

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. **NMNM92171**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator **MEWBOURNE OIL COMPANY**

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 3/T25S/R28E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **YUMA 3/10 W2CN FED COM/1H**

9. API Well No.

10. Field and Pool or Exploratory Area
PURPLE SAGE WOLFCAMP/PURPLE SAGE WOLFC/

11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" 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 checked="" 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 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 recompleation 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.)

Mewbourne Oil Company requests approval to make the following changes to the approved APD (10400090169):

- 1) Change well name from Yuma 3/10 W2CN Fed Com #1H to Yuma 3/10 Fed Com #564H
- 2) Change target pool from Purple Sage; Wolfcamp (98220) to San Lorenzo; Bone Spring North (53610) & dedicated acreage from 640 to 320.
- 3) Change TVD from 10,638' to 8668' & adjust casing & cement design as detailed in the attachment.
- 4) A variance is requested to perform BOP break testing & off-line cementing, according to the attached procedures.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
ANDY TAYLOR / Ph: (575) 393-5905

Title **Engineer**

Signature (Electronic Submission)

Date **06/06/2024**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Title **Petroleum Engineer**

Date **06/07/2024**

Conditions of approval, if any, are attached to the application. The applicant warrants or certifies 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 **CARLSBAD**

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.

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: NENW / 295 FNL / 1790 FWL / TWSP: 25S / RANGE: 28E / SECTION: 3 / LAT: 32.1657018 / LONG: -104.0780262 (TVD: 27 feet, MD: 27 feet)
PPP: NENW / 100 FNL / 2310 FWL / TWSP: 25S / RANGE: 28E / SECTION: 3 / LAT: 32.1662405 / LONG: -104.0763515 (TVD: 10247 feet, MD: 10289 feet)
PPP: SESW / 1309 FSL / 2310 FWL / TWSP: 25S / RANGE: 28E / SECTION: 10 / LAT: 32.14096 / LONG: -104.0762849 (TVD: 10473 feet, MD: 19577 feet)
PPP: NESW / 2620 FSL / 2310 FWL / TWSP: 25S / RANGE: 28E / SECTION: 10 / LAT: 32.144563 / LONG: -104.0762944 (TVD: 10478 feet, MD: 18266 feet)
PPP: NENW / 0 FNL / 2310 FWL / TWSP: 25S / RANGE: 28E / SECTION: 10 / LAT: 32.1517824 / LONG: -104.0763134 (TVD: 10490 feet, MD: 15640 feet)
BHL: SESW / 100 FSL / 2310 FWL / TWSP: 25S / RANGE: 28E / SECTION: 10 / LAT: 32.1376359 / LONG: -104.0762761 (TVD: 10467 feet, MD: 20786 feet)

CONFIDENTIAL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	YUMA 3/10 FED COM 564H
APD ID:	10400090169
SURFACE HOLE FOOTAGE:	295'N & 1790'/W
BOTTOM HOLE FOOTAGE	100'/S & 2310'/W
SURFACE LOCATION:	Section 3, T.25 S., R.28 E. NMP.
COUNTY:	Eddy County, New Mexico

COA

H ₂ S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-Q
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Other Variances	<input checked="" type="checkbox"/> Offline cementing	<input type="checkbox"/> Squeeze cement	<input checked="" type="checkbox"/> Break testing
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

SEE THE 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

1. The **13-3/8** inch surface casing shall be set at approximately **500 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 in a competent bed at approximately **2,475 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**.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - **Cement to surface.** If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst**.
- ❖ In High 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 in. 26#/ft. HCP-110** production casing at approximately **8,110 ft.** (8,095 ft. TVD). The minimum required fill of cement behind the **7 in.** production casing is:

Option 1 (Single Stage): Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to **cave/karst**.

Option 2 (Two-stage): Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. 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.
- d. Second stage above DV tool:

- Cement should tie-back **at least 200 feet** into previous casing string. Operator shall provide method of verification. If cement does not circulate, contact the appropriate BLM office. 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.

B. PRESSURE CONTROL

1. Variance approved to use **flex line** from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**. 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 (Approved)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system))

- BOPE Break Testing is ONLY permitted for 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 (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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 cementing offline at **Eddy County: 575-361-2822**.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

- rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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 dog house or stairway area.
 3. For at least one well per pad (deepest well preferred) the record of drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole within 30 days from completion. Only digital copies of the logs in .TIF or .LAS formats are necessary; Logs shall be emailed to blm-cfo-geology@doimsp.onmicrosoft.com. The email should have a subject line with the US Well Number / API Number, well name, and the body should include the starting depth and the TVD of the log.

