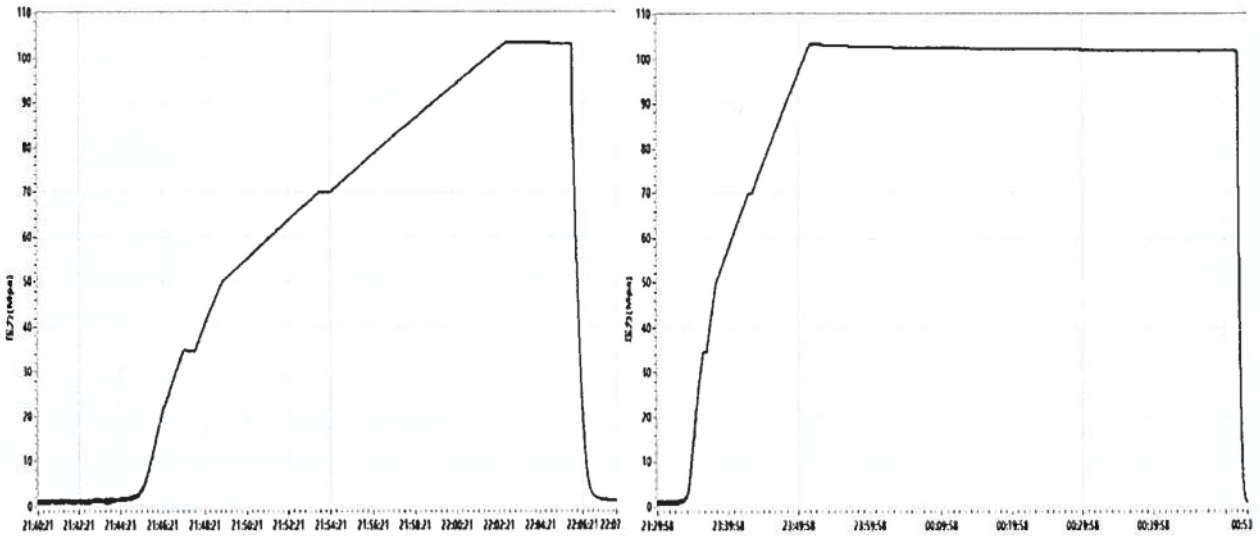
LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESTING REPORT

LTYY/QR-5.7.1-28 №: 230826015

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3rd 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 ±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 3rd edition				
Approver	Jiaolong Chen	Auditor	Huiqing Dong	Inspector	Zhansheng Wang

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYY/QR-5.7.1-19B №: 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 3rd edition
Inspection Department	Q.C. Department	Inspection date	2023.08.26

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

Approver	Jiaolong Chen	Auditor	Hlinging Dong	Inspector	Zhansheng Wang

LETONE

LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF CONFORMANCE

№:LT230826016

Product Name：Choke And Kill Hose

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

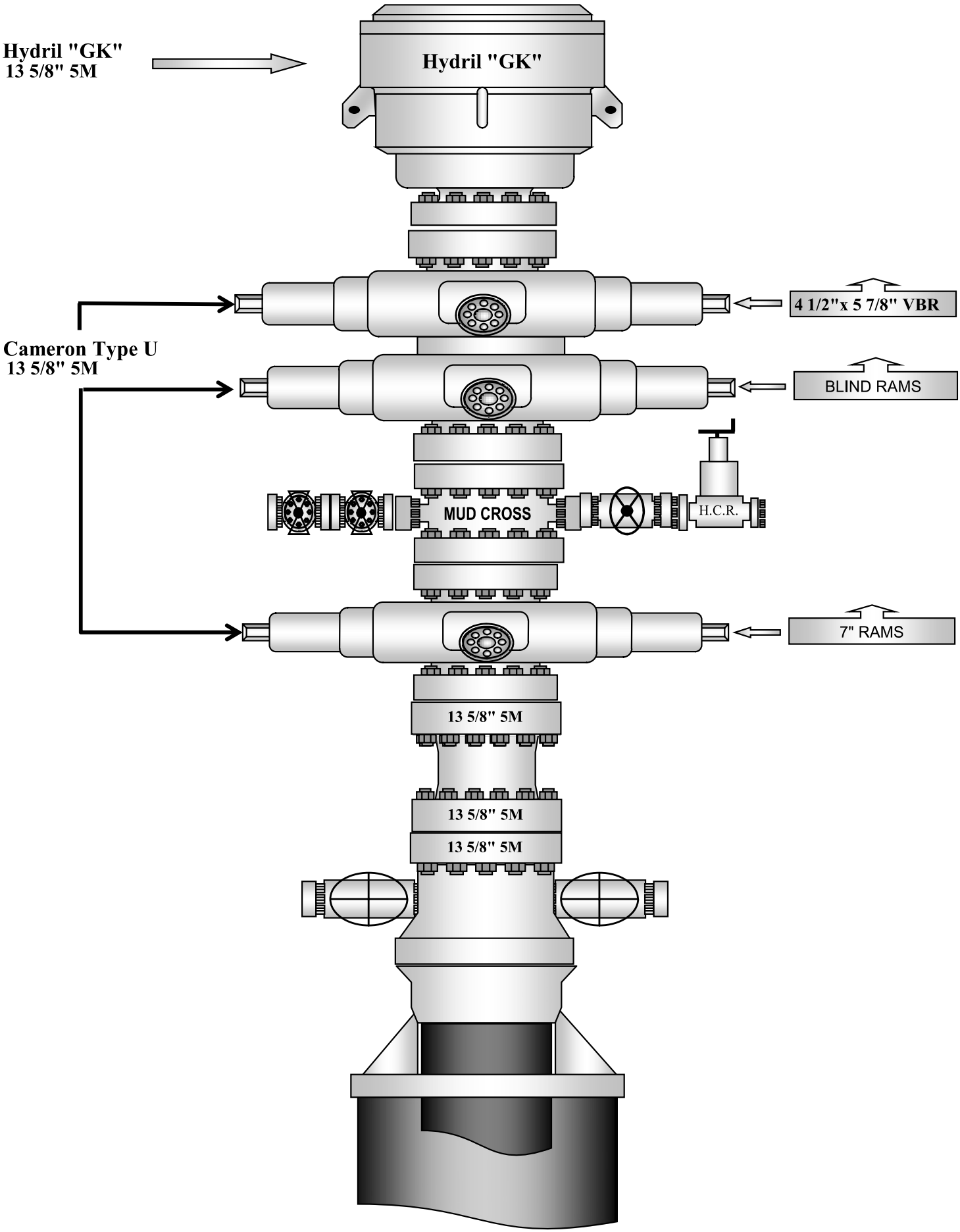
Serial Number：7660143~7660144

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：Jiaolong Chen Date:Aug 26, 2023

5M BOPE Schematic



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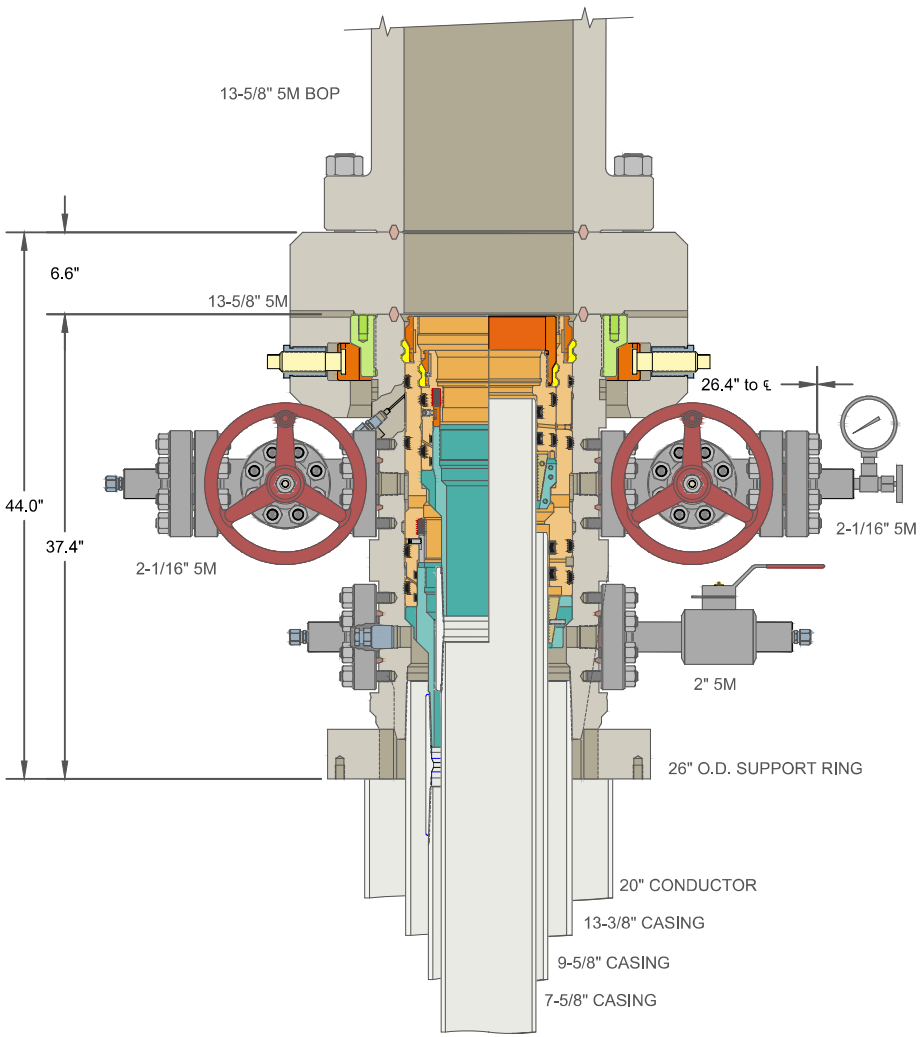

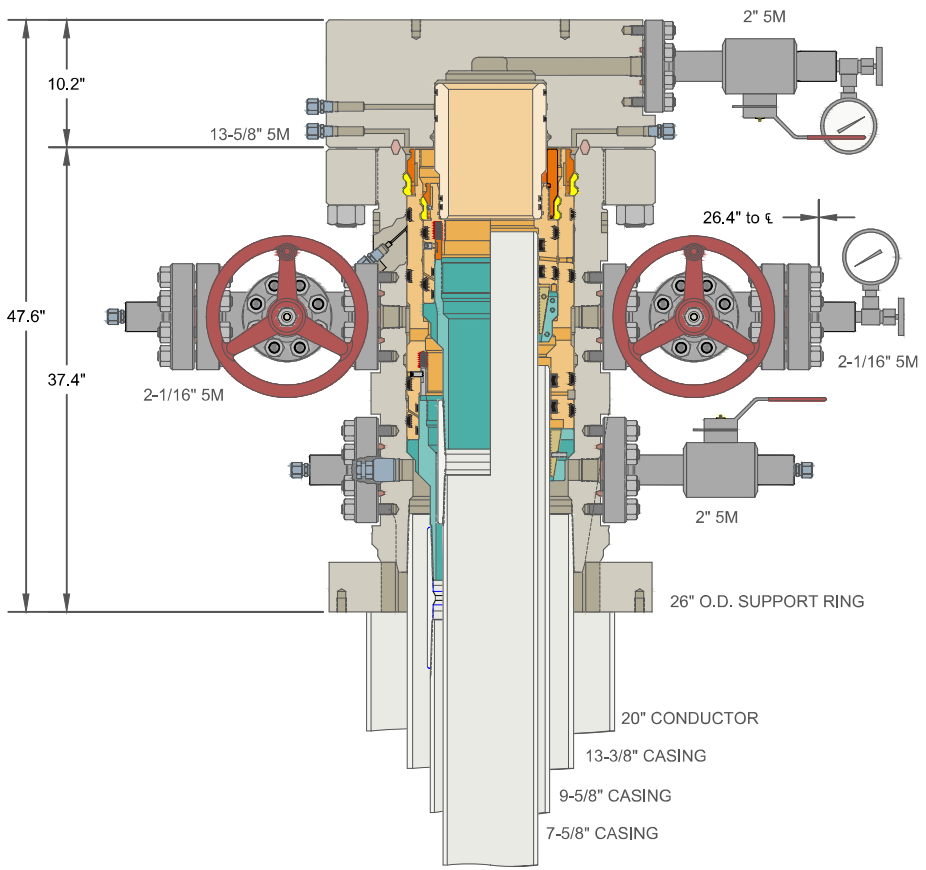

VAULT PRESSURE CONTROL

20" X 13-3/8" X 9-5/8" X 7-5/8" 5/10M RSH-2N WELLHEAD ASSEMBLY, WITH TA CAP

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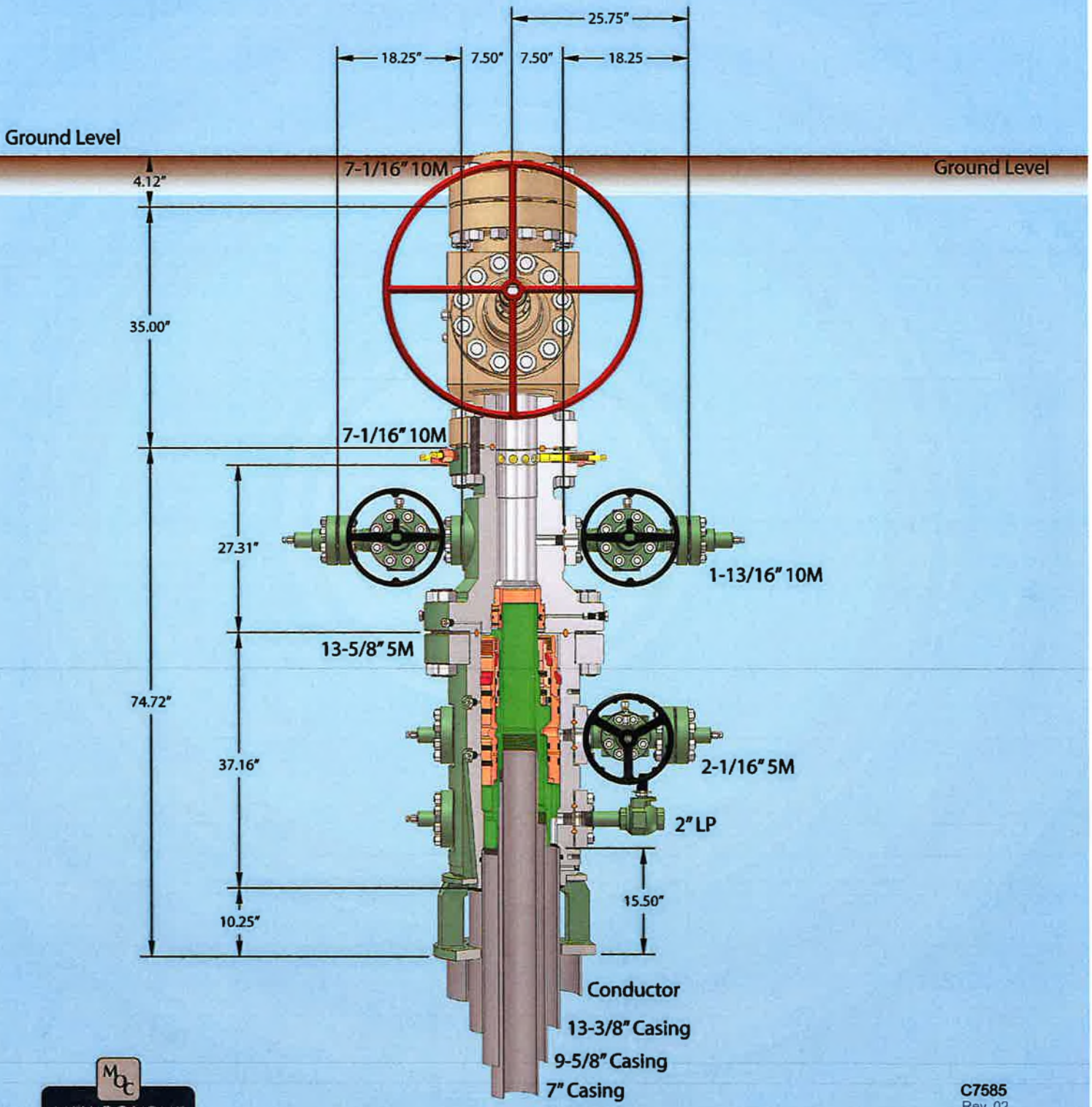
DRAWN BY:	KN	DRAWING NO.	11003848
REVIEWED BY:		Rev. NC	Sht. 1 of 1
APPROVED BY:		DATE:	3/3/2025

MEWBOURNE OIL COMPANY

CAMERON
A Schlumberger Company

13-5/8" MN-DS Wellhead System



MEWBOURNE OIL COMPANY

C7585
Rev. 02

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

Capping flange 57" conductor cut-off

Tenaris

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.	**SMYS**	55,000 psi
Wall Thickness	0.395 in.	**Plain End Weight**	38.97 lb/ft	**Min UTS**	75,000 psi
Nominal Weight	40 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	630 x1000 lb
Nominal ID	8.835 in.			**Min. Internal Yield Pressure**	3950 psi
				Collapse Pressure	2570 psi
				Max. Allowed Bending	26 °/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.
Couplings OD are shown according to current API 5CT 10th Edition.

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Tenaris

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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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.
Couplings OD are shown according to current API 5CT 10th Edition.

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Tenaris

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

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
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Couplings OD are shown according to current API 5CT 10th Edition.

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Mewbourne Oil Company, Bilbrey 34/27 B1PA Fed Com #2H
Sec 34, T21S, R32E
SHL: 205' FSL & 1060' FEL, Sec 34
BHL: 100' FNL & 1230' FEL, Sec 27

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	955'	13.375"	48	H40	STC	1.76	3.96	7.02	11.80
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.47	3.08
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	8.83	10.70
12.25"	4393'	4925'	9.625"	40	N80	LTC	1.21	2.25	34.64	43.06
8.75"	0'	9500'	7"	26	P110	LTC	1.30	2.08	2.59	3.36
6.125"	9300'	20372'	4.5"	13.5	P110	LTC	1.69	1.97	2.26	2.82
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	Y
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?	

tex-isle

Casing Performance Data Sheet
Manufactured to API 5CT
With GB CD Slim Connection

Grade	*P110 HC*
OD	*7.625”*
Nominal Wall Thickness	*0.375”*
Nominal Weight, T&C	*29.700 lb/ft*
Nominal Weight, PE	*29.060 lb/ft*
Nominal ID	*6.875”*
Standard Drift	*6.750”*

Performance Properties

Collapse Rating	*6,700 psi*
Internal Pressure Yield	*9,460 psi*
Pipe body Tension Yield	*940,000 lbs*

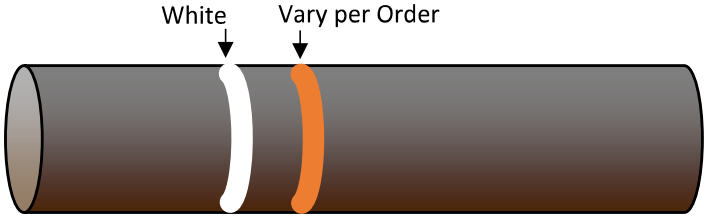
Connection Performance per GB

GB CD Slim Hole 7.900 COUPLING GEOMETRY			
Coupling OD (in.)	7.900	Makeup Loss (in.)	4.8125
Coupling Length (in.)	9.625	Critical Cross-Sect. (in.^{2})	6.721

GB CD Slim Hole 7.900 CONNECTION PERFORMANCE RATINGS/EFFICIENCIES						
Material Specification	API P-110	Min. Yield Str. (psi)		110,000	Min. Ultimate Str. (psi)	125,000
Tension		**Efficiency**			**Bending**	
			Gas	**Liquid*** **		
Tension OD Turn (kips)	776	Internal Pressure (%)	83%	100%	Build Rate to Yield (°/100 ft)	59.3
Thread Str. (kips)	794	External Pressure (%)	100%		**Yield Torque**	
Min. Tension Yield (kips)	702	Tension (%)	85%		Yield Torque (ft-lbs)	48,860
Min. Tension Ult. (kips)	798	Compression (%)	85%			
Joint Str. (kips)	794	Ratio of Areas (Cplg/Pipe)	0.79			
		Ratio of Areas (Cplg/OD Turn)	0.95			

MAKEUP TORQUE					
Min. MU Tq. (ft-lbs)	10,000	Max. MU Tq. (ft-lbs)	20,000	Running Tq. (ft-lbs)	See GBC RP
				Max. Operating Tq. (ft-lbs)*	46,410

Color Code



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U. S. Steel Tubular Products

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5.500" 20.00lb/ft (0.361" Wall) P110 HP USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000	--	psi	–
Maximum Yield Strength	140,000	--	psi	–
Minimum Tensile Strength	130,000	--	psi	–
DIMENSIONS	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Outside Diameter	5.500	5.900	in.	–
Wall Thickness	0.361	–	in.	–
Inside Diameter	4.778	4.778	in.	–
Standard Drift	4.653	4.653	in.	–
Alternate Drift	–	–	in.	–
Nominal Linear Weight, T&C	20.00	–	lb/ft	–
Plain End Weight	19.83	–	lb/ft	–
SECTION AREA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Critical Area	5.828	5.828	sq. in.	–
Joint Efficiency	–	100.0	%	[2]
PERFORMANCE	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Minimum Collapse Pressure	13,150	13,150	psi	–
Minimum Internal Yield Pressure	14,360	14,360	psi	–
Minimum Pipe Body Yield Strength	729,000	–	lb	–
Joint Strength	--	729,000	lb	–
Compression Rating	--	729,000	lb	–
Reference Length	--	24,300	ft	[5]
Maximum Uniaxial Bend Rating	--	104.2	deg/100 ft	[3]
MAKE-UP DATA	**Pipe**	**USS-TALON HTQ™ RD**		**--**
Make-Up Loss	–	5.58	in.	–
Minimum Make-Up Torque	–	18,400	ft-lb	[4]
Maximum Make-Up Torque	–	21,400	ft-lb	[4]
Maximum Operating Torque	–	44,400	ft-lb	[4]

