

Well Name: CANAL 20/19 FED COM	Well Location: T21S / R27E / SEC 20 / NENE / 32.4699353 / -104.2047142	County or Parish/State: EDDY / NM
Well Number: 853H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0354232	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001556355	Operator: MEWBOURNE OIL COMPANY	

Notice of Intent

Sundry ID: 2864104

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 07/18/2025	Time Sundry Submitted: 12:10
Date proposed operation will begin: 07/18/2025	

Procedure Description: Mewbourne Oil Company requests that the following changes be made to the Canal 20/19 Fed Com #853H (30-015-56355): • MOC requests to change the name of the Canal 20/19 Fed Com #853H to the Canal 20/19 Fed Com #853Y. • MOC requests to skid the Canal 20/19 Fed Com #853H f/ 1040 FNL & 355 FEL (20) to 940 FNL & 355 FEL (20). • Attached C-102 reflecting name change to Canal 20/19 Fed Com #853Y • Attached Dir Plan/Plot, Drlg Program, & C-102 reflecting requested changes to skid Canal 20/19 Fed Com #853H.

NOI Attachments

- Procedure Description
- Canal_20_19_Fed_Com_853H_Name_Skid_Sundry_20250718120933.pdf
 - CANAL_20_19_FED_COM_853Y_C102_20250718120933.pdf

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Conditions of Approval

Additional

CANAL_20_19_FED_COM_853H_Sundry_2864104_COA_20250728114136.pdf

Authorized

Canal_20_19_Fed_Com_853H_3160_003_20250728144316.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RYAN MCDANIEL	Signed on: JUL 18, 2025 12:09 PM
Name: MEWBOURNE OIL COMPANY	
Title: Engineer	
Street Address: 4801 BUSINESS PARK BLVD	
City: HOBBS	State: NM
Phone: (575) 393-5905	
Email address: RYANMCDANIEL@MEWBOURNE.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 07/28/2025
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No. ----- 30-015-57072
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NENE / 1040 FNL / 355 FEL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4699353 / LONG: -104.2047142 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 1810 FNL / 330 FEL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4677948 / LONG: -104.2046359 (TVD: 9301 feet, MD: 9487 feet)

PPP: NENW / 1810 FNL / 2625 FWL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4677022 / LONG: -104.2121038 (TVD: 9335 feet, MD: 11799 feet)

BHL: NWNW / 1810 FNL / 100 FWL / TWSP: 21S / RANGE: 27E / SECTION: 19 / LAT: 32.4673978 / LONG: -104.2364143 (TVD: 9245 feet, MD: 19298 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	CANAL 20/19 FED COM 853H
APD ID:	25SA09186
LOCATION:	Section 20, T21S, R27E. NMP.
COUNTY:	Eddy County, New Mexico ▼

Changes approved through engineering via skid **Sundry 2864104** on 7/28/2025. The P&A sundry# 2863147 was approved for the original well: CANAL 20/19 FED COM 853Y; API# 3001556355.

COA

H ₂ S	☐ No		☒ Yes	
Potash / WIPP	☒ None	☐ Secretary	☐ R-111-Q	☐ Open 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 ☐ Four-String	☐ Casing Clearance ☒ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☒ Break Testing

A. HYDROGEN SULFIDE

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

B. CASING

Note: Conductor pipe shall be set at approximately 225 ft. and cemented to surface.

Primary Casing Program

1. The 13-3/8 inch surface casing shall be set at approximately **950** ft. and cemented to the surface. Rustler is at the surface. BLM accepts Tansill/Yates formations for surface casing set depth. **If salt is encountered set casing at least 25 ft. above the salt.**

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified

- and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Note: The intermediate casing set depth was adjusted per BLM geologist's recommendation. The Capitan reef protection string shall be set 150 ft. above the base of Capitan.

2. The **9-5/8 inch 1st** intermediate casing shall be set in a competent bed at approximately **2,553 ft.** The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:

Option 1 (Single Stage): Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. *DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe.* Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef**.

Note: Excess cement for the 2nd stage is less than 25%. More cement might be needed.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
3. Operator has proposed to set 7" production casing at approximately **8,867 ft.** (8,786 ft. TVD). The minimum required fill of cement behind the 7 inch production casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.
4. The minimum required fill of cement behind the **4-1/2** inch production liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

Alternate Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **950 ft.** and cemented to the surface. Rustler is at the surface. BLM accepts Tansill/Yates formations for surface casing set depth. **If salt is encountered set casing at least 25 ft. above the salt.**
- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement

- and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Note: The intermediate casing set depth was adjusted per BLM geologist's recommendation. The Capitan reef protection string shall be set 150 ft. above the base of Capitan.

2. The 9-5/8 inch 1st intermediate casing shall be set in a competent bed at approximately **2,553 ft.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Option 1 (Single Stage): Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef.**

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. *DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe.* Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. **Second stage above DV tool: Cement to surface.** If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst, and Capitan Reef.**

Note: Excess cement for the 2nd stage is less than 25%. More cement might be needed.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Capitan Reef Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800

hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. Operator has proposed to set 7" production casing at approximately **9,550 ft.** (9,319 ft. TVD). The minimum required fill of cement behind the 7 inch production casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. **First stage to DV tool:** Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. **Second stage above DV tool:** Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, and Capitan Reef.
4. The minimum required fill of cement behind the **4-1/2 inch** production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

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 and API Standard 53**.

- 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 (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for 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.)**
- BOPE Break Testing is NOT permitted to drilling 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 **(575-689-5981 Lea 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**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained

the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 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

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends 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.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-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 07/28/2025



Mewbourne Oil Company

Sundry Request:

Mewbourne Oil Company requests that the following changes be made to the Canal 20/19 Fed Com #853H (30-015-56355):

- MOC requests to change the name of the Canal 20/19 Fed Com #853H to the Canal 20/19 Fed Com #853Y.
- MOC requests to skid the Canal 20/19 Fed Com #853H f/ 1040 FNL & 355 FEL (20) to 940 FNL & 355 FEL (20).
- Attached C-102 reflecting name change to Canal 20/19 Fed Com #853Y
- Attached Dir Plan/Plot, Drlg Program, & C-102 reflecting requested changes to skid Canal 20/19 Fed Com #853H.