The top of the Rustler, top and bottom of the salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the 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.)
 - c. 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 part 3170 Subpart 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).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 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 06/07/2024

Mewbourne Oil Company, Yuma 3/10 Fed Com #564H
Sec 3, T25S, R28E
SHL: 295' FNL & 1790' FWL (3)
BHL: 100' FSL & 2310' FWL (10)

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
8.75"	0'	8110'	7"	26	HCP110	LTC	1.93	2.46	3.29	4.41
6.125"	7910'	18,933'	4.5"	13.5	P110	LTC	2.37	2.75	2.27	2.84
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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?	Y
If yes, are there two strings cemented to surface?	Y
(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, Yuma 3/10 Fed Com #564H
Sec 3, T25S, R28E
SHL: 295' FNL & 1790' FWL (3)
BHL: 100' FSL & 2310' FWL (10)

Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Prod.	300	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class C + Retarder
Liner	440	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Production	2275'	25%
Liner	7910'	25%

Formation	Depth (TVD) from KB
Quaternary Fill	Surface
Rustler	
Top of Salt	
Castile	1087
Base of Salt	2396
Yates	
Capitan	
Delaware	2591
Bell Canyon	2612
Cherry Canyon	3442
Manzanita Marker	3596
Brushy Canyon	5988
Bone Spring	6283
1 st Bone Spring Sand	7220
2 nd Bone Spring Sand	7999
3 rd Bone Spring Sand	
Abo	
Wolfcamp	
Devonian	
Ellenburger	
Granite Wash	

MEWBOURNE OIL COMPANY

EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)

SEC. 3 T25S R28E

YUMA 3/10 FED COM #564H

ORIGINAL WELLBORE

15 May, 2024

Plan: PROPOSAL #1

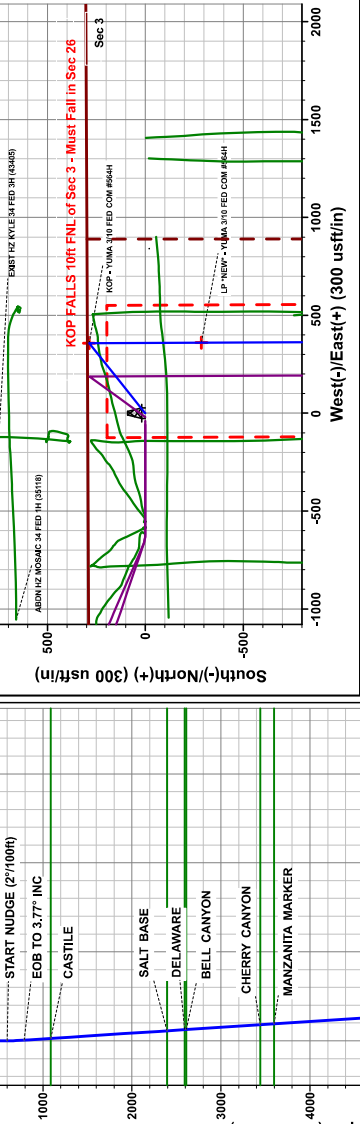


Project: EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)
Site: SEC. 3 T25S R28E
Well: YUMA 3/10 FED COM #564H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

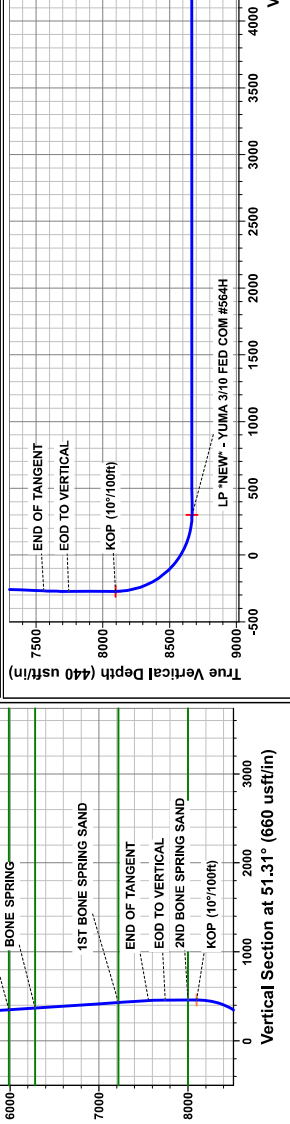


ANNOTATIONS									
MD	Inc	Azi	TVD	+N-S	+E-W	V-Section	Dep	Annotation	
600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	295ft FNL & 1750ft FWL of Sec 3	
600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 295ft FNL & 1750ft FWL of Sec 3	
788.53	3.77	51.31	788.39	3.88	4.84	-3.68	6.20	EOB TO 3.77" INC	
751.47	3.77	51.31	755.65	282.73	352.98	-265.47	452.25	END OF TANGENT	
7759.99	0.00	0.00	7745.04	286.61	357.82	-272.15	458.45	EOB TO VERTICAL	
8109.99	0.00	0.00	8095.04	286.61	357.82	-272.15	458.45	KOP (107/100ft)	
9010.23	90.02	175.73	8665.00	-286.57	360.47	300.68	1031.84	LP *NEW*: 583.18ft FNL & 2150ft FWL of Sec 3	
16332.71	90.02	175.73	8665.00	-10208.95	406.40	10217.04	10954.13	BHL: 100ft FSL & 2150ft FWL of Sec 10	

WELLBORE TARGET DETAILS (LAT/LONG)									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude		
KOP - YUMA 3/10 FED COM #564H	8095.04	286.61	357.82	424397.66	620694.94	32.166487	-104.076868		
BHL - YUMA 3/10 FED COM #564H	8665.00	-10208.95	406.40	413902.10	620743.52	32.137636	-104.076791		
LP *NEW* - YUMA 3/10 FED COM #564H	8665.00	-286.57	360.47	423824.48	620697.59	32.164912	-104.076863		



