

Well Name: FULL TILT 18/7 FED	Well Location: T26S / R30E / SEC 18 / TR O / 32.036816 / -103.916577	County or Parish/State: EDDY / NM
Well Number: 878H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM31649	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001553489	Operator: MEWBOURNE OIL COMPANY	

Notice of Intent

Sundry ID: 2857624

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/11/2025

Time Sundry Submitted: 03:44

Date proposed operation will begin: 06/11/2025

Procedure Description: Sundry Request: Mewbourne Oil Company request that the following change be made to the Full Tilt 18/7 Fed #878H (API #30-015-53489): 1. Change SHL f/ 590' FSL & 1407' FEL, Sec 18, T26S R30E, Eddy Co., NM to 280' FSL & 1340' FEL, Sec 18, T26S R30E, Eddy Co., NM. 2. Change BHL f/ 2560' FSL & 1210' FEL, Sec 7, T26S R30E, Eddy Co., NM to 2330' FSL & 500' FEL, Sec 7, T26S R30E, Eddy Co., NM 3. Change pool name and code f/ RED HILLS; UPPER BONE SPRING SHALE [97900] to PURPLE SAGE; WOLFCAMP (GAS) [98220] 4. Adjust casing, cement, directional plan, and drilling program as detailed in respective attachments. Attached is updated C102, CsgAssumptions, Dir Plan, Dir Plot, Drilling Program.

NOI Attachments

Procedure Description

Full_Tilt_18_7_Fed__878H_CsgAssumptions_20250611154352.pdf

FULL_TILT_18_7_FED_878H_C102_20250611154352.pdf

FULL_TILT_18_7_FED_878H_Dir_Plan_20250611154353.pdf

FULL_TILT_18_7_FED_878H_Dir_Plot_20250611154352.pdf

Full_Tilt_18_7_Fed__878H_Drlg_Program_20250611154352.pdf

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TR O / 32.036816 / -103.916577County or Parish/State: EDDY /
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US Well Number: 3001553489

Operator: MEWBOURNE OIL
COMPANY

Conditions of Approval

Additional

FULL_TILT_18_7_FED_878H_Sundry_2857624_COA_20250710121947.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: BRETT MILLER

Signed on: JUN 11, 2025 03:44 PM

Name: MEWBOURNE OIL COMPANY

Title: ENGINEER

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS State: NM

Phone: (505) 280-6768

Email address: BRETT.MILLER@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: 07/22/2025

Signature: Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**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.FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUBMIT IN TRIPPLICATE - Other instructions on page 2			5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name
2. Name of Operator			7. If Unit of CA/Agreement, Name and/or No.
3a. Address		3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.R.M., or Survey Description)			9. API Well No.
			10. Field and Pool or Exploratory Area
			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				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplete 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 performed 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 determined 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: TR O / 590 FSL / 1407 FEL / TWSP: 26S / RANGE: 30E / SECTION: 18 / LAT: 32.036816 / LONG: -103.916577 (TVD: 0 feet, MD: 0 feet)
PPP: TR P / 100 FSL / 1210 FEL / TWSP: 26S / RANGE: 30E / SECTION: 18 / LAT: 32.035472 / LONG: -103.915944 (TVD: 7616 feet, MD: 7662 feet)
BHL: TR I / 2560 FSL / 1210 FEL / TWSP: 26S / RANGE: 30E / SECTION: 7 / LAT: 32.056843 / LONG: -103.915912 (TVD: 7881 feet, MD: 15538 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: MEWBOURNE OIL COMPANY
WELL NAME & NO.: FULL TILT 18/7 FED 878H
APD ID: 10400063520
LOCATION: Section 18, T.26 S., R.30 E. NMP.
COUNTY: Eddy County, New Mexico ▾

COA

H ₂ S	<input checked="" type="radio"/> No	<input checked="" type="radio"/> Yes			
Potash / WIPP	<input checked="" type="radio"/> None	<input checked="" type="radio"/> Secretary	<input checked="" type="radio"/> R-111-Q	<input type="checkbox"/> Open Annulus	<input type="checkbox"/> WIPP
Cave / Karst	<input checked="" type="radio"/> Low	<input checked="" type="radio"/> Medium	<input checked="" type="radio"/> High	<input checked="" type="radio"/> Critical	
Wellhead	<input checked="" type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input checked="" type="radio"/> Both	<input checked="" type="radio"/> Diverter	
Cementing	<input type="checkbox"/> Primary Squeeze	<input type="checkbox"/> Cont. Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool	
Special Req	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit	
Waste Prev.	<input checked="" type="radio"/> Self-Certification	<input checked="" type="radio"/> Waste Min. Plan	<input checked="" type="radio"/> APD Submitted prior to 06/10/2024		
Additional Language	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Break Testing	
	<input type="checkbox"/> Four-String	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Fluid-Filled		

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

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 DESIGN

Primary Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **755 ft.** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

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

2. The **9-5/8** inch intermediate casing shall be set at approximately **3,320 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 **Cave/Karst**.

Note: Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Note: The intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement of collapse design SF.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. Operator has proposed to set **7 inch** production casing at approximately **11,127 ft**. (11,085 ft. TVD). The minimum required fill of cement behind the **7 inch** production casing is:

- Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:

- Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

Alternate Casing Program

1. The **13-3/8** inch surface casing shall be set at approximately **755 ft.** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 ft. above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run

to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 psi compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **3,320 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 **Cave/Karst**.

Note: Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Note: The intermediate casing must be kept fluid-filled to meet the BLM's minimum requirement of collapse design SF.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. Operator has proposed to set **7 inch** production casing at approximately **11,850 ft**. (11,630 ft. TVD). The minimum required fill of cement behind the **7 inch** production casing is:
 - Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
4. The minimum required fill of cement behind the **4-1/2 in.** production liner is:
 - Cement should tie-back **at least 100 feet** into previous casing string. Operator shall provide method of verification.

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. BOP and BOPE shall be tested in accordance with title **43 CFR 3172**.
 - 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. 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.
 - v. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

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 07/10/2025

Mewbourne Oil Company, Full Tilt 18/7 Fed 878H
Sec 18, T26S, R30E
SHL: 280' FSL 1390' FEL (Sec 18)
BHL: 2330' FSL 500' FEL (Sec 7)

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
									1.8 Wet	1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5"	0'	0'	755'	755'	13.375" 48# H40 STC	2.28	5.12	8.89	14.93
Intermediate	12.25"	0'	0'	3320'	3320'	9.625" 36# J55 LTC	1.15	2.00	3.79	4.72
Production	8.75"	0'	0'	11127'	11085'	7" 26# HCP110 LTC	1.40	1.78	2.40	2.87
Liner	6.125"	10927'	10916'	19088'	11693'	4.5" 13.5# P110 LTC	1.53	1.77	3.07	3.83

Cement Program

Casing		# Sacks	Wt. (PPG)	Yield (ft ³ /sack)	TOC/BOC	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	370	12.5	2.12	0' - 564'	790	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	564' - 755'	268		Class C: Retarder
9.625 in	LEAD	490	12.5	2.12	0' - 2640'	1040	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2640' - 3320'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	3120' - 7176'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	900	15.6	1.18	7176' - 11127'	1062		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	520	13.5	1.85	10927' - 19088'	970	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant,

Design A - Mud Program

Depth	Mud Wt	Mud Type
0' - 755'	8.4 - 8.6	Fresh Water
755' - 3320'	10.0 - 10.2	Brine
3320' - 11127'	8.6 - 9.7	Cut-Brine
11127' - 19088'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	680'	Usable Water	Delaware (Lamar)		
Castile			Bell Canyon	3460'	Oil/Natural Gas
Salt Top	960'	None	Cherry Canyon	4350'	Oil/Natural Gas
Marker Bed 126			Manzanita Marker		
Salt Base	3220'	None	Basal Brushy Canyon	5620'	Oil/Natural Gas
Yates			Bone Spring	7195'	Oil/Natural Gas
Seven Rivers			1st Bone Spring Carbonate	7220'	Oil/Natural Gas
Queen			1st Bone Spring Sand	8150'	Oil/Natural Gas
Capitan			2nd Bone Spring Carbonate	8585'	Oil/Natural Gas
Grayburg			2nd Bone Spring Sand	8950'	Oil/Natural Gas
San Andres			3rd Bone Spring Carbonate	9250'	Oil/Natural Gas
Glorietta			3rd Bone Spring Sand	10050'	Oil/Natural Gas
Yoso			Wolfcamp	10400'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	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, Full Tilt 18/7 Fed 878H

Sec 18, T26S, R30E

SHL: 280' FSL 1390' FEL (Sec 18)

BHL: 2330' FSL 500' FEL (Sec 7)

Casing Program Design B						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				1.8 Wet	1.8 Wet
Surface	17.5"	0'	0'	755'	755'	13.375" 48# H40 STC	2.28	5.12	8.89	14.93
Intermediate	12.25"	0'	0'	3320'	3320'	9.625" 36# J55 LTC	1.15	2.00	3.79	4.72
Production	8.75"	0'	0'	11850'	11630'	7" 26# HCP110 LTC	1.33	1.70	2.25	2.69
Liner	6.125"	11127'	11085'	19088'	11693'	4.5" 13.5# P110 LTC	1.53	1.77	3.14	3.93

Design B - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	370	12.5	2.12	0' - 564'	790	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	564' - 755'	268		Class C: Retarder
9.625 in	LEAD	490	12.5	2.12	0' - 2640'	1040	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2640' - 3320'	268		Class C: Retarder
1st Stg 7 in	LEAD	510	12.5	2.12	3120' - 7312'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	1000	15.6	1.18	7312' - 11850'	1180		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	510	13.5	1.85	11127' - 19088'	950	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant,

Design B - Mud Program

Depth	Mud Wt (ppg)	Mud Type
0' - 755'	8.4 - 8.6	Fresh Water
755' - 3320'	10.0 - 10.2	Brine
3320' - 11850'	8.6 - 9.7	Cut-Brine
11850' - 19088'	10.0 - 11.5	OBM

Geology

Formation	Est. Top (TVD)	Mineral Resources	Formation	Est. Top (TVD)	Mineral Resources
Rustler	680'	Usable Water	Delaware (Lamar)	3460'	Oil/Natural Gas
Castile			Bell Canyon	4350'	Oil/Natural Gas
Salt Top	960'	None	Cherry Canyon		
Marker Bed 126			Manzanita Marker		
Salt Base	3220'	None	Basal Brushy Canyon	5620'	Oil/Natural Gas
Yates			Bone Spring	7195'	Oil/Natural Gas
Seven Rivers			1st Bone Spring Carbonate	7220'	Oil/Natural Gas
Queen			1st Bone Spring Sand	8150'	Oil/Natural Gas
Capitan			2nd Bone Spring Carbonate	8585'	Oil/Natural Gas
Grayburg			2nd Bone Spring Sand	8950'	Oil/Natural Gas
San Andres			3rd Bone Spring Carbonate	9250'	Oil/Natural Gas
Glorietta			3rd Bone Spring Sand	10050'	Oil/Natural Gas
Yoso			Wolfcamp	10400'	Oil/Natural Gas

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172. Must have table for contingency casing.