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

WELL LOCATION INFORMATION

API Number 30-015-57072	Pool Code 74160	Pool Name CARLSBAD EAST WOLFCAMP GAS		
Property Code 337092	Property Name CANAL 20/19 FED COM		Well Number 853H	
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY		Ground Level Elevation 3207'	
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		

Surface Location

UL A	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 940 FNL	Ft. from E/W 355 FEL	Latitude 32.4702101°N	Longitude 104.2047139°W	County EDDY
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Bottom Hole Location

UL E	Section 19	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FWL	Latitude 32.4673708°N	Longitude 104.2371592°W	County EDDY
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Dedicated Acres 1269.92	Infill or Defining Well DEFINING WELL	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code COM
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL H	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 10 FEL	Latitude 32.4678090°N	Longitude 104.2035981°W	County EDDY
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First Take Point (FTP)

UL H	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FEL	Latitude 32.4678116°N	Longitude 104.2038898°W	County EDDY
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Last Take Point (LTP)

UL E	Section 19	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FWL	Latitude 32.4673708°N	Longitude 104.2371592°W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3235
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Ryan McDaniel</i> 7/18/25 Signature Date		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor <i>Robert M. Howett</i>	
Printed Name RyanMcDaniel@Mewbourne.com Email Address		Certificate Number 19680	Date of Survey 02/22/2024

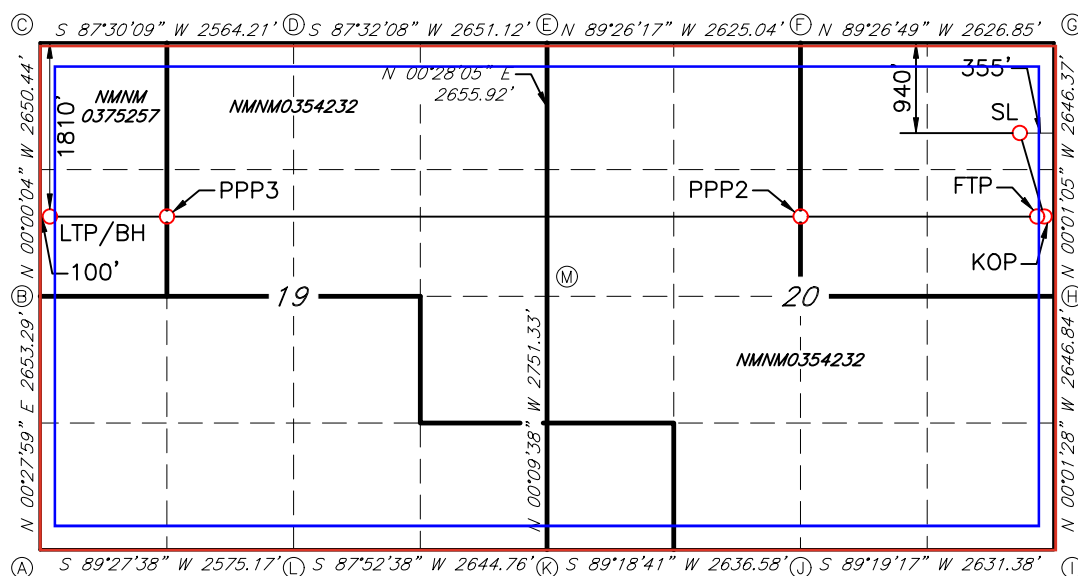
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

CANAL 20/19 FED COM #853H



GEODETTIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)
940' FNL & 355' FEL SEC.20
N: 534817.2 - E: 581003.2

LAT: 32.4702101° N
LONG: 104.2047139° W

KICK OFF POINT (KOP)
1810' FNL & 10' FEL SEC.20
N: 533944.1 - E: 581348.4

LAT: 32.4678090° N
LONG: 104.2035981° W

FIRST TAKE POINT (FTP)
1810' FNL & 100' FEL SEC.20
N: 533945.0 - E: 581258.4

LAT: 32.4678116° N
LONG: 104.2038898° W

PROPOSED PENETRATION POINT 2 (PPP2)
1877' FNL & 2628' FEL SEC.20
N: 533902.8 - E: 578730.7

LAT: 32.4677039° N
LONG: 104.2120859° W

PROPOSED PENETRATION POINT 3 (PPP3)
1841' FNL & 1235' FWL SEC.19
N: 533792.7 - E: 572131.3

LAT: 32.4674200° N
LONG: 104.2334848° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
1810' FNL & 100' FWL SEC.19
N: 533773.8 - E: 570998.1

LAT: 32.4673708° N
LONG: 104.2371592° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1943"
N: 530276.6 - E: 570876.7

B: FOUND BRASS CAP "1943"
N: 532929.2 - E: 570898.3

C: FOUND 1/2" IRON ROD
N: 535579.0 - E: 570898.2

D: FOUND BRASS CAP "1943"
N: 535690.7 - E: 573459.4

E: CALCULATED CORNER
N: 535804.7 - E: 576107.4

F: FOUND BRASS CAP "1943"
N: 535778.9 - E: 578731.7

G: FOUND BRASS CAP "1943"
N: 535753.6 - E: 581357.8

H: FOUND BRASS CAP "1943"
N: 533107.8 - E: 581358.6

I: FOUND BRASS CAP "1943"
N: 530461.6 - E: 581359.8

J: FOUND BRASS CAP "1943"
N: 530430.5 - E: 578729.2

K: FOUND BRASS CAP "1943"
N: 530398.8 - E: 576093.4

L: CALCULATED CORNER
N: 530300.8 - E: 573451.1

M: FOUND BRASS CAP "1943"
N: 533149.5 - E: 576085.7

JOB #: LS24020158R1

Mewbourne Oil Company, Canal 20/19 Fed Com 853H
Sec 20, T21S, R27E
SHL: 940' FNL 355' FEL (Sec 20)
BHL: 1810' FNL 330' FWL (Sec 19)

Well Location GL: 3207'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 940' FNL & 355' FEL (Sec 20)	Fee	NENE	20	21S	27E	Eddy	32.4702101	104.2047139	0'	0'
KOP	KOP: 1810' FNL & 10' FEL (Sec 20)	Fee	NENE	20	21S	27E	Eddy	32.4678090	104.2035981	8,787'	8,867'
FTP	FTP: 1810' FNL & 330' FEL (Sec 20)	Fee	NENE	20	21S	27E	Eddy	32.4678116	104.2038898	9,095'	9,193'
PPP2	PPP2: 1810' FNL & 2625' FWL (Sec 20)	NMNM0354232	NENW	20	21S	27E	Eddy	32.4677039	104.2120859	9,336'	11,813'
PPP3	PPP3: 1810' FNL & 1282' FWL (Sec 19)	NMNM0375257	NWNW	19	21S	27E	Eddy	32.4674200	104.2334848	9,258'	18,413'
BHL	BHL: 1810' FNL & 330' FWL (Sec 19)	NMNM0375257	NWNW	19	21S	27E	Eddy	32.4673708	104.2371592	9,245'	19,547'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	2703'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	275'	Salt	None	Bell Canyon			
Salt Base	590'	Salt	None	Cherry Canyon			
Yates	740'	Sandstone	Oil/Natural Gas	Manzanita Marker			
Seven Rivers				Basal Brushy Canyon			
Queen				Bone Spring	5105'	Limestone	Oil/Natural Gas
Capitan	1090'	Limestone/Dolomite	Usable Water	1st Bone Spring	6462'	Sandstone	Oil/Natural Gas
Grayburg				2nd Bone Spring	7165'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring	8500'	Sandstone	Oil/Natural Gas
Glorietta				Wolfcamp	8832'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	1.8 Wet	1.8 Wet
									SF Jt Tension	SF Body Tension
Surface	17.5'	0'	0'	950'	950'	13.375" 48# H40 STC	1.86	4.17	7.06	11.86
Int	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.44	2.50	4.75	5.91
Production	8.75'	0'	0'	8867'	8786'	7" 26# P110 LTC	1.42	2.27	3.01	3.60
Liner	6.125'	8667'	8587'	19547'	9360'	4.5" 13.5# P110 LTC	1.64	1.91	2.30	2.87