SETBACK BOUNDARIES
100ft FNL of Sec 3 & 100ft FSL of Sec 10
1667ft FWL & 2343ft FWL of Sec 3/10
KOP FALLS 10ft FNL of Sec 3 - MUST FALL WITHIN SEC 3





Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SEC. 3 T25S R28E				
Site Position:		Northing:	424,110.76 usft	Latitude:	32.165701
From:	Lat/Long	Easting:	620,277.20 usft	Longitude:	-104.078220
Position Uncertainty:	0.00 usft	Slot Radius:	1.10 ft	Grid Convergence:	0.14 °

Well	YUMA 3/10 FED COM #564H					
Well Position	+N/-S	0.29 usft	Northing:	424,111.05 usft	Latitude:	32.165702
	+E/-W	59.92 usft	Easting:	620,337.12 usft	Longitude:	-104.078026
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,999.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2024-05-15	6.43	59.68	47,107.16761600

Design	PROPOSAL #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	177.72	

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,027.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	-2,427.00	0.00	0.00	0.00	0.00	0.00	0.00	
788.53	3.77	51.31	788.39	-2,238.61	3.88	4.84	2.00	2.00	0.00	51.31	
7,571.47	3.77	51.31	7,556.65	4,529.65	282.73	352.98	0.00	0.00	0.00	0.00	
7,759.99	0.00	0.00	7,745.04	4,718.04	286.61	357.82	2.00	-2.00	0.00	180.00	
8,109.99	0.00	0.00	8,095.04	5,068.04	286.61	357.82	0.00	0.00	0.00	0.00	KOP - YUMA 3/10 F
9,010.23	90.02	179.73	8,668.00	5,641.00	-286.57	360.47	10.00	10.00	0.00	179.73	
18,932.71	90.02	179.73	8,664.00	5,637.00	-10,208.95	406.40	0.00	0.00	0.00	0.00	BHL - YUMA 3/10 F



Planning Report



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Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 295ft FNL & 1790ft FWL of Sec 3										
0.00	0.00	0.00	0.00	3,027.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	2,927.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	2,827.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	2,727.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	2,627.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	2,527.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft)										
600.00	0.00	0.00	600.00	2,427.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	51.31	699.98	2,327.02	1.09	1.36	-1.04	2.00	2.00	0.00
EOB TO 3.77° INC										
788.53	3.77	51.31	788.39	2,238.61	3.88	4.84	-3.68	2.00	2.00	0.00
800.00	3.77	51.31	799.84	2,227.16	4.35	5.43	-4.13	0.00	0.00	0.00
900.00	3.77	51.31	899.62	2,127.38	8.46	10.56	-8.03	0.00	0.00	0.00
1,000.00	3.77	51.31	999.41	2,027.59	12.57	15.69	-11.94	0.00	0.00	0.00
CASTILE										
1,087.78	3.77	51.31	1,087.00	1,940.00	16.18	20.20	-15.36	0.00	0.00	0.00
1,100.00	3.77	51.31	1,099.19	1,927.81	16.68	20.83	-15.84	0.00	0.00	0.00
1,200.00	3.77	51.31	1,198.97	1,828.03	20.79	25.96	-19.74	0.00	0.00	0.00
1,300.00	3.77	51.31	1,298.76	1,728.24	24.90	31.09	-23.65	0.00	0.00	0.00
1,400.00	3.77	51.31	1,398.54	1,628.46	29.02	36.22	-27.55	0.00	0.00	0.00
1,500.00	3.77	51.31	1,498.32	1,528.68	33.13	41.36	-31.46	0.00	0.00	0.00
1,600.00	3.77	51.31	1,598.11	1,428.89	37.24	46.49	-35.36	0.00	0.00	0.00
1,700.00	3.77	51.31	1,697.89	1,329.11	41.35	51.62	-39.26	0.00	0.00	0.00
1,800.00	3.77	51.31	1,797.67	1,229.33	45.46	56.75	-43.17	0.00	0.00	0.00
1,900.00	3.77	51.31	1,897.46	1,129.54	49.57	61.89	-47.07	0.00	0.00	0.00
2,000.00	3.77	51.31	1,997.24	1,029.76	53.68	67.02	-50.97	0.00	0.00	0.00
2,100.00	3.77	51.31	2,097.03	929.97	57.79	72.15	-54.88	0.00	0.00	0.00
2,200.00	3.77	51.31	2,196.81	830.19	61.90	77.28	-58.78	0.00	0.00	0.00
2,300.00	3.77	51.31	2,296.59	730.41	66.02	82.42	-62.69	0.00	0.00	0.00
SALT BASE										
2,399.62	3.77	51.31	2,396.00	631.00	70.11	87.53	-66.57	0.00	0.00	0.00
2,400.00	3.77	51.31	2,396.38	630.62	70.13	87.55	-66.59	0.00	0.00	0.00
2,500.00	3.77	51.31	2,496.16	530.84	74.24	92.68	-70.49	0.00	0.00	0.00
DELAWARE										
2,595.05	3.77	51.31	2,591.00	436.00	78.15	97.56	-74.20	0.00	0.00	0.00
2,600.00	3.77	51.31	2,595.94	431.06	78.35	97.82	-74.40	0.00	0.00	0.00
BELL CANYON										
2,616.09	3.77	51.31	2,612.00	415.00	79.01	98.64	-75.02	0.00	0.00	0.00
2,700.00	3.77	51.31	2,695.73	331.27	82.46	102.95	-78.30	0.00	0.00	0.00
2,800.00	3.77	51.31	2,795.51	231.49	86.57	108.08	-82.20	0.00	0.00	0.00
2,900.00	3.77	51.31	2,895.29	131.71	90.68	113.21	-86.11	0.00	0.00	0.00
3,000.00	3.77	51.31	2,995.08	31.92	94.79	118.35	-90.01	0.00	0.00	0.00
3,100.00	3.77	51.31	3,094.86	-67.86	98.90	123.48	-93.91	0.00	0.00	0.00
3,200.00	3.77	51.31	3,194.64	-167.64	103.02	128.61	-97.82	0.00	0.00	0.00
3,300.00	3.77	51.31	3,294.43	-267.43	107.13	133.74	-101.72	0.00	0.00	0.00
3,400.00	3.77	51.31	3,394.21	-367.21	111.24	138.88	-105.63	0.00	0.00	0.00
CHERRY CANYON										
3,447.89	3.77	51.31	3,442.00	-415.00	113.21	141.33	-107.50	0.00	0.00	0.00
3,500.00	3.77	51.31	3,493.99	-466.99	115.35	144.01	-109.53	0.00	0.00	0.00
3,600.00	3.77	51.31	3,593.78	-566.78	119.46	149.14	-113.43	0.00	0.00	0.00
MANZANITA MARKER										