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

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

WELL LOCATION INFORMATION

API Number 30-015-53489	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 333828	Property Name FULL TILT 18/7 FED	Well Number 878H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 3100'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL 0	Section 18	Township 26S	Range 30E	Lot	Ft. from N/S 280 FSL	Ft. from E/W 1390 FEL	Latitude 32.0359644°N	Longitude 103.9165227°W	County EDDY
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Bottom Hole Location

UL I	Section 7	Township 26S	Range 30E	Lot	Ft. from N/S 2330 FSL	Ft. from E/W 500 FEL	Latitude 32.0562182°N	Longitude 103.9136216°W	County EDDY
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Dedicated Acres 480	Infill or Defining Well INFILL	Defining Well API 30-015-53492	Overlapping Spacing Unit (Y/N) Y	Consolidation Code P
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL P	Section 18	Township 26S	Range 30E	Lot	Ft. from N/S 10 FSL	Ft. from E/W 500 FEL	Latitude 32.0352325°N	Longitude 103.9136525°W	County EDDY
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First Take Point (FTP)

UL P	Section 18	Township 26S	Range 30E	Lot	Ft. from N/S 330 FSL	Ft. from E/W 500 FEL	Latitude 32.0361120°N	Longitude 103.9136510°W	County EDDY
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Last Take Point (LTP)

UL I	Section 7	Township 26S	Range 30E	Lot	Ft. from N/S 2330 FSL	Ft. from E/W 500 FEL	Latitude 32.0562182°N	Longitude 103.9136216°W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3128'
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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 interest, or to a voluntary pooling agreement or a compulsory pooling 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.

John Smith 06/11/2025

Signature Date

John Smith

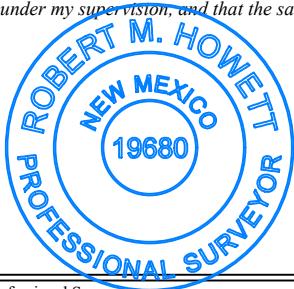
Printed Name

john.smith@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.



Signature and Seal of Professional Surveyor

Certificate Number

19680

Date of Survey

04/24/2025

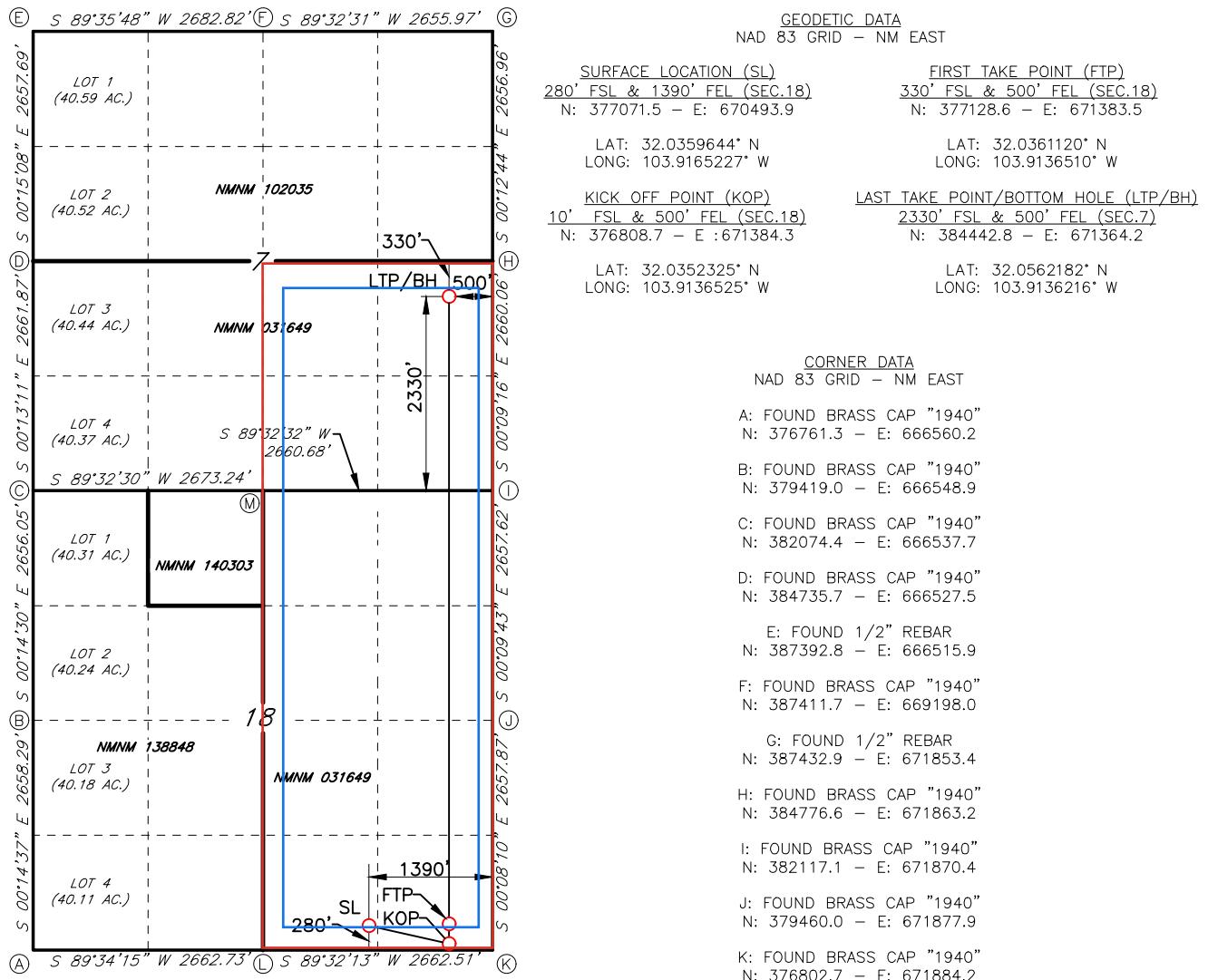
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

FULL TILT 18/7 FED #878H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Full Tilt 18/7 Fed #878H

Sec 18, T26S, R30E

SHL: 280' FSL & 1390' FEL (Sec 18)

BHL: 2330' FSL & 500' FEL (Sec 7)

Plan: Design #1

Standard Planning Report

11 June, 2025

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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Project	Eddy County, New Mexico NAD 83		
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Ground Level

Site	Full Tilt 18/7 Fed #878H		
Site Position: From: Position Uncertainty:	Map 0.0 usft	Northing: Easting: Slot Radius:	377,071.50 usft 670,493.90 usft 13-3/16 "

Well	Sec 18, T26S, R30E				
Well Position	+N-S +E-W	0.0 usft 0.0 usft	Northing: Easting:	377,071.50 usft 670,493.90 usft	Latitude: Longitude:
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,128.0 usft	Ground Level:
Grid Convergence:		0.22 °			3,100.0 usft

Wellbore	BHL: 2330' FSL & 500' FEL (Sec 7)				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.29	59.87	48,089.09481436

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	6.73

Plan Survey Tool Program	Date	6/11/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	0.0	Design #1 (BHL: 2330' FSL & 500	