All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

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

Mewbourne Oil Company, Canal 20/19 Fed Com 853H

Sec 20, T21S, R27E

SHL: 940' FNL 355' FEL (Sec 20)

BHL: 1810' FNL 330' FWL (Sec 19)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft³/sack	TOC/BOC	Volume, ft³	% Excess	Slurry Description
13.375 in	LEAD	350	12.5	2.12	0' - 700'	750	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	700' - 950'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	170	12.5	2.12	1065' - 1984'	370	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1984' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	130	12.5	2.12	0' - 720'	280	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	720' - 1065'	0		Class C: Retarder
1st Stg 7 in	LEAD	130	12.5	2.12	5000' - 6440'	280	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6440' - 8867'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	8667' - 19547'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#	19,547'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Variance Request: A variance is requested for the use of a variable 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.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
0' - 950'	8.4	Fresh Water
950' - 2650'	10.2	Brine
2650' - 8867'	9.5	Cut-Brine
8867' - 19547'	11.5	OBM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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Mewbourne Oil Company, Canal 20/19 Fed Com 853H
Sec 20, T21S, R27E
SHL: 940' FNL 355' FEL (Sec 20)
BHL: 1810' FNL 330' FWL (Sec 19)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (8867') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Canal 20/19 Fed Com #851H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

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

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5597 psi
BH Temperature	165
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Canal 20/19 Fed Com 853H
Sec 20, T21S, R27E
SHL: 940' FNL 355' FEL (Sec 20)
BHL: 1810' FNL 330' FWL (Sec 19)

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B as described below. BLM will be notified of elected design.

Offline Cementing Variance: Variance is request to perform offline cementing according to the attached procedure.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	17.5'	0'	0'	950'	950'	13.375" 48# H40 STC	1.86	4.17	7.06	11.86
Int	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.44	2.50	4.75	5.91
Production	8.75'	0'	0'	9550'		7" 26# P110 LTC	1.32	2.11	2.79	3.34
Liner	6.125'	8867'	8786'	19547'	9360'	4.5" 13.5# P110 LTC	1.67	1.94	2.34	2.93

All casing strings will be tested in accordance with 43 CFR Part 3172. Must have table for contingency casing.

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

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft³/sack	TOC/BOC	Volume, ft³	% Excess	Slurry Description
13.375 in	LEAD	350	12.5	2.12	0' - 700'	750	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	700' - 950'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	170	12.5	2.12	1065' - 1984'	370	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1984' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	130	12.5	2.12	0' - 720'	280	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	720' - 1065'	0		Class C: Retarder
1st Stg 7 in	LEAD	190	12.5	2.12	5000' - 7115'	410	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	7115' - 9550'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	680	13.5	1.85	8867' - 19547'	1260	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Canal 20/19 Fed Com #853H

Sec 20, T21S, R27E

SHL: 940' FNL & 355' FEL (Sec 20)

BHL: 1810' FNL & 330' FWL (Sec 19)

Plan: Design #1

Standard Planning Report

18 July, 2025

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
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	Canal 20/19 Fed Com #853H		
Site Position:		Northing:	534,817.20 usft
From:	Map	Easting:	581,003.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.4702101
		Longitude:	-104.2047138

Well	Sec 20, T21S, R27E		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,235.0 usft
Grid Convergence:	0.07 °	Ground Level:	3,207.0 usft
		Latitude:	32.4702101
		Longitude:	-104.2047138

Wellbore	BHL: 1810' FNL & 330' FWL (Sec 19)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.46	60.22	48,317.68743816

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	264.05

Plan Survey Tool Program	Date	7/18/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,546.7	Design #1 (BHL: 1810' FNL & 330	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,504.0	10.08	158.43	3,501.4	-41.1	16.3	2.00	2.00	0.00	158.43	
8,363.2	10.08	158.43	8,285.6	-832.0	328.9	0.00	0.00	0.00	0.00	
8,867.2	0.00	0.00	8,787.0	-873.1	345.2	2.00	-2.00	0.00	180.00	KOP: 1810' FNL & 10
9,774.1	90.67	269.06	9,360.0	-882.6	-234.5	10.00	10.00	0.00	-90.94	
19,546.7	90.67	269.06	9,245.0	-1,043.4	-10,005.1	0.00	0.00	0.00	0.00	BHL: 1810' FNL & 330