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,602.23	3.77	51.31	3,596.00	-569.00	119.55	149.26	-113.52	0.00	0.00	0.00
3,700.00	3.77	51.31	3,693.56	-666.56	123.57	154.27	-117.34	0.00	0.00	0.00
3,800.00	3.77	51.31	3,793.35	-766.35	127.68	159.41	-121.24	0.00	0.00	0.00
3,900.00	3.77	51.31	3,893.13	-866.13	131.79	164.54	-125.14	0.00	0.00	0.00
4,000.00	3.77	51.31	3,992.91	-965.91	135.91	169.67	-129.05	0.00	0.00	0.00
4,100.00	3.77	51.31	4,092.70	-1,065.70	140.02	174.80	-132.95	0.00	0.00	0.00
4,200.00	3.77	51.31	4,192.48	-1,165.48	144.13	179.94	-136.86	0.00	0.00	0.00
4,300.00	3.77	51.31	4,292.26	-1,265.26	148.24	185.07	-140.76	0.00	0.00	0.00
4,400.00	3.77	51.31	4,392.05	-1,365.05	152.35	190.20	-144.66	0.00	0.00	0.00
4,500.00	3.77	51.31	4,491.83	-1,464.83	156.46	195.33	-148.57	0.00	0.00	0.00
4,600.00	3.77	51.31	4,591.61	-1,564.61	160.57	200.47	-152.47	0.00	0.00	0.00
4,700.00	3.77	51.31	4,691.40	-1,664.40	164.68	205.60	-156.37	0.00	0.00	0.00
4,800.00	3.77	51.31	4,791.18	-1,764.18	168.79	210.73	-160.28	0.00	0.00	0.00
4,900.00	3.77	51.31	4,890.96	-1,863.96	172.91	215.86	-164.18	0.00	0.00	0.00
5,000.00	3.77	51.31	4,990.75	-1,963.75	177.02	221.00	-168.09	0.00	0.00	0.00
5,100.00	3.77	51.31	5,090.53	-2,063.53	181.13	226.13	-171.99	0.00	0.00	0.00
5,200.00	3.77	51.31	5,190.31	-2,163.31	185.24	231.26	-175.89	0.00	0.00	0.00
5,300.00	3.77	51.31	5,290.10	-2,263.10	189.35	236.40	-179.80	0.00	0.00	0.00
5,400.00	3.77	51.31	5,389.88	-2,362.88	193.46	241.53	-183.70	0.00	0.00	0.00
5,500.00	3.77	51.31	5,489.67	-2,462.67	197.57	246.66	-187.60	0.00	0.00	0.00
5,600.00	3.77	51.31	5,589.45	-2,562.45	201.68	251.79	-191.51	0.00	0.00	0.00
5,700.00	3.77	51.31	5,689.23	-2,662.23	205.79	256.93	-195.41	0.00	0.00	0.00
5,800.00	3.77	51.31	5,789.02	-2,762.02	209.91	262.06	-199.32	0.00	0.00	0.00
5,900.00	3.77	51.31	5,888.80	-2,861.80	214.02	267.19	-203.22	0.00	0.00	0.00
BASAL BRUSHY CANYON										
5,999.42	3.77	51.31	5,988.00	-2,961.00	218.10	272.29	-207.10	0.00	0.00	0.00
6,000.00	3.77	51.31	5,988.58	-2,961.58	218.13	272.32	-207.12	0.00	0.00	0.00
6,100.00	3.77	51.31	6,088.37	-3,061.37	222.24	277.46	-211.03	0.00	0.00	0.00
6,200.00	3.77	51.31	6,188.15	-3,161.15	226.35	282.59	-214.93	0.00	0.00	0.00
BONE SPRING										
6,295.06	3.77	51.31	6,283.00	-3,256.00	230.26	287.47	-218.64	0.00	0.00	0.00
6,300.00	3.77	51.31	6,287.93	-3,260.93	230.46	287.72	-218.83	0.00	0.00	0.00
6,400.00	3.77	51.31	6,387.72	-3,360.72	234.57	292.85	-222.74	0.00	0.00	0.00
6,500.00	3.77	51.31	6,487.50	-3,460.50	238.68	297.99	-226.64	0.00	0.00	0.00
6,600.00	3.77	51.31	6,587.28	-3,560.28	242.79	303.12	-230.55	0.00	0.00	0.00
6,700.00	3.77	51.31	6,687.07	-3,660.07	246.91	308.25	-234.45	0.00	0.00	0.00
6,800.00	3.77	51.31	6,786.85	-3,759.85	251.02	313.38	-238.35	0.00	0.00	0.00
6,900.00	3.77	51.31	6,886.64	-3,859.64	255.13	318.52	-242.26	0.00	0.00	0.00
7,000.00	3.77	51.31	6,986.42	-3,959.42	259.24	323.65	-246.16	0.00	0.00	0.00