UNCONTROLLED

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3. Uniaxial bend rating shown is structural only.
4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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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 know 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 #49H
Sec 36, T21S, R31E
SHL: 2455' FNL & 1320' FWL (Sec 36)
BHL: 10' FNL & 2310' FWL (Sec 24)

Plan: Design #1

Standard Planning Report

19 January, 2026

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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 #49H

Site Position:		**Northing:**	522,703.80 usft	**Latitude:**	32.4355609
From:	Map	**Easting:**	725,696.90 usft	**Longitude:**	-103.7357651
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 36, T21S, R31E

Well Position	**+N/-S**	0.0 usft	**Northing:**	522,703.80 usft	**Latitude:**	32.4355609
	+E/-W	0.0 usft	**Easting:**	725,696.90 usft	**Longitude:**	-103.7357651
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,595.0 usft	**Ground Level:**	3,567.0 usft
Grid Convergence:		0.32 °				

Wellbore BHL: 10' FNL & 2310' FWL (Sec 24)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.24	60.27	48,345.07743945

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	4.05

Plan Survey Tool Program **Date** 1/19/2026

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	24,957.6	Design #1 (BHL: 10' FNL & 2310'		

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	
2,034.6	7.65	123.38	2,033.4	-14.0	21.3	2.00	2.00	0.00	123.38	
10,579.8	7.65	123.38	10,502.6	-640.0	971.4	0.00	0.00	0.00	0.00	
10,962.4	0.00	0.00	10,884.0	-654.0	992.7	2.00	-2.00	0.00	180.00	KOP: 2168' FSL & 23
11,868.2	90.57	359.70	11,457.0	-75.3	989.7	10.00	10.00	0.00	-0.30	
24,957.6	90.57	359.70	11,327.0	13,013.3	921.0	0.00	0.00	0.00	0.00	BHL: 10' FNL & 2310'

Planning Report

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Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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 & 1320' 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	123.38	1,700.0	-0.2	0.3	-0.2	2.00	2.00	0.00
1,750.0	1.96	123.38	1,750.0	-0.9	1.4	-0.8	2.00	2.00	0.00
1,800.0	2.96	123.38	1,799.9	-2.1	3.2	-1.9	2.00	2.00	0.00
1,850.0	3.96	123.38	1,849.8	-3.8	5.7	-3.4	2.00	2.00	0.00
1,900.0	4.96	123.38	1,899.7	-5.9	9.0	-5.3	2.00	2.00	0.00
1,950.0	5.96	123.38	1,949.5	-8.5	12.9	-7.6	2.00	2.00	0.00
2,000.0	6.96	123.38	1,999.1	-11.6	17.6	-10.3	2.00	2.00	0.00
2,034.6	7.65	123.38	2,033.4	-14.0	21.3	-12.5	2.00	2.00	0.00
2,050.0	7.65	123.38	2,048.7	-15.2	23.0	-13.5	0.00	0.00	0.00
2,100.0	7.65	123.38	2,098.3	-18.8	28.6	-16.8	0.00	0.00	0.00
2,150.0	7.65	123.38	2,147.8	-22.5	34.1	-20.0	0.00	0.00	0.00
2,200.0	7.65	123.38	2,197.4	-26.2	39.7	-23.3	0.00	0.00	0.00
2,250.0	7.65	123.38	2,246.9	-29.8	45.3	-26.5	0.00	0.00	0.00
2,300.0	7.65	123.38	2,296.5	-33.5	50.8	-29.8	0.00	0.00	0.00
2,350.0	7.65	123.38	2,346.1	-37.1	56.4	-33.1	0.00	0.00	0.00
2,400.0	7.65	123.38	2,395.6	-40.8	61.9	-36.3	0.00	0.00	0.00
2,450.0	7.65	123.38	2,445.2	-44.5	67.5	-39.6	0.00	0.00	0.00
2,500.0	7.65	123.38	2,494.7	-48.1	73.0	-42.8	0.00	0.00	0.00