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
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: 940' FNL & 355' FEL (Sec 20)									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	158.43	3,100.0	-1.6	0.6	-0.5	2.00	2.00	0.00
3,200.0	4.00	158.43	3,199.8	-6.5	2.6	-1.9	2.00	2.00	0.00
3,300.0	6.00	158.43	3,299.5	-14.6	5.8	-4.2	2.00	2.00	0.00
3,400.0	8.00	158.43	3,398.7	-25.9	10.3	-7.5	2.00	2.00	0.00
3,504.0	10.08	158.43	3,501.4	-41.1	16.3	-11.9	2.00	2.00	0.00
3,600.0	10.08	158.43	3,595.9	-56.7	22.4	-16.4	0.00	0.00	0.00
3,700.0	10.08	158.43	3,694.4	-73.0	28.9	-21.1	0.00	0.00	0.00
3,800.0	10.08	158.43	3,792.8	-89.3	35.3	-25.9	0.00	0.00	0.00
3,900.0	10.08	158.43	3,891.3	-105.6	41.7	-30.6	0.00	0.00	0.00
4,000.0	10.08	158.43	3,989.7	-121.8	48.2	-35.3	0.00	0.00	0.00
4,100.0	10.08	158.43	4,088.2	-138.1	54.6	-40.0	0.00	0.00	0.00
4,200.0	10.08	158.43	4,186.7	-154.4	61.0	-44.7	0.00	0.00	0.00
4,300.0	10.08	158.43	4,285.1	-170.7	67.5	-49.4	0.00	0.00	0.00
4,400.0	10.08	158.43	4,383.6	-187.0	73.9	-54.1	0.00	0.00	0.00
4,500.0	10.08	158.43	4,482.0	-203.2	80.4	-58.8	0.00	0.00	0.00
4,600.0	10.08	158.43	4,580.5	-219.5	86.8	-63.5	0.00	0.00	0.00
4,700.0	10.08	158.43	4,678.9	-235.8	93.2	-68.3	0.00	0.00	0.00
4,800.0	10.08	158.43	4,777.4	-252.1	99.7	-73.0	0.00	0.00	0.00
4,900.0	10.08	158.43	4,875.9	-268.3	106.1	-77.7	0.00	0.00	0.00
5,000.0	10.08	158.43	4,974.3	-284.6	112.5	-82.4	0.00	0.00	0.00
5,100.0	10.08	158.43	5,072.8	-300.9	119.0	-87.1	0.00	0.00	0.00
5,200.0	10.08	158.43	5,171.2	-317.2	125.4	-91.8	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
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)
5,300.0	10.08	158.43	5,269.7	-333.4	131.8	-96.5	0.00	0.00	0.00
5,400.0	10.08	158.43	5,368.1	-349.7	138.3	-101.2	0.00	0.00	0.00
5,500.0	10.08	158.43	5,466.6	-366.0	144.7	-106.0	0.00	0.00	0.00
5,600.0	10.08	158.43	5,565.1	-382.3	151.1	-110.7	0.00	0.00	0.00
5,700.0	10.08	158.43	5,663.5	-398.5	157.6	-115.4	0.00	0.00	0.00
5,800.0	10.08	158.43	5,762.0	-414.8	164.0	-120.1	0.00	0.00	0.00
5,900.0	10.08	158.43	5,860.4	-431.1	170.4	-124.8	0.00	0.00	0.00
6,000.0	10.08	158.43	5,958.9	-447.4	176.9	-129.5	0.00	0.00	0.00
6,100.0	10.08	158.43	6,057.3	-463.6	183.3	-134.2	0.00	0.00	0.00
6,200.0	10.08	158.43	6,155.8	-479.9	189.7	-138.9	0.00	0.00	0.00
6,300.0	10.08	158.43	6,254.3	-496.2	196.2	-143.7	0.00	0.00	0.00
6,400.0	10.08	158.43	6,352.7	-512.5	202.6	-148.4	0.00	0.00	0.00
6,500.0	10.08	158.43	6,451.2	-528.7	209.0	-153.1	0.00	0.00	0.00
6,600.0	10.08	158.43	6,549.6	-545.0	215.5	-157.8	0.00	0.00	0.00
6,700.0	10.08	158.43	6,648.1	-561.3	221.9	-162.5	0.00	0.00	0.00
6,800.0	10.08	158.43	6,746.5	-577.6	228.4	-167.2	0.00	0.00	0.00
6,900.0	10.08	158.43	6,845.0	-593.8	234.8	-171.9	0.00	0.00	0.00
7,000.0	10.08	158.43	6,943.4	-610.1	241.2	-176.6	0.00	0.00	0.00
7,100.0	10.08	158.43	7,041.9	-626.4	247.7	-181.3	0.00	0.00	0.00
7,200.0	10.08	158.43	7,140.4	-642.7	254.1	-186.1	0.00	0.00	0.00
7,300.0	10.08	158.43	7,238.8	-658.9	260.5	-190.8	0.00	0.00	0.00
7,400.0	10.08	158.43	7,337.3	-675.2	267.0	-195.5	0.00	0.00	0.00
7,500.0	10.08	158.43	7,435.7	-691.5	273.4	-200.2	0.00	0.00	0.00
7,600.0	10.08	158.43	7,534.2	-707.8	279.8	-204.9	0.00	0.00	0.00
7,700.0	10.08	158.43	7,632.6	-724.0	286.3	-209.6	0.00	0.00	0.00
7,800.0	10.08	158.43	7,731.1	-740.3	292.7	-214.3	0.00	0.00	0.00
7,900.0	10.08	158.43	7,829.6	-756.6	299.1	-219.0	0.00	0.00	0.00
8,000.0	10.08	158.43	7,928.0	-772.9	305.6	-223.8	0.00	0.00	0.00
8,100.0	10.08	158.43	8,026.5	-789.1	312.0	-228.5	0.00	0.00	0.00
8,200.0	10.08	158.43	8,124.9	-805.4	318.4	-233.2	0.00	0.00	0.00
8,300.0	10.08	158.43	8,223.4	-821.7	324.9	-237.9	0.00	0.00	0.00
8,363.2	10.08	158.43	8,285.6	-832.0	328.9	-240.9	0.00	0.00	0.00
8,400.0	9.34	158.43	8,321.9	-837.8	331.2	-242.5	2.00	-2.00	0.00
8,500.0	7.34	158.43	8,420.8	-851.2	336.6	-246.4	2.00	-2.00	0.00
8,600.0	5.34	158.43	8,520.2	-861.5	340.6	-249.4	2.00	-2.00	0.00
8,700.0	3.34	158.43	8,619.9	-868.6	343.4	-251.5	2.00	-2.00	0.00
8,800.0	1.34	158.43	8,719.8	-872.4	344.9	-252.6	2.00	-2.00	0.00
8,867.2	0.00	0.00	8,787.0	-873.1	345.2	-252.8	2.00	-2.00	0.00
KOP: 1810' FNL & 10' FEL (Sec 20)									
8,900.0	3.28	269.06	8,819.8	-873.1	344.3	-251.8	10.00	10.00	0.00
8,950.0	8.28	269.06	8,869.5	-873.2	339.2	-246.8	10.00	10.00	0.00
9,000.0	13.28	269.06	8,918.6	-873.4	329.9	-237.5	10.00	10.00	0.00
9,050.0	18.28	269.06	8,966.7	-873.6	316.3	-224.0	10.00	10.00	0.00