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	

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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	0.00
SHL: 280' FSL & 1390' FEL (Sec 18)										
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	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	0.00
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	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	0.00
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	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	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	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	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	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	0.00
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	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	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	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	0.00
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
755.0	0.00	0.00	755.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
800.0	0.90	106.44	800.0	-0.1	0.3	-0.1	2.00	2.00	0.00	0.00
850.0	1.90	106.44	850.0	-0.4	1.5	-0.3	2.00	2.00	0.00	0.00
900.0	2.90	106.44	899.9	-1.0	3.5	-0.6	2.00	2.00	0.00	0.00
950.0	3.90	106.44	949.8	-1.9	6.4	-1.1	2.00	2.00	0.00	0.00
1,000.0	4.90	106.44	999.7	-3.0	10.0	-1.8	2.00	2.00	0.00	0.00
1,018.5	5.27	106.44	1,018.1	-3.4	11.6	-2.0	2.00	2.00	0.00	0.00
1,050.0	5.27	106.44	1,049.5	-4.2	14.4	-2.5	0.00	0.00	0.00	0.00
1,100.0	5.27	106.44	1,099.3	-5.5	18.8	-3.3	0.00	0.00	0.00	0.00
1,150.0	5.27	106.44	1,149.1	-6.8	23.2	-4.1	0.00	0.00	0.00	0.00
1,200.0	5.27	106.44	1,198.9	-8.1	27.6	-4.9	0.00	0.00	0.00	0.00
1,250.0	5.27	106.44	1,248.7	-9.4	32.0	-5.6	0.00	0.00	0.00	0.00
1,300.0	5.27	106.44	1,298.4	-10.7	36.4	-6.4	0.00	0.00	0.00	0.00
1,350.0	5.27	106.44	1,348.2	-12.0	40.8	-7.2	0.00	0.00	0.00	0.00
1,400.0	5.27	106.44	1,398.0	-13.3	45.2	-8.0	0.00	0.00	0.00	0.00
1,450.0	5.27	106.44	1,447.8	-14.6	49.6	-8.7	0.00	0.00	0.00	0.00
1,500.0	5.27	106.44	1,497.6	-15.9	54.0	-9.5	0.00	0.00	0.00	0.00
1,550.0	5.27	106.44	1,547.4	-17.2	58.4	-10.3	0.00	0.00	0.00	0.00
1,600.0	5.27	106.44	1,597.2	-18.5	62.8	-11.0	0.00	0.00	0.00	0.00
1,650.0	5.27	106.44	1,647.0	-19.8	67.2	-11.8	0.00	0.00	0.00	0.00
1,700.0	5.27	106.44	1,696.7	-21.1	71.6	-12.6	0.00	0.00	0.00	0.00
1,750.0	5.27	106.44	1,746.5	-22.4	76.0	-13.4	0.00	0.00	0.00	0.00
1,800.0	5.27	106.44	1,796.3	-23.7	80.4	-14.1	0.00	0.00	0.00	0.00
1,850.0	5.27	106.44	1,846.1	-25.0	84.9	-14.9	0.00	0.00	0.00	0.00
1,900.0	5.27	106.44	1,895.9	-26.3	89.3	-15.7	0.00	0.00	0.00	0.00
1,950.0	5.27	106.44	1,945.7	-27.6	93.7	-16.5	0.00	0.00	0.00	0.00
2,000.0	5.27	106.44	1,995.5	-28.9	98.1	-17.2	0.00	0.00	0.00	0.00
2,050.0	5.27	106.44	2,045.3	-30.2	102.5	-18.0	0.00	0.00	0.00	0.00
2,100.0	5.27	106.44	2,095.1	-31.5	106.9	-18.8	0.00	0.00	0.00	0.00
2,150.0	5.27	106.44	2,144.8	-32.8	111.3	-19.6	0.00	0.00	0.00	0.00
2,200.0	5.27	106.44	2,194.6	-34.1	115.7	-20.3	0.00	0.00	0.00	0.00
2,250.0	5.27	106.44	2,244.4	-35.4	120.1	-21.1	0.00	0.00	0.00	0.00
2,300.0	5.27	106.44	2,294.2	-36.7	124.5	-21.9	0.00	0.00	0.00	0.00
2,350.0	5.27	106.44	2,344.0	-38.0	128.9	-22.7	0.00	0.00	0.00	0.00
2,400.0	5.27	106.44	2,393.8	-39.3	133.3	-23.4	0.00	0.00	0.00	0.00
2,450.0	5.27	106.44	2,443.6	-40.6	137.7	-24.2	0.00	0.00	0.00	0.00
2,500.0	5.27	106.44	2,493.4	-41.9	142.1	-25.0	0.00	0.00	0.00	0.00

Planning Report

Database: Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #878H
Company: Mewbourne Oil Company	TVD Reference:	WELL @ 3128.0usft (Original Well Elev)
Project: Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3128.0usft (Original Well Elev)
Site: Full Tilt 18/7 Fed #878H	North Reference:	Grid
Well: Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore: BHL: 2330' FSL & 500' FEL (Sec 7)		
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	5.27	106.44	2,543.2	-43.2	146.5	-25.8	0.00	0.00	0.00
2,600.0	5.27	106.44	2,592.9	-44.5	150.9	-26.5	0.00	0.00	0.00
2,650.0	5.27	106.44	2,642.7	-45.8	155.3	-27.3	0.00	0.00	0.00
2,700.0	5.27	106.44	2,692.5	-47.1	159.7	-28.1	0.00	0.00	0.00
2,750.0	5.27	106.44	2,742.3	-48.4	164.1	-28.9	0.00	0.00	0.00
2,800.0	5.27	106.44	2,792.1	-49.7	168.5	-29.6	0.00	0.00	0.00
2,850.0	5.27	106.44	2,841.9	-51.0	172.9	-30.4	0.00	0.00	0.00
2,900.0	5.27	106.44	2,891.7	-52.3	177.3	-31.2	0.00	0.00	0.00
2,950.0	5.27	106.44	2,941.5	-53.6	181.7	-32.0	0.00	0.00	0.00
3,000.0	5.27	106.44	2,991.3	-54.9	186.1	-32.7	0.00	0.00	0.00
3,050.0	5.27	106.44	3,041.0	-56.2	190.5	-33.5	0.00	0.00	0.00
3,100.0	5.27	106.44	3,090.8	-57.5	195.0	-34.3	0.00	0.00	0.00
3,150.0	5.27	106.44	3,140.6	-58.8	199.4	-35.1	0.00	0.00	0.00
3,200.0	5.27	106.44	3,190.4	-60.1	203.8	-35.8	0.00	0.00	0.00
3,250.0	5.27	106.44	3,240.2	-61.4	208.2	-36.6	0.00	0.00	0.00
3,300.0	5.27	106.44	3,290.0	-62.7	212.6	-37.4	0.00	0.00	0.00
3,350.0	5.27	106.44	3,339.8	-64.0	217.0	-38.2	0.00	0.00	0.00
3,400.0	5.27	106.44	3,389.6	-65.3	221.4	-38.9	0.00	0.00	0.00
3,450.0	5.27	106.44	3,439.4	-66.6	225.8	-39.7	0.00	0.00	0.00
3,500.0	5.27	106.44	3,489.1	-67.9	230.2	-40.5	0.00	0.00	0.00
3,550.0	5.27	106.44	3,538.9	-69.2	234.6	-41.3	0.00	0.00	0.00
3,600.0	5.27	106.44	3,588.7	-70.5	239.0	-42.0	0.00	0.00	0.00
3,650.0	5.27	106.44	3,638.5	-71.8	243.4	-42.8	0.00	0.00	0.00
3,700.0	5.27	106.44	3,688.3	-73.1	247.8	-43.6	0.00	0.00	0.00
3,750.0	5.27	106.44	3,738.1	-74.4	252.2	-44.4	0.00	0.00	0.00
3,800.0	5.27	106.44	3,787.9	-75.7	256.6	-45.1	0.00	0.00	0.00
3,850.0	5.27	106.44	3,837.7	-77.0	261.0	-45.9	0.00	0.00	0.00
3,900.0	5.27	106.44	3,887.5	-78.3	265.4	-46.7	0.00	0.00	0.00
3,950.0	5.27	106.44	3,937.2	-79.6	269.8	-47.5	0.00	0.00	0.00
4,000.0	5.27	106.44	3,987.0	-80.9	274.2	-48.2	0.00	0.00	0.00
4,050.0	5.27	106.44	4,036.8	-82.2	278.6	-49.0	0.00	0.00	0.00
4,100.0	5.27	106.44	4,086.6	-83.5	283.0	-49.8	0.00	0.00	0.00
4,150.0	5.27	106.44	4,136.4	-84.8	287.4	-50.5	0.00	0.00	0.00
4,200.0	5.27	106.44	4,186.2	-86.1	291.8	-51.3	0.00	0.00	0.00
4,250.0	5.27	106.44	4,236.0	-87.4	296.2	-52.1	0.00	0.00	0.00
4,300.0	5.27	106.44	4,285.8	-88.7	300.6	-52.9	0.00	0.00	0.00
4,350.0	5.27	106.44	4,335.6	-90.0	305.1	-53.6	0.00	0.00	0.00
4,400.0	5.27	106.44	4,385.3	-91.3	309.5	-54.4	0.00	0.00	0.00
4,450.0	5.27	106.44	4,435.1	-92.6	313.9	-55.2	0.00	0.00	0.00
4,500.0	5.27	106.44	4,484.9	-93.9	318.3	-56.0	0.00	0.00	0.00
4,550.0	5.27	106.44	4,534.7	-95.2	322.7	-56.7	0.00	0.00	0.00
4,600.0	5.27	106.44	4,584.5	-96.5	327.1	-57.5	0.00	0.00	0.00
4,650.0	5.27	106.44	4,634.3	-97.8	331.5	-58.3	0.00	0.00	0.00
4,700.0	5.27	106.44	4,684.1	-99.1	335.9	-59.1	0.00	0.00	0.00
4,750.0	5.27	106.44	4,733.9	-100.4	340.3	-59.8	0.00	0.00	0.00
4,800.0	5.27	106.44	4,783.6	-101.7	344.7	-60.6	0.00	0.00	0.00
4,850.0	5.27	106.44	4,833.4	-103.0	349.1	-61.4	0.00	0.00	0.00
4,900.0	5.27	106.44	4,883.2	-104.3	353.5	-62.2	0.00	0.00	0.00
4,950.0	5.27	106.44	4,933.0	-105.6	357.9	-62.9	0.00	0.00	0.00
5,000.0	5.27	106.44	4,982.8	-106.9	362.3	-63.7	0.00	0.00	0.00
5,050.0	5.27	106.44	5,032.6	-108.2	366.7	-64.5	0.00	0.00	0.00
5,100.0	5.27	106.44	5,082.4	-109.5	371.1	-65.3	0.00	0.00	0.00
5,150.0	5.27	106.44	5,132.2	-110.8	375.5	-66.0	0.00	0.00	0.00
5,200.0	5.27	106.44	5,182.0	-112.1	379.9	-66.8	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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	5.27	106.44	5,231.7	-113.4	384.3	-67.6	0.00	0.00	0.00
5,300.0	5.27	106.44	5,281.5	-114.7	388.7	-68.4	0.00	0.00	0.00
5,350.0	5.27	106.44	5,331.3	-116.0	393.1	-69.1	0.00	0.00	0.00
5,400.0	5.27	106.44	5,381.1	-117.3	397.5	-69.9	0.00	0.00	0.00
5,450.0	5.27	106.44	5,430.9	-118.6	401.9	-70.7	0.00	0.00	0.00
5,500.0	5.27	106.44	5,480.7	-119.9	406.3	-71.5	0.00	0.00	0.00
5,550.0	5.27	106.44	5,530.5	-121.2	410.7	-72.2	0.00	0.00	0.00
5,600.0	5.27	106.44	5,580.3	-122.5	415.1	-73.0	0.00	0.00	0.00
5,650.0	5.27	106.44	5,630.1	-123.8	419.6	-73.8	0.00	0.00	0.00
5,700.0	5.27	106.44	5,679.8	-125.1	424.0	-74.6	0.00	0.00	0.00
5,750.0	5.27	106.44	5,729.6	-126.4	428.4	-75.3	0.00	0.00	0.00
5,800.0	5.27	106.44	5,779.4	-127.7	432.8	-76.1	0.00	0.00	0.00
5,850.0	5.27	106.44	5,829.2	-129.0	437.2	-76.9	0.00	0.00	0.00
5,900.0	5.27	106.44	5,879.0	-130.3	441.6	-77.7	0.00	0.00	0.00
5,950.0	5.27	106.44	5,928.8	-131.6	446.0	-78.4	0.00	0.00	0.00
6,000.0	5.27	106.44	5,978.6	-132.9	450.4	-79.2	0.00	0.00	0.00
6,050.0	5.27	106.44	6,028.4	-134.2	454.8	-80.0	0.00	0.00	0.00
6,100.0	5.27	106.44	6,078.2	-135.5	459.2	-80.8	0.00	0.00	0.00
6,150.0	5.27	106.44	6,127.9	-136.8	463.6	-81.5	0.00	0.00	0.00
6,200.0	5.27	106.44	6,177.7	-138.1	468.0	-82.3	0.00	0.00	0.00
6,250.0	5.27	106.44	6,227.5	-139.4	472.4	-83.1	0.00	0.00	0.00
6,300.0	5.27	106.44	6,277.3	-140.7	476.8	-83.9	0.00	0.00	0.00
6,350.0	5.27	106.44	6,327.1	-142.0	481.2	-84.6	0.00	0.00	0.00
6,400.0	5.27	106.44	6,376.9	-143.3	485.6	-85.4	0.00	0.00	0.00
6,450.0	5.27	106.44	6,426.7	-144.6	490.0	-86.2	0.00	0.00	0.00
6,500.0	5.27	106.44	6,476.5	-145.9	494.4	-86.9	0.00	0.00	0.00
6,550.0	5.27	106.44	6,526.3	-147.2	498.8	-87.7	0.00	0.00	0.00
6,600.0	5.27	106.44	6,576.0	-148.5	503.2	-88.5	0.00	0.00	0.00
6,650.0	5.27	106.44	6,625.8	-149.8	507.6	-89.3	0.00	0.00	0.00
6,700.0	5.27	106.44	6,675.6	-151.1	512.0	-90.0	0.00	0.00	0.00
6,750.0	5.27	106.44	6,725.4	-152.4	516.4	-90.8	0.00	0.00	0.00
6,800.0	5.27	106.44	6,775.2	-153.7	520.8	-91.6	0.00	0.00	0.00
6,850.0	5.27	106.44	6,825.0	-155.0	525.2	-92.4	0.00	0.00	0.00
6,900.0	5.27	106.44	6,874.8	-156.3	529.7	-93.1	0.00	0.00	0.00
6,950.0	5.27	106.44	6,924.6	-157.6	534.1	-93.9	0.00	0.00	0.00
7,000.0	5.27	106.44	6,974.4	-158.9	538.5	-94.7	0.00	0.00	0.00
7,050.0	5.27	106.44	7,024.1	-160.2	542.9	-95.5	0.00	0.00	0.00
7,100.0	5.27	106.44	7,073.9	-161.5	547.3	-96.2	0.00	0.00	0.00
7,150.0	5.27	106.44	7,123.7	-162.8	551.7	-97.0	0.00	0.00	0.00
7,200.0	5.27	106.44	7,173.5	-164.1	556.1	-97.8	0.00	0.00	0.00
7,250.0	5.27	106.44	7,223.3	-165.4	560.5	-98.6	0.00	0.00	0.00
7,300.0	5.27	106.44	7,273.1	-166.7	564.9	-99.3	0.00	0.00	0.00
7,350.0	5.27	106.44	7,322.9	-168.0	569.3	-100.1	0.00	0.00	0.00
7,400.0	5.27	106.44	7,372.7	-169.3	573.7	-100.9	0.00	0.00	0.00
7,450.0	5.27	106.44	7,422.5	-170.6	578.1	-101.7	0.00	0.00	0.00
7,500.0	5.27	106.44	7,472.2	-171.9	582.5	-102.4	0.00	0.00	0.00
7,550.0	5.27	106.44	7,522.0	-173.2	586.9	-103.2	0.00	0.00	0.00
7,600.0	5.27	106.44	7,571.8	-174.5	591.3	-104.0	0.00	0.00	0.00
7,650.0	5.27	106.44	7,621.6	-175.8	595.7	-104.8	0.00	0.00	0.00
7,700.0	5.27	106.44	7,671.4	-177.1	600.1	-105.5	0.00	0.00	0.00
7,750.0	5.27	106.44	7,721.2	-178.4	604.5	-106.3	0.00	0.00	0.00
7,800.0	5.27	106.44	7,771.0	-179.7	608.9	-107.1	0.00	0.00	0.00
7,850.0	5.27	106.44	7,820.8	-181.0	613.3	-107.9	0.00	0.00	0.00
7,900.0	5.27	106.44	7,870.5	-182.3	617.7	-108.6	0.00	0.00	0.00