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Wellbore:	BHL: 10' FNL & 2310' 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	7.65	123.38	2,544.3	-51.8	78.6	-46.1	0.00	0.00	0.00
2,600.0	7.65	123.38	2,593.8	-55.5	84.2	-49.4	0.00	0.00	0.00
2,650.0	7.65	123.38	2,643.4	-59.1	89.7	-52.6	0.00	0.00	0.00
2,700.0	7.65	123.38	2,692.9	-62.8	95.3	-55.9	0.00	0.00	0.00
2,750.0	7.65	123.38	2,742.5	-66.4	100.8	-59.2	0.00	0.00	0.00
2,800.0	7.65	123.38	2,792.0	-70.1	106.4	-62.4	0.00	0.00	0.00
2,850.0	7.65	123.38	2,841.6	-73.8	112.0	-65.7	0.00	0.00	0.00
2,900.0	7.65	123.38	2,891.2	-77.4	117.5	-68.9	0.00	0.00	0.00
2,950.0	7.65	123.38	2,940.7	-81.1	123.1	-72.2	0.00	0.00	0.00
3,000.0	7.65	123.38	2,990.3	-84.8	128.6	-75.5	0.00	0.00	0.00
3,050.0	7.65	123.38	3,039.8	-88.4	134.2	-78.7	0.00	0.00	0.00
3,100.0	7.65	123.38	3,089.4	-92.1	139.8	-82.0	0.00	0.00	0.00
3,150.0	7.65	123.38	3,138.9	-95.7	145.3	-85.2	0.00	0.00	0.00
3,200.0	7.65	123.38	3,188.5	-99.4	150.9	-88.5	0.00	0.00	0.00
3,250.0	7.65	123.38	3,238.0	-103.1	156.4	-91.8	0.00	0.00	0.00
3,300.0	7.65	123.38	3,287.6	-106.7	162.0	-95.0	0.00	0.00	0.00
3,350.0	7.65	123.38	3,337.2	-110.4	167.6	-98.3	0.00	0.00	0.00
3,400.0	7.65	123.38	3,386.7	-114.0	173.1	-101.5	0.00	0.00	0.00
3,450.0	7.65	123.38	3,436.3	-117.7	178.7	-104.8	0.00	0.00	0.00
3,500.0	7.65	123.38	3,485.8	-121.4	184.2	-108.1	0.00	0.00	0.00
3,550.0	7.65	123.38	3,535.4	-125.0	189.8	-111.3	0.00	0.00	0.00
3,600.0	7.65	123.38	3,584.9	-128.7	195.4	-114.6	0.00	0.00	0.00
3,650.0	7.65	123.38	3,634.5	-132.4	200.9	-117.8	0.00	0.00	0.00
3,700.0	7.65	123.38	3,684.0	-136.0	206.5	-121.1	0.00	0.00	0.00
3,750.0	7.65	123.38	3,733.6	-139.7	212.0	-124.4	0.00	0.00	0.00
3,800.0	7.65	123.38	3,783.1	-143.3	217.6	-127.6	0.00	0.00	0.00
3,850.0	7.65	123.38	3,832.7	-147.0	223.1	-130.9	0.00	0.00	0.00
3,900.0	7.65	123.38	3,882.3	-150.7	228.7	-134.2	0.00	0.00	0.00
3,950.0	7.65	123.38	3,931.8	-154.3	234.3	-137.4	0.00	0.00	0.00
4,000.0	7.65	123.38	3,981.4	-158.0	239.8	-140.7	0.00	0.00	0.00
4,050.0	7.65	123.38	4,030.9	-161.7	245.4	-143.9	0.00	0.00	0.00
4,100.0	7.65	123.38	4,080.5	-165.3	250.9	-147.2	0.00	0.00	0.00
4,150.0	7.65	123.38	4,130.0	-169.0	256.5	-150.5	0.00	0.00	0.00
4,200.0	7.65	123.38	4,179.6	-172.6	262.1	-153.7	0.00	0.00	0.00
4,250.0	7.65	123.38	4,229.1	-176.3	267.6	-157.0	0.00	0.00	0.00
4,300.0	7.65	123.38	4,278.7	-180.0	273.2	-160.2	0.00	0.00	0.00
4,350.0	7.65	123.38	4,328.2	-183.6	278.7	-163.5	0.00	0.00	0.00
4,400.0	7.65	123.38	4,377.8	-187.3	284.3	-166.8	0.00	0.00	0.00
4,450.0	7.65	123.38	4,427.4	-191.0	289.9	-170.0	0.00	0.00	0.00
4,500.0	7.65	123.38	4,476.9	-194.6	295.4	-173.3	0.00	0.00	0.00
4,550.0	7.65	123.38	4,526.5	-198.3	301.0	-176.5	0.00	0.00	0.00
4,600.0	7.65	123.38	4,576.0	-201.9	306.5	-179.8	0.00	0.00	0.00
4,650.0	7.65	123.38	4,625.6	-205.6	312.1	-183.1	0.00	0.00	0.00
4,700.0	7.65	123.38	4,675.1	-209.3	317.7	-186.3	0.00	0.00	0.00
4,750.0	7.65	123.38	4,724.7	-212.9	323.2	-189.6	0.00	0.00	0.00
4,800.0	7.65	123.38	4,774.2	-216.6	328.8	-192.8	0.00	0.00	0.00
4,850.0	7.65	123.38	4,823.8	-220.3	334.3	-196.1	0.00	0.00	0.00
4,900.0	7.65	123.38	4,873.4	-223.9	339.9	-199.4	0.00	0.00	0.00
4,950.0	7.65	123.38	4,922.9	-227.6	345.5	-202.6	0.00	0.00	0.00
5,000.0	7.65	123.38	4,972.5	-231.2	351.0	-205.9	0.00	0.00	0.00
5,050.0	7.65	123.38	5,022.0	-234.9	356.6	-209.2	0.00	0.00	0.00
5,100.0	7.65	123.38	5,071.6	-238.6	362.1	-212.4	0.00	0.00	0.00
5,150.0	7.65	123.38	5,121.1	-242.2	367.7	-215.7	0.00	0.00	0.00
5,200.0	7.65	123.38	5,170.7	-245.9	373.2	-218.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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	7.65	123.38	5,220.2	-249.6	378.8	-222.2	0.00	0.00	0.00
5,300.0	7.65	123.38	5,269.8	-253.2	384.4	-225.5	0.00	0.00	0.00
5,350.0	7.65	123.38	5,319.3	-256.9	389.9	-228.7	0.00	0.00	0.00
5,400.0	7.65	123.38	5,368.9	-260.5	395.5	-232.0	0.00	0.00	0.00
5,450.0	7.65	123.38	5,418.5	-264.2	401.0	-235.2	0.00	0.00	0.00
5,500.0	7.65	123.38	5,468.0	-267.9	406.6	-238.5	0.00	0.00	0.00
5,550.0	7.65	123.38	5,517.6	-271.5	412.2	-241.8	0.00	0.00	0.00
5,600.0	7.65	123.38	5,567.1	-275.2	417.7	-245.0	0.00	0.00	0.00
5,650.0	7.65	123.38	5,616.7	-278.9	423.3	-248.3	0.00	0.00	0.00
5,700.0	7.65	123.38	5,666.2	-282.5	428.8	-251.5	0.00	0.00	0.00
5,750.0	7.65	123.38	5,715.8	-286.2	434.4	-254.8	0.00	0.00	0.00
5,800.0	7.65	123.38	5,765.3	-289.8	440.0	-258.1	0.00	0.00	0.00
5,850.0	7.65	123.38	5,814.9	-293.5	445.5	-261.3	0.00	0.00	0.00
5,900.0	7.65	123.38	5,864.4	-297.2	451.1	-264.6	0.00	0.00	0.00
5,950.0	7.65	123.38	5,914.0	-300.8	456.6	-267.8	0.00	0.00	0.00
6,000.0	7.65	123.38	5,963.6	-304.5	462.2	-271.1	0.00	0.00	0.00
6,050.0	7.65	123.38	6,013.1	-308.2	467.8	-274.4	0.00	0.00	0.00
6,100.0	7.65	123.38	6,062.7	-311.8	473.3	-277.6	0.00	0.00	0.00
6,150.0	7.65	123.38	6,112.2	-315.5	478.9	-280.9	0.00	0.00	0.00
6,200.0	7.65	123.38	6,161.8	-319.1	484.4	-284.2	0.00	0.00	0.00
6,250.0	7.65	123.38	6,211.3	-322.8	490.0	-287.4	0.00	0.00	0.00
6,300.0	7.65	123.38	6,260.9	-326.5	495.6	-290.7	0.00	0.00	0.00
6,350.0	7.65	123.38	6,310.4	-330.1	501.1	-293.9	0.00	0.00	0.00
6,400.0	7.65	123.38	6,360.0	-333.8	506.7	-297.2	0.00	0.00	0.00
6,450.0	7.65	123.38	6,409.6	-337.5	512.2	-300.5	0.00	0.00	0.00
6,500.0	7.65	123.38	6,459.1	-341.1	517.8	-303.7	0.00	0.00	0.00
6,550.0	7.65	123.38	6,508.7	-344.8	523.3	-307.0	0.00	0.00	0.00
6,600.0	7.65	123.38	6,558.2	-348.4	528.9	-310.2	0.00	0.00	0.00
6,650.0	7.65	123.38	6,607.8	-352.1	534.5	-313.5	0.00	0.00	0.00
6,700.0	7.65	123.38	6,657.3	-355.8	540.0	-316.8	0.00	0.00	0.00
6,750.0	7.65	123.38	6,706.9	-359.4	545.6	-320.0	0.00	0.00	0.00
6,800.0	7.65	123.38	6,756.4	-363.1	551.1	-323.3	0.00	0.00	0.00
6,850.0	7.65	123.38	6,806.0	-366.8	556.7	-326.5	0.00	0.00	0.00
6,900.0	7.65	123.38	6,855.5	-370.4	562.3	-329.8	0.00	0.00	0.00
6,950.0	7.65	123.38	6,905.1	-374.1	567.8	-333.1	0.00	0.00	0.00
7,000.0	7.65	123.38	6,954.7	-377.7	573.4	-336.3	0.00	0.00	0.00
7,050.0	7.65	123.38	7,004.2	-381.4	578.9	-339.6	0.00	0.00	0.00
7,100.0	7.65	123.38	7,053.8	-385.1	584.5	-342.8	0.00	0.00	0.00
7,150.0	7.65	123.38	7,103.3	-388.7	590.1	-346.1	0.00	0.00	0.00
7,200.0	7.65	123.38	7,152.9	-392.4	595.6	-349.4	0.00	0.00	0.00
7,250.0	7.65	123.38	7,202.4	-396.1	601.2	-352.6	0.00	0.00	0.00
7,300.0	7.65	123.38	7,252.0	-399.7	606.7	-355.9	0.00	0.00	0.00
7,350.0	7.65	123.38	7,301.5	-403.4	612.3	-359.2	0.00	0.00	0.00
7,400.0	7.65	123.38	7,351.1	-407.0	617.9	-362.4	0.00	0.00	0.00
7,450.0	7.65	123.38	7,400.6	-410.7	623.4	-365.7	0.00	0.00	0.00
7,500.0	7.65	123.38	7,450.2	-414.4	629.0	-368.9	0.00	0.00	0.00
7,550.0	7.65	123.38	7,499.8	-418.0	634.5	-372.2	0.00	0.00	0.00
7,600.0	7.65	123.38	7,549.3	-421.7	640.1	-375.5	0.00	0.00	0.00
7,650.0	7.65	123.38	7,598.9	-425.4	645.7	-378.7	0.00	0.00	0.00
7,700.0	7.65	123.38	7,648.4	-429.0	651.2	-382.0	0.00	0.00	0.00
7,750.0	7.65	123.38	7,698.0	-432.7	656.8	-385.2	0.00	0.00	0.00
7,800.0	7.65	123.38	7,747.5	-436.3	662.3	-388.5	0.00	0.00	0.00
7,850.0	7.65	123.38	7,797.1	-440.0	667.9	-391.8	0.00	0.00	0.00
7,900.0	7.65	123.38	7,846.6	-443.7	673.4	-395.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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	7.65	123.38	7,896.2	-447.3	679.0	-398.3	0.00	0.00	0.00
8,000.0	7.65	123.38	7,945.8	-451.0	684.6	-401.5	0.00	0.00	0.00
8,050.0	7.65	123.38	7,995.3	-454.7	690.1	-404.8	0.00	0.00	0.00
8,100.0	7.65	123.38	8,044.9	-458.3	695.7	-408.1	0.00	0.00	0.00
8,150.0	7.65	123.38	8,094.4	-462.0	701.2	-411.3	0.00	0.00	0.00
8,200.0	7.65	123.38	8,144.0	-465.6	706.8	-414.6	0.00	0.00	0.00
8,250.0	7.65	123.38	8,193.5	-469.3	712.4	-417.8	0.00	0.00	0.00
8,300.0	7.65	123.38	8,243.1	-473.0	717.9	-421.1	0.00	0.00	0.00
8,350.0	7.65	123.38	8,292.6	-476.6	723.5	-424.4	0.00	0.00	0.00
8,400.0	7.65	123.38	8,342.2	-480.3	729.0	-427.6	0.00	0.00	0.00
8,450.0	7.65	123.38	8,391.7	-484.0	734.6	-430.9	0.00	0.00	0.00
8,500.0	7.65	123.38	8,441.3	-487.6	740.2	-434.2	0.00	0.00	0.00
8,550.0	7.65	123.38	8,490.9	-491.3	745.7	-437.4	0.00	0.00	0.00
8,600.0	7.65	123.38	8,540.4	-494.9	751.3	-440.7	0.00	0.00	0.00
8,650.0	7.65	123.38	8,590.0	-498.6	756.8	-443.9	0.00	0.00	0.00
8,700.0	7.65	123.38	8,639.5	-502.3	762.4	-447.2	0.00	0.00	0.00
8,750.0	7.65	123.38	8,689.1	-505.9	768.0	-450.5	0.00	0.00	0.00
8,800.0	7.65	123.38	8,738.6	-509.6	773.5	-453.7	0.00	0.00	0.00
8,850.0	7.65	123.38	8,788.2	-513.3	779.1	-457.0	0.00	0.00	0.00
8,900.0	7.65	123.38	8,837.7	-516.9	784.6	-460.2	0.00	0.00	0.00
8,950.0	7.65	123.38	8,887.3	-520.6	790.2	-463.5	0.00	0.00	0.00
9,000.0	7.65	123.38	8,936.8	-524.2	795.8	-466.8	0.00	0.00	0.00
9,050.0	7.65	123.38	8,986.4	-527.9	801.3	-470.0	0.00	0.00	0.00
9,100.0	7.65	123.38	9,036.0	-531.6	806.9	-473.3	0.00	0.00	0.00
9,150.0	7.65	123.38	9,085.5	-535.2	812.4	-476.5	0.00	0.00	0.00
9,200.0	7.65	123.38	9,135.1	-538.9	818.0	-479.8	0.00	0.00	0.00
9,250.0	7.65	123.38	9,184.6	-542.6	823.5	-483.1	0.00	0.00	0.00
9,300.0	7.65	123.38	9,234.2	-546.2	829.1	-486.3	0.00	0.00	0.00
9,350.0	7.65	123.38	9,283.7	-549.9	834.7	-489.6	0.00	0.00	0.00
9,400.0	7.65	123.38	9,333.3	-553.5	840.2	-492.8	0.00	0.00	0.00
9,450.0	7.65	123.38	9,382.8	-557.2	845.8	-496.1	0.00	0.00	0.00
9,500.0	7.65	123.38	9,432.4	-560.9	851.3	-499.4	0.00	0.00	0.00
9,550.0	7.65	123.38	9,482.0	-564.5	856.9	-502.6	0.00	0.00	0.00
9,600.0	7.65	123.38	9,531.5	-568.2	862.5	-505.9	0.00	0.00	0.00
9,650.0	7.65	123.38	9,581.1	-571.9	868.0	-509.2	0.00	0.00	0.00
9,700.0	7.65	123.38	9,630.6	-575.5	873.6	-512.4	0.00	0.00	0.00
9,750.0	7.65	123.38	9,680.2	-579.2	879.1	-515.7	0.00	0.00	0.00
9,800.0	7.65	123.38	9,729.7	-582.8	884.7	-518.9	0.00	0.00	0.00
9,850.0	7.65	123.38	9,779.3	-586.5	890.3	-522.2	0.00	0.00	0.00
9,900.0	7.65	123.38	9,828.8	-590.2	895.8	-525.5	0.00	0.00	0.00
9,950.0	7.65	123.38	9,878.4	-593.8	901.4	-528.7	0.00	0.00	0.00
10,000.0	7.65	123.38	9,927.9	-597.5	906.9	-532.0	0.00	0.00	0.00
10,050.0	7.65	123.38	9,977.5	-601.2	912.5	-535.2	0.00	0.00	0.00
10,100.0	7.65	123.38	10,027.1	-604.8	918.1	-538.5	0.00	0.00	0.00
10,150.0	7.65	123.38	10,076.6	-608.5	923.6	-541.8	0.00	0.00	0.00
10,200.0	7.65	123.38	10,126.2	-612.1	929.2	-545.0	0.00	0.00	0.00
10,250.0	7.65	123.38	10,175.7	-615.8	934.7	-548.3	0.00	0.00	0.00
10,300.0	7.65	123.38	10,225.3	-619.5	940.3	-551.5	0.00	0.00	0.00
10,350.0	7.65	123.38	10,274.8	-623.1	945.9	-554.8	0.00	0.00	0.00
10,400.0	7.65	123.38	10,324.4	-626.8	951.4	-558.1	0.00	0.00	0.00
10,450.0	7.65	123.38	10,373.9	-630.5	957.0	-561.3	0.00	0.00	0.00
10,500.0	7.65	123.38	10,423.5	-634.1	962.5	-564.6	0.00	0.00	0.00
10,550.0	7.65	123.38	10,473.0	-637.8	968.1	-567.9	0.00	0.00	0.00
10,579.8	7.65	123.38	10,502.6	-640.0	971.4	-569.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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)
10,600.0	7.25	123.38	10,522.6	-641.4	973.6	-571.1	2.00	-2.00	0.00
10,650.0	6.25	123.38	10,572.3	-644.6	978.5	-574.0	2.00	-2.00	0.00
10,700.0	5.25	123.38	10,622.0	-647.4	982.7	-576.4	2.00	-2.00	0.00
10,750.0	4.25	123.38	10,671.8	-649.7	986.1	-578.4	2.00	-2.00	0.00
10,800.0	3.25	123.38	10,721.7	-651.5	988.9	-580.0	2.00	-2.00	0.00
10,850.0	2.25	123.38	10,771.7	-652.8	990.9	-581.2	2.00	-2.00	0.00
10,900.0	1.25	123.38	10,821.7	-653.6	992.1	-582.0	2.00	-2.00	0.00
10,950.0	0.25	123.38	10,871.6	-654.0	992.7	-582.3	2.00	-2.00	0.00
10,962.4	0.00	0.00	10,884.0	-654.0	992.7	-582.3	2.00	-2.00	0.00
KOP: 2168' FSL & 2310' FWL (Sec 36)									
11,000.0	3.76	359.70	10,921.6	-652.8	992.7	-581.1	10.00	10.00	0.00
11,050.0	8.76	359.70	10,971.3	-647.3	992.7	-575.6	10.00	10.00	0.00
11,100.0	13.76	359.70	11,020.3	-637.5	992.6	-565.9	10.00	10.00	0.00
11,150.0	18.76	359.70	11,068.3	-623.6	992.5	-551.9	10.00	10.00	0.00
11,200.0	23.76	359.70	11,114.9	-605.4	992.4	-533.9	10.00	10.00	0.00
11,250.0	28.76	359.70	11,159.7	-583.3	992.3	-511.8	10.00	10.00	0.00
11,300.0	33.76	359.70	11,202.4	-557.4	992.2	-485.9	10.00	10.00	0.00
11,350.0	38.76	359.70	11,242.7	-527.8	992.0	-456.5	10.00	10.00	0.00
11,400.0	43.76	359.70	11,280.3	-494.8	991.9	-423.6	10.00	10.00	0.00
11,450.0	48.76	359.70	11,314.9	-458.7	991.7	-387.6	10.00	10.00	0.00
11,500.0	53.76	359.70	11,346.2	-419.7	991.5	-348.7	10.00	10.00	0.00
11,550.0	58.76	359.70	11,373.9	-378.2	991.3	-307.3	10.00	10.00	0.00
11,600.0	63.76	359.70	11,398.0	-334.4	991.0	-263.6	10.00	10.00	0.00
11,650.0	68.76	359.70	11,418.1	-288.6	990.8	-217.9	10.00	10.00	0.00
11,700.0	73.76	359.70	11,434.2	-241.3	990.5	-170.7	10.00	10.00	0.00
11,750.0	78.75	359.70	11,446.0	-192.7	990.3	-122.3	10.00	10.00	0.00
11,800.0	83.75	359.70	11,453.6	-143.3	990.0	-73.1	10.00	10.00	0.00
11,850.0	88.75	359.70	11,456.9	-93.4	989.8	-23.3	10.00	10.00	0.00
11,862.3	89.99	359.70	11,457.0	-81.1	989.7	-11.0	10.00	10.00	0.00
FTP/LP: 2541' FNL & 2310' FWL (Sec 36)									
11,868.2	90.57	359.70	11,457.0	-75.3	989.7	-5.2	10.00	10.00	0.00
11,900.0	90.57	359.70	11,456.7	-43.4	989.5	26.5	0.00	0.00	0.00
11,950.0	90.57	359.70	11,456.2	6.6	989.2	76.4	0.00	0.00	0.00
12,000.0	90.57	359.70	11,455.7	56.5	989.0	126.2	0.00	0.00	0.00
12,050.0	90.57	359.70	11,455.2	106.5	988.7	176.1	0.00	0.00	0.00
12,100.0	90.57	359.70	11,454.7	156.5	988.4	225.9	0.00	0.00	0.00
12,150.0	90.57	359.70	11,454.2	206.5	988.2	275.8	0.00	0.00	0.00
12,200.0	90.57	359.70	11,453.7	256.5	987.9	325.6	0.00	0.00	0.00
12,250.0	90.57	359.70	11,453.2	306.5	987.7	375.5	0.00	0.00	0.00
12,300.0	90.57	359.70	11,452.7	356.5	987.4	425.3	0.00	0.00	0.00
12,350.0	90.57	359.70	11,452.2	406.5	987.1	475.2	0.00	0.00	0.00
12,400.0	90.57	359.70	11,451.7	456.5	986.9	525.1	0.00	0.00	0.00
12,450.0	90.57	359.70	11,451.2	506.5	986.6	574.9	0.00	0.00	0.00
12,500.0	90.57	359.70	11,450.7	556.5	986.3	624.8	0.00	0.00	0.00
12,550.0	90.57	359.70	11,450.2	606.5	986.1	674.6	0.00	0.00	0.00
12,600.0	90.57	359.70	11,449.7	656.5	985.8	724.5	0.00	0.00	0.00
12,650.0	90.57	359.70	11,449.2	706.5	985.6	774.3	0.00	0.00	0.00
12,700.0	90.57	359.70	11,448.7	756.5	985.3	824.2	0.00	0.00	0.00
12,750.0	90.57	359.70	11,448.2	806.5	985.0	874.0	0.00	0.00	0.00
12,800.0	90.57	359.70	11,447.7	856.5	984.8	923.9	0.00	0.00	0.00
12,850.0	90.57	359.70	11,447.2	906.5	984.5	973.7	0.00	0.00	0.00
12,900.0	90.57	359.70	11,446.8	956.5	984.3	1,023.6	0.00	0.00	0.00
12,950.0	90.57	359.70	11,446.3	1,006.5	984.0	1,073.4	0.00	0.00	0.00
13,000.0	90.57	359.70	11,445.8	1,056.5	983.7	1,123.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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)
13,050.0	90.57	359.70	11,445.3	1,106.5	983.5	1,173.1	0.00	0.00	0.00
13,100.0	90.57	359.70	11,444.8	1,156.5	983.2	1,223.0	0.00	0.00	0.00
13,150.0	90.57	359.70	11,444.3	1,206.5	982.9	1,272.9	0.00	0.00	0.00
13,200.0	90.57	359.70	11,443.8	1,256.5	982.7	1,322.7	0.00	0.00	0.00
13,250.0	90.57	359.70	11,443.3	1,306.5	982.4	1,372.6	0.00	0.00	0.00
13,300.0	90.57	359.70	11,442.8	1,356.5	982.2	1,422.4	0.00	0.00	0.00
13,350.0	90.57	359.70	11,442.3	1,406.5	981.9	1,472.3	0.00	0.00	0.00
13,400.0	90.57	359.70	11,441.8	1,456.5	981.6	1,522.1	0.00	0.00	0.00
13,450.0	90.57	359.70	11,441.3	1,506.5	981.4	1,572.0	0.00	0.00	0.00
13,500.0	90.57	359.70	11,440.8	1,556.5	981.1	1,621.8	0.00	0.00	0.00
13,550.0	90.57	359.70	11,440.3	1,606.4	980.8	1,671.7	0.00	0.00	0.00
13,600.0	90.57	359.70	11,439.8	1,656.4	980.6	1,721.5	0.00	0.00	0.00
13,650.0	90.57	359.70	11,439.3	1,706.4	980.3	1,771.4	0.00	0.00	0.00
13,700.0	90.57	359.70	11,438.8	1,756.4	980.1	1,821.2	0.00	0.00	0.00
13,750.0	90.57	359.70	11,438.3	1,806.4	979.8	1,871.1	0.00	0.00	0.00
13,800.0	90.57	359.70	11,437.8	1,856.4	979.5	1,921.0	0.00	0.00	0.00
13,850.0	90.57	359.70	11,437.3	1,906.4	979.3	1,970.8	0.00	0.00	0.00
13,900.0	90.57	359.70	11,436.8	1,956.4	979.0	2,020.7	0.00	0.00	0.00
13,950.0	90.57	359.70	11,436.3	2,006.4	978.7	2,070.5	0.00	0.00	0.00
14,000.0	90.57	359.70	11,435.8	2,056.4	978.5	2,120.4	0.00	0.00	0.00
14,050.0	90.57	359.70	11,435.3	2,106.4	978.2	2,170.2	0.00	0.00	0.00
14,100.0	90.57	359.70	11,434.8	2,156.4	978.0	2,220.1	0.00	0.00	0.00
14,150.0	90.57	359.70	11,434.3	2,206.4	977.7	2,269.9	0.00	0.00	0.00
14,200.0	90.57	359.70	11,433.8	2,256.4	977.4	2,319.8	0.00	0.00	0.00
14,250.0	90.57	359.70	11,433.3	2,306.4	977.2	2,369.6	0.00	0.00	0.00
14,300.0	90.57	359.70	11,432.8	2,356.4	976.9	2,419.5	0.00	0.00	0.00
14,350.0	90.57	359.70	11,432.4	2,406.4	976.6	2,469.3	0.00	0.00	0.00
14,400.0	90.57	359.70	11,431.9	2,456.4	976.4	2,519.2	0.00	0.00	0.00
14,403.0	90.57	359.70	11,431.8	2,459.4	976.4	2,522.2	0.00	0.00	0.00
PPP2: 0' FSL & 2308' FWL (Sec 25)									
14,450.0	90.57	359.70	11,431.4	2,506.4	976.1	2,569.1	0.00	0.00	0.00
14,500.0	90.57	359.70	11,430.9	2,556.4	975.9	2,618.9	0.00	0.00	0.00
14,550.0	90.57	359.70	11,430.4	2,606.4	975.6	2,668.8	0.00	0.00	0.00
14,600.0	90.57	359.70	11,429.9	2,656.4	975.3	2,718.6	0.00	0.00	0.00
14,650.0	90.57	359.70	11,429.4	2,706.4	975.1	2,768.5	0.00	0.00	0.00
14,700.0	90.57	359.70	11,428.9	2,756.4	974.8	2,818.3	0.00	0.00	0.00
14,750.0	90.57	359.70	11,428.4	2,806.4	974.5	2,868.2	0.00	0.00	0.00
14,800.0	90.57	359.70	11,427.9	2,856.4	974.3	2,918.0	0.00	0.00	0.00
14,850.0	90.57	359.70	11,427.4	2,906.4	974.0	2,967.9	0.00	0.00	0.00
14,900.0	90.57	359.70	11,426.9	2,956.4	973.8	3,017.7	0.00	0.00	0.00
14,950.0	90.57	359.70	11,426.4	3,006.4	973.5	3,067.6	0.00	0.00	0.00
15,000.0	90.57	359.70	11,425.9	3,056.4	973.2	3,117.4	0.00	0.00	0.00
15,050.0	90.57	359.70	11,425.4	3,106.4	973.0	3,167.3	0.00	0.00	0.00
15,100.0	90.57	359.70	11,424.9	3,156.4	972.7	3,217.1	0.00	0.00	0.00
15,150.0	90.57	359.70	11,424.4	3,206.3	972.4	3,267.0	0.00	0.00	0.00
15,200.0	90.57	359.70	11,423.9	3,256.3	972.2	3,316.9	0.00	0.00	0.00
15,250.0	90.57	359.70	11,423.4	3,306.3	971.9	3,366.7	0.00	0.00	0.00
15,300.0	90.57	359.70	11,422.9	3,356.3	971.7	3,416.6	0.00	0.00	0.00
15,350.0	90.57	359.70	11,422.4	3,406.3	971.4	3,466.4	0.00	0.00	0.00
15,400.0	90.57	359.70	11,421.9	3,456.3	971.1	3,516.3	0.00	0.00	0.00
15,450.0	90.57	359.70	11,421.4	3,506.3	970.9	3,566.1	0.00	0.00	0.00
15,500.0	90.57	359.70	11,420.9	3,556.3	970.6	3,616.0	0.00	0.00	0.00
15,550.0	90.57	359.70	11,420.4	3,606.3	970.3	3,665.8	0.00	0.00	0.00
15,600.0	90.57	359.70	11,419.9	3,656.3	970.1	3,715.7	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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)
15,650.0	90.57	359.70	11,419.4	3,706.3	969.8	3,765.5	0.00	0.00	0.00
15,700.0	90.57	359.70	11,418.9	3,756.3	969.6	3,815.4	0.00	0.00	0.00
15,750.0	90.57	359.70	11,418.4	3,806.3	969.3	3,865.2	0.00	0.00	0.00
15,800.0	90.57	359.70	11,417.9	3,856.3	969.0	3,915.1	0.00	0.00	0.00
15,850.0	90.57	359.70	11,417.5	3,906.3	968.8	3,965.0	0.00	0.00	0.00
15,900.0	90.57	359.70	11,417.0	3,956.3	968.5	4,014.8	0.00	0.00	0.00
15,950.0	90.57	359.70	11,416.5	4,006.3	968.3	4,064.7	0.00	0.00	0.00
16,000.0	90.57	359.70	11,416.0	4,056.3	968.0	4,114.5	0.00	0.00	0.00
16,050.0	90.57	359.70	11,415.5	4,106.3	967.7	4,164.4	0.00	0.00	0.00
16,100.0	90.57	359.70	11,415.0	4,156.3	967.5	4,214.2	0.00	0.00	0.00
16,150.0	90.57	359.70	11,414.5	4,206.3	967.2	4,264.1	0.00	0.00	0.00
16,200.0	90.57	359.70	11,414.0	4,256.3	966.9	4,313.9	0.00	0.00	0.00
16,250.0	90.57	359.70	11,413.5	4,306.3	966.7	4,363.8	0.00	0.00	0.00
16,300.0	90.57	359.70	11,413.0	4,356.3	966.4	4,413.6	0.00	0.00	0.00
16,350.0	90.57	359.70	11,412.5	4,406.3	966.2	4,463.5	0.00	0.00	0.00
16,400.0	90.57	359.70	11,412.0	4,456.3	965.9	4,513.3	0.00	0.00	0.00
16,450.0	90.57	359.70	11,411.5	4,506.3	965.6	4,563.2	0.00	0.00	0.00
16,500.0	90.57	359.70	11,411.0	4,556.3	965.4	4,613.0	0.00	0.00	0.00
16,550.0	90.57	359.70	11,410.5	4,606.3	965.1	4,662.9	0.00	0.00	0.00
16,600.0	90.57	359.70	11,410.0	4,656.3	964.8	4,712.8	0.00	0.00	0.00
16,650.0	90.57	359.70	11,409.5	4,706.3	964.6	4,762.6	0.00	0.00	0.00
16,700.0	90.57	359.70	11,409.0	4,756.3	964.3	4,812.5	0.00	0.00	0.00
16,750.0	90.57	359.70	11,408.5	4,806.2	964.1	4,862.3	0.00	0.00	0.00
16,800.0	90.57	359.70	11,408.0	4,856.2	963.8	4,912.2	0.00	0.00	0.00
16,850.0	90.57	359.70	11,407.5	4,906.2	963.5	4,962.0	0.00	0.00	0.00
16,900.0	90.57	359.70	11,407.0	4,956.2	963.3	5,011.9	0.00	0.00	0.00
16,950.0	90.57	359.70	11,406.5	5,006.2	963.0	5,061.7	0.00	0.00	0.00
17,000.0	90.57	359.70	11,406.0	5,056.2	962.7	5,111.6	0.00	0.00	0.00
17,050.0	90.57	359.70	11,405.5	5,106.2	962.5	5,161.4	0.00	0.00	0.00
17,100.0	90.57	359.70	11,405.0	5,156.2	962.2	5,211.3	0.00	0.00	0.00
17,150.0	90.57	359.70	11,404.5	5,206.2	962.0	5,261.1	0.00	0.00	0.00
17,200.0	90.57	359.70	11,404.0	5,256.2	961.7	5,311.0	0.00	0.00	0.00
17,250.0	90.57	359.70	11,403.5	5,306.2	961.4	5,360.9	0.00	0.00	0.00
17,300.0	90.57	359.70	11,403.1	5,356.2	961.2	5,410.7	0.00	0.00	0.00
17,350.0	90.57	359.70	11,402.6	5,406.2	960.9	5,460.6	0.00	0.00	0.00
17,400.0	90.57	359.70	11,402.1	5,456.2	960.6	5,510.4	0.00	0.00	0.00
17,450.0	90.57	359.70	11,401.6	5,506.2	960.4	5,560.3	0.00	0.00	0.00
17,500.0	90.57	359.70	11,401.1	5,556.2	960.1	5,610.1	0.00	0.00	0.00
17,550.0	90.57	359.70	11,400.6	5,606.2	959.9	5,660.0	0.00	0.00	0.00
17,600.0	90.57	359.70	11,400.1	5,656.2	959.6	5,709.8	0.00	0.00	0.00
17,650.0	90.57	359.70	11,399.6	5,706.2	959.3	5,759.7	0.00	0.00	0.00
17,700.0	90.57	359.70	11,399.1	5,756.2	959.1	5,809.5	0.00	0.00	0.00
17,750.0	90.57	359.70	11,398.6	5,806.2	958.8	5,859.4	0.00	0.00	0.00
17,800.0	90.57	359.70	11,398.1	5,856.2	958.5	5,909.2	0.00	0.00	0.00
17,850.0	90.57	359.70	11,397.6	5,906.2	958.3	5,959.1	0.00	0.00	0.00
17,900.0	90.57	359.70	11,397.1	5,956.2	958.0	6,008.9	0.00	0.00	0.00
17,950.0	90.57	359.70	11,396.6	6,006.2	957.8	6,058.8	0.00	0.00	0.00
18,000.0	90.57	359.70	11,396.1	6,056.2	957.5	6,108.7	0.00	0.00	0.00
18,050.0	90.57	359.70	11,395.6	6,106.2	957.2	6,158.5	0.00	0.00	0.00
18,100.0	90.57	359.70	11,395.1	6,156.2	957.0	6,208.4	0.00	0.00	0.00
18,150.0	90.57	359.70	11,394.6	6,206.2	956.7	6,258.2	0.00	0.00	0.00
18,200.0	90.57	359.70	11,394.1	6,256.2	956.4	6,308.1	0.00	0.00	0.00
18,250.0	90.57	359.70	11,393.6	6,306.2	956.2	6,357.9	0.00	0.00	0.00
18,300.0	90.57	359.70	11,393.1	6,356.1	955.9	6,407.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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)
18,350.0	90.57	359.70	11,392.6	6,406.1	955.7	6,457.6	0.00	0.00	0.00
18,400.0	90.57	359.70	11,392.1	6,456.1	955.4	6,507.5	0.00	0.00	0.00
18,450.0	90.57	359.70	11,391.6	6,506.1	955.1	6,557.3	0.00	0.00	0.00
18,500.0	90.57	359.70	11,391.1	6,556.1	954.9	6,607.2	0.00	0.00	0.00
18,550.0	90.57	359.70	11,390.6	6,606.1	954.6	6,657.0	0.00	0.00	0.00
18,600.0	90.57	359.70	11,390.1	6,656.1	954.4	6,706.9	0.00	0.00	0.00
18,650.0	90.57	359.70	11,389.6	6,706.1	954.1	6,756.8	0.00	0.00	0.00
18,700.0	90.57	359.70	11,389.1	6,756.1	953.8	6,806.6	0.00	0.00	0.00
18,750.0	90.57	359.70	11,388.7	6,806.1	953.6	6,856.5	0.00	0.00	0.00
18,800.0	90.57	359.70	11,388.2	6,856.1	953.3	6,906.3	0.00	0.00	0.00
18,850.0	90.57	359.70	11,387.7	6,906.1	953.0	6,956.2	0.00	0.00	0.00
18,900.0	90.57	359.70	11,387.2	6,956.1	952.8	7,006.0	0.00	0.00	0.00
18,950.0	90.57	359.70	11,386.7	7,006.1	952.5	7,055.9	0.00	0.00	0.00
19,000.0	90.57	359.70	11,386.2	7,056.1	952.3	7,105.7	0.00	0.00	0.00
19,050.0	90.57	359.70	11,385.7	7,106.1	952.0	7,155.6	0.00	0.00	0.00
19,100.0	90.57	359.70	11,385.2	7,156.1	951.7	7,205.4	0.00	0.00	0.00
19,150.0	90.57	359.70	11,384.7	7,206.1	951.5	7,255.3	0.00	0.00	0.00
19,200.0	90.57	359.70	11,384.2	7,256.1	951.2	7,305.1	0.00	0.00	0.00
19,250.0	90.57	359.70	11,383.7	7,306.1	950.9	7,355.0	0.00	0.00	0.00
19,300.0	90.57	359.70	11,383.2	7,356.1	950.7	7,404.8	0.00	0.00	0.00
19,350.0	90.57	359.70	11,382.7	7,406.1	950.4	7,454.7	0.00	0.00	0.00
19,400.0	90.57	359.70	11,382.2	7,456.1	950.2	7,504.6	0.00	0.00	0.00
19,450.0	90.57	359.70	11,381.7	7,506.1	949.9	7,554.4	0.00	0.00	0.00
19,500.0	90.57	359.70	11,381.2	7,556.1	949.6	7,604.3	0.00	0.00	0.00
19,550.0	90.57	359.70	11,380.7	7,606.1	949.4	7,654.1	0.00	0.00	0.00
19,600.0	90.57	359.70	11,380.2	7,656.1	949.1	7,704.0	0.00	0.00	0.00
19,650.0	90.57	359.70	11,379.7	7,706.1	948.8	7,753.8	0.00	0.00	0.00
19,700.0	90.57	359.70	11,379.2	7,756.1	948.6	7,803.7	0.00	0.00	0.00
19,750.0	90.57	359.70	11,378.7	7,806.1	948.3	7,853.5	0.00	0.00	0.00
19,800.0	90.57	359.70	11,378.2	7,856.1	948.1	7,903.4	0.00	0.00	0.00
19,850.0	90.57	359.70	11,377.7	7,906.1	947.8	7,953.2	0.00	0.00	0.00
19,900.0	90.57	359.70	11,377.2	7,956.0	947.5	8,003.1	0.00	0.00	0.00
19,950.0	90.57	359.70	11,376.7	8,006.0	947.3	8,052.9	0.00	0.00	0.00
20,000.0	90.57	359.70	11,376.2	8,056.0	947.0	8,102.8	0.00	0.00	0.00
20,050.0	90.57	359.70	11,375.7	8,106.0	946.7	8,152.7	0.00	0.00	0.00
20,100.0	90.57	359.70	11,375.2	8,156.0	946.5	8,202.5	0.00	0.00	0.00
20,150.0	90.57	359.70	11,374.7	8,206.0	946.2	8,252.4	0.00	0.00	0.00
20,200.0	90.57	359.70	11,374.3	8,256.0	946.0	8,302.2	0.00	0.00	0.00
20,250.0	90.57	359.70	11,373.8	8,306.0	945.7	8,352.1	0.00	0.00	0.00
20,300.0	90.57	359.70	11,373.3	8,356.0	945.4	8,401.9	0.00	0.00	0.00
20,350.0	90.57	359.70	11,372.8	8,406.0	945.2	8,451.8	0.00	0.00	0.00
20,400.0	90.57	359.70	11,372.3	8,456.0	944.9	8,501.6	0.00	0.00	0.00
20,450.0	90.57	359.70	11,371.8	8,506.0	944.6	8,551.5	0.00	0.00	0.00
20,500.0	90.57	359.70	11,371.3	8,556.0	944.4	8,601.3	0.00	0.00	0.00
20,550.0	90.57	359.70	11,370.8	8,606.0	944.1	8,651.2	0.00	0.00	0.00
20,600.0	90.57	359.70	11,370.3	8,656.0	943.9	8,701.0	0.00	0.00	0.00
20,650.0	90.57	359.70	11,369.8	8,706.0	943.6	8,750.9	0.00	0.00	0.00
20,700.0	90.57	359.70	11,369.3	8,756.0	943.3	8,800.7	0.00	0.00	0.00
20,750.0	90.57	359.70	11,368.8	8,806.0	943.1	8,850.6	0.00	0.00	0.00
20,800.0	90.57	359.70	11,368.3	8,856.0	942.8	8,900.5	0.00	0.00	0.00
20,850.0	90.57	359.70	11,367.8	8,906.0	942.5	8,950.3	0.00	0.00	0.00
20,900.0	90.57	359.70	11,367.3	8,956.0	942.3	9,000.2	0.00	0.00	0.00
20,950.0	90.57	359.70	11,366.8	9,006.0	942.0	9,050.0	0.00	0.00	0.00
21,000.0	90.57	359.70	11,366.3	9,056.0	941.8	9,099.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' 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)
21,050.0	90.57	359.70	11,365.8	9,106.0	941.5	9,149.7	0.00	0.00	0.00
21,100.0	90.57	359.70	11,365.3	9,156.0	941.2	9,199.6	0.00	0.00	0.00
21,150.0	90.57	359.70	11,364.8	9,206.0	941.0	9,249.4	0.00	0.00	0.00
21,200.0	90.57	359.70	11,364.3	9,256.0	940.7	9,299.3	0.00	0.00	0.00
21,250.0	90.57	359.70	11,363.8	9,306.0	940.4	9,349.1	0.00	0.00	0.00
21,300.0	90.57	359.70	11,363.3	9,356.0	940.2	9,399.0	0.00	0.00	0.00
21,350.0	90.57	359.70	11,362.8	9,406.0	939.9	9,448.8	0.00	0.00	0.00
21,400.0	90.57	359.70	11,362.3	9,456.0	939.7	9,498.7	0.00	0.00	0.00
21,450.0	90.57	359.70	11,361.8	9,506.0	939.4	9,548.6	0.00	0.00	0.00
21,500.0	90.57	359.70	11,361.3	9,555.9	939.1	9,598.4	0.00	0.00	0.00
21,550.0	90.57	359.70	11,360.8	9,605.9	938.9	9,648.3	0.00	0.00	0.00
21,600.0	90.57	359.70	11,360.3	9,655.9	938.6	9,698.1	0.00	0.00	0.00
21,650.0	90.57	359.70	11,359.8	9,705.9	938.4	9,748.0	0.00	0.00	0.00
21,700.0	90.57	359.70	11,359.4	9,755.9	938.1	9,797.8	0.00	0.00	0.00
21,750.0	90.57	359.70	11,358.9	9,805.9	937.8	9,847.7	0.00	0.00	0.00
21,800.0	90.57	359.70	11,358.4	9,855.9	937.6	9,897.5	0.00	0.00	0.00
21,850.0	90.57	359.70	11,357.9	9,905.9	937.3	9,947.4	0.00	0.00	0.00
21,900.0	90.57	359.70	11,357.4	9,955.9	937.0	9,997.2	0.00	0.00	0.00
21,950.0	90.57	359.70	11,356.9	10,005.9	936.8	10,047.1	0.00	0.00	0.00
22,000.0	90.57	359.70	11,356.4	10,055.9	936.5	10,096.9	0.00	0.00	0.00
22,050.0	90.57	359.70	11,355.9	10,105.9	936.3	10,146.8	0.00	0.00	0.00
22,100.0	90.57	359.70	11,355.4	10,155.9	936.0	10,196.6	0.00	0.00	0.00
22,150.0	90.57	359.70	11,354.9	10,205.9	935.7	10,246.5	0.00	0.00	0.00
22,200.0	90.57	359.70	11,354.4	10,255.9	935.5	10,296.4	0.00	0.00	0.00
22,250.0	90.57	359.70	11,353.9	10,305.9	935.2	10,346.2	0.00	0.00	0.00
22,300.0	90.57	359.70	11,353.4	10,355.9	934.9	10,396.1	0.00	0.00	0.00
22,326.4	90.57	359.70	11,353.1	10,382.3	934.8	10,422.4	0.00	0.00	0.00
PPP3: 2642' FNL & 2306' FWL (Sec 24)									
22,350.0	90.57	359.70	11,352.9	10,405.9	934.7	10,445.9	0.00	0.00	0.00
22,400.0	90.57	359.70	11,352.4	10,455.9	934.4	10,495.8	0.00	0.00	0.00
22,450.0	90.57	359.70	11,351.9	10,505.9	934.2	10,545.6	0.00	0.00	0.00
22,500.0	90.57	359.70	11,351.4	10,555.9	933.9	10,595.5	0.00	0.00	0.00
22,550.0	90.57	359.70	11,350.9	10,605.9	933.6	10,645.3	0.00	0.00	0.00
22,600.0	90.57	359.70	11,350.4	10,655.9	933.4	10,695.2	0.00	0.00	0.00
22,650.0	90.57	359.70	11,349.9	10,705.9	933.1	10,745.0	0.00	0.00	0.00
22,700.0	90.57	359.70	11,349.4	10,755.9	932.8	10,794.9	0.00	0.00	0.00
22,750.0	90.57	359.70	11,348.9	10,805.9	932.6	10,844.7	0.00	0.00	0.00
22,800.0	90.57	359.70	11,348.4	10,855.9	932.3	10,894.6	0.00	0.00	0.00
22,850.0	90.57	359.70	11,347.9	10,905.9	932.1	10,944.5	0.00	0.00	0.00
22,900.0	90.57	359.70	11,347.4	10,955.9	931.8	10,994.3	0.00	0.00	0.00
22,950.0	90.57	359.70	11,346.9	11,005.9	931.5	11,044.2	0.00	0.00	0.00
23,000.0	90.57	359.70	11,346.4	11,055.9	931.3	11,094.0	0.00	0.00	0.00
23,050.0	90.57	359.70	11,345.9	11,105.8	931.0	11,143.9	0.00	0.00	0.00
23,100.0	90.57	359.70	11,345.4	11,155.8	930.7	11,193.7	0.00	0.00	0.00
23,150.0	90.57	359.70	11,345.0	11,205.8	930.5	11,243.6	0.00	0.00	0.00
23,200.0	90.57	359.70	11,344.5	11,255.8	930.2	11,293.4	0.00	0.00	0.00
23,250.0	90.57	359.70	11,344.0	11,305.8	930.0	11,343.3	0.00	0.00	0.00
23,300.0	90.57	359.70	11,343.5	11,355.8	929.7	11,393.1	0.00	0.00	0.00
23,350.0	90.57	359.70	11,343.0	11,405.8	929.4	11,443.0	0.00	0.00	0.00
23,400.0	90.57	359.70	11,342.5	11,455.8	929.2	11,492.8	0.00	0.00	0.00
23,450.0	90.57	359.70	11,342.0	11,505.8	928.9	11,542.7	0.00	0.00	0.00
23,500.0	90.57	359.70	11,341.5	11,555.8	928.6	11,592.5	0.00	0.00	0.00
23,550.0	90.57	359.70	11,341.0	11,605.8	928.4	11,642.4	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' FWL (Sec 24)		
Design:	Design #1		