7,100.00	3.77	51.31	7,086.20	-4,059.20	263.35	328.78	-250.06	0.00	0.00	0.00
7,200.00	3.77	51.31	7,185.99	-4,158.99	267.46	333.91	-253.97	0.00	0.00	0.00
1ST BONE SPRING SAND										
7,234.09	3.77	51.31	7,220.00	-4,193.00	268.86	335.66	-255.30	0.00	0.00	0.00
7,300.00	3.77	51.31	7,285.77	-4,258.77	271.57	339.05	-257.87	0.00	0.00	0.00
7,400.00	3.77	51.31	7,385.55	-4,358.55	275.68	344.18	-261.78	0.00	0.00	0.00
7,500.00	3.77	51.31	7,485.34	-4,458.34	279.80	349.31	-265.68	0.00	0.00	0.00
END OF TANGENT										
7,571.47	3.77	51.31	7,556.65	-4,529.65	282.73	352.98	-268.47	0.00	0.00	0.00
7,600.00	3.20	51.31	7,585.13	-4,558.13	283.82	354.33	-269.50	2.00	-2.00	0.00
7,700.00	1.20	51.31	7,685.05	-4,658.05	286.22	357.33	-271.78	2.00	-2.00	0.00
EOD TO VERTICAL										
7,759.99	0.00	0.00	7,745.04	-4,718.04	286.61	357.82	-272.15	2.00	-2.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,800.00	0.00	0.00	7,785.05	-4,758.05	286.61	357.82	-272.15	0.00	0.00	0.00
7,900.00	0.00	0.00	7,885.05	-4,858.05	286.61	357.82	-272.15	0.00	0.00	0.00
8,000.00	0.00	0.00	7,985.05	-4,958.05	286.61	357.82	-272.15	0.00	0.00	0.00
2ND BONE SPRING SAND										
8,013.95	0.00	0.00	7,999.00	-4,972.00	286.61	357.82	-272.15	0.00	0.00	0.00
8,100.00	0.00	0.00	8,085.05	-5,058.05	286.61	357.82	-272.15	0.00	0.00	0.00
KOP (10°/100ft)										
8,109.99	0.00	0.00	8,095.04	-5,068.04	286.61	357.82	-272.15	0.00	0.00	0.00
8,200.00	9.00	179.73	8,184.68	-5,157.68	279.56	357.85	-265.10	10.00	10.00	0.00
8,300.00	19.00	179.73	8,281.58	-5,254.58	255.39	357.96	-240.95	10.00	10.00	0.00
8,400.00	29.00	179.73	8,372.82	-5,345.82	214.77	358.15	-200.35	10.00	10.00	0.00
8,500.00	39.00	179.73	8,455.62	-5,428.62	158.92	358.41	-144.54	10.00	10.00	0.00
8,600.00	49.00	179.73	8,527.46	-5,500.46	89.54	358.73	-75.20	10.00	10.00	0.00
8,700.00	59.00	179.73	8,586.16	-5,559.16	8.75	359.11	5.55	10.00	10.00	0.00
8,800.00	69.00	179.73	8,629.94	-5,602.94	-81.02	359.52	95.26	10.00	10.00	0.00
8,900.00	79.00	179.73	8,657.47	-5,630.47	-177.02	359.97	191.20	10.00	10.00	0.00
9,000.00	89.00	179.73	8,667.91	-5,640.91	-276.35	360.43	290.47	10.00	10.00	0.00
LP *NEW*: 583.18ft FNL & 2150ft FWL of Sec 3										
9,010.23	90.02	179.73	8,668.00	-5,641.00	-286.57	360.47	300.68	10.00	10.00	0.00
9,100.00	90.02	179.73	8,667.96	-5,640.96	-376.35	360.89	390.40	0.00	0.00	0.00
9,200.00	90.02	179.73	8,667.92	-5,640.92	-476.35	361.35	490.34	0.00	0.00	0.00
9,300.00	90.02	179.73	8,667.88	-5,640.88	-576.34	361.81	590.28	0.00	0.00	0.00
9,400.00	90.02	179.73	8,667.84	-5,640.84	-676.34	362.28	690.22	0.00	0.00	0.00
9,500.00	90.02	179.73	8,667.80	-5,640.80	-776.34	362.74	790.16	0.00	0.00	0.00
9,600.00	90.02	179.73	8,667.76	-5,640.76	-876.34	363.20	890.09	0.00	0.00	0.00
9,700.00	90.02	179.73	8,667.72	-5,640.72	-976.34	363.67	990.03	0.00	0.00	0.00
9,800.00	90.02	179.73	8,667.68	-5,640.68	-1,076.34	364.13	1,089.97	0.00	0.00	0.00
9,900.00	90.02	179.73	8,667.64	-5,640.64	-1,176.34	364.59	1,189.91	0.00	0.00	0.00