Planning Report

Database: Hobbs	Local Co-ordinate Reference:	Site Full Tilt 18/7 Fed #878H
Company: Mewbourne Oil Company	TVD Reference:	WELL @ 3128.0usft (Original Well Elev)
Project: Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3128.0usft (Original Well Elev)
Site: Full Tilt 18/7 Fed #878H	North Reference:	Grid
Well: Sec 18, T26S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore: BHL: 2330' FSL & 500' FEL (Sec 7)		
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	5.27	106.44	7,920.3	-183.6	622.1	-109.4	0.00	0.00	0.00
8,000.0	5.27	106.44	7,970.1	-184.9	626.5	-110.2	0.00	0.00	0.00
8,050.0	5.27	106.44	8,019.9	-186.2	630.9	-111.0	0.00	0.00	0.00
8,100.0	5.27	106.44	8,069.7	-187.5	635.3	-111.7	0.00	0.00	0.00
8,150.0	5.27	106.44	8,119.5	-188.8	639.8	-112.5	0.00	0.00	0.00
8,200.0	5.27	106.44	8,169.3	-190.1	644.2	-113.3	0.00	0.00	0.00
8,250.0	5.27	106.44	8,219.1	-191.4	648.6	-114.1	0.00	0.00	0.00
8,300.0	5.27	106.44	8,268.9	-192.7	653.0	-114.8	0.00	0.00	0.00
8,350.0	5.27	106.44	8,318.6	-194.0	657.4	-115.6	0.00	0.00	0.00
8,400.0	5.27	106.44	8,368.4	-195.3	661.8	-116.4	0.00	0.00	0.00
8,450.0	5.27	106.44	8,418.2	-196.6	666.2	-117.2	0.00	0.00	0.00
8,500.0	5.27	106.44	8,468.0	-197.9	670.6	-117.9	0.00	0.00	0.00
8,550.0	5.27	106.44	8,517.8	-199.2	675.0	-118.7	0.00	0.00	0.00
8,600.0	5.27	106.44	8,567.6	-200.5	679.4	-119.5	0.00	0.00	0.00
8,650.0	5.27	106.44	8,617.4	-201.8	683.8	-120.3	0.00	0.00	0.00
8,700.0	5.27	106.44	8,667.2	-203.1	688.2	-121.0	0.00	0.00	0.00
8,750.0	5.27	106.44	8,717.0	-204.4	692.6	-121.8	0.00	0.00	0.00
8,800.0	5.27	106.44	8,766.7	-205.7	697.0	-122.6	0.00	0.00	0.00
8,850.0	5.27	106.44	8,816.5	-207.0	701.4	-123.4	0.00	0.00	0.00
8,900.0	5.27	106.44	8,866.3	-208.3	705.8	-124.1	0.00	0.00	0.00
8,950.0	5.27	106.44	8,916.1	-209.6	710.2	-124.9	0.00	0.00	0.00
9,000.0	5.27	106.44	8,965.9	-210.9	714.6	-125.7	0.00	0.00	0.00
9,050.0	5.27	106.44	9,015.7	-212.2	719.0	-126.4	0.00	0.00	0.00
9,100.0	5.27	106.44	9,065.5	-213.5	723.4	-127.2	0.00	0.00	0.00
9,150.0	5.27	106.44	9,115.3	-214.8	727.8	-128.0	0.00	0.00	0.00
9,200.0	5.27	106.44	9,165.1	-216.1	732.2	-128.8	0.00	0.00	0.00
9,250.0	5.27	106.44	9,214.8	-217.4	736.6	-129.5	0.00	0.00	0.00
9,300.0	5.27	106.44	9,264.6	-218.7	741.0	-130.3	0.00	0.00	0.00
9,350.0	5.27	106.44	9,314.4	-220.0	745.4	-131.1	0.00	0.00	0.00
9,400.0	5.27	106.44	9,364.2	-221.3	749.9	-131.9	0.00	0.00	0.00
9,450.0	5.27	106.44	9,414.0	-222.6	754.3	-132.6	0.00	0.00	0.00
9,500.0	5.27	106.44	9,463.8	-223.9	758.7	-133.4	0.00	0.00	0.00
9,550.0	5.27	106.44	9,513.6	-225.2	763.1	-134.2	0.00	0.00	0.00
9,600.0	5.27	106.44	9,563.4	-226.5	767.5	-135.0	0.00	0.00	0.00
9,650.0	5.27	106.44	9,613.2	-227.8	771.9	-135.7	0.00	0.00	0.00
9,700.0	5.27	106.44	9,662.9	-229.1	776.3	-136.5	0.00	0.00	0.00
9,750.0	5.27	106.44	9,712.7	-230.4	780.7	-137.3	0.00	0.00	0.00
9,800.0	5.27	106.44	9,762.5	-231.7	785.1	-138.1	0.00	0.00	0.00
9,850.0	5.27	106.44	9,812.3	-233.0	789.5	-138.8	0.00	0.00	0.00
9,900.0	5.27	106.44	9,862.1	-234.3	793.9	-139.6	0.00	0.00	0.00
9,950.0	5.27	106.44	9,911.9	-235.6	798.3	-140.4	0.00	0.00	0.00
10,000.0	5.27	106.44	9,961.7	-236.9	802.7	-141.2	0.00	0.00	0.00
10,050.0	5.27	106.44	10,011.5	-238.2	807.1	-141.9	0.00	0.00	0.00
10,100.0	5.27	106.44	10,061.3	-239.5	811.5	-142.7	0.00	0.00	0.00
10,150.0	5.27	106.44	10,111.0	-240.8	815.9	-143.5	0.00	0.00	0.00
10,200.0	5.27	106.44	10,160.8	-242.1	820.3	-144.3	0.00	0.00	0.00
10,250.0	5.27	106.44	10,210.6	-243.4	824.7	-145.0	0.00	0.00	0.00
10,300.0	5.27	106.44	10,260.4	-244.7	829.1	-145.8	0.00	0.00	0.00
10,350.0	5.27	106.44	10,310.2	-246.0	833.5	-146.6	0.00	0.00	0.00
10,400.0	5.27	106.44	10,360.0	-247.3	837.9	-147.4	0.00	0.00	0.00
10,450.0	5.27	106.44	10,409.8	-248.6	842.3	-148.1	0.00	0.00	0.00
10,500.0	5.27	106.44	10,459.6	-249.9	846.7	-148.9	0.00	0.00	0.00
10,550.0	5.27	106.44	10,509.4	-251.2	851.1	-149.7	0.00	0.00	0.00
10,600.0	5.27	106.44	10,559.1	-252.5	855.5	-150.5	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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)
10,650.0	5.27	106.44	10,608.9	-253.8	860.0	-151.2	0.00	0.00	0.00
10,700.0	5.27	106.44	10,658.7	-255.1	864.4	-152.0	0.00	0.00	0.00
10,750.0	5.27	106.44	10,708.5	-256.4	868.8	-152.8	0.00	0.00	0.00
10,800.0	5.27	106.44	10,758.3	-257.7	873.2	-153.6	0.00	0.00	0.00
10,850.0	5.27	106.44	10,808.1	-259.0	877.6	-154.3	0.00	0.00	0.00
10,863.9	5.27	106.44	10,821.9	-259.4	878.8	-154.5	0.00	0.00	0.00
10,900.0	4.55	106.44	10,857.9	-260.2	881.8	-155.1	2.00	-2.00	0.00
10,950.0	3.55	106.44	10,907.8	-261.2	885.1	-155.7	2.00	-2.00	0.00
11,000.0	2.55	106.44	10,957.7	-262.0	887.7	-156.1	2.00	-2.00	0.00
11,050.0	1.55	106.44	11,007.7	-262.5	889.4	-156.4	2.00	-2.00	0.00
11,100.0	0.55	106.44	11,057.7	-262.8	890.3	-156.6	2.00	-2.00	0.00
11,127.3	0.00	0.00	11,085.0	-262.8	890.4	-156.6	2.00	-2.00	0.00
KOP: 10' FSL & 500' FEL (Sec 18)									
11,150.0	2.27	359.85	11,107.6	-262.4	890.4	-156.1	10.00	10.00	0.00
11,200.0	7.26	359.85	11,157.5	-258.2	890.4	-152.0	10.00	10.00	0.00
11,250.0	12.26	359.85	11,206.7	-249.7	890.4	-143.6	10.00	10.00	0.00
11,300.0	17.26	359.85	11,255.1	-237.0	890.3	-131.0	10.00	10.00	0.00
11,350.0	22.26	359.85	11,302.1	-220.1	890.3	-114.2	10.00	10.00	0.00
11,400.0	27.26	359.85	11,347.5	-199.1	890.2	-93.4	10.00	10.00	0.00
11,450.0	32.26	359.85	11,390.9	-174.3	890.2	-68.8	10.00	10.00	0.00
11,500.0	37.26	359.85	11,431.9	-145.8	890.1	-40.5	10.00	10.00	0.00
11,550.0	42.26	359.85	11,470.4	-113.9	890.0	-8.7	10.00	10.00	0.00
11,600.0	47.26	359.85	11,505.8	-78.7	889.9	26.2	10.00	10.00	0.00
11,650.0	52.26	359.85	11,538.1	-40.5	889.8	64.1	10.00	10.00	0.00