Planned Survey

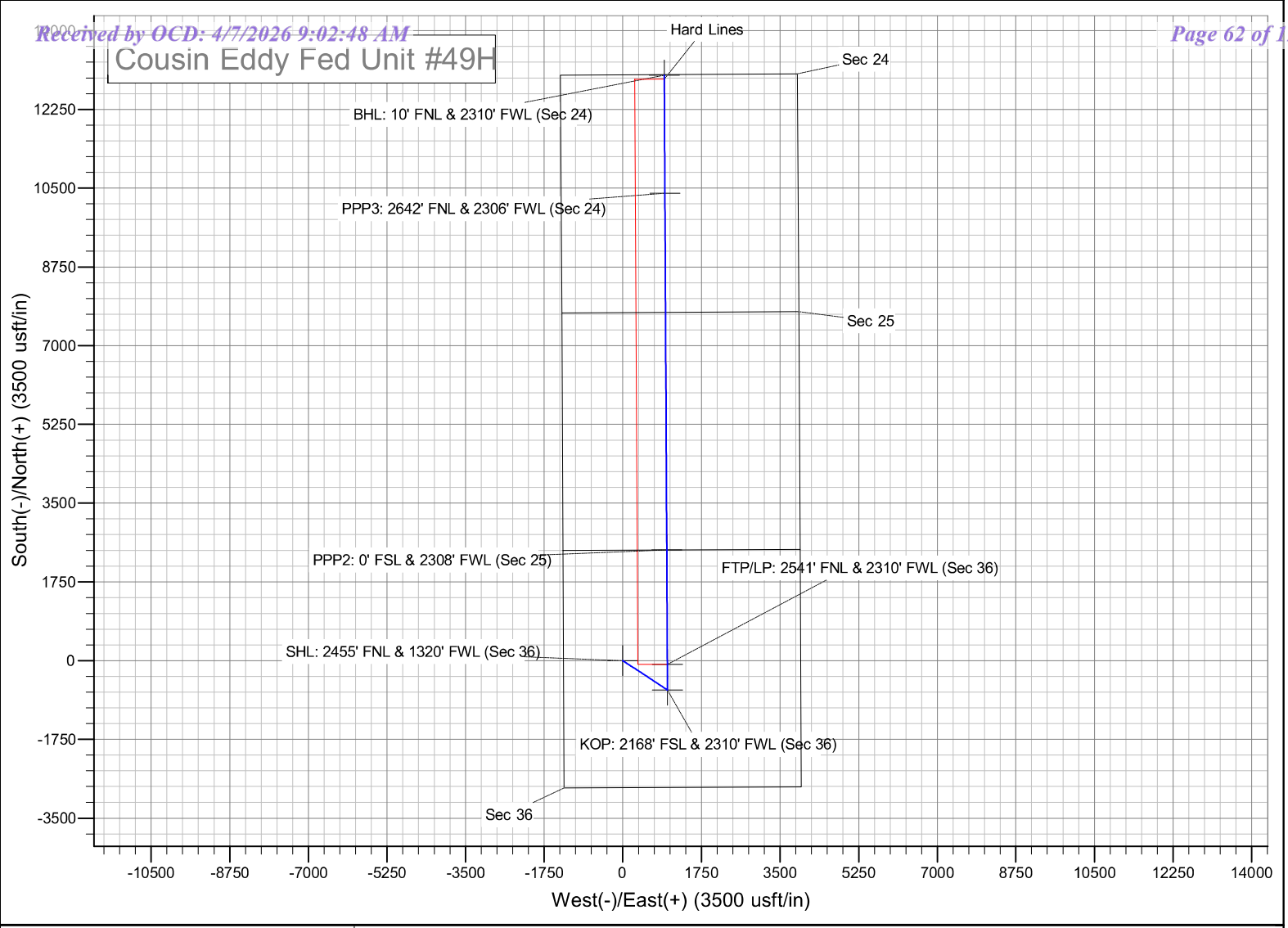
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
23,600.0	90.57	359.70	11,340.5	11,655.8	928.1	11,692.3	0.00	0.00	0.00
23,650.0	90.57	359.70	11,340.0	11,705.8	927.9	11,742.1	0.00	0.00	0.00
23,700.0	90.57	359.70	11,339.5	11,755.8	927.6	11,792.0	0.00	0.00	0.00
23,750.0	90.57	359.70	11,339.0	11,805.8	927.3	11,841.8	0.00	0.00	0.00
23,800.0	90.57	359.70	11,338.5	11,855.8	927.1	11,891.7	0.00	0.00	0.00
23,850.0	90.57	359.70	11,338.0	11,905.8	926.8	11,941.5	0.00	0.00	0.00
23,900.0	90.57	359.70	11,337.5	11,955.8	926.5	11,991.4	0.00	0.00	0.00
23,950.0	90.57	359.70	11,337.0	12,005.8	926.3	12,041.2	0.00	0.00	0.00
24,000.0	90.57	359.70	11,336.5	12,055.8	926.0	12,091.1	0.00	0.00	0.00
24,050.0	90.57	359.70	11,336.0	12,105.8	925.8	12,140.9	0.00	0.00	0.00
24,100.0	90.57	359.70	11,335.5	12,155.8	925.5	12,190.8	0.00	0.00	0.00
24,150.0	90.57	359.70	11,335.0	12,205.8	925.2	12,240.6	0.00	0.00	0.00
24,200.0	90.57	359.70	11,334.5	12,255.8	925.0	12,290.5	0.00	0.00	0.00
24,250.0	90.57	359.70	11,334.0	12,305.8	924.7	12,340.4	0.00	0.00	0.00
24,300.0	90.57	359.70	11,333.5	12,355.8	924.4	12,390.2	0.00	0.00	0.00
24,350.0	90.57	359.70	11,333.0	12,405.8	924.2	12,440.1	0.00	0.00	0.00
24,400.0	90.57	359.70	11,332.5	12,455.8	923.9	12,489.9	0.00	0.00	0.00
24,450.0	90.57	359.70	11,332.0	12,505.8	923.7	12,539.8	0.00	0.00	0.00
24,500.0	90.57	359.70	11,331.5	12,555.8	923.4	12,589.6	0.00	0.00	0.00
24,550.0	90.57	359.70	11,331.0	12,605.8	923.1	12,639.5	0.00	0.00	0.00
24,600.0	90.57	359.70	11,330.6	12,655.8	922.9	12,689.3	0.00	0.00	0.00
24,650.0	90.57	359.70	11,330.1	12,705.7	922.6	12,739.2	0.00	0.00	0.00
24,700.0	90.57	359.70	11,329.6	12,755.7	922.4	12,789.0	0.00	0.00	0.00
24,750.0	90.57	359.70	11,329.1	12,805.7	922.1	12,838.9	0.00	0.00	0.00
24,800.0	90.57	359.70	11,328.6	12,855.7	921.8	12,888.7	0.00	0.00	0.00
24,850.0	90.57	359.70	11,328.1	12,905.7	921.6	12,938.6	0.00	0.00	0.00
24,900.0	90.57	359.70	11,327.6	12,955.7	921.3	12,988.4	0.00	0.00	0.00
24,950.0	90.57	359.70	11,327.1	13,005.7	921.0	13,038.3	0.00	0.00	0.00
24,957.6	90.57	359.70	11,327.0	13,013.3	921.0	13,045.9	0.00	0.00	0.00
BHL: 10' FNL & 2310' FWL (Sec 24)									

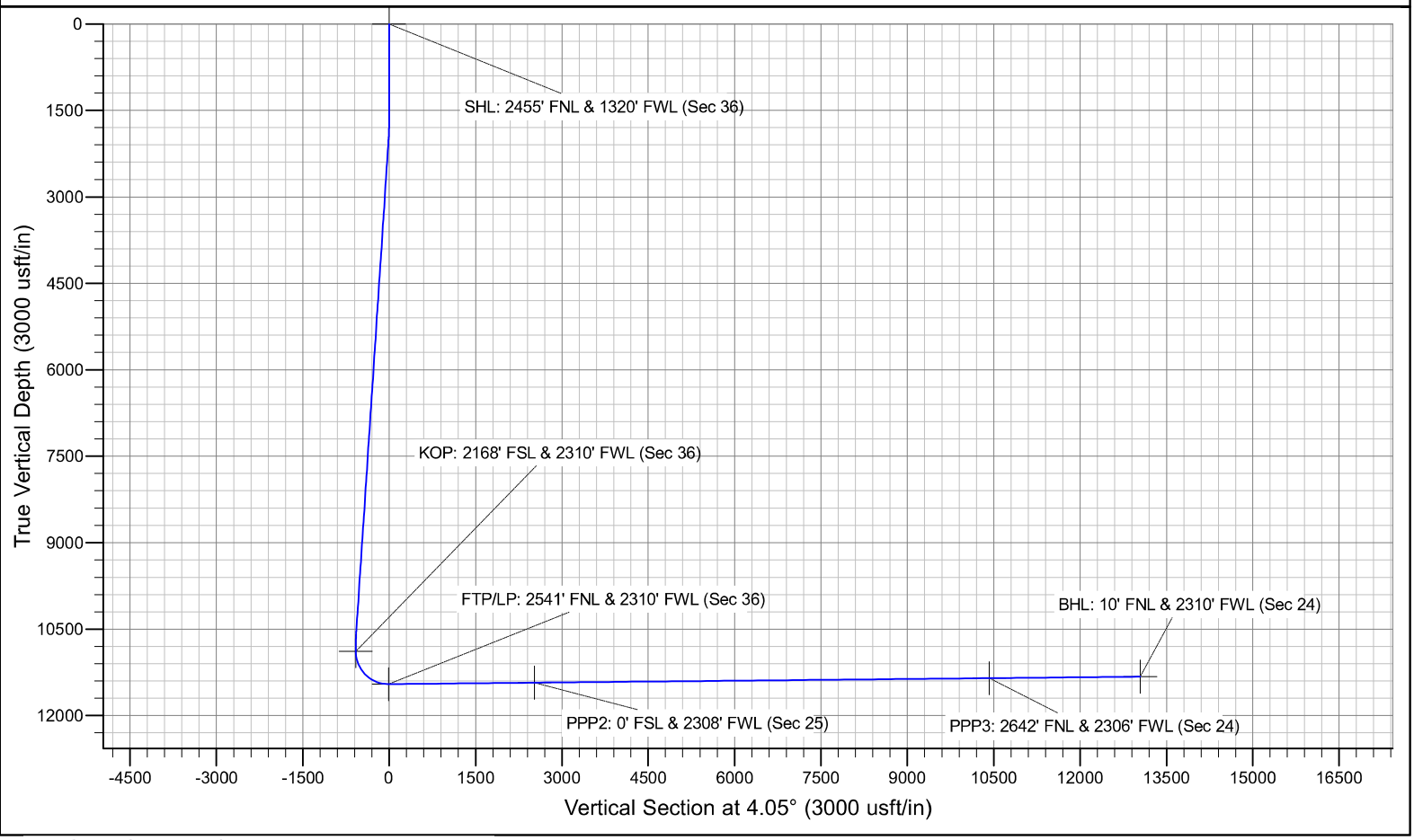
Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Cousin Eddy Fed Unit #49H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3595.0usft (Original Well Elev)
Site:	Cousin Eddy Fed Unit #49H	**North Reference:**	Grid
Well:	Sec 36, T21S, R31E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 10' FNL & 2310' FWL (Sec 24)		
Design:	Design #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 2455' FNL & 1320' - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	522,703.80	725,696.90	32.4355609	-103.7357651
KOP: 2168' FSL & 2310' - plan hits target center - Point	0.00	0.00	10,884.0	-654.0	992.7	522,049.80	726,689.60	32.4337480	-103.7325596
BHL: 10' FNL & 2310' FV - plan hits target center - Point	0.00	0.00	11,327.0	13,013.3	921.0	535,717.10	726,617.90	32.4713158	-103.7325427
PPP3: 2642' FNL & 230 - plan hits target center - Point	0.00	0.00	11,353.1	10,382.3	934.8	533,086.10	726,631.70	32.4640839	-103.7325460
PPP2: 0' FSL & 2308' FV - plan hits target center - Point	0.00	0.00	11,431.8	2,459.4	976.4	525,163.20	726,673.26	32.4423059	-103.7325557
FTP/LP: 2541' FNL & 23 - plan hits target center - Point	0.00	0.00	11,457.0	-81.1	989.7	522,622.70	726,686.59	32.4353228	-103.7325589


Cousin Eddy Fed Unit #49H
Hard Lines
Sec 24
BHL: 10' FNL & 2310' FWL (Sec 24)
PPP3: 2642' FNL & 2306' FWL (Sec 24)
Sec 25
PPP2: 0' FSL & 2308' FWL (Sec 25)
FTP/LP: 2541' FNL & 2310' FWL (Sec 36)
SHL: 2455' FNL & 1320' FWL (Sec 36)
KOP: 2168' FSL & 2310' FWL (Sec 36)
Sec 36
South(-)/North(+) (3500 usft/in)
West(-)/East(+) (3500 usft/in)


SHL: 2455' FNL & 1320' FWL (Sec 36)
KOP: 2168' FSL & 2310' FWL (Sec 36)
FTP/LP: 2541' FNL & 2310' FWL (Sec 36)
BHL: 10' FNL & 2310' FWL (Sec 24)
PPP2: 0' FSL & 2308' FWL (Sec 25)
PPP3: 2642' FNL & 2306' FWL (Sec 24)
True Vertical Depth (3000 usft/in)
Vertical Section at 4.05° (3000 usft/in)

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.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
COUSIN EDDY FED UNIT 49H		E 36 21S 31E	2455' FNL X 1320' FWL	1500	2500	2500
COUSIN EDDY FED UNIT 50H			2455' FNL X 1300' FWL			
COUSIN EDDY FED UNIT 51H			2455' FNL X 1280' FWL			
COUSIN EDDY FED UNIT 52H			2455' FNL X 1260' FWL			
COUSIN EDDY FED UNIT 53H			2455' FNL X 1180' FWL			
COUSIN EDDY FED UNIT 54H			2455' FNL X 1220' FWL			
COUSIN EDDY FED UNIT 55H			2455' FNL X 1200' FWL			
COUSIN EDDY FED UNIT 56H			2455' FNL X 1240' FWL			
				Y1-400 Y2-300 Y3-200	Y1-700 Y2-500 Y3-300	Y1-700 Y2-500 Y3-300

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.