10,000.00	90.02	179.73	8,667.60	-5,640.60	-1,276.34	365.05	1,289.85	0.00	0.00	0.00
10,100.00	90.02	179.73	8,667.56	-5,640.56	-1,376.34	365.52	1,389.79	0.00	0.00	0.00
10,200.00	90.02	179.73	8,667.52	-5,640.52	-1,476.33	365.98	1,489.72	0.00	0.00	0.00
10,300.00	90.02	179.73	8,667.48	-5,640.48	-1,576.33	366.44	1,589.66	0.00	0.00	0.00
10,400.00	90.02	179.73	8,667.44	-5,640.44	-1,676.33	366.91	1,689.60	0.00	0.00	0.00
10,500.00	90.02	179.73	8,667.40	-5,640.40	-1,776.33	367.37	1,789.54	0.00	0.00	0.00
10,600.00	90.02	179.73	8,667.36	-5,640.36	-1,876.33	367.83	1,889.48	0.00	0.00	0.00
10,700.00	90.02	179.73	8,667.32	-5,640.32	-1,976.33	368.29	1,989.41	0.00	0.00	0.00
10,800.00	90.02	179.73	8,667.28	-5,640.28	-2,076.33	368.76	2,089.35	0.00	0.00	0.00
10,900.00	90.02	179.73	8,667.24	-5,640.24	-2,176.33	369.22	2,189.29	0.00	0.00	0.00
11,000.00	90.02	179.73	8,667.20	-5,640.20	-2,276.33	369.68	2,289.23	0.00	0.00	0.00
11,100.00	90.02	179.73	8,667.16	-5,640.16	-2,376.32	370.15	2,389.17	0.00	0.00	0.00
11,200.00	90.02	179.73	8,667.11	-5,640.11	-2,476.32	370.61	2,489.11	0.00	0.00	0.00
11,300.00	90.02	179.73	8,667.07	-5,640.07	-2,576.32	371.07	2,589.04	0.00	0.00	0.00
11,400.00	90.02	179.73	8,667.03	-5,640.03	-2,676.32	371.53	2,688.98	0.00	0.00	0.00
11,500.00	90.02	179.73	8,666.99	-5,639.99	-2,776.32	372.00	2,788.92	0.00	0.00	0.00
11,600.00	90.02	179.73	8,666.95	-5,639.95	-2,876.32	372.46	2,888.86	0.00	0.00	0.00
11,700.00	90.02	179.73	8,666.91	-5,639.91	-2,976.32	372.92	2,988.80	0.00	0.00	0.00
11,800.00	90.02	179.73	8,666.87	-5,639.87	-3,076.32	373.39	3,088.73	0.00	0.00	0.00
11,900.00	90.02	179.73	8,666.83	-5,639.83	-3,176.32	373.85	3,188.67	0.00	0.00	0.00
12,000.00	90.02	179.73	8,666.79	-5,639.79	-3,276.32	374.31	3,288.61	0.00	0.00	0.00
12,100.00	90.02	179.73	8,666.75	-5,639.75	-3,376.31	374.77	3,388.55	0.00	0.00	0.00
12,200.00	90.02	179.73	8,666.71	-5,639.71	-3,476.31	375.24	3,488.49	0.00	0.00	0.00
12,300.00	90.02	179.73	8,666.67	-5,639.67	-3,576.31	375.70	3,588.43	0.00	0.00	0.00
12,400.00	90.02	179.73	8,666.63	-5,639.63	-3,676.31	376.16	3,688.36	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.00	90.02	179.73	8,666.59	-5,639.59	-3,776.31	376.63	3,788.30	0.00	0.00	0.00
12,600.00	90.02	179.73	8,666.55	-5,639.55	-3,876.31	377.09	3,888.24	0.00	0.00	0.00
12,700.00	90.02	179.73	8,666.51	-5,639.51	-3,976.31	377.55	3,988.18	0.00	0.00	0.00
12,800.00	90.02	179.73	8,666.47	-5,639.47	-4,076.31	378.01	4,088.12	0.00	0.00	0.00
12,900.00	90.02	179.73	8,666.43	-5,639.43	-4,176.31	378.48	4,188.05	0.00	0.00	0.00
13,000.00	90.02	179.73	8,666.39	-5,639.39	-4,276.30	378.94	4,287.99	0.00	0.00	0.00
13,100.00	90.02	179.73	8,666.35	-5,639.35	-4,376.30	379.40	4,387.93	0.00	0.00	0.00
13,200.00	90.02	179.73	8,666.31	-5,639.31	-4,476.30	379.87	4,487.87	0.00	0.00	0.00
13,300.00	90.02	179.73	8,666.27	-5,639.27	-4,576.30	380.33	4,587.81	0.00	0.00	0.00
13,400.00	90.02	179.73	8,666.23	-5,639.23	-4,676.30	380.79	4,687.75	0.00	0.00	0.00