11,700.0	57.26	359.85	11,567.0	0.3	889.7	104.6	10.00	10.00	0.00
11,750.0	62.26	359.85	11,592.2	43.5	889.6	147.5	10.00	10.00	0.00
11,765.3	63.79	359.85	11,599.1	57.1	889.6	161.0	10.00	10.00	0.00
FTP: 330' FSL & 500' FEL (Sec 18)									
11,800.0	67.26	359.85	11,613.5	88.7	889.5	192.4	10.00	10.00	0.00
11,850.0	72.26	359.85	11,630.8	135.6	889.4	238.9	10.00	10.00	0.00
11,900.0	77.26	359.85	11,643.9	183.8	889.2	286.8	10.00	10.00	0.00
11,950.0	82.26	359.85	11,652.8	233.0	889.1	335.7	10.00	10.00	0.00
12,000.0	87.26	359.85	11,657.4	282.8	889.0	385.1	10.00	10.00	0.00
12,024.6	89.72	359.85	11,658.0	307.4	888.9	409.5	10.00	10.00	0.00
LP: 583' FSL & 500' FEL (Sec 18)									
12,050.0	89.72	359.85	11,658.1	332.8	888.8	434.7	0.00	0.00	0.00
12,100.0	89.72	359.85	11,658.4	382.8	888.7	484.3	0.00	0.00	0.00
12,150.0	89.72	359.85	11,658.6	432.8	888.6	534.0	0.00	0.00	0.00
12,200.0	89.72	359.85	11,658.9	482.8	888.4	583.6	0.00	0.00	0.00
12,250.0	89.72	359.85	11,659.1	532.8	888.3	633.3	0.00	0.00	0.00
12,300.0	89.72	359.85	11,659.4	582.8	888.2	682.9	0.00	0.00	0.00
12,350.0	89.72	359.85	11,659.6	632.8	888.0	732.5	0.00	0.00	0.00
12,400.0	89.72	359.85	11,659.9	682.8	887.9	782.2	0.00	0.00	0.00
12,450.0	89.72	359.85	11,660.1	732.8	887.8	831.8	0.00	0.00	0.00
12,500.0	89.72	359.85	11,660.4	782.8	887.6	881.5	0.00	0.00	0.00
12,550.0	89.72	359.85	11,660.6	832.8	887.5	931.1	0.00	0.00	0.00
12,600.0	89.72	359.85	11,660.9	882.8	887.4	980.7	0.00	0.00	0.00
12,650.0	89.72	359.85	11,661.1	932.8	887.3	1,030.4	0.00	0.00	0.00
12,700.0	89.72	359.85	11,661.3	982.8	887.1	1,080.0	0.00	0.00	0.00
12,750.0	89.72	359.85	11,661.6	1,032.8	887.0	1,129.6	0.00	0.00	0.00
12,800.0	89.72	359.85	11,661.8	1,082.8	886.9	1,179.3	0.00	0.00	0.00
12,850.0	89.72	359.85	11,662.1	1,132.8	886.7	1,228.9	0.00	0.00	0.00
12,900.0	89.72	359.85	11,662.3	1,182.8	886.6	1,278.6	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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)
12,950.0	89.72	359.85	11,662.6	1,232.8	886.5	1,328.2	0.00	0.00	0.00
13,000.0	89.72	359.85	11,662.8	1,282.8	886.3	1,377.8	0.00	0.00	0.00
13,050.0	89.72	359.85	11,663.1	1,332.8	886.2	1,427.5	0.00	0.00	0.00
13,100.0	89.72	359.85	11,663.3	1,382.8	886.1	1,477.1	0.00	0.00	0.00
13,150.0	89.72	359.85	11,663.6	1,432.8	885.9	1,526.8	0.00	0.00	0.00
13,200.0	89.72	359.85	11,663.8	1,482.8	885.8	1,576.4	0.00	0.00	0.00
13,250.0	89.72	359.85	11,664.1	1,532.8	885.7	1,626.0	0.00	0.00	0.00
13,300.0	89.72	359.85	11,664.3	1,582.8	885.5	1,675.7	0.00	0.00	0.00
13,350.0	89.72	359.85	11,664.6	1,632.8	885.4	1,725.3	0.00	0.00	0.00
13,400.0	89.72	359.85	11,664.8	1,682.8	885.3	1,775.0	0.00	0.00	0.00
13,450.0	89.72	359.85	11,665.1	1,732.8	885.1	1,824.6	0.00	0.00	0.00
13,500.0	89.72	359.85	11,665.3	1,782.8	885.0	1,874.2	0.00	0.00	0.00
13,550.0	89.72	359.85	11,665.6	1,832.8	884.9	1,923.9	0.00	0.00	0.00
13,600.0	89.72	359.85	11,665.8	1,882.8	884.8	1,973.5	0.00	0.00	0.00
13,650.0	89.72	359.85	11,666.1	1,932.8	884.6	2,023.1	0.00	0.00	0.00
13,700.0	89.72	359.85	11,666.3	1,982.8	884.5	2,072.8	0.00	0.00	0.00
13,750.0	89.72	359.85	11,666.5	2,032.8	884.4	2,122.4	0.00	0.00	0.00
13,800.0	89.72	359.85	11,666.8	2,082.8	884.2	2,172.1	0.00	0.00	0.00
13,850.0	89.72	359.85	11,667.0	2,132.8	884.1	2,221.7	0.00	0.00	0.00
13,900.0	89.72	359.85	11,667.3	2,182.8	884.0	2,271.3	0.00	0.00	0.00
13,950.0	89.72	359.85	11,667.5	2,232.7	883.8	2,321.0	0.00	0.00	0.00
14,000.0	89.72	359.85	11,667.8	2,282.7	883.7	2,370.6	0.00	0.00	0.00
14,050.0	89.72	359.85	11,668.0	2,332.7	883.6	2,420.3	0.00	0.00	0.00
14,100.0	89.72	359.85	11,668.3	2,382.7	883.4	2,469.9	0.00	0.00	0.00
14,150.0	89.72	359.85	11,668.5	2,432.7	883.3	2,519.5	0.00	0.00	0.00
14,200.0	89.72	359.85	11,668.8	2,482.7	883.2	2,569.2	0.00	0.00	0.00
14,250.0	89.72	359.85	11,669.0	2,532.7	883.0	2,618.8	0.00	0.00	0.00
14,300.0	89.72	359.85	11,669.3	2,582.7	882.9	2,668.5	0.00	0.00	0.00
14,350.0	89.72	359.85	11,669.5	2,632.7	882.8	2,718.1	0.00	0.00	0.00
14,400.0	89.72	359.85	11,669.8	2,682.7	882.6	2,767.7	0.00	0.00	0.00
14,450.0	89.72	359.85	11,670.0	2,732.7	882.5	2,817.4	0.00	0.00	0.00
14,500.0	89.72	359.85	11,670.3	2,782.7	882.4	2,867.0	0.00	0.00	0.00
14,550.0	89.72	359.85	11,670.5	2,832.7	882.2	2,916.6	0.00	0.00	0.00
14,600.0	89.72	359.85	11,670.8	2,882.7	882.1	2,966.3	0.00	0.00	0.00
14,650.0	89.72	359.85	11,671.0	2,932.7	882.0	3,015.9	0.00	0.00	0.00
14,700.0	89.72	359.85	11,671.3	2,982.7	881.9	3,065.6	0.00	0.00	0.00
14,750.0	89.72	359.85	11,671.5	3,032.7	881.7	3,115.2	0.00	0.00	0.00
14,800.0	89.72	359.85	11,671.8	3,082.7	881.6	3,164.8	0.00	0.00	0.00
14,850.0	89.72	359.85	11,672.0	3,132.7	881.5	3,214.5	0.00	0.00	0.00
14,900.0	89.72	359.85	11,672.2	3,182.7	881.3	3,264.1	0.00	0.00	0.00
14,950.0	89.72	359.85	11,672.5	3,232.7	881.2	3,313.8	0.00	0.00	0.00
15,000.0	89.72	359.85	11,672.7	3,282.7	881.1	3,363.4	0.00	0.00	0.00
15,050.0	89.72	359.85	11,673.0	3,332.7	880.9	3,413.0	0.00	0.00	0.00
15,100.0	89.72	359.85	11,673.2	3,382.7	880.8	3,462.7	0.00	0.00	0.00
15,150.0	89.72	359.85	11,673.5	3,432.7	880.7	3,512.3	0.00	0.00	0.00
15,200.0	89.72	359.85	11,673.7	3,482.7	880.5	3,562.0	0.00	0.00	0.00
15,250.0	89.72	359.85	11,674.0	3,532.7	880.4	3,611.6	0.00	0.00	0.00
15,300.0	89.72	359.85	11,674.2	3,582.7	880.3	3,661.2	0.00	0.00	0.00
15,350.0	89.72	359.85	11,674.5	3,632.7	880.1	3,710.9	0.00	0.00	0.00
15,400.0	89.72	359.85	11,674.7	3,682.7	880.0	3,760.5	0.00	0.00	0.00
15,450.0	89.72	359.85	11,675.0	3,732.7	879.9	3,810.1	0.00	0.00	0.00
15,500.0	89.72	359.85	11,675.2	3,782.7	879.7	3,859.8	0.00	0.00	0.00
15,550.0	89.72	359.85	11,675.5	3,832.7	879.6	3,909.4	0.00	0.00	0.00
15,600.0	89.72	359.85	11,675.7	3,882.7	879.5	3,959.1	0.00	0.00	0.00