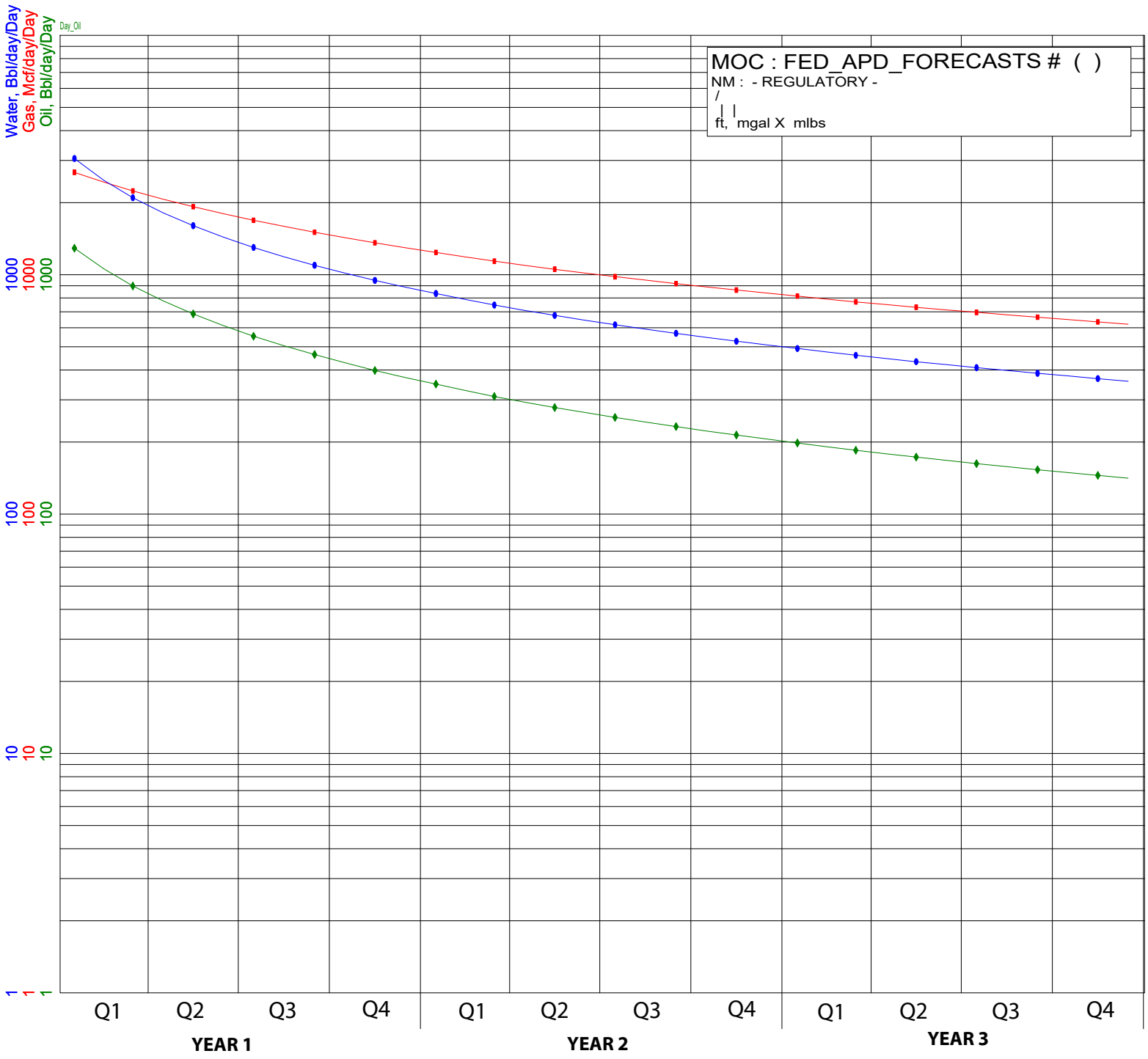
D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(1) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting 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.



Oil, Bbl/day

Qual=	EDDYBS2.5
Ref=	1/2025
Cum=	0
Rem=	402868
EUR=	402868
Yrs=	3.000
Qi=	1440.0
b=	0.950000
De=	75.000000
Df=	23.952479
Qab=	139.3

Gas, Mcf/day

Qual=	EDDYBS2.5
Ref=	1/2025
Cum=	0
Rem=	1298725
EUR=	1298725
Yrs=	3.000
Qi=	2815.0
b=	1.050000
De=	55.000000
Df=	20.108832
Qab=	615.1

Water, Bbl/d

Qual=	EDDYBS2.5
Ref=	1/2025
Cum=	0
Rem=	964855
EUR=	964855
Yrs=	3.000
Qi=	3440.0
b=	1.050000
De=	75.000000
Df=	22.260386
Qab=	354.8

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.

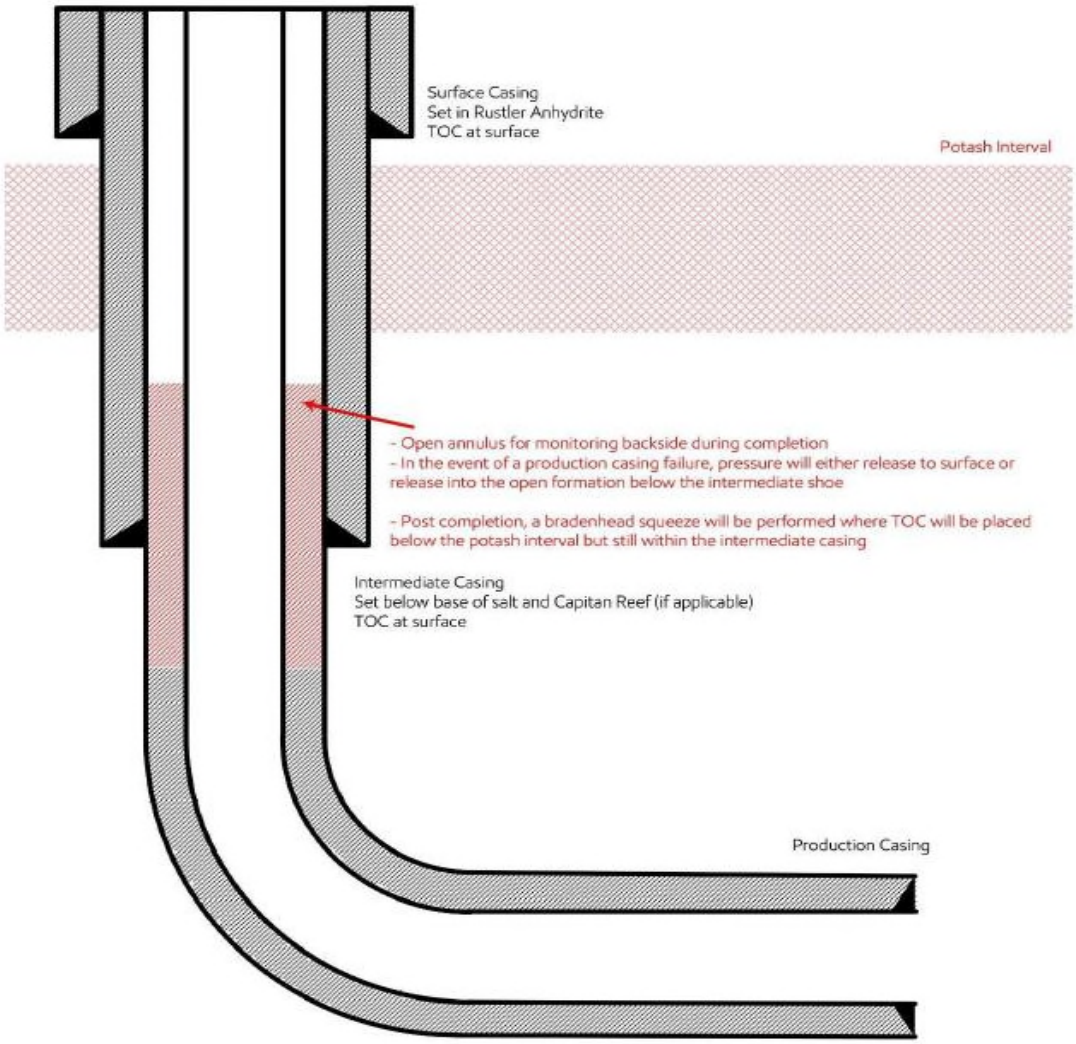
i. A monitored open annulus will be incorporated during completion by leaving the 1st Intermediate Casing x Production Casing annulus un-cemented and monitored inside the 1st Intermediate String. Reference wellbore diagram.

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



Mewbo

Casing Program Design A					
String	**Hole Size**	**Top MD**	**Top TVD**	**Bot MD**	
Surface	17.5"	0'	0'	1090'	
Intermediate	12.25"	0'	0'	3385'	
Intermediate	12.25"	3385'	3385'	4307'	
Intermediate	12.25"	4307'	4307'	4450'	
Production	8.75"	0'	0'	10563'	
Liner	6.75"	10363'	10225'	25786'	

Cement Program

Casing		# Sacks	Wt. lb/gal	Yield ft^3/sack	
13.375 in	LEAD	300	12.5	2.12	
	TAIL	200	14.8	1.34	
9.625 in	LEAD	700	12.5	2.12	
	TAIL	200	14.8	1.34	
7.625 in	LEAD	50	12.5	2.12	
	TAIL	400	15.6	1.18	

Well Location GL: 3567'

Point	Calls	Leases
SHL	SHL: 2455' FNL & 1320' FWL (Sec 36)	State
KOP	KOP: 2168' FSL & 2310' FWL (Sec 36)	State
FTP	FTP/LP: 2541' FNL & 2310' FWL (Sec 36)	State
PPP2	PPP2: 0' FSL & 2308' FWL (Sec 25)	NMNM0613
PPP3	PPP3: 2642' FNL & 2306' FWL (Sec 24)	NMNM1352
BHL	BHL: 10' FNL & 2310' FWL (Sec 24)	NMNM1352

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Miner
Rustler	570'	Dolomite/Anhydrite	Us
Salt Top	850'	Salt	
Castile			
Marker Bed 126	1652'	Salt	
Salt Base	4120'	Salt	
Yates			
Seven Rivers			
Queen			
Capitan			
Grayburg			
San Andres			
Glorietta			
Yeso			

Casing Program Design A				
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom M
Surface	17.5"	0'	0'	645'
Intermediate	12.25"	0'	0'	3385'

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft^3/sa
13.375 in	LEAD	300	12.5	2.12
	TAIL	200	14.8	1.34
9.625 in	LEAD	700	12.5	2.12
	TAIL	200	14.8	1.34
7.625 in	LEAD	50	12.5	2.12
	TAIL	400	15.6	1.18
5.5 in	LEAD	810	13.5	1.85

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type	
12.25	13.375	5M	Annular	
		5M	Blind Ram	
			Pipe Ram	
			Double Ram	
			Other*	.

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (10962') to surface (horizontal well – vertical p
Y	No logs are planned based on well control or offset log information. Offset W
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	
☐	Compensated Densilog	☐	C
☐	Dip Meter Log	☑	
☐	Dual Lateral Log/Microspherically Focused	☐	
☐	Gamma Ray Log	☑	**Mc**
☐	Other	☐	
☐	Sonic Log	☐	S

Drilling Conditions

Condition	Specify what type and where
BH Pressure at deepest TVD	6851 psi
BH Temperature	140
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud sc
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 with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, mea

Other facets of operation

Mewbourne Oil Company requests approval to implement additional designs as described belov
contain PFAS chemicals in the completion or recompletion of the well.

Offline Cementing Variance: Variance is requested to perform offline cementing according to

Casing Program Design B				
Casing String	**Hole Diameter (in)**	**Top MD**	**Top TVD**	**Bottom M**
Surface	17.5"	0'	0'	645'
Intermediate	12.25"	0'	0'	3385'
Intermediate	12.25"	3385'	3385'	4295'
Production	8.75"	0'	0'	11862'
Liner	6.75"	10962'	10884'	24957'

All casing strings will be tested in acco

Is casing new? If used, attach certification as required in Onshore Order #1
Is casing API approved? If no, attach casing specification sheet.
Is premium or uncommon casing planned? If yes attach casing specification sheet.
Does the above casing design meet or exceed BLM's minimum standards? If not provide justifi
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure ra
Is well located within Capitan Reef?
If yes, does production casing cement tie back a minimum of 50' above the Reef?
Is well within the designated 4 string boundary.
Is well located in SOPA but not in R-111-Q?
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into pre

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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.

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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.

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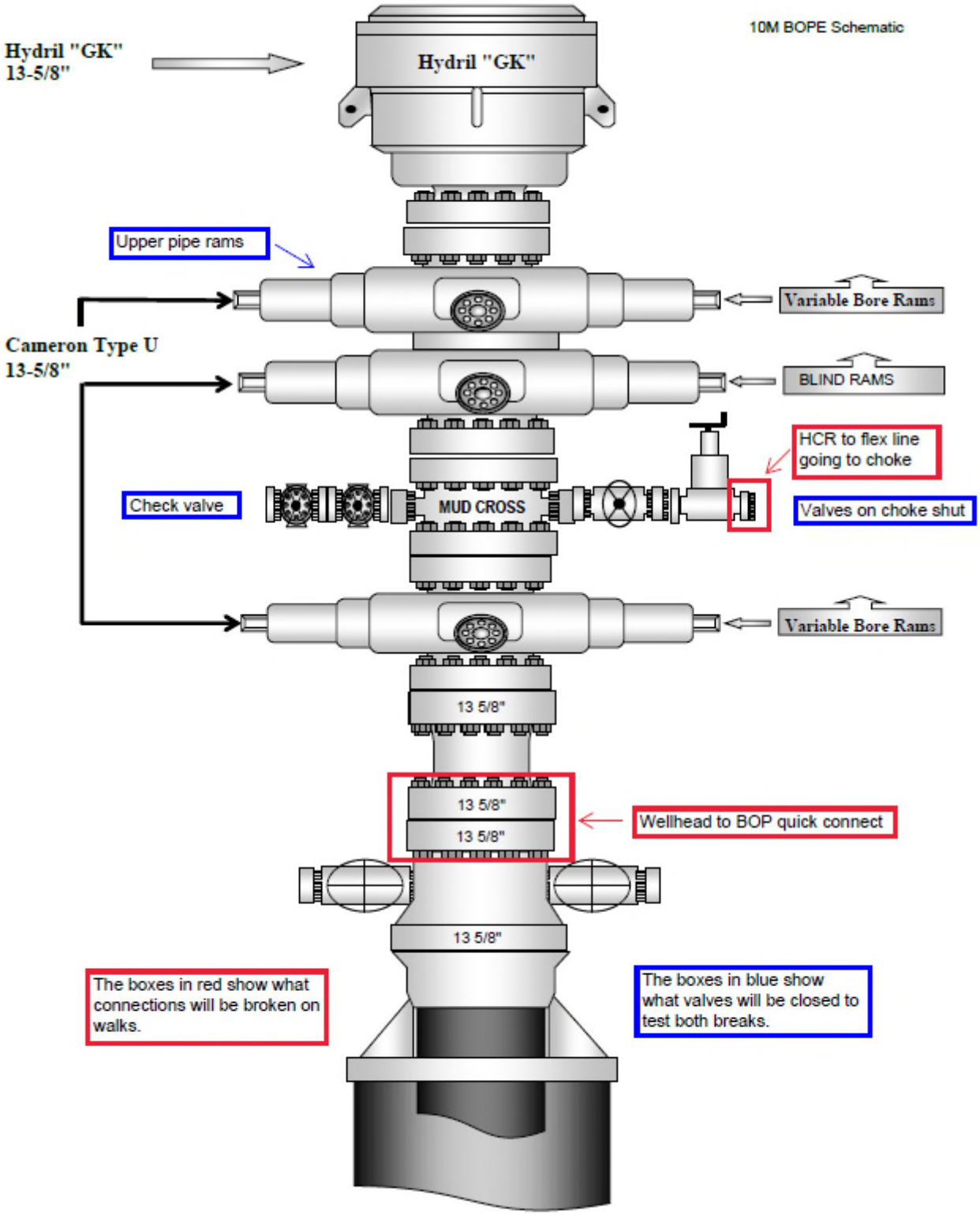

Figure 1. BOP diagram

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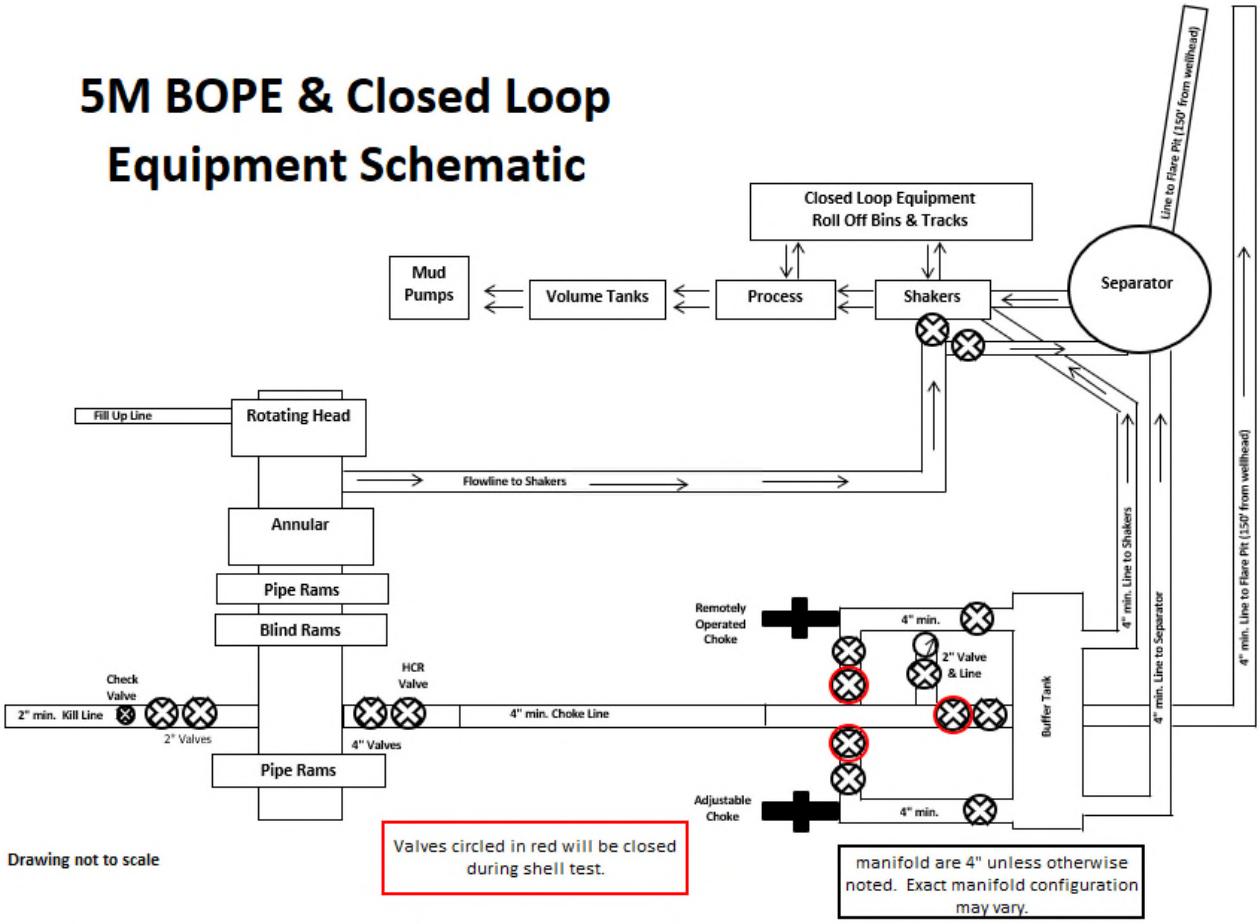

Figure 2. BOPE diagram

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Figure 3. BOP handling system

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Figure 4. BOP handling system