9,100.0	23.28	269.06	9,013.5	-873.9	298.6	-206.3	10.00	10.00	0.00
9,150.0	28.28	269.06	9,058.5	-874.2	276.8	-184.7	10.00	10.00	0.00
9,192.7	32.55	269.06	9,095.3	-874.6	255.2	-163.1	10.00	10.00	0.00
FTP: 1810' FNL & 330' FEL (Sec 20)									
9,200.0	33.28	269.06	9,101.4	-874.6	251.3	-159.2	10.00	10.00	0.00
9,250.0	38.28	269.06	9,142.0	-875.1	222.0	-130.1	10.00	10.00	0.00
9,300.0	43.27	269.06	9,179.8	-875.7	189.4	-97.5	10.00	10.00	0.00
9,350.0	48.27	269.06	9,214.7	-876.3	153.6	-61.9	10.00	10.00	0.00
9,400.0	53.27	269.06	9,246.3	-876.9	114.9	-23.3	10.00	10.00	0.00
9,450.0	58.27	269.06	9,274.4	-877.6	73.5	17.9	10.00	10.00	0.00
9,500.0	63.27	269.06	9,298.8	-878.3	29.9	61.3	10.00	10.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,550.0	68.27	269.06	9,319.3	-879.0	-15.6	106.7	10.00	10.00	0.00
9,600.0	73.27	269.06	9,335.8	-879.8	-62.8	153.8	10.00	10.00	0.00
9,650.0	78.27	269.06	9,348.1	-880.6	-111.3	202.0	10.00	10.00	0.00
9,700.0	83.27	269.06	9,356.1	-881.4	-160.6	251.2	10.00	10.00	0.00
9,750.0	88.27	269.06	9,359.8	-882.2	-210.4	300.8	10.00	10.00	0.00
9,767.5	90.01	269.06	9,360.0	-882.5	-227.9	318.2	10.00	10.00	0.00
LP: 1810' FNL & 583' FEL (Sec 20)									
9,774.1	90.67	269.06	9,360.0	-882.6	-234.5	324.8	10.00	10.00	0.00
9,800.0	90.67	269.06	9,359.7	-883.1	-260.4	350.6	0.00	0.00	0.00
9,900.0	90.67	269.06	9,358.5	-884.7	-360.4	450.2	0.00	0.00	0.00
10,000.0	90.67	269.06	9,357.3	-886.4	-460.4	549.9	0.00	0.00	0.00
10,100.0	90.67	269.06	9,356.2	-888.0	-560.4	649.5	0.00	0.00	0.00
10,200.0	90.67	269.06	9,355.0	-889.6	-660.4	749.1	0.00	0.00	0.00
10,300.0	90.67	269.06	9,353.8	-891.3	-760.3	848.7	0.00	0.00	0.00
10,400.0	90.67	269.06	9,352.6	-892.9	-860.3	948.3	0.00	0.00	0.00
10,500.0	90.67	269.06	9,351.5	-894.6	-960.3	1,047.9	0.00	0.00	0.00
10,600.0	90.67	269.06	9,350.3	-896.2	-1,060.3	1,147.5	0.00	0.00	0.00
10,700.0	90.67	269.06	9,349.1	-897.9	-1,160.3	1,247.1	0.00	0.00	0.00
10,800.0	90.67	269.06	9,347.9	-899.5	-1,260.2	1,346.7	0.00	0.00	0.00
10,900.0	90.67	269.06	9,346.8	-901.2	-1,360.2	1,446.3	0.00	0.00	0.00
11,000.0	90.67	269.06	9,345.6	-902.8	-1,460.2	1,546.0	0.00	0.00	0.00
11,100.0	90.67	269.06	9,344.4	-904.5	-1,560.2	1,645.6	0.00	0.00	0.00
11,200.0	90.67	269.06	9,343.2	-906.1	-1,660.2	1,745.2	0.00	0.00	0.00
11,300.0	90.67	269.06	9,342.0	-907.7	-1,760.1	1,844.8	0.00	0.00	0.00
11,400.0	90.67	269.06	9,340.9	-909.4	-1,860.1	1,944.4	0.00	0.00	0.00
11,500.0	90.67	269.06	9,339.7	-911.0	-1,960.1	2,044.0	0.00	0.00	0.00
11,600.0	90.67	269.06	9,338.5	-912.7	-2,060.1	2,143.6	0.00	0.00	0.00
11,700.0	90.67	269.06	9,337.3	-914.3	-2,160.0	2,243.2	0.00	0.00	0.00
11,800.0	90.67	269.06	9,336.2	-916.0	-2,260.0	2,342.8	0.00	0.00	0.00
11,812.5	90.67	269.06	9,336.0	-916.2	-2,272.5	2,355.3	0.00	0.00	0.00
PPP2: 1810' FNL & 2625' FWL (Sec 20)									
11,900.0	90.67	269.06	9,335.0	-917.6	-2,360.0	2,442.5	0.00	0.00	0.00
12,000.0	90.67	269.06	9,333.8	-919.3	-2,460.0	2,542.1	0.00	0.00	0.00
12,100.0	90.67	269.06	9,332.6	-920.9	-2,560.0	2,641.7	0.00	0.00	0.00
12,200.0	90.67	269.06	9,331.5	-922.5	-2,659.9	2,741.3	0.00	0.00	0.00
12,300.0	90.67	269.06	9,330.3	-924.2	-2,759.9	2,840.9	0.00	0.00	0.00
12,400.0	90.67	269.06	9,329.1	-925.8	-2,859.9	2,940.5	0.00	0.00	0.00
12,500.0	90.67	269.06	9,327.9	-927.5	-2,959.9	3,040.1	0.00	0.00	0.00
12,600.0	90.67	269.06	9,326.7	-929.1	-3,059.9	3,139.7	0.00	0.00	0.00
12,700.0	90.67	269.06	9,325.6	-930.8	-3,159.8	3,239.3	0.00	0.00	0.00
12,800.0	90.67	269.06	9,324.4	-932.4	-3,259.8	3,339.0	0.00	0.00	0.00
12,900.0	90.67	269.06	9,323.2	-934.1	-3,359.8	3,438.6	0.00	0.00	0.00
13,000.0	90.67	269.06	9,322.0	-935.7	-3,459.8	3,538.2	0.00	0.00	0.00
13,100.0	90.67	269.06	9,320.9	-937.4	-3,559.8	3,637.8	0.00	0.00	0.00
13,200.0	90.67	269.06	9,319.7	-939.0	-3,659.7	3,737.4	0.00	0.00	0.00
13,300.0	90.67	269.06	9,318.5	-940.6	-3,759.7	3,837.0	0.00	0.00	0.00
13,400.0	90.67	269.06	9,317.3	-942.3	-3,859.7	3,936.6	0.00	0.00	0.00
13,500.0	90.67	269.06	9,316.2	-943.9	-3,959.7	4,036.2	0.00	0.00	0.00
13,600.0	90.67	269.06	9,315.0	-945.6	-4,059.7	4,135.8	0.00	0.00	0.00
13,700.0	90.67	269.06	9,313.8	-947.2	-4,159.6	4,235.5	0.00	0.00	0.00
13,800.0	90.67	269.06	9,312.6	-948.9	-4,259.6	4,335.1	0.00	0.00	0.00
13,900.0	90.67	269.06	9,311.4	-950.5	-4,359.6	4,434.7	0.00	0.00	0.00
14,000.0	90.67	269.06	9,310.3	-952.2	-4,459.6	4,534.3	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
Design:	Design #1		