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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	89.72	359.85	11,676.0	3,932.7	879.4	4,008.7	0.00	0.00	0.00	
15,700.0	89.72	359.85	11,676.2	3,982.7	879.2	4,058.3	0.00	0.00	0.00	
15,750.0	89.72	359.85	11,676.5	4,032.7	879.1	4,108.0	0.00	0.00	0.00	
15,800.0	89.72	359.85	11,676.7	4,082.7	879.0	4,157.6	0.00	0.00	0.00	
15,850.0	89.72	359.85	11,677.0	4,132.7	878.8	4,207.3	0.00	0.00	0.00	
15,900.0	89.72	359.85	11,677.2	4,182.7	878.7	4,256.9	0.00	0.00	0.00	
15,950.0	89.72	359.85	11,677.4	4,232.7	878.6	4,306.5	0.00	0.00	0.00	
16,000.0	89.72	359.85	11,677.7	4,282.7	878.4	4,356.2	0.00	0.00	0.00	
16,050.0	89.72	359.85	11,677.9	4,332.7	878.3	4,405.8	0.00	0.00	0.00	
16,100.0	89.72	359.85	11,678.2	4,382.7	878.2	4,455.5	0.00	0.00	0.00	
16,150.0	89.72	359.85	11,678.4	4,432.7	878.0	4,505.1	0.00	0.00	0.00	
16,200.0	89.72	359.85	11,678.7	4,482.7	877.9	4,554.7	0.00	0.00	0.00	
16,250.0	89.72	359.85	11,678.9	4,532.7	877.8	4,604.4	0.00	0.00	0.00	
16,300.0	89.72	359.85	11,679.2	4,582.7	877.6	4,654.0	0.00	0.00	0.00	
16,350.0	89.72	359.85	11,679.4	4,632.7	877.5	4,703.6	0.00	0.00	0.00	
16,400.0	89.72	359.85	11,679.7	4,682.7	877.4	4,753.3	0.00	0.00	0.00	
16,450.0	89.72	359.85	11,679.9	4,732.7	877.2	4,802.9	0.00	0.00	0.00	
16,500.0	89.72	359.85	11,680.2	4,782.7	877.1	4,852.6	0.00	0.00	0.00	
16,550.0	89.72	359.85	11,680.4	4,832.7	877.0	4,902.2	0.00	0.00	0.00	
16,600.0	89.72	359.85	11,680.7	4,882.7	876.9	4,951.8	0.00	0.00	0.00	
16,650.0	89.72	359.85	11,680.9	4,932.7	876.7	5,001.5	0.00	0.00	0.00	
16,700.0	89.72	359.85	11,681.2	4,982.7	876.6	5,051.1	0.00	0.00	0.00	
16,750.0	89.72	359.85	11,681.4	5,032.7	876.5	5,100.8	0.00	0.00	0.00	
16,800.0	89.72	359.85	11,681.7	5,082.7	876.3	5,150.4	0.00	0.00	0.00	
16,850.0	89.72	359.85	11,681.9	5,132.7	876.2	5,200.0	0.00	0.00	0.00	
16,900.0	89.72	359.85	11,682.2	5,182.7	876.1	5,249.7	0.00	0.00	0.00	
16,950.0	89.72	359.85	11,682.4	5,232.7	875.9	5,299.3	0.00	0.00	0.00	
17,000.0	89.72	359.85	11,682.7	5,282.7	875.8	5,349.0	0.00	0.00	0.00	
17,050.0	89.72	359.85	11,682.9	5,332.7	875.7	5,398.6	0.00	0.00	0.00	
17,100.0	89.72	359.85	11,683.1	5,382.7	875.5	5,448.2	0.00	0.00	0.00	
17,150.0	89.72	359.85	11,683.4	5,432.7	875.4	5,497.9	0.00	0.00	0.00	
17,200.0	89.72	359.85	11,683.6	5,482.7	875.3	5,547.5	0.00	0.00	0.00	
17,250.0	89.72	359.85	11,683.9	5,532.7	875.1	5,597.1	0.00	0.00	0.00	
17,300.0	89.72	359.85	11,684.1	5,582.7	875.0	5,646.8	0.00	0.00	0.00	
17,350.0	89.72	359.85	11,684.4	5,632.7	874.9	5,696.4	0.00	0.00	0.00	
17,400.0	89.72	359.85	11,684.6	5,682.7	874.7	5,746.1	0.00	0.00	0.00	
17,450.0	89.72	359.85	11,684.9	5,732.7	874.6	5,795.7	0.00	0.00	0.00	
17,500.0	89.72	359.85	11,685.1	5,782.7	874.5	5,845.3	0.00	0.00	0.00	
17,550.0	89.72	359.85	11,685.4	5,832.7	874.4	5,895.0	0.00	0.00	0.00	
17,600.0	89.72	359.85	11,685.6	5,882.7	874.2	5,944.6	0.00	0.00	0.00	
17,650.0	89.72	359.85	11,685.9	5,932.7	874.1	5,994.3	0.00	0.00	0.00	
17,700.0	89.72	359.85	11,686.1	5,982.7	874.0	6,043.9	0.00	0.00	0.00	
17,750.0	89.72	359.85	11,686.4	6,032.7	873.8	6,093.5	0.00	0.00	0.00	
17,800.0	89.72	359.85	11,686.6	6,082.7	873.7	6,143.2	0.00	0.00	0.00	
17,850.0	89.72	359.85	11,686.9	6,132.7	873.6	6,192.8	0.00	0.00	0.00	
17,900.0	89.72	359.85	11,687.1	6,182.7	873.4	6,242.5	0.00	0.00	0.00	
17,950.0	89.72	359.85	11,687.4	6,232.7	873.3	6,292.1	0.00	0.00	0.00	
18,000.0	89.72	359.85	11,687.6	6,282.7	873.2	6,341.7	0.00	0.00	0.00	
18,050.0	89.72	359.85	11,687.9	6,332.7	873.0	6,391.4	0.00	0.00	0.00	
18,100.0	89.72	359.85	11,688.1	6,382.7	872.9	6,441.0	0.00	0.00	0.00	
18,150.0	89.72	359.85	11,688.3	6,432.7	872.8	6,490.6	0.00	0.00	0.00	
18,200.0	89.72	359.85	11,688.6	6,482.7	872.6	6,540.3	0.00	0.00	0.00	
18,250.0	89.72	359.85	11,688.8	6,532.7	872.5	6,589.9	0.00	0.00	0.00	
18,300.0	89.72	359.85	11,689.1	6,582.7	872.4	6,639.6	0.00	0.00	0.00	