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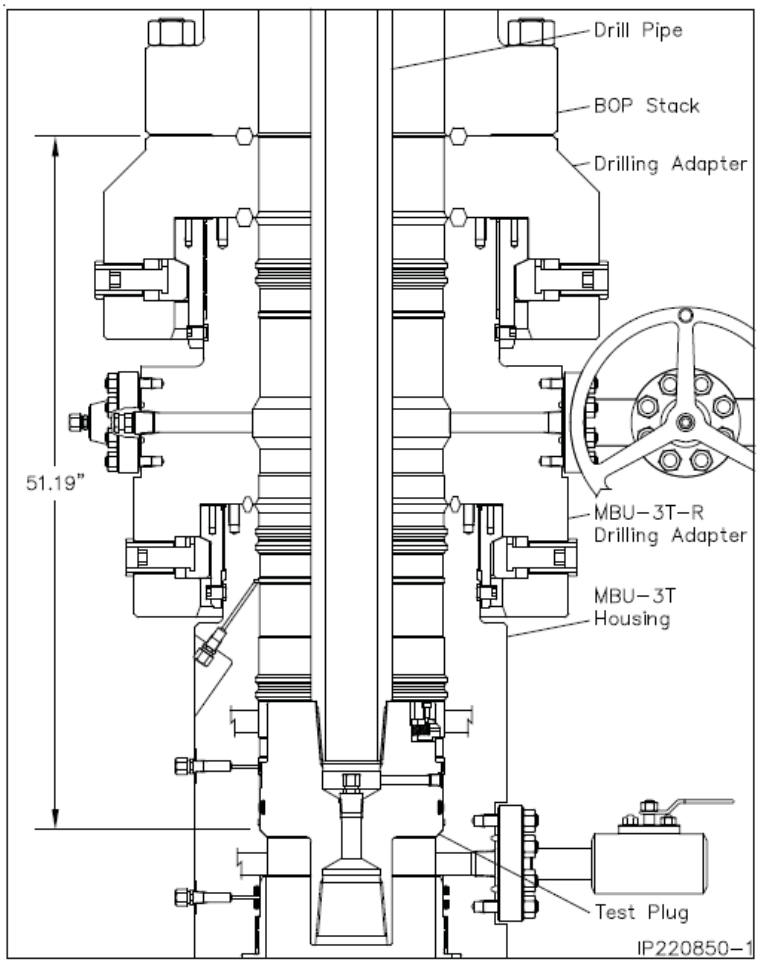

Figure 5. Cactus 5M wellhead with BOP quick connect

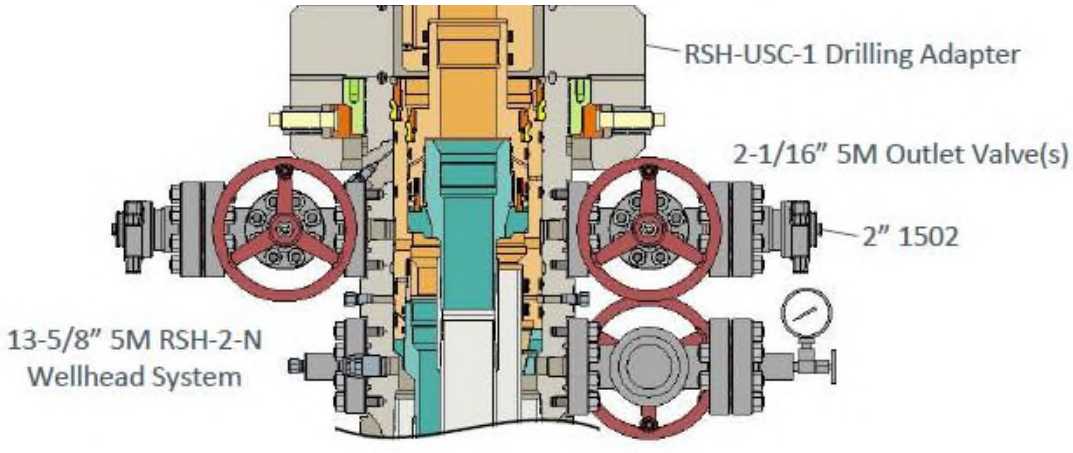

Figure 6. Vault 5M wellhead with BOP quick connect

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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 ⅝" 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

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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

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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

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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.

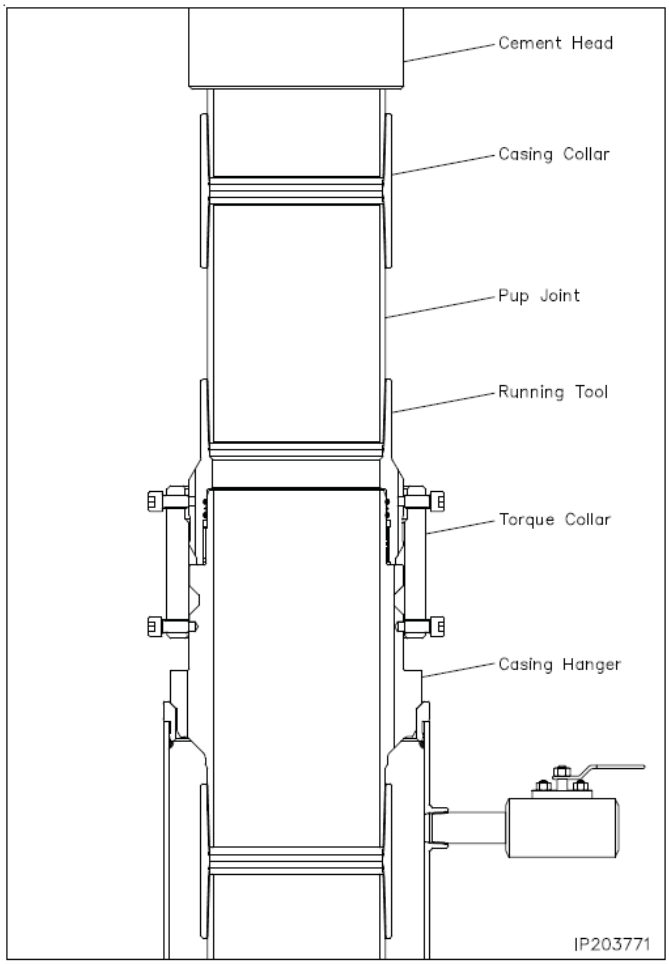

Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

MEWBOURNE
OIL COMPANY

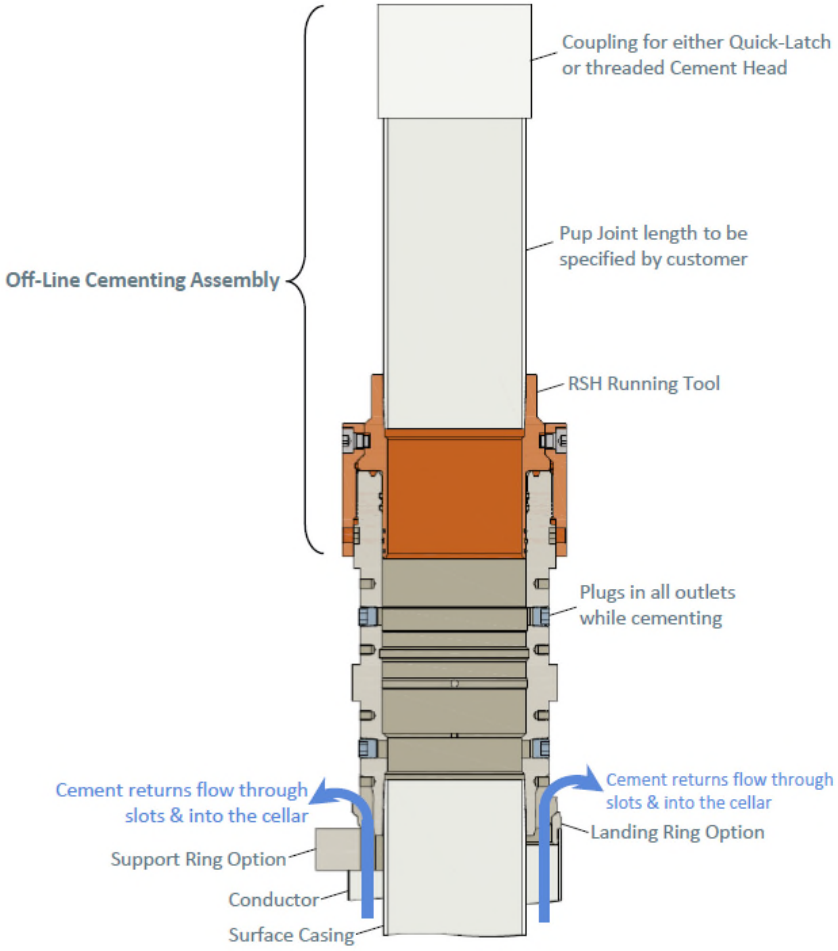

Figure 2. Vault 13 3/8” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8” pup joint and casing.

MEWBOURNE
OIL COMPANY

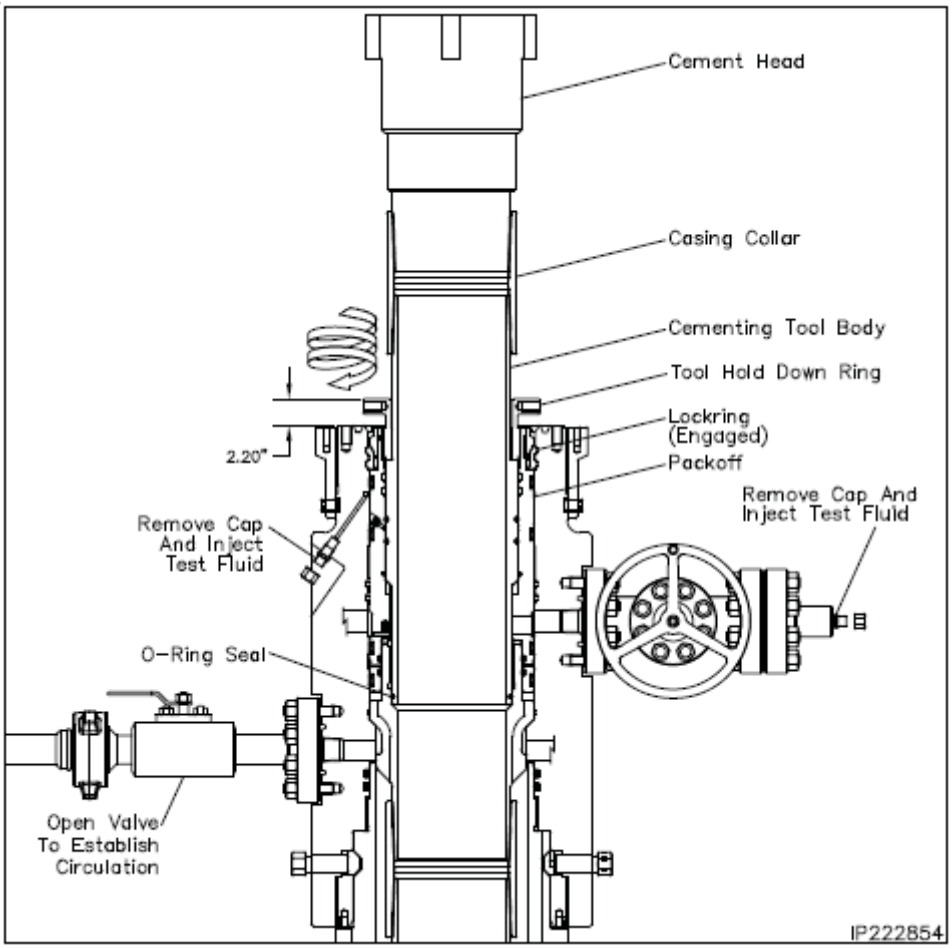

Figure 3. Cactus 9 5/8” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8” pup joint and casing.

MEWBOURNE
OIL COMPANY

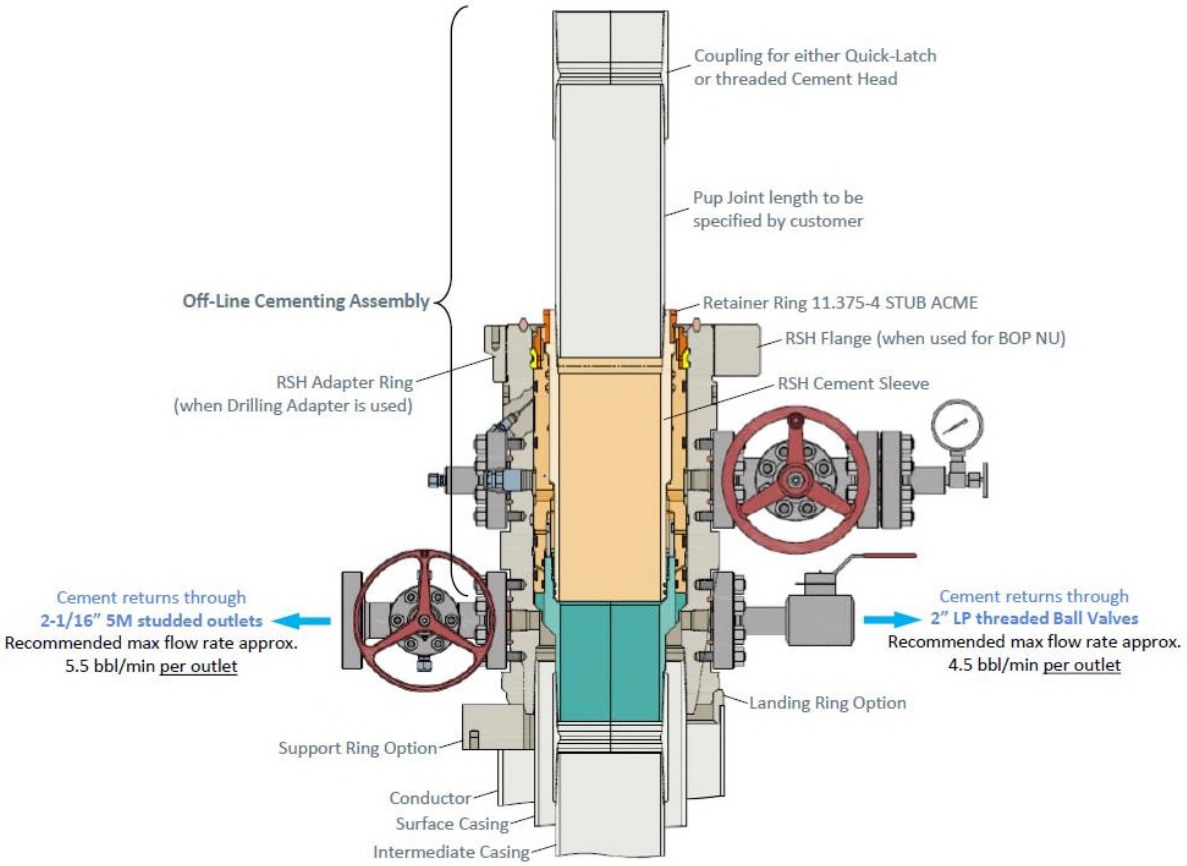

Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

MEWBOURNE
OIL COMPANY

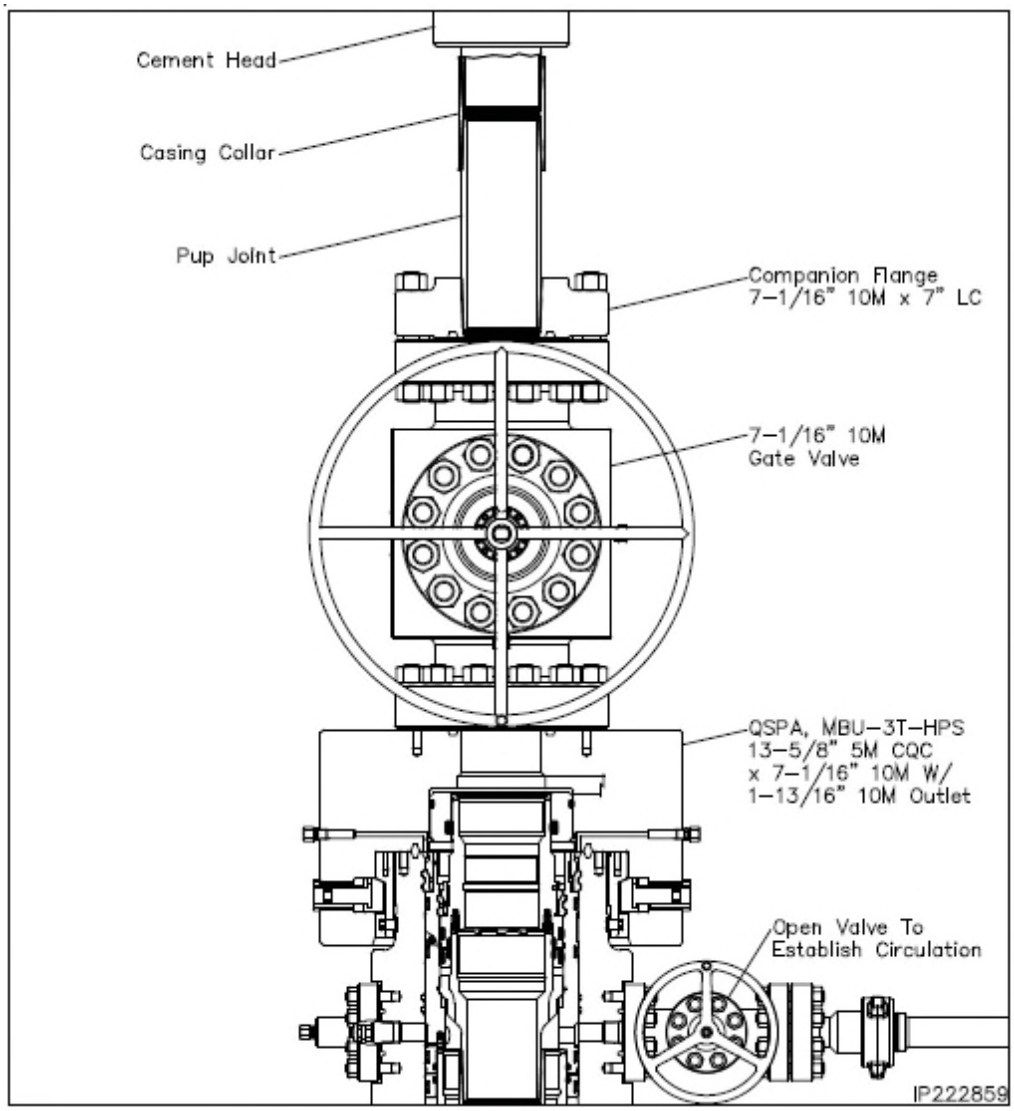

Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

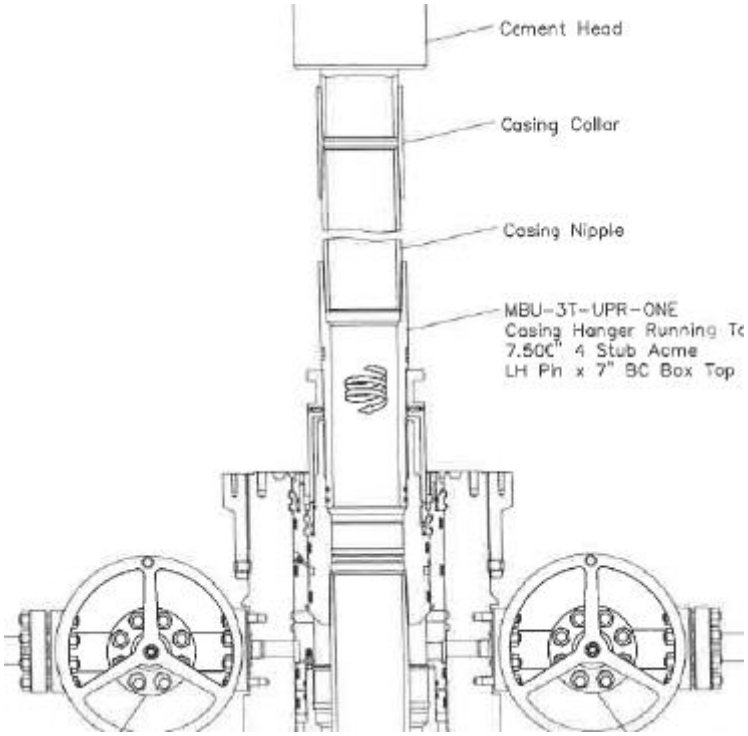

Figure 6. Cactus 7” 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7” pup joint and casing.