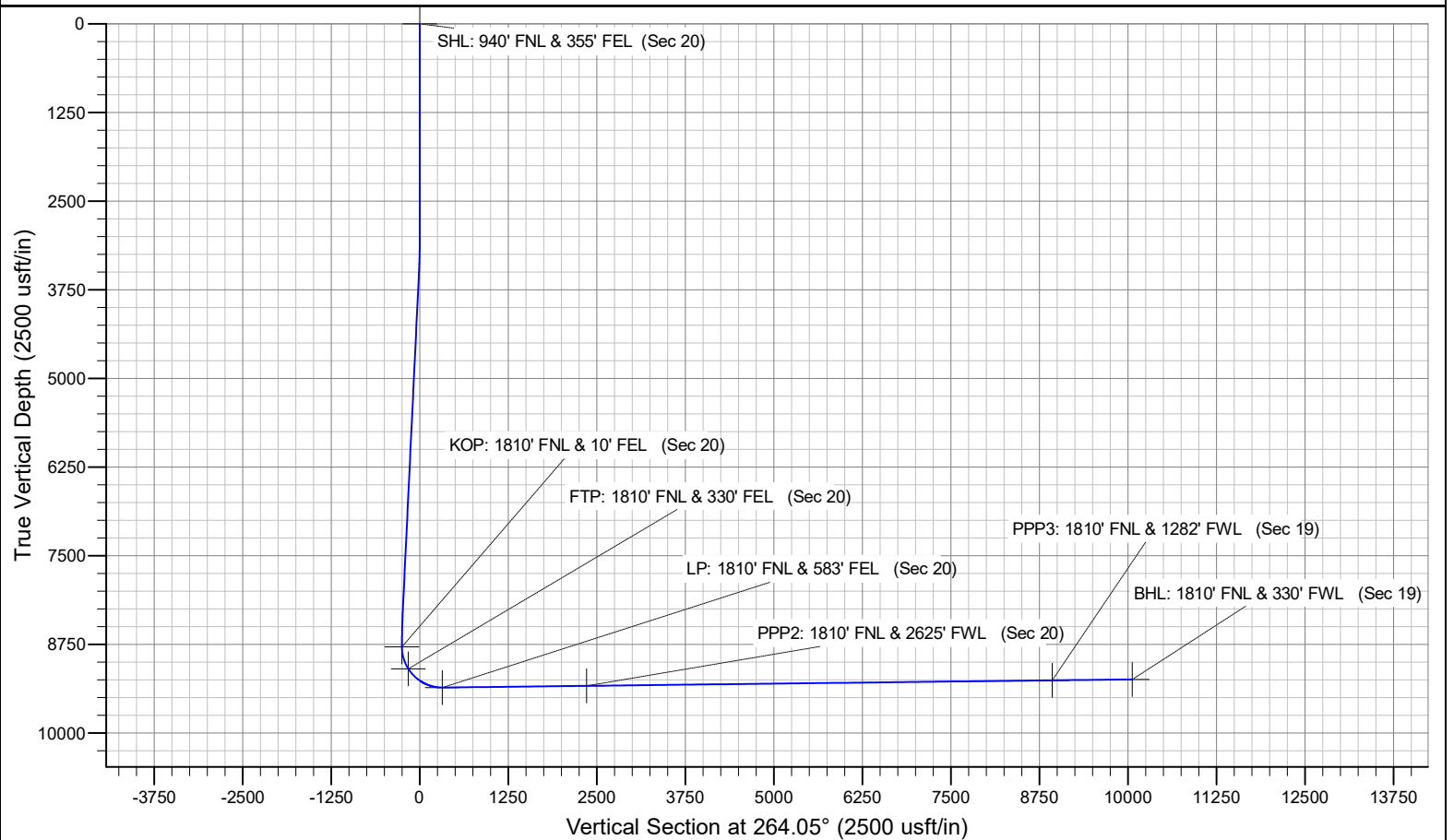
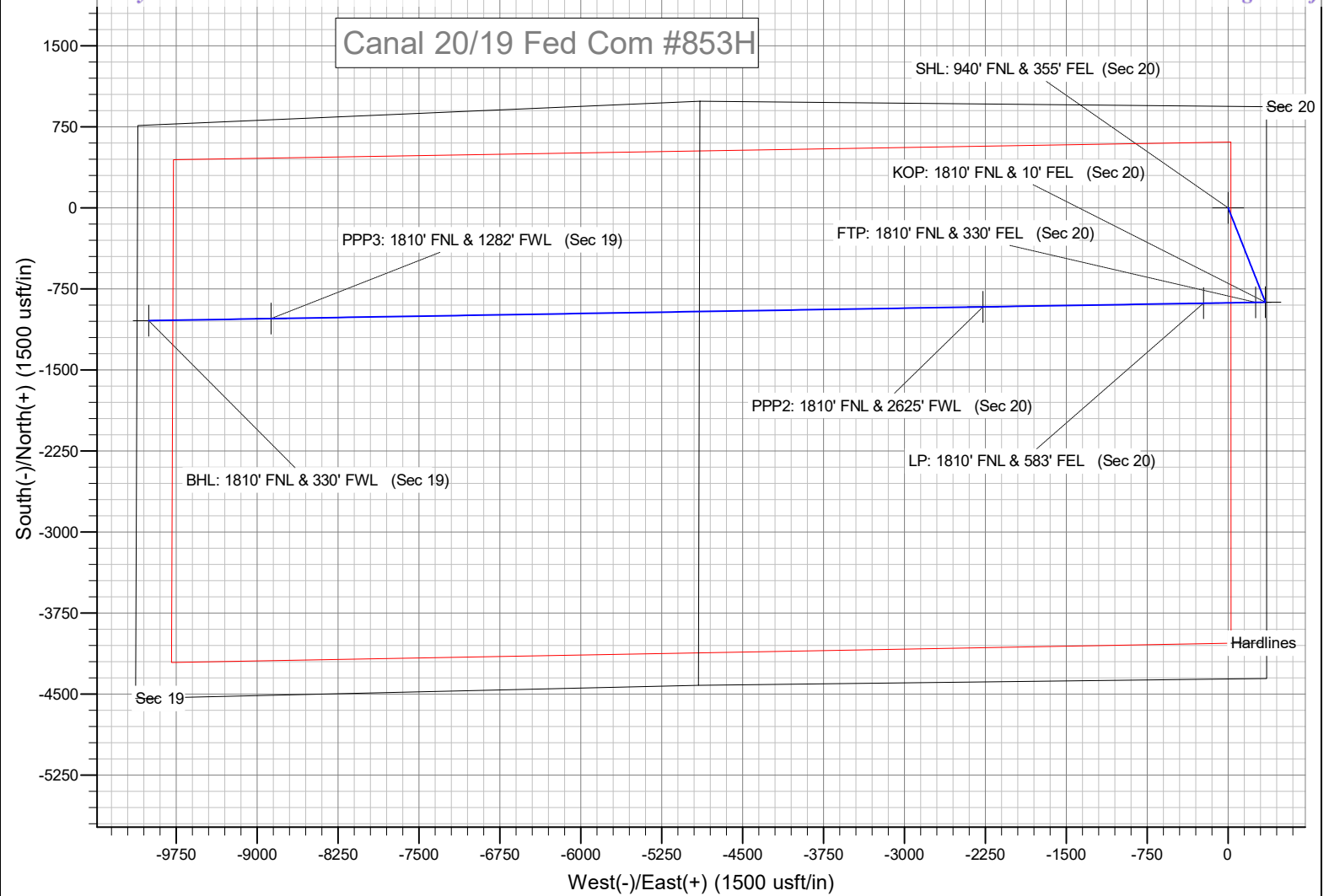
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	90.67	269.06	9,309.1	-953.8	-4,559.6	4,633.9	0.00	0.00	0.00
14,200.0	90.67	269.06	9,307.9	-955.4	-4,659.5	4,733.5	0.00	0.00	0.00
14,300.0	90.67	269.06	9,306.7	-957.1	-4,759.5	4,833.1	0.00	0.00	0.00
14,400.0	90.67	269.06	9,305.6	-958.7	-4,859.5	4,932.7	0.00	0.00	0.00
14,500.0	90.67	269.06	9,304.4	-960.4	-4,959.5	5,032.3	0.00	0.00	0.00
14,600.0	90.67	269.06	9,303.2	-962.0	-5,059.5	5,132.0	0.00	0.00	0.00
14,700.0	90.67	269.06	9,302.0	-963.7	-5,159.4	5,231.6	0.00	0.00	0.00
14,800.0	90.67	269.06	9,300.9	-965.3	-5,259.4	5,331.2	0.00	0.00	0.00
14,900.0	90.67	269.06	9,299.7	-967.0	-5,359.4	5,430.8	0.00	0.00	0.00
15,000.0	90.67	269.06	9,298.5	-968.6	-5,459.4	5,530.4	0.00	0.00	0.00
15,100.0	90.67	269.06	9,297.3	-970.3	-5,559.4	5,630.0	0.00	0.00	0.00
15,200.0	90.67	269.06	9,296.1	-971.9	-5,659.3	5,729.6	0.00	0.00	0.00
15,300.0	90.67	269.06	9,295.0	-973.5	-5,759.3	5,829.2	0.00	0.00	0.00
15,400.0	90.67	269.06	9,293.8	-975.2	-5,859.3	5,928.8	0.00	0.00	0.00
15,500.0	90.67	269.06	9,292.6	-976.8	-5,959.3	6,028.4	0.00	0.00	0.00
15,600.0	90.67	269.06	9,291.4	-978.5	-6,059.3	6,128.1	0.00	0.00	0.00
15,700.0	90.67	269.06	9,290.3	-980.1	-6,159.2	6,227.7	0.00	0.00	0.00
15,800.0	90.67	269.06	9,289.1	-981.8	-6,259.2	6,327.3	0.00	0.00	0.00
15,900.0	90.67	269.06	9,287.9	-983.4	-6,359.2	6,426.9	0.00	0.00	0.00
16,000.0	90.67	269.06	9,286.7	-985.1	-6,459.2	6,526.5	0.00	0.00	0.00
16,100.0	90.67	269.06	9,285.6	-986.7	-6,559.1	6,626.1	0.00	0.00	0.00
16,200.0	90.67	269.06	9,284.4	-988.3	-6,659.1	6,725.7	0.00	0.00	0.00
16,300.0	90.67	269.06	9,283.2	-990.0	-6,759.1	6,825.3	0.00	0.00	0.00
16,400.0	90.67	269.06	9,282.0	-991.6	-6,859.1	6,924.9	0.00	0.00	0.00
16,500.0	90.67	269.06	9,280.9	-993.3	-6,959.1	7,024.6	0.00	0.00	0.00
16,600.0	90.67	269.06	9,279.7	-994.9	-7,059.0	7,124.2	0.00	0.00	0.00
16,700.0	90.67	269.06	9,278.5	-996.6	-7,159.0	7,223.8	0.00	0.00	0.00
16,800.0	90.67	269.06	9,277.3	-998.2	-7,259.0	7,323.4	0.00	0.00	0.00
16,900.0	90.67	269.06	9,276.1	-999.9	-7,359.0	7,423.0	0.00	0.00	0.00
17,000.0	90.67	269.06	9,275.0	-1,001.5	-7,459.0	7,522.6	0.00	0.00	0.00
17,100.0	90.67	269.06	9,273.8	-1,003.2	-7,558.9	7,622.2	0.00	0.00	0.00
17,200.0	90.67	269.06	9,272.6	-1,004.8	-7,658.9	7,721.8	0.00	0.00	0.00
17,300.0	90.67	269.06	9,271.4	-1,006.4	-7,758.9	7,821.4	0.00	0.00	0.00
17,400.0	90.67	269.06	9,270.3	-1,008.1	-7,858.9	7,921.1	0.00	0.00	0.00
17,500.0	90.67	269.06	9,269.1	-1,009.7	-7,958.9	8,020.7	0.00	0.00	0.00
17,600.0	90.67	269.06	9,267.9	-1,011.4	-8,058.8	8,120.3	0.00	0.00	0.00
17,700.0	90.67	269.06	9,266.7	-1,013.0	-8,158.8	8,219.9	0.00	0.00	0.00
17,800.0	90.67	269.06	9,265.6	-1,014.7	-8,258.8	8,319.5	0.00	0.00	0.00
17,900.0	90.67	269.06	9,264.4	-1,016.3	-8,358.8	8,419.1	0.00	0.00	0.00
18,000.0	90.67	269.06	9,263.2	-1,018.0	-8,458.8	8,518.7	0.00	0.00	0.00