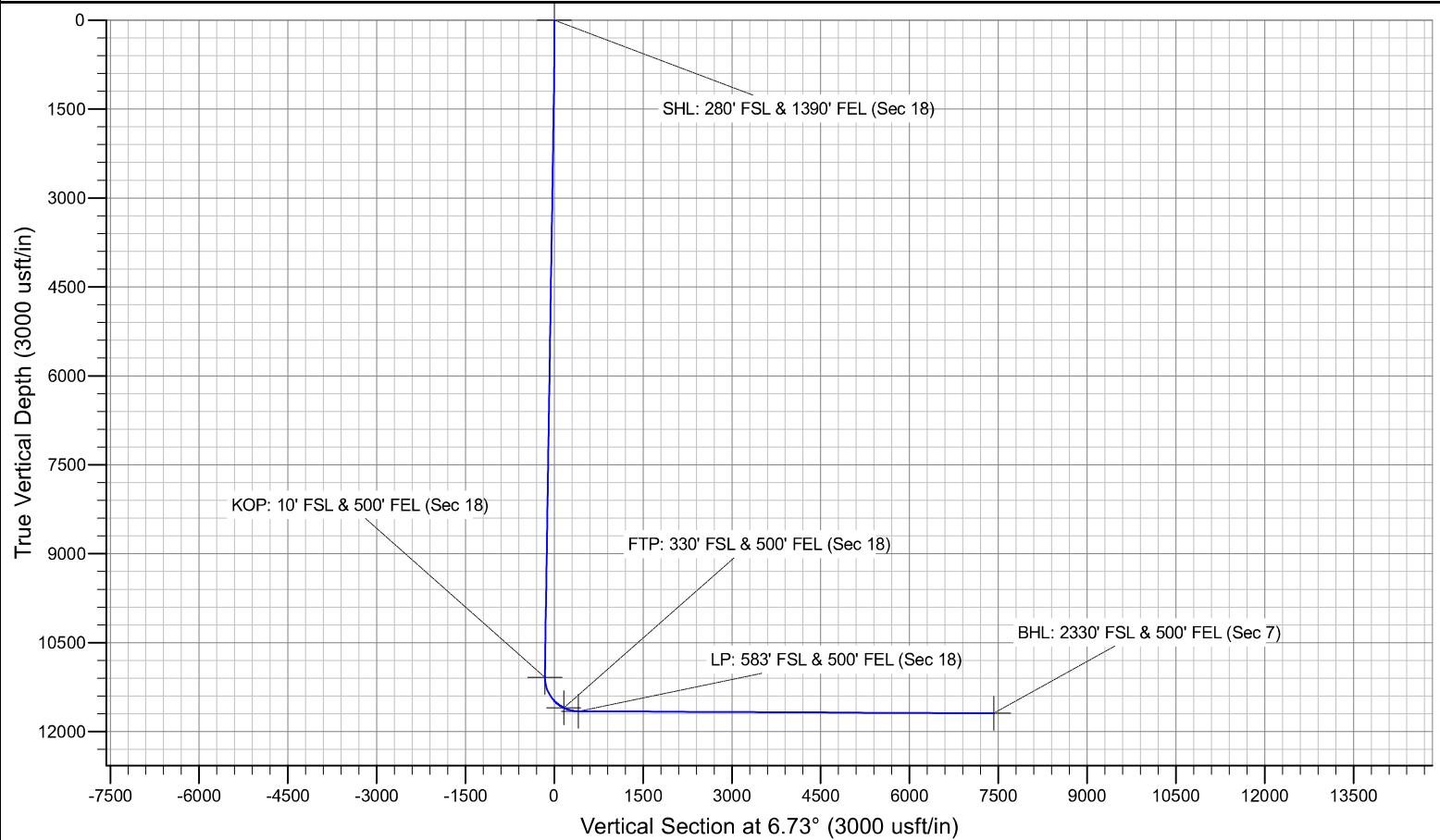
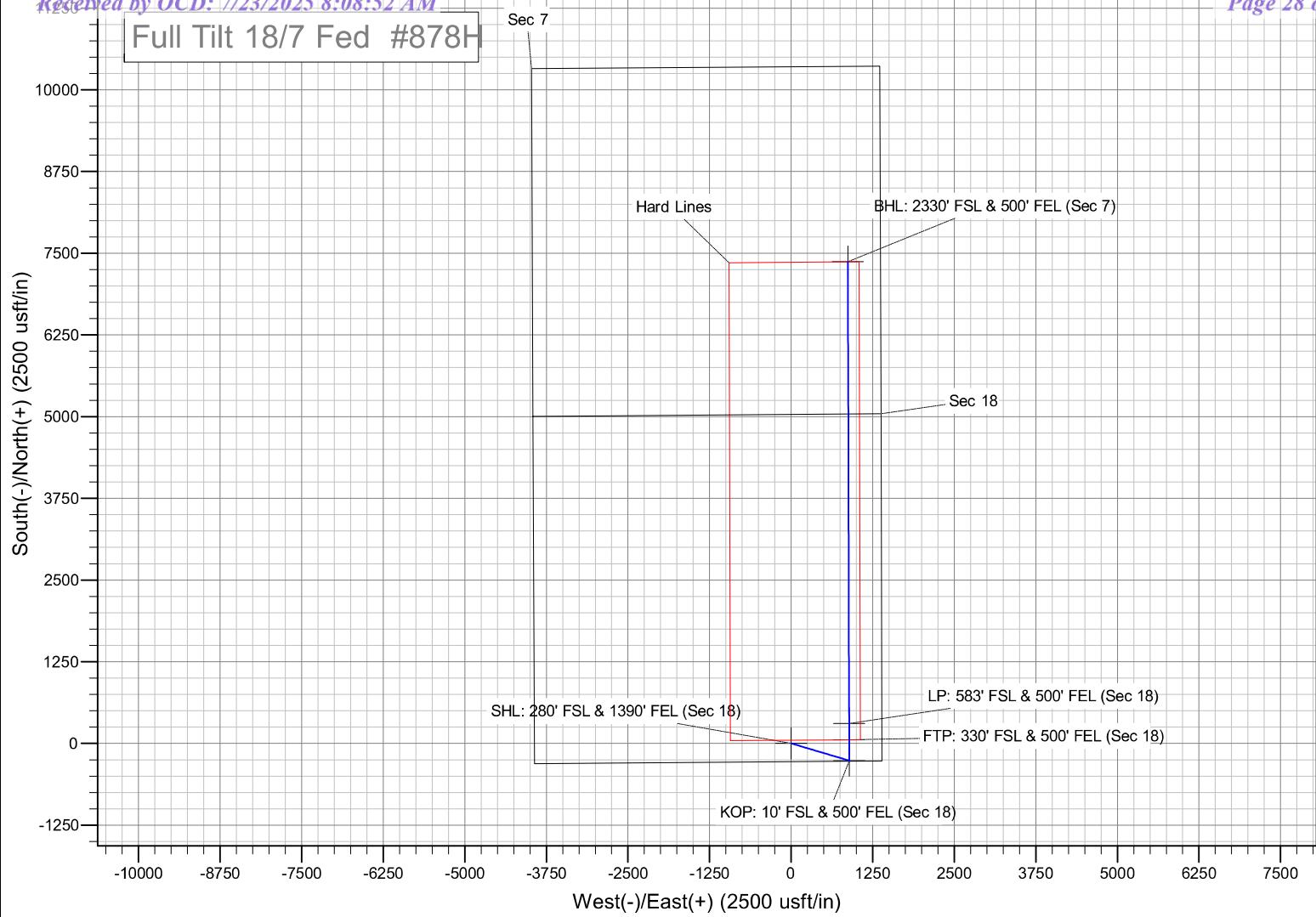
Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Hobbs Mewbourne Oil Company Eddy County, New Mexico NAD 83 Full Tilt 18/7 Fed #878H Sec 18, T26S, R30E BHL: 2330' FSL & 500' FEL (Sec 7) Design #1	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Full Tilt 18/7 Fed #878H WELL @ 3128.0usft (Original Well Elev) WELL @ 3128.0usft (Original Well Elev) Grid Minimum Curvature
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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	89.72	359.85	11,689.3	6,632.7	872.2	6,689.2	0.00	0.00	0.00
18,400.0	89.72	359.85	11,689.6	6,682.7	872.1	6,738.8	0.00	0.00	0.00
18,450.0	89.72	359.85	11,689.8	6,732.7	872.0	6,788.5	0.00	0.00	0.00
18,500.0	89.72	359.85	11,690.1	6,782.7	871.8	6,838.1	0.00	0.00	0.00
18,550.0	89.72	359.85	11,690.3	6,832.7	871.7	6,887.8	0.00	0.00	0.00
18,600.0	89.72	359.85	11,690.6	6,882.7	871.6	6,937.4	0.00	0.00	0.00
18,650.0	89.72	359.85	11,690.8	6,932.7	871.5	6,987.0	0.00	0.00	0.00
18,700.0	89.72	359.85	11,691.1	6,982.7	871.3	7,036.7	0.00	0.00	0.00
18,750.0	89.72	359.85	11,691.3	7,032.7	871.2	7,086.3	0.00	0.00	0.00
18,800.0	89.72	359.85	11,691.6	7,082.7	871.1	7,136.0	0.00	0.00	0.00
18,850.0	89.72	359.85	11,691.8	7,132.7	870.9	7,185.6	0.00	0.00	0.00
18,900.0	89.72	359.85	11,692.1	7,182.7	870.8	7,235.2	0.00	0.00	0.00
18,950.0	89.72	359.85	11,692.3	7,232.7	870.7	7,284.9	0.00	0.00	0.00
19,000.0	89.72	359.85	11,692.6	7,282.7	870.5	7,334.5	0.00	0.00	0.00
19,050.0	89.72	359.85	11,692.8	7,332.7	870.4	7,384.1	0.00	0.00	0.00
19,088.6	89.72	359.85	11,693.0	7,371.3	870.3	7,422.5	0.00	0.00	0.00
BHL: 2330' FSL & 500' FEL (Sec 7)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 280' FSL & 1390' F	0.00	0.00	0.0	0.0	0.0	377,071.50	670,493.90	32.0359645	-103.9165226
- plan hits target center									
- Point									
KOP: 10' FSL & 500' FEL	0.00	0.00	11,085.0	-262.8	890.4	376,808.70	671,384.30	32.0352326	-103.9136525
- plan hits target center									
- Point									
FTP: 330' FSL & 500' FE	0.00	0.00	11,599.1	57.1	889.6	377,128.60	671,383.45	32.0361120	-103.9136512
- plan hits target center									
- Point									
LP: 583' FSL & 500' FEL	0.00	0.00	11,658.0	307.4	888.9	377,378.86	671,382.79	32.0368000	-103.9136501
- plan hits target center									
- Point									
BHL: 2330' FSL & 500' F	0.00	0.00	11,693.0	7,371.3	870.3	384,442.80	671,364.20	32.0562183	-103.9136216
- plan hits target center									
- Point									