13,500.00	90.02	179.73	8,666.19	-5,639.19	-4,776.30	381.25	4,787.68	0.00	0.00	0.00
13,600.00	90.02	179.73	8,666.15	-5,639.15	-4,876.30	381.72	4,887.62	0.00	0.00	0.00
13,700.00	90.02	179.73	8,666.11	-5,639.11	-4,976.30	382.18	4,987.56	0.00	0.00	0.00
13,800.00	90.02	179.73	8,666.07	-5,639.07	-5,076.30	382.64	5,087.50	0.00	0.00	0.00
13,900.00	90.02	179.73	8,666.03	-5,639.03	-5,176.29	383.11	5,187.44	0.00	0.00	0.00
14,000.00	90.02	179.73	8,665.99	-5,638.99	-5,276.29	383.57	5,287.37	0.00	0.00	0.00
14,100.00	90.02	179.73	8,665.95	-5,638.95	-5,376.29	384.03	5,387.31	0.00	0.00	0.00
14,200.00	90.02	179.73	8,665.91	-5,638.91	-5,476.29	384.49	5,487.25	0.00	0.00	0.00
14,300.00	90.02	179.73	8,665.87	-5,638.87	-5,576.29	384.96	5,587.19	0.00	0.00	0.00
14,400.00	90.02	179.73	8,665.82	-5,638.82	-5,676.29	385.42	5,687.13	0.00	0.00	0.00
14,500.00	90.02	179.73	8,665.78	-5,638.78	-5,776.29	385.88	5,787.07	0.00	0.00	0.00
14,600.00	90.02	179.73	8,665.74	-5,638.74	-5,876.29	386.35	5,887.00	0.00	0.00	0.00
14,700.00	90.02	179.73	8,665.70	-5,638.70	-5,976.29	386.81	5,986.94	0.00	0.00	0.00
14,800.00	90.02	179.73	8,665.66	-5,638.66	-6,076.28	387.27	6,086.88	0.00	0.00	0.00
14,900.00	90.02	179.73	8,665.62	-5,638.62	-6,176.28	387.73	6,186.82	0.00	0.00	0.00
15,000.00	90.02	179.73	8,665.58	-5,638.58	-6,276.28	388.20	6,286.76	0.00	0.00	0.00
15,100.00	90.02	179.73	8,665.54	-5,638.54	-6,376.28	388.66	6,386.69	0.00	0.00	0.00
15,200.00	90.02	179.73	8,665.50	-5,638.50	-6,476.28	389.12	6,486.63	0.00	0.00	0.00
15,300.00	90.02	179.73	8,665.46	-5,638.46	-6,576.28	389.59	6,586.57	0.00	0.00	0.00
15,400.00	90.02	179.73	8,665.42	-5,638.42	-6,676.28	390.05	6,686.51	0.00	0.00	0.00
15,500.00	90.02	179.73	8,665.38	-5,638.38	-6,776.28	390.51	6,786.45	0.00	0.00	0.00
15,600.00	90.02	179.73	8,665.34	-5,638.34	-6,876.28	390.97	6,886.39	0.00	0.00	0.00
15,700.00	90.02	179.73	8,665.30	-5,638.30	-6,976.28	391.44	6,986.32	0.00	0.00	0.00
15,800.00	90.02	179.73	8,665.26	-5,638.26	-7,076.27	391.90	7,086.26	0.00	0.00	0.00
15,900.00	90.02	179.73	8,665.22	-5,638.22	-7,176.27	392.36	7,186.20	0.00	0.00	0.00
16,000.00	90.02	179.73	8,665.18	-5,638.18	-7,276.27	392.83	7,286.14	0.00	0.00	0.00
16,100.00	90.02	179.73	8,665.14	-5,638.14	-7,376.27	393.29	7,386.08	0.00	0.00	0.00
16,200.00	90.02	179.73	8,665.10	-5,638.10	-7,476.27	393.75	7,486.02	0.00	0.00	0.00
16,300.00	90.02	179.73	8,665.06	-5,638.06	-7,576.27	394.21	7,585.95	0.00	0.00	0.00
16,400.00	90.02	179.73	8,665.02	-5,638.02	-7,676.27	394.68	7,685.89	0.00	0.00	0.00
16,500.00	90.02	179.73	8,664.98	-5,637.98	-7,776.27	395.14	7,785.83	0.00	0.00	0.00
16,600.00	90.02	179.73	8,664.94	-5,637.94	-7,876.27	395.60	7,885.77	0.00	0.00	0.00
16,700.00	90.02	179.73	8,664.90	-5,637.90	-7,976.26	396.07	7,985.71	0.00	0.00	0.00
16,800.00	90.02	179.73	8,664.86	-5,637.86	-8,076.26	396.53	8,085.64	0.00	0.00	0.00
16,900.00	90.02	179.73	8,664.82	-5,637.82	-8,176.26	396.99	8,185.58	0.00	0.00	0.00