18,100.0	90.67	269.06	9,262.0	-1,019.6	-8,558.7	8,618.3	0.00	0.00	0.00
18,200.0	90.67	269.06	9,260.8	-1,021.2	-8,658.7	8,717.9	0.00	0.00	0.00
18,300.0	90.67	269.06	9,259.7	-1,022.9	-8,758.7	8,817.6	0.00	0.00	0.00
18,400.0	90.67	269.06	9,258.5	-1,024.5	-8,858.7	8,917.2	0.00	0.00	0.00
18,413.2	90.67	269.06	9,258.3	-1,024.8	-8,871.9	8,930.3	0.00	0.00	0.00
PPP3: 1810' FNL & 1282' FWL (Sec 19)									
18,500.0	90.67	269.06	9,257.3	-1,026.2	-8,958.7	9,016.8	0.00	0.00	0.00
18,600.0	90.67	269.06	9,256.1	-1,027.8	-9,058.6	9,116.4	0.00	0.00	0.00
18,700.0	90.67	269.06	9,255.0	-1,029.5	-9,158.6	9,216.0	0.00	0.00	0.00
18,800.0	90.67	269.06	9,253.8	-1,031.1	-9,258.6	9,315.6	0.00	0.00	0.00
18,900.0	90.67	269.06	9,252.6	-1,032.8	-9,358.6	9,415.2	0.00	0.00	0.00
19,000.0	90.67	269.06	9,251.4	-1,034.4	-9,458.6	9,514.8	0.00	0.00	0.00
19,100.0	90.67	269.06	9,250.3	-1,036.1	-9,558.5	9,614.4	0.00	0.00	0.00
19,200.0	90.67	269.06	9,249.1	-1,037.7	-9,658.5	9,714.1	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Canal 20/19 Fed Com #853H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3235.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3235.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #853H	North Reference:	Grid
Well:	Sec 20, T21S, R27E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1810' FNL & 330' FWL (Sec 19)		
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)	
19,300.0	90.67	269.06	9,247.9	-1,039.3	-9,758.5	9,813.7	0.00	0.00	0.00	
19,400.0	90.67	269.06	9,246.7	-1,041.0	-9,858.5	9,913.3	0.00	0.00	0.00	
19,500.0	90.67	269.06	9,245.5	-1,042.6	-9,958.5	10,012.9	0.00	0.00	0.00	
19,546.7	90.67	269.06	9,245.0	-1,043.4	-10,005.1	10,059.4	0.00	0.00	0.00	
BHL: 1810' FNL & 330' FWL (Sec 19)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL: 940' FNL & 355' FE	0.00	0.00	0.0	0.0	0.0	534,817.20	581,003.20	32.4702101	-104.2047138	
- plan hits target center										
- Point										
KOP: 1810' FNL & 10' FI	0.00	0.00	8,787.0	-873.1	345.2	533,944.10	581,348.40	32.4678090	-104.2035979	
- plan hits target center										
- Point										
FTP: 1810' FNL & 330' F	0.00	0.00	9,095.3	-874.6	255.2	533,942.62	581,258.40	32.4678052	-104.2038898	
- plan hits target center										
- Point										
BHL: 1810' FNL & 330' F	0.00	0.00	9,245.0	-1,043.4	-10,005.1	533,773.80	570,998.10	32.4673709	-104.2371592	
- plan hits target center										
- Point										
PPP3: 1810' FNL & 128'	0.00	0.01	9,258.3	-1,024.8	-8,871.9	533,792.45	572,131.30	32.4674193	-104.2334848	
- plan hits target center										
- Point										
PPP2: 1810' FNL & 262'	0.00	0.00	9,336.0	-916.2	-2,272.5	533,901.03	578,730.70	32.4676990	-104.2120860	
- plan hits target center										
- Point										
LP: 1810' FNL & 583' FE	0.00	0.00	9,360.0	-882.5	-227.9	533,934.67	580,775.30	32.4677849	-104.2054563	
- plan hits target center										
- Point										