Full Tilt 18/7 Fed #878H



Mewbourne Oil Company, Full Tilt 18/7 Fed 878H
Sec 18, T26S, R30E
SHL: 280' FSL 1390' FEL (Sec 18)
BHL: 2330' FSL 500' FEL (Sec 7)

Well Location GL: 3100'

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 280' FSL & 1390' FEL (Sec 18)	NMNM031649	SWSE	18	26S	30E	Eddy	32.0359644	-103.9165227	0'	0'
KOP	KOP: 10' FSL & 500' FEL (Sec 18)	NMNM031649	SESE	18	26S	30E	Eddy	32.0352325	-103.9136525	11,085'	11,127'
FTP	FTP: 330' FSL & 500' FEL (Sec 18)	NMNM031649	SESE	18	26S	30E	Eddy	32.0361120	-103.9136510	11,599'	11,765'
BHL	BHL: 2330' FSL & 500' FEL (Sec 7)	NMNM031649	NENE	7	26S	30E	Eddy	32.0562182	-103.9136216	11,693'	19,088'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler	680'	Dolomite/Anhydrite	Usable Water	Delaware (Lamar)			
Castile				Bell Canyon	3460'	Sandstone	Oil/Natural Gas
Salt Top	960'	Salt	None	Cherry Canyon	4350'	Sandstone	Oil/Natural Gas
Marker Bed 126				Manzanita Marker			
Salt Base	3220'	Salt	None	Basal Brushy Canyon	5620'	Sandstone	Oil/Natural Gas
Yates				Bone Spring	7195'	Limestone/Shale	Oil/Natural Gas
Seven Rivers				1st Bone Spring Carbonate	7220'	Limestone	Oil/Natural Gas
Queen				1st Bone Spring Sand	8150'	Sandstone	Oil/Natural Gas
Capitan				2nd Bone Spring Carbonate	8585'	Limestone	Oil/Natural Gas
Grayburg				2nd Bone Spring Sand	8950'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring Carbonate	9250'	Limestone	Oil/Natural Gas
Glorietta				3rd Bone Spring Sand	10050'	Sandstone	Oil/Natural Gas
Yoso				Wolfcamp	10400'	Shale/Sandstone/Limestone	Oil/Natural Gas

Casing String	Hole Diameter (in)	Casing Program Design A				BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
		Top MD	Top TVD	Bottom MD	Bottom TVD				1.8 Wet	1.8 Wet
Surface	17.5"	0'	0'	755'	755'	13.375" 48# H40 STC	2.28	5.12	8.89	14.93
Intermediate	12.25"	0'	0'	3320'	3320'	9.625" 36# J55 LTC	1.15	2.00	3.79	4.72
Production	8.75"	0'	0'	11127'	11085'	7" 26# HCP110 LTC	1.40	1.78	2.40	2.87
Liner	6.125"	10927'	10916'	19088'	11693'	4.5" 13.5# P110 LTC	1.53	1.77	3.07	3.83

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

Is casing new? If used, attach certification as required in Onshore Order #1	Y or N
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-Q and SOPA?	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, Full Tilt 18/7 Fed 878H
Sec 18, T26S, R30E
SHL: 280' FSL 1390' FEL (Sec 18)
BHL: 2330' FSL 500' FEL (Sec 7)

Design A - Cement Program

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description
13.375 in	LEAD	370	12.5	2.12	0' - 564'	790	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	564' - 755'	268		Class C: Retarder
9.625 in	LEAD	490	12.5	2.12	0' - 2640'	1040	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2640' - 3320'	268		Class C: Retarder
7 in	LEAD	510	12.5	2.12	3120' - 7176'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	900	15.6	1.18	7176' - 11127'	1062		Class H: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	520	13.5	1.85	10927' - 19088'	970	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent

Pressure Control Equipment

BOP installed and tested before drilling hole (in):	Size (in)	System Rated WP	Type	Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#
			Blind Ram	X	5000#
			Pipe Ram	X	
			Double Ram		
			Other*		19,088'

*Specify if additional ram is utilized.

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

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

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

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

Mud Program

Depth (MD)	Mud Wt (ppg)	Mud Type
0' - 755'	8.4 - 8.6	Fresh Water
755' - 3320'	10.0 - 10.2	Brine
3320' - 11127'	8.6 - 9.7	Cut-Brine
11127' - 19088'	10.0 - 11.5	OBM

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

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring
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Mewbourne Oil Company, Full Tilt 18/7 Fed 878H
Sec 18, T26S, R30E
SHL: 280' FSL 1390' FEL (Sec 18)
BHL: 2330' FSL 500' FEL (Sec 7)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (11127') 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: Full Tilt 18/7 Fed #875H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

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

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6992 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.

<input type="checkbox"/> H2S is present
X H2S Plan attached

Mewbourne Oil Company, Full Tilt 18/7 Fed 878H
Sec 18, T26S, R30E
SHL: 280' FSL 1390' FEL (Sec 18)
BHL: 2330' FSL 500' FEL (Sec 7)

Other facets of operation

Mewbourne Oil Company also requests approval to implement additional designs as described below &/or in other attachments. BLM will be notified of elected design.

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

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry	1.6 Dry
Casing String	Hole Diameter (in)	Top MD	Top TVD	Bottom MD	Bottom TVD				1.8 Wet	1.8 Wet
Surface	17.5"	0'	0'	755'	755'	13.375" 48# H40 STC	2.28	5.12	8.89	14.93
Intermediate	12.25"	0'	0'	3320'	3320'	9.625" 36# J55 LTC	1.15	2.00	3.79	4.72
Production	8.75"	0'	0'	11850'	11630'	7" 26# HCP110 LTC	1.33	1.70	2.25	2.69
Liner	6.125"	11127'	11085'	19088'	11693'	4.5" 13.5# P110 LTC	1.53	1.77	3.14	3.93

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

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

Casing	Cement Stage	# sx	Density (ppg)	Yield (ft ³ /sack)	Depth (MD)	Volume (ft ³)	% Excess	Slurry Description	
								Class C: Salt, Gel, Extender, LCM	Class C: Retarder
13.375 in	LEAD	370	12.5	2.12	0' - 564'	790	100%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	564' - 755'	268		Class C: Retarder	
9.625 in	LEAD	490	12.5	2.12	0' - 2640'	1040	25%	Class C: Salt, Gel, Extender, LCM	
	TAIL	200	14.8	1.34	2640' - 3320'	268		Class C: Retarder	
1st Stg 7 in	LEAD	510	12.5	2.12	3120' - 7312'	1090	25%	Class C: Salt, Gel, Extender, LCM, Defoamer	
	TAIL	1000	15.6	1.18	7312' - 11850'	1180		Class H: Retarder, Fluid Loss, Defoamer	
4.5 in	LEAD	510	13.5	1.85	11127' - 19088'	950	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-settling Agent	

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 487864

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487864
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	1/21/2026