MEWBOURNE
OIL COMPANY

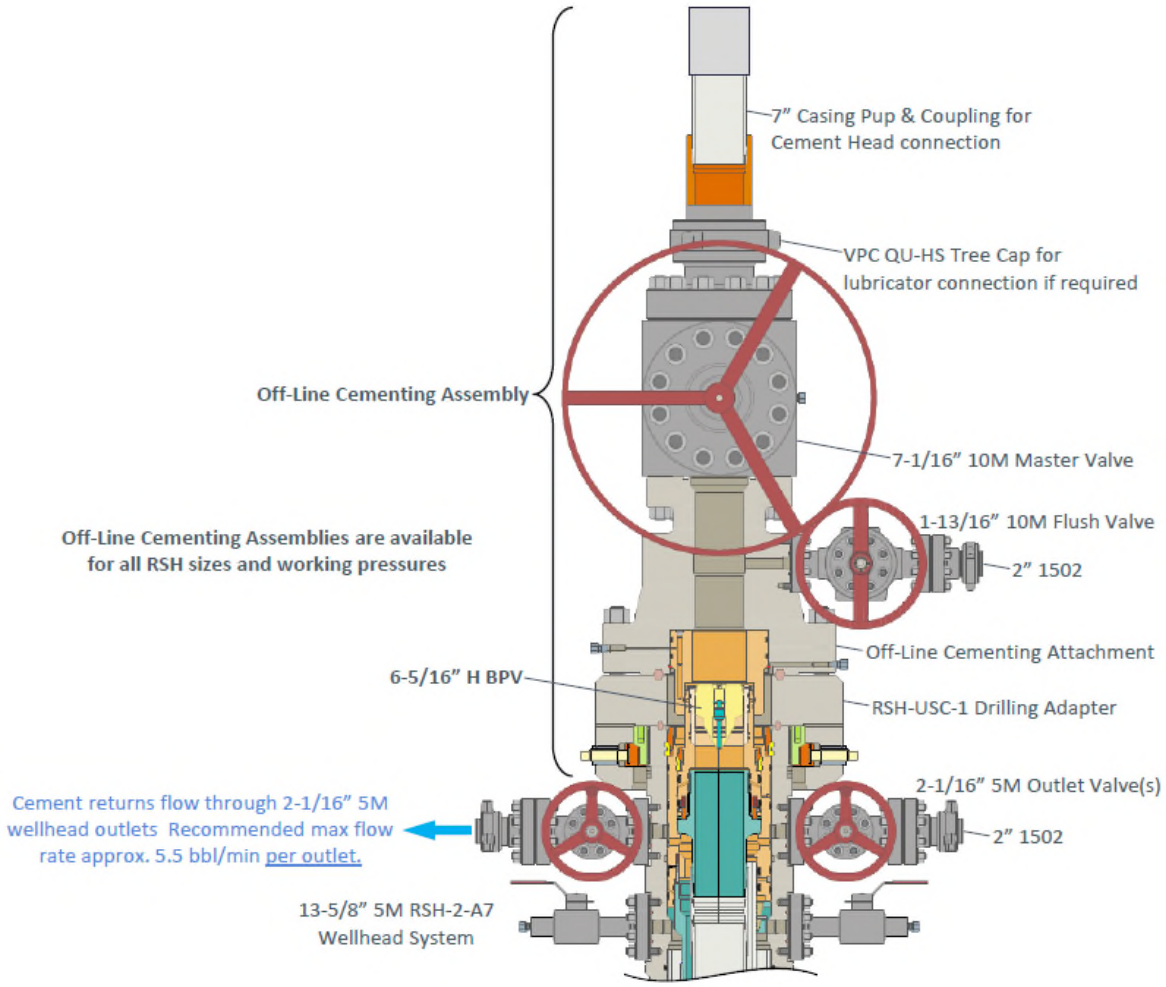

Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

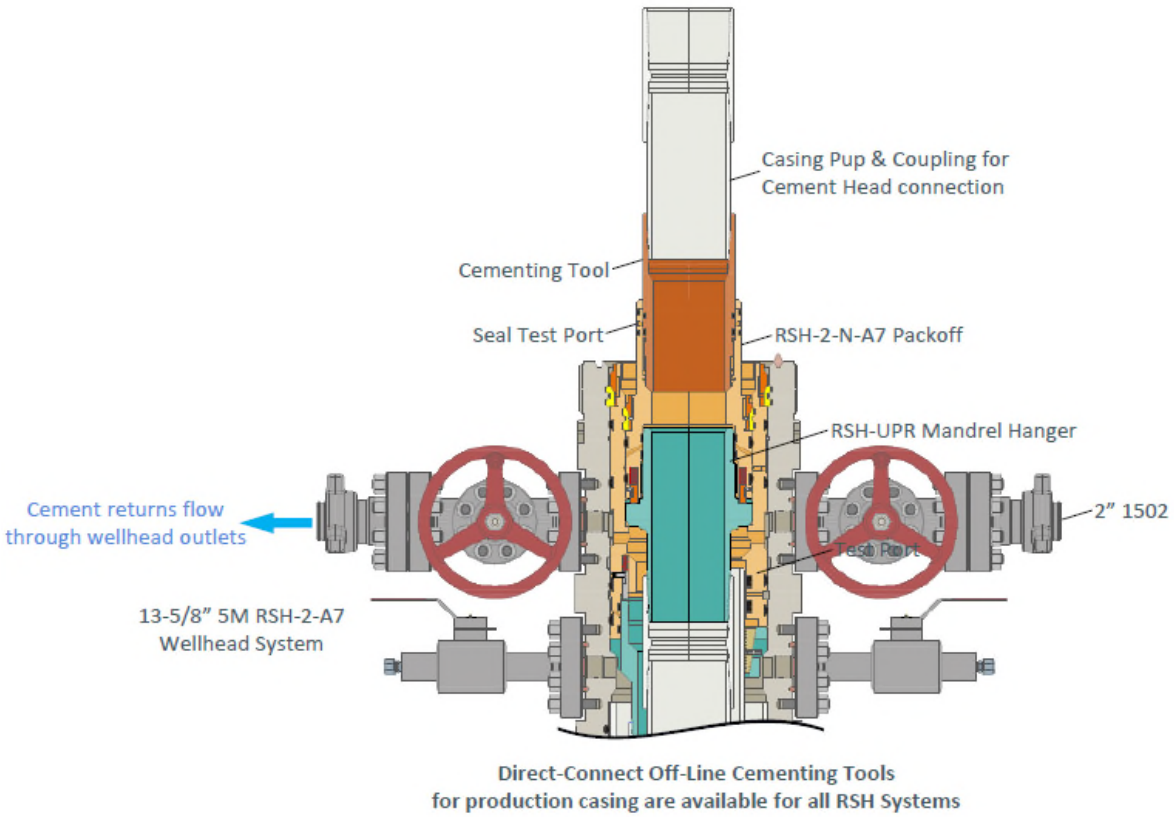

Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

MEWBOURNE
OIL COMPANY

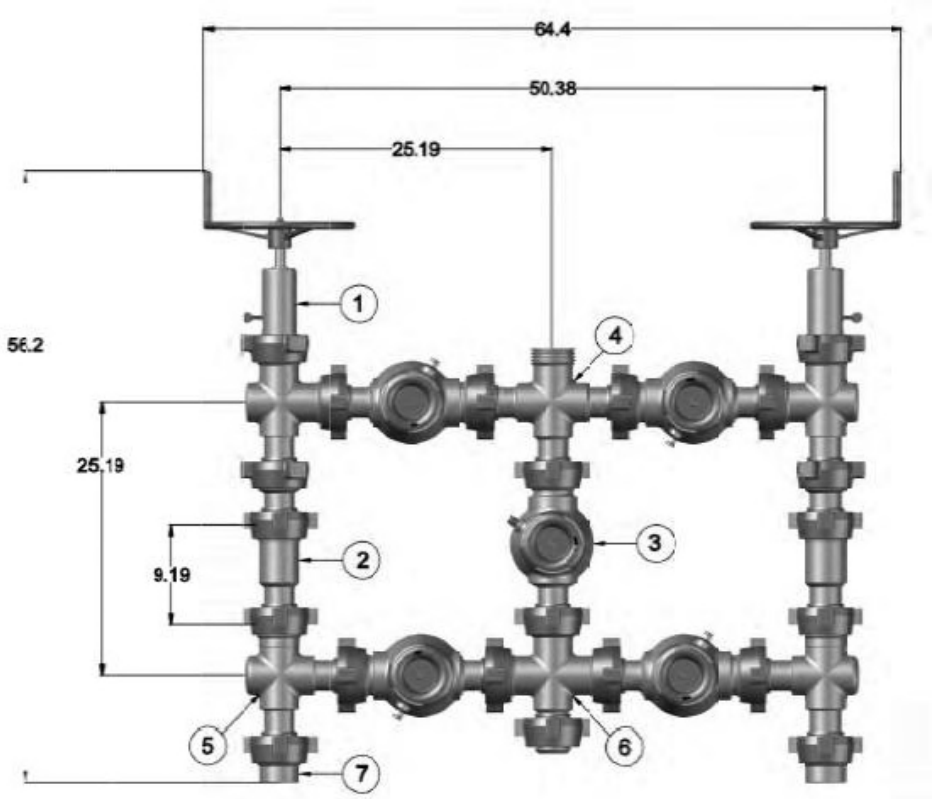

Figure 9. Five valve 15k choke manifold.

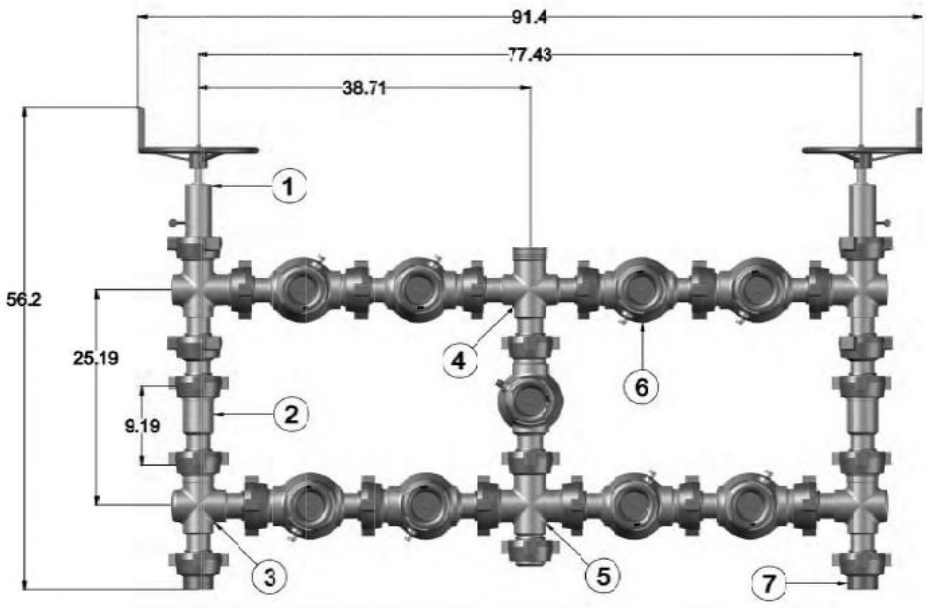

Figure 10. Nine valve 15k choke manifold.

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

SUPO Data Report
04/07/2026

APD ID: 10400110016
Submission Date: 02/23/2026
Operator Name: MEWBOURNE OIL COMPANY
Well Name: COUSIN EDDY FED UNIT
Well Number: 49H
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: 659.13 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:** 49H

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

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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:** 49H

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: 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.

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:

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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:

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

Disposal location description: City of Carlsbad Water Treatment facility

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:** 49H

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_20260204103619.pdf

Drainage/Erosion control construction: None

Drainage/Erosion control reclamation: None

Well pad proposed disturbance (acres): 4.6	**Well pad interim reclamation (acres):** 0.6	**Well pad long term disturbance (acres):** 4
Road proposed disturbance (acres): 1.5	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 0	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 1.136	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 7.236	**Total interim reclamation:** 0.6	**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

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Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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:** 49H

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:** 49H

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:** 49H

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:** 49H

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:

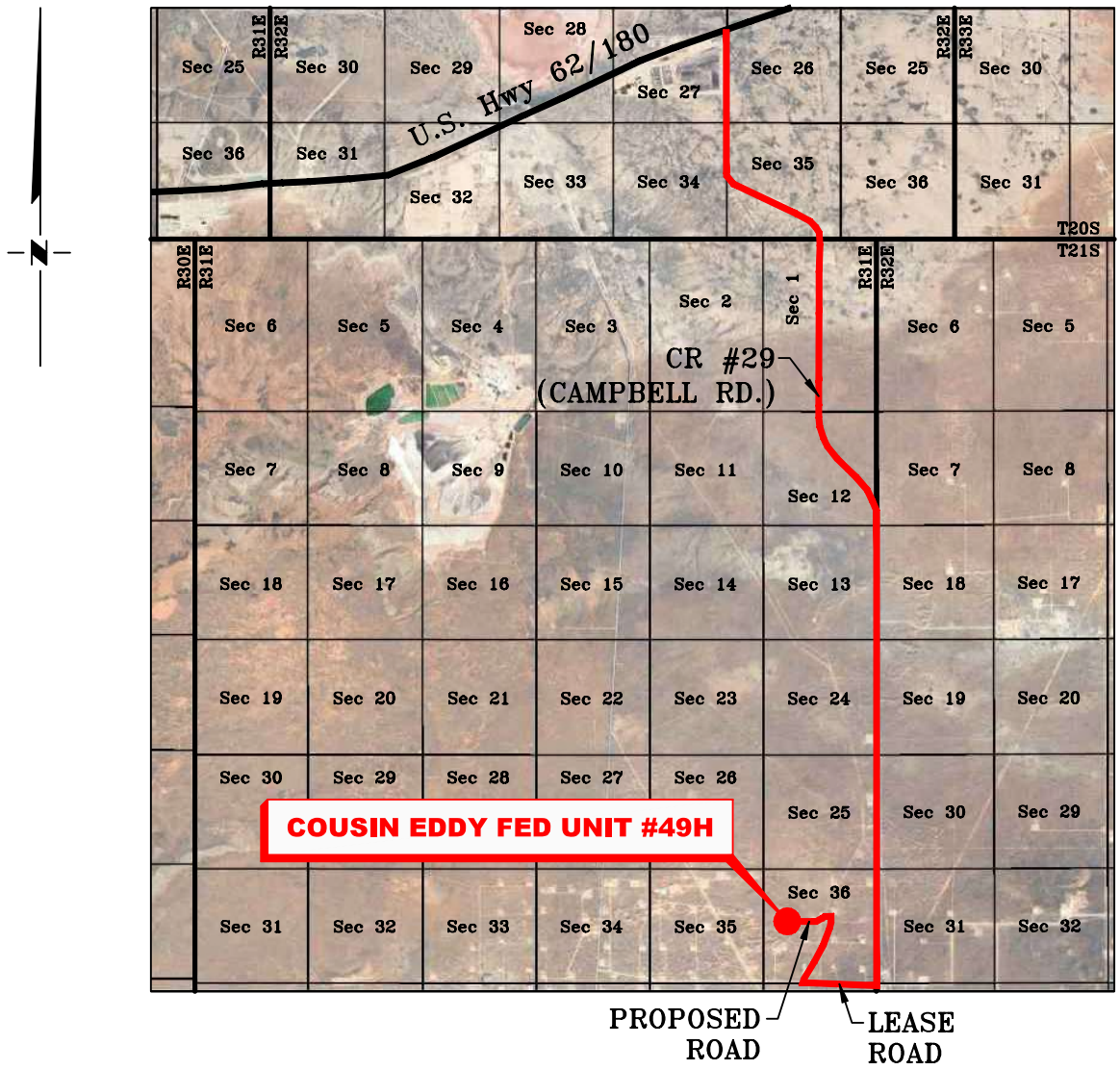
Use a previously conducted onsite? Y

Previous Onsite information: Met w/RRC surveying & staked location @ 2475' FNL & 1100' FWL, Sec 36, T21S, R31E, Eddy Co., NM. (Elev. @ 3559'). 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.: 32.4355064 N, Long.: -103.7364784 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 Company
LEASE: Cousin Eddy Fed Unit
WELL NO.: 49H

LOCATION: 2455' FNL & 1320' FWL
ELEVATION: 3567'

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

RRC ENERGY SERVICES, LLC.
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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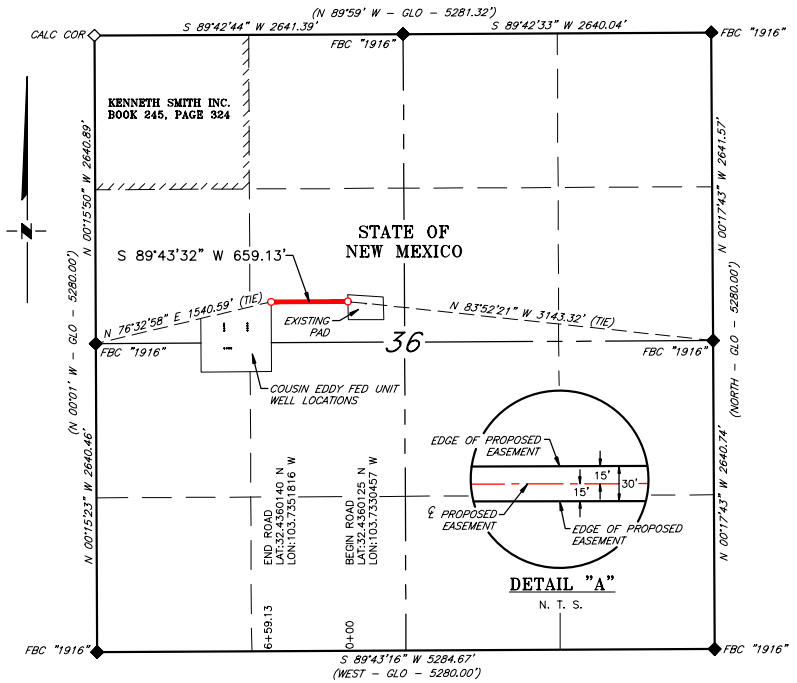
MEWBOURNE OIL COMPANY
ACCESS ROAD FOR THE COUSIN EDDY FED UNIT WELL LOCATIONS
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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
◆ 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

ROBERT M. HOWETT
NEW MEXICO
19680
08/07/24
PROFESSIONAL SURVEYOR

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

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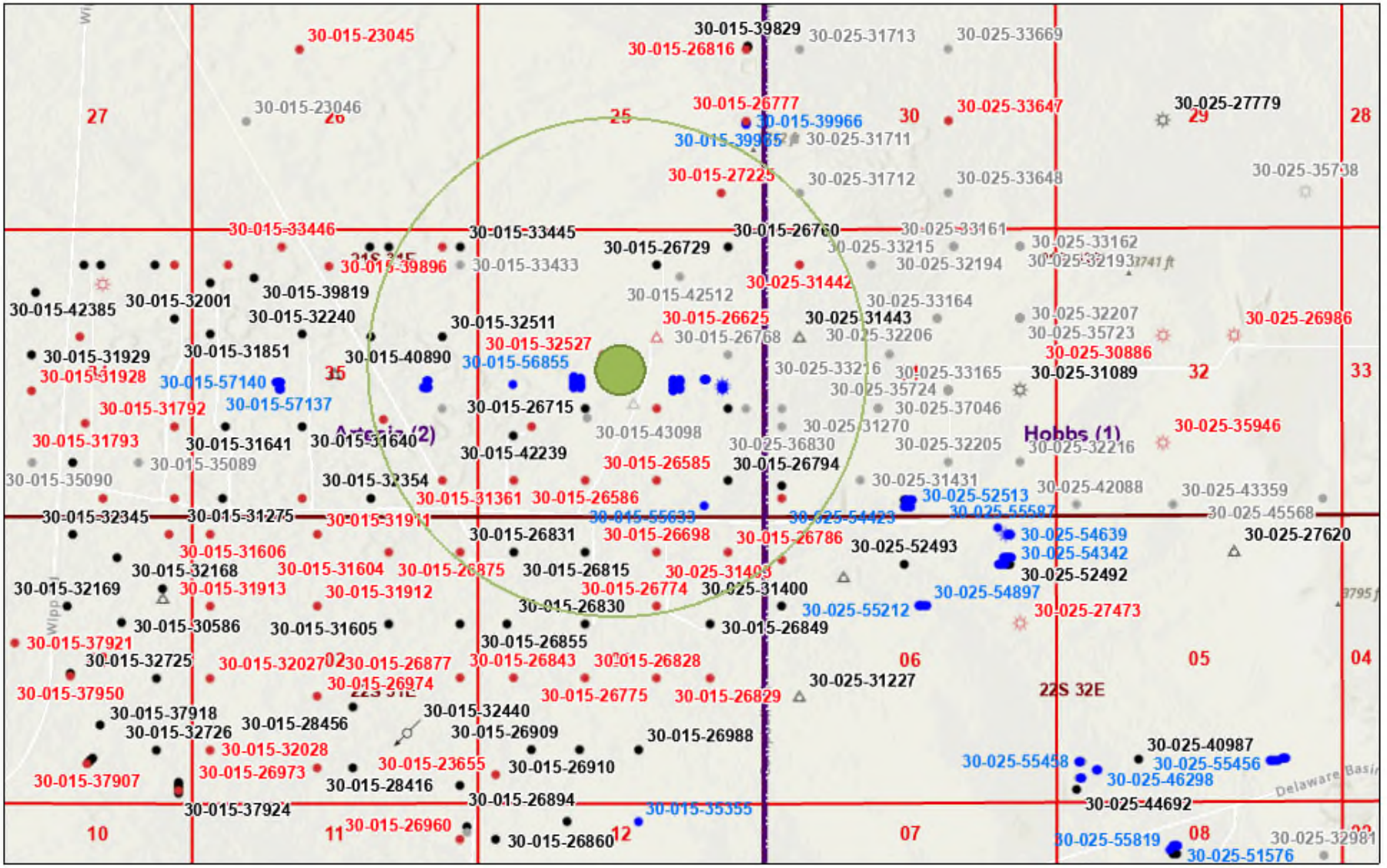
OCD Well Locations



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1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Areas
- Override 1
- Override 2

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

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New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

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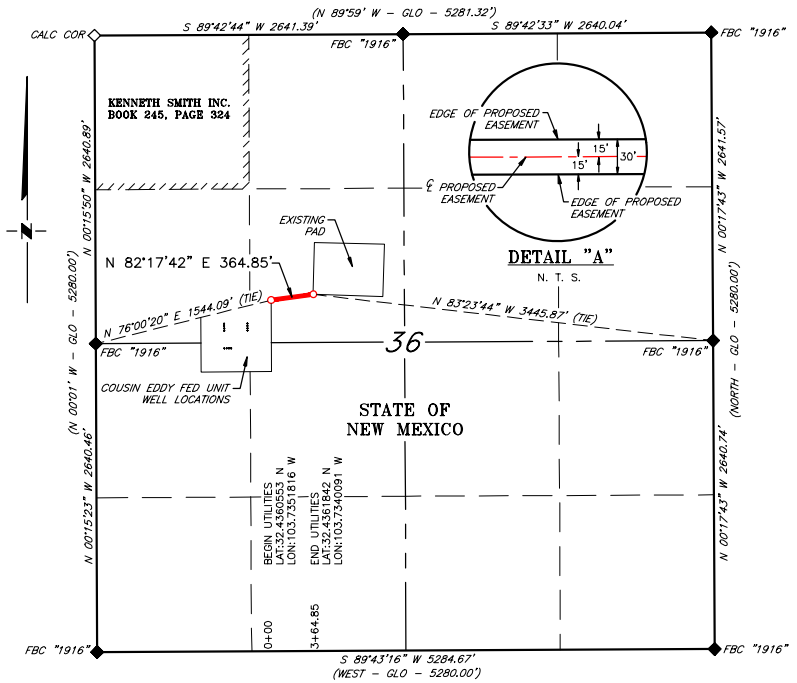
MEWBOURNE OIL COMPANY
UTILITIES FOR THE COUSIN EDDY FED UNIT WELL LOCATIONS
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO