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

WELL LOCATION INFORMATION

API Number 30-015-56355	Pool Code 74160	Pool Name CARLSBAD EAST WOLFCAMP GAS
Property Code	Property Name CANAL 20/19 FED COM	Well Number 853Y
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3207'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL A	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 1040 FNL	Ft. from E/W 355 FEL	Latitude 32.4699353°N	Longitude 104.2047142°W	County EDDY
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Bottom Hole Location

UL E	Section 19	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FWL	Latitude 32.4673708°N	Longitude 104.2371592°W	County EDDY
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Dedicated Acres 1269.92	Infill or Defining Well DEFINING WELL	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code COM
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☒ No	

Kick Off Point (KOP)

UL H	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 10 FEL	Latitude 32.4678090°N	Longitude 104.2035981°W	County EDDY
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First Take Point (FTP)

UL H	Section 20	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FEL	Latitude 32.4678116°N	Longitude 104.2038898°W	County EDDY
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Last Take Point (LTP)

UL E	Section 19	Township 21S	Range 27E	Lot	Ft. from N/S 1810 FNL	Ft. from E/W 100 FWL	Latitude 32.4673708 N	Longitude 104.2371592 W	County Eddy
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3235
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> <i>Ryan McDaniel</i> 3/18/25		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my belief.</i> 	
Signature Ryan McDaniel		Signature and Seal of Professional Surveyor <i>Robert M. Howett</i>	
Printed Name RyanMcDaniel@Mewbourne.com		Certificate Number 19680	Date of Survey 02/22/2024
Email Address			

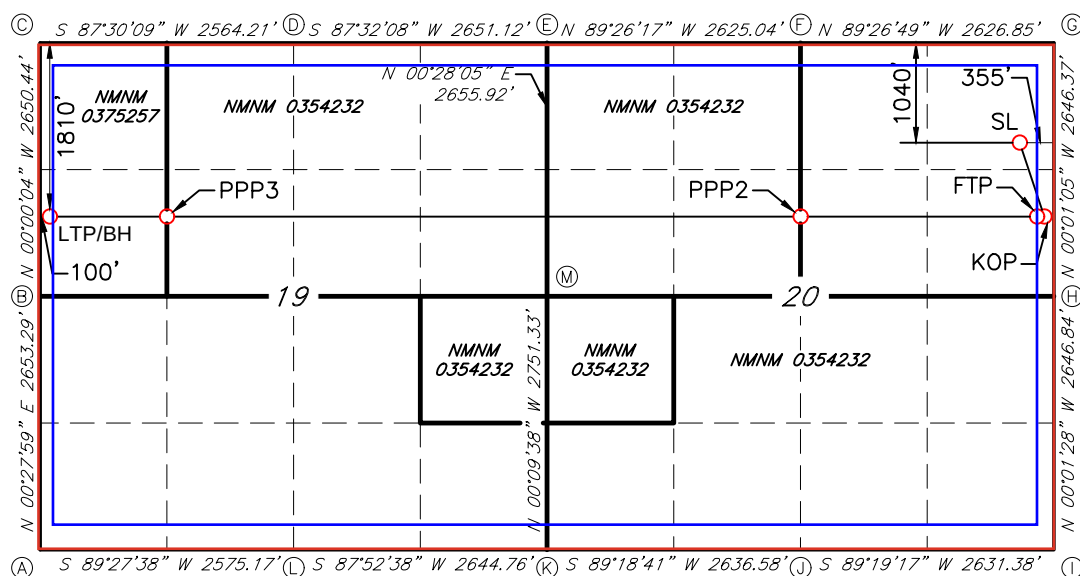
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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

CANAL 20/19 FED COM #853Y

GEODETTIC DATA

NAD 83 GRID - NM EAST

SURFACE LOCATION (SL)

N: 534717.2 - E: 581003.2

LAT: 32.4699353° N
LONG: 104.2047142° WKICK OFF POINT (KOP)

N: 533944.1 - E: 581348.4

LAT: 32.4678090° N
LONG: 104.2035981° WFIRST TAKE POINT (FTP)

N: 533945.0 - E: 581258.4

LAT: 32.4678116° N
LONG: 104.2038898° WPROPOSED PENETRATION POINT 2 (PPP2)

1877' FNL - 2628' FEL (SEC.20)

N: 533902.8 - E: 578730.7

LAT: 32.4677039° N
LONG: 104.2120859° WPROPOSED PENETRATION POINT 3 (PPP3)

1841' FNL - 1235' FWL (SEC.19)

N: 533792.7 - E: 572131.3

LAT: 32.4674200° N
LONG: 104.2334848° WLTP/ BOTTOM HOLE (BH)

N: 533773.8 - E: 570998.1

LAT: 32.4673708° N
LONG: 104.2371592° WCORNER DATA

NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1943"

N: 530276.6 - E: 570876.7

B: FOUND BRASS CAP "1943"

N: 532929.2 - E: 570898.3

C: FOUND 1/2" IRON ROD

N: 535579.0 - E: 570898.2

D: FOUND BRASS CAP "1943"

N: 535690.7 - E: 573459.4

E: CALCULATED CORNER

N: 535804.7 - E: 576107.4

F: FOUND BRASS CAP "1943"

N: 535778.9 - E: 578731.7

G: FOUND BRASS CAP "1943"

N: 535753.6 - E: 581357.8

H: FOUND BRASS CAP "1943"

N: 533107.8 - E: 581358.6

I: FOUND BRASS CAP "1943"

N: 530461.6 - E: 581359.8

J: FOUND BRASS CAP "1943"

N: 530430.5 - E: 578729.2

K: FOUND BRASS CAP "1943"

N: 530398.8 - E: 576093.4

L: CALCULATED CORNER

N: 530300.8 - E: 573451.1

M: FOUND BRASS CAP "1943"

N: 533149.5 - E: 576085.7

JOB #: LS24020158D2

Form 3160-3
(October 2024)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No.
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature <i>Ryan McDaniel</i>	Name (Printed/Typed)	Date
Title		

Approved by (Signature)	Name (Printed/Typed)	Date 7/28/2025
Title Sup PE	Office CFO	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

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. As of May 13, 2017, and pursuant to 43 CFR § 3171.5, operators must file this form and associated documents using the Bureau of Land Management's electronic commerce application, the Automated Fluid Minerals Support System (AFMSS). <https://afmss.blm.gov/afmss-gateway-ui/>

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

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

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

ITEMS 15 AND 18: If well is to be, or has been direction any 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.

NOTICES

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

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

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

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

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

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

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

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

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

Action 490501

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 490501
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	7/30/2025