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
◆ 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

ROBERT M. HOWETT NEW MEXICO 19680 08/07/24 PROFESSIONAL SURVEYOR

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

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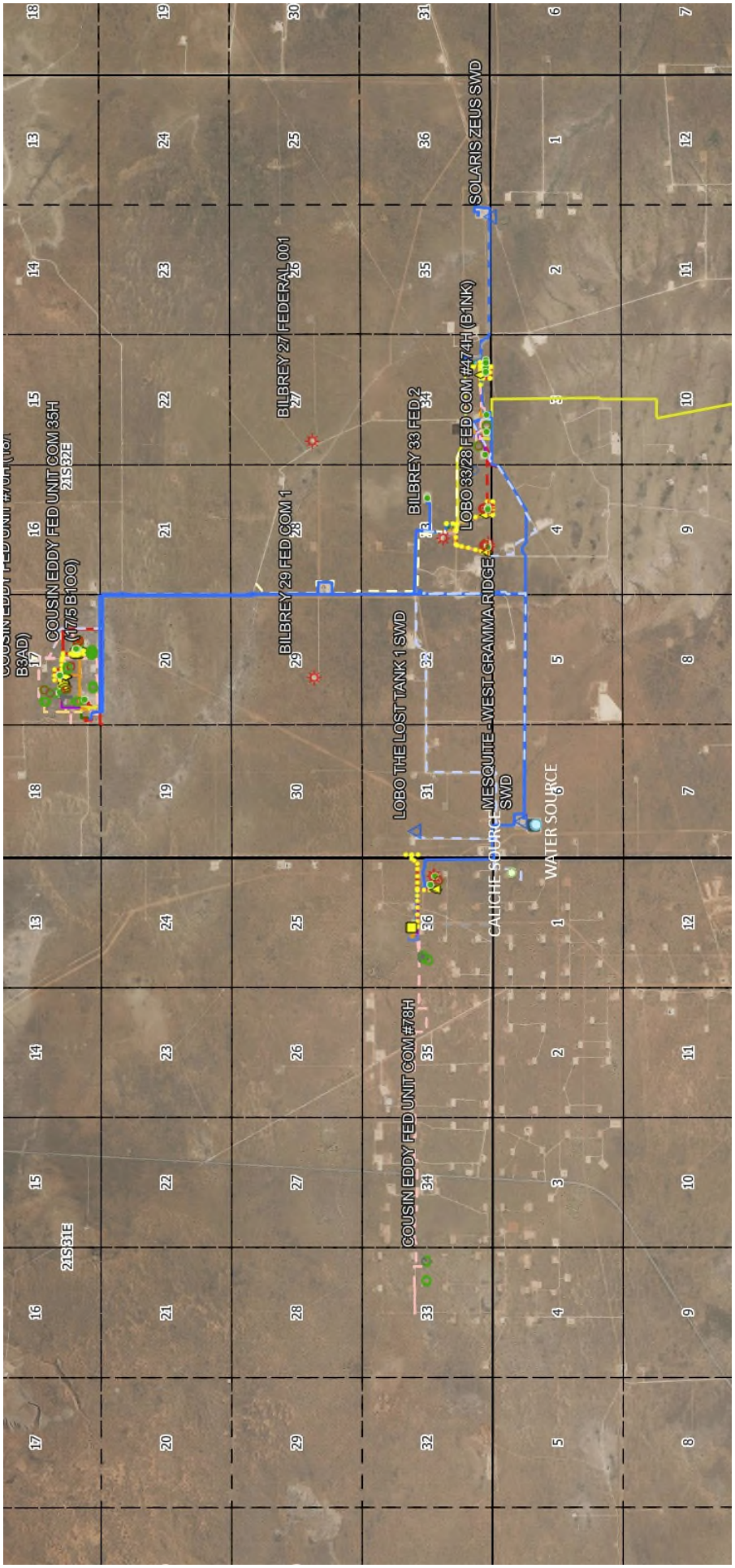
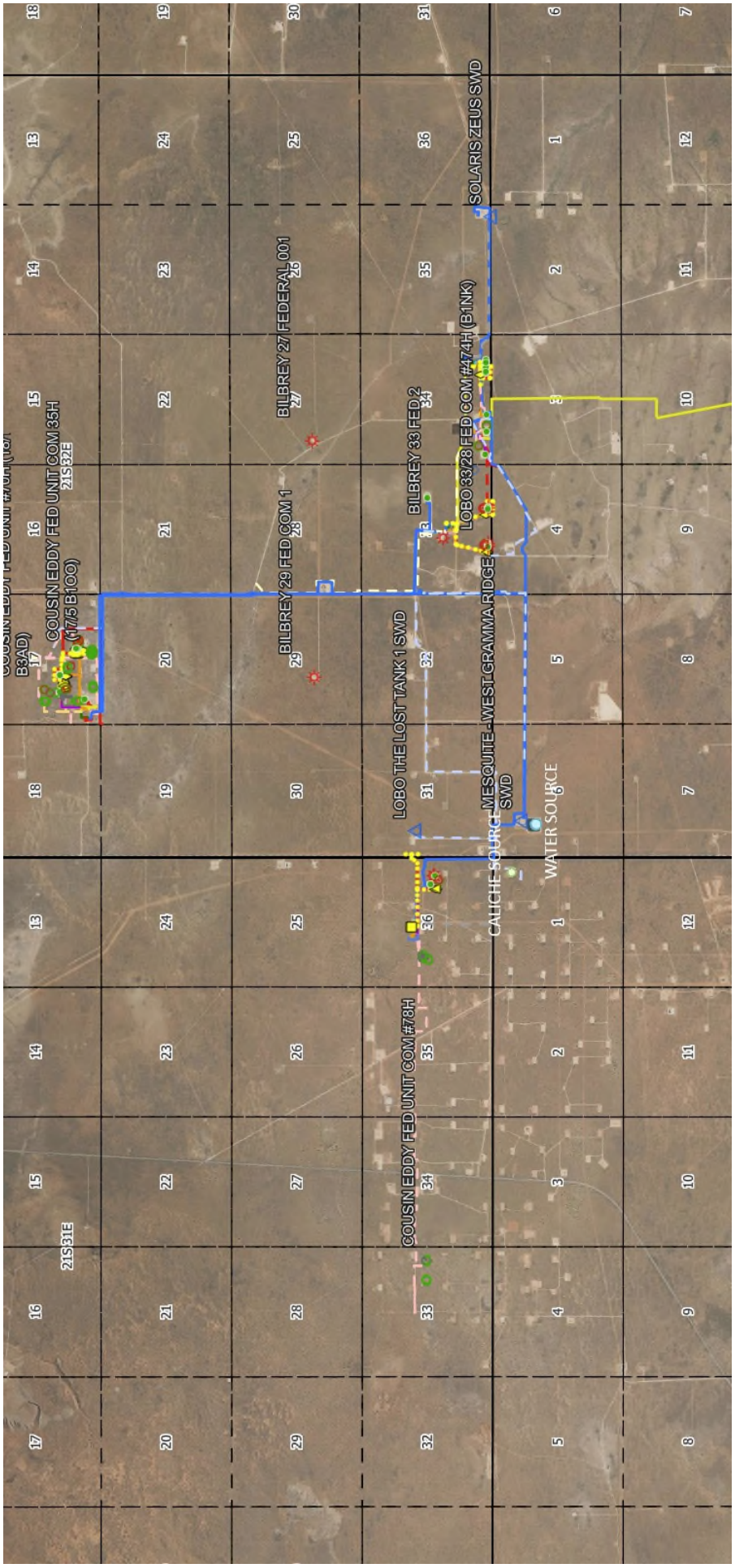

COUSIN EDDY FED UNIT COM 35H
21S 32E
(17/5 B100)
B3AD)
BILBREY 29 FED COM 1
BILBREY 27 FEDERAL 001
BILBREY 33 FED 2
LOBO 33/28 FED COM #474H (B1NK)
SOLARIS ZEUS SWD
LOBO THE LOST TANK 1 SWD
MESQUITE - WEST GRAMMA RIDGE SWD
WATER SOURCE
CALICHE SOURCE
COUSIN EDDY FED UNIT COM #78H
21S 31E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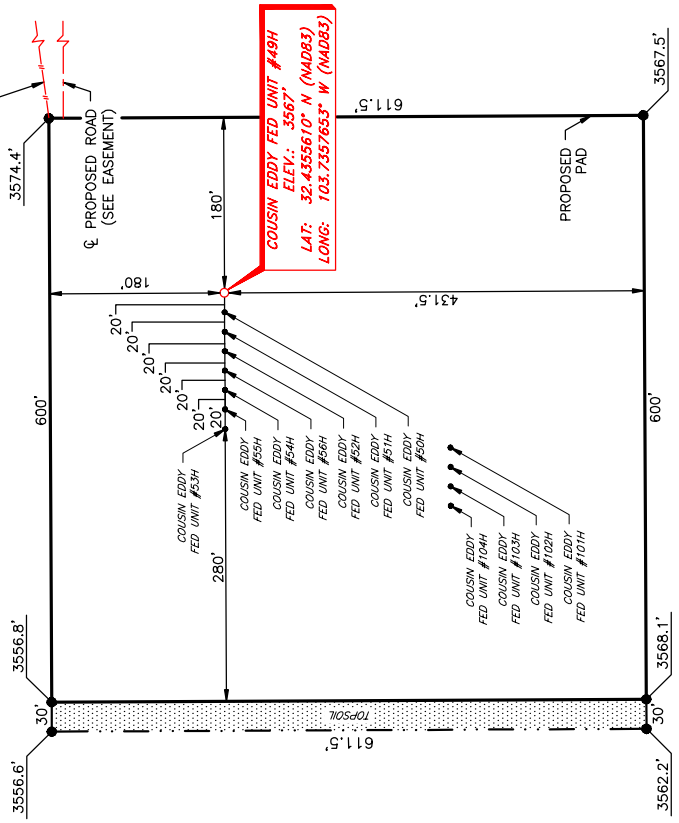
21S 32E
(17/5 B100)
BILBREY 29 FED COM 1
LOBO THE LOST TANK 1 SWD
MESQUITE - WEST GRAMMA RIDGE SWD
WATER SOURCE
CALICHE SOURCE
COUSIN EDDY FED UNIT COM #78H
21S 31E

MEWBOURNE OIL COMPANY
COUSIN EDDY FED UNIT #49H
(2455' FNL & 1320' FWL)
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of U.S. Hwy 62/180 & CR #29 (Campbell Rd.);
Go South on CR #29 approx. 9.0 miles to a lease road on the right;
Turn right and go West approx. 0.7 miles to a lease road on the right;
Turn right and go Northeast approx 0.6 miles to a "Y";
Turn left at "Y" and go West approx. 0.1 miles to a "Y";
Keep left at "Y" and go Southwest approx. 0.1 miles to existing pad;
Continue to Southwest corner of existing pad to a proposed road;
Go West on proposed road approx. 0.1 miles to location on the left.

SCALE: 1" = 120'
0 60' 120'
BEARINGS ARE NAD 83 GRID, ALL DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location 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 — NM PS 19680

ROBERT M. HOWETT — NEW MEXICO — 19680 — 12/24/25 — PROFESSIONAL SURVEYOR

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

NO.	REVISION	DATE
1	SL MOVE	12/10/25

JOB NO.: LS24070583R2
DWG. NO.: 24070583R2-5

SCALE: 1" = 120'
DATE: 07/02/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

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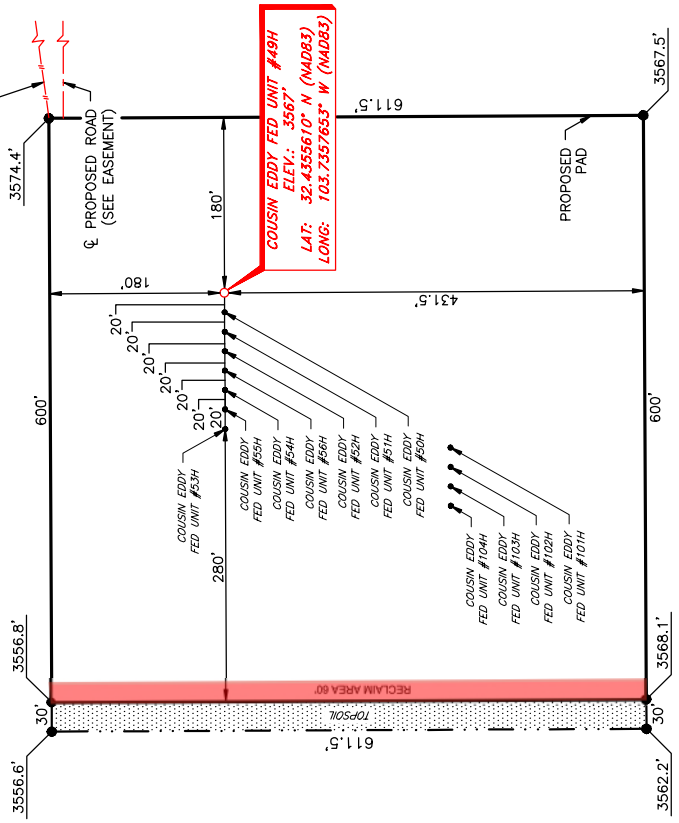
MEWBOURNE OIL COMPANY
COUSIN EDDY FED UNIT #49H
(2455' FNL & 1320' FWL)
SECTION 36, T21S, R31E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of U.S. Hwy 62/180 & CR #29 (Campbell Rd.);
Go South on CR #29 approx. 9.0 miles to a lease road on the right;
Turn right and go West approx. 0.7 miles to a lease road on the right;
Turn right and go Northeast approx 0.6 miles to a "Y";
Turn left at "Y" and go West approx. 0.1 miles to a "Y";
Keep left at "Y" and go Southwest approx. 0.1 miles to existing pad;
Continue to Southwest corner of existing pad to a proposed road;
Go West on proposed road approx. 0.1 miles to location on the left.

SCALE: 1" = 120'
0 60' 120'
BEARINGS ARE NAD 83 GRID - NM EAST
DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location 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 NM PS 19680

ROBERT M. HOWETT — NEW MEXICO — 19680 — 12/24/25 — PROFESSIONAL SURVEYOR

NO.	REVISION	DATE
1	SL MOVE	12/10/25
JOB NO.: LS24070583R2		
DWG. NO.: 24070583R2-5		

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

SCALE: 1" = 120'
DATE: 07/02/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

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

PWD Data Report
04/07/2026

APD ID: 10400110016 **Submission Date:** 02/23/2026

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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:

Decribe 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

Operator Name: MEWBOURNE OIL COMPANY

Well Name: COUSIN EDDY FED UNIT **Well Number:** 49H

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:

Decribe 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:** 49H

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:** 49H

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

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

Bond Info Data
04/07/2026

APD ID: 10400110016
Submission Date: 02/23/2026
Operator Name: MEWBOURNE OIL COMPANY
Well Name: COUSIN EDDY FED UNIT
Well Number: 49H
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	Pool Code	Pool Name	
30-015-58104	5695	BILBREY BASIN; BONE SPRING	
Property Code 336428	Property Name COUSIN EDDY FED UNIT		Well Number 49H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY		Ground Level Elevation 3567'
Surface Owner: ☑ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☑ State ☐ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	36	21S	31E		2455 FNL	1320 FWL	32.4355610°N	103.7357653°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	24	21S	31E		10 FNL	2310 FWL	32.4713158°N	103.7325427°W	EDDY

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

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	36	21S	31E		2168 FSL	2310 FWL	32.4337481°N	103.7325596°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	36	21S	31E		2541 FNL	2310 FWL	32.4353227°N	103.7325575°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	24	21S	31E		10 FNL	2310 FWL	32.4713158°N	103.7325427°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation:
Y		3567'

OPERATOR CERTIFICATIONS

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 interst, or to a voluntary pooling agreement or a compulsory poolling order heretofore entered by the division.

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.

Brett Miller 01/22/2026

Signature Date

BRETT MILLER

Printed Name

BRETT.MILLER@MEWBOURNE.COM

Email Address

SURVEYOR CERTIFICATIONS

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.

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	07/02/2024

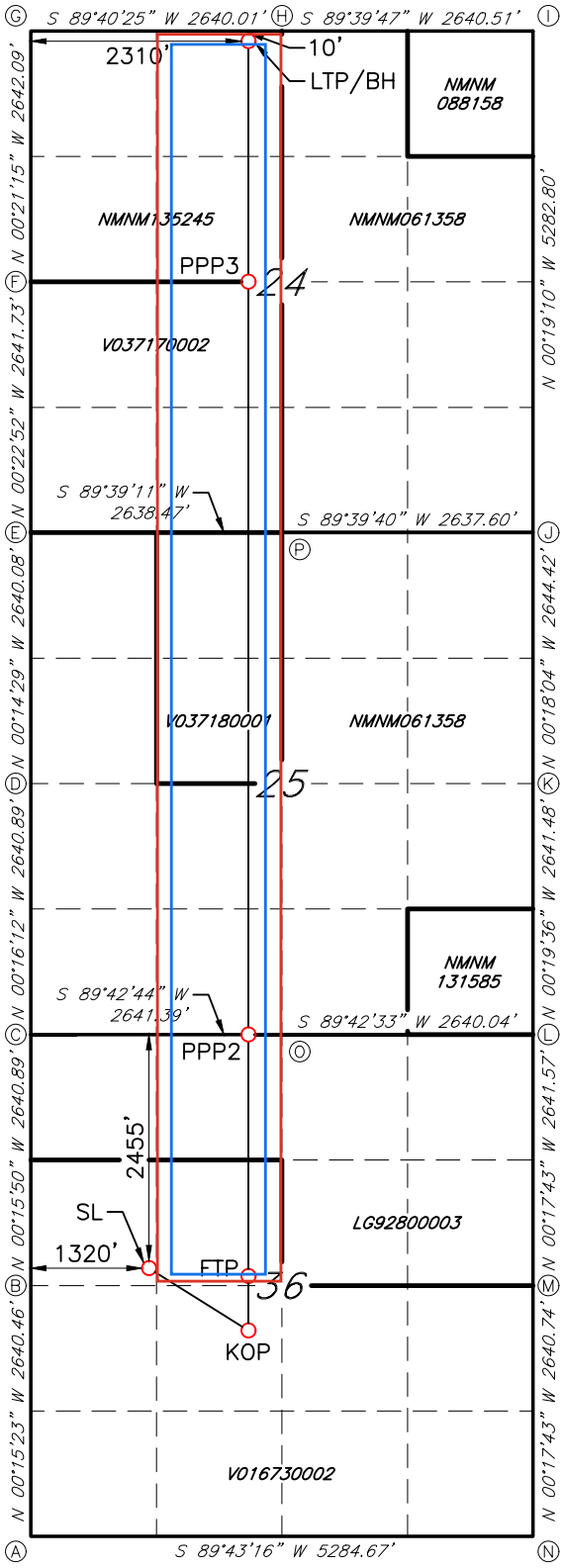
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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 #49H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
2455' FNL & 1320' FWL SEC.36
N: 522703.8 – E: 725696.9

LAT: 32.4355610° N
LONG: 103.7357653° W

KICK OFF POINT (KOP)
2168' FSL & 2310' FWL SEC.36
N: 522049.8 – E: 726689.6

LAT: 32.4337481° N
LONG: 103.7325596° W

FIRST TAKE POINT (FTP)
2541' FNL & 2310' FWL SEC.36
N: 522622.7 – E: 726687.0

LAT: 32.4353227° N
LONG: 103.7325575° W

PROPOSED PENETRATION POINT 2 (PPP2)
0' FSL & 2308' FWL SEC.25
N: 525163.2 – E: 726673.6

LAT: 32.4423060° N
LONG: 103.7325547° W

PROPOSED PENETRATION POINT 3 (PPP3)
2642' FNL & 2308' FWL SEC.24
N: 533086.1 – E: 726631.8

LAT: 32.4640840° N
LONG: 103.7325457° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
10' FNL & 2310' FWL SEC.24
N: 535717.1 – E: 726617.9

LAT: 32.4713158° N
LONG: 103.7325427° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1916"
N: 519871.5 – E: 724389.8

B: FOUND BRASS CAP "1916"
N: 522511.4 – E: 724378.0

C: CALCULATED CORNER
N: 525151.6 – E: 724365.8

D: FOUND BRASS CAP "1916"
N: 527791.9 – E: 724353.4

E: FOUND BRASS CAP "1916"
N: 530431.4 – E: 724342.3

F: FOUND BRASS CAP "1916"
N: 533072.5 – E: 724324.7

G: FOUND BRASS CAP "1916"
N: 535713.9 – E: 724308.4

H: FOUND BRASS CAP "1916"
N: 535729.0 – E: 726947.8

I: FOUND BRASS CAP "1916"
N: 535744.5 – E: 729587.7

J: FOUND BRASS CAP "1916"
N: 530462.9 – E: 729617.1

K: FOUND BRASS CAP "1916"
N: 527819.1 – E: 729631.0

L: FOUND BRASS CAP "1916"
N: 525178.3 – E: 729646.0

M: FOUND BRASS CAP "1916"
N: 522537.3 – E: 729659.7

N: FOUND BRASS CAP "1916"
N: 519897.2 – E: 729673.3

O: FOUND BRASS CAP "1916"
N: 525164.9 – E: 727006.6

P: FOUND BRASS CAP "1916"
N: 530447.4 – E: 726980.1

JOB #: LS24070583D2

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

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 572193
	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.

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

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	14744
	Action Number: 572193
	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.	4/7/2026
mleal	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/7/2026
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