17,000.00	90.02	179.73	8,664.78	-5,637.78	-8,276.26	397.45	8,285.52	0.00	0.00	0.00
17,100.00	90.02	179.73	8,664.74	-5,637.74	-8,376.26	397.92	8,385.46	0.00	0.00	0.00
17,200.00	90.02	179.73	8,664.70	-5,637.70	-8,476.26	398.38	8,485.40	0.00	0.00	0.00
17,300.00	90.02	179.73	8,664.66	-5,637.66	-8,576.26	398.84	8,585.34	0.00	0.00	0.00
17,400.00	90.02	179.73	8,664.62	-5,637.62	-8,676.26	399.31	8,685.27	0.00	0.00	0.00
17,500.00	90.02	179.73	8,664.57	-5,637.57	-8,776.26	399.77	8,785.21	0.00	0.00	0.00
17,600.00	90.02	179.73	8,664.53	-5,637.53	-8,876.25	400.23	8,885.15	0.00	0.00	0.00
17,700.00	90.02	179.73	8,664.49	-5,637.49	-8,976.25	400.69	8,985.09	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,800.00	90.02	179.73	8,664.45	-5,637.45	-9,076.25	401.16	9,085.03	0.00	0.00	0.00
17,900.00	90.02	179.73	8,664.41	-5,637.41	-9,176.25	401.62	9,184.96	0.00	0.00	0.00
18,000.00	90.02	179.73	8,664.37	-5,637.37	-9,276.25	402.08	9,284.90	0.00	0.00	0.00
18,100.00	90.02	179.73	8,664.33	-5,637.33	-9,376.25	402.55	9,384.84	0.00	0.00	0.00
18,200.00	90.02	179.73	8,664.29	-5,637.29	-9,476.25	403.01	9,484.78	0.00	0.00	0.00
18,300.00	90.02	179.73	8,664.25	-5,637.25	-9,576.25	403.47	9,584.72	0.00	0.00	0.00
18,400.00	90.02	179.73	8,664.21	-5,637.21	-9,676.25	403.93	9,684.66	0.00	0.00	0.00
18,500.00	90.02	179.73	8,664.17	-5,637.17	-9,776.24	404.40	9,784.59	0.00	0.00	0.00
18,600.00	90.02	179.73	8,664.13	-5,637.13	-9,876.24	404.86	9,884.53	0.00	0.00	0.00
18,700.00	90.02	179.73	8,664.09	-5,637.09	-9,976.24	405.32	9,984.47	0.00	0.00	0.00
18,800.00	90.02	179.73	8,664.05	-5,637.05	-10,076.24	405.79	10,084.41	0.00	0.00	0.00
18,900.00	90.02	179.73	8,664.01	-5,637.01	-10,176.24	406.25	10,184.35	0.00	0.00	0.00
BHL: 100ft FSL & 2150ft FWL of Sec 10										
18,932.71	90.02	179.73	8,664.00	-5,637.00	-10,208.95	406.40	10,217.04	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,087.78	1,087.00	CASTILE		0.00	
2,399.62	2,396.00	SALT BASE		0.00	
2,595.05	2,591.00	DELAWARE		0.00	
2,616.09	2,612.00	BELL CANYON		0.00	
3,447.89	3,442.00	CHERRY CANYON		0.00	
3,602.23	3,596.00	MANZANITA MARKER		0.00	
5,999.42	5,988.00	BASAL BRUSHY CANYON		0.00	
6,295.06	6,283.00	BONE SPRING		0.00	
7,234.09	7,220.00	1ST BONE SPRING SAND		0.00	
8,013.95	7,999.00	2ND BONE SPRING SAND		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 295ft FNL & 1790ft FWL of Sec 3
600.00	600.00	0.00	0.00	START NUDGE (2°/100ft)
788.53	788.39	3.88	4.84	EOB TO 3.77° INC
7,571.47	7,556.65	282.73	352.98	END OF TANGENT
7,759.99	7,745.04	286.61	357.82	EOD TO VERTICAL
8,109.99	8,095.04	286.61	357.82	KOP (10°/100ft)
9,010.23	8,668.00	-286.57	360.47	LP *NEW*: 583.18ft FNL & 2150ft FWL of Sec 3
18,932.71	8,664.00	-10,208.95	406.40	BHL: 100ft FSL & 2150ft FWL of Sec 10

MEWBOURNE OIL COMPANY

EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)

SEC. 3 T25S R28E

YUMA 3/10 FED COM #564H

ORIGINAL WELLBORE

15 May, 2024

Plan: PROPOSAL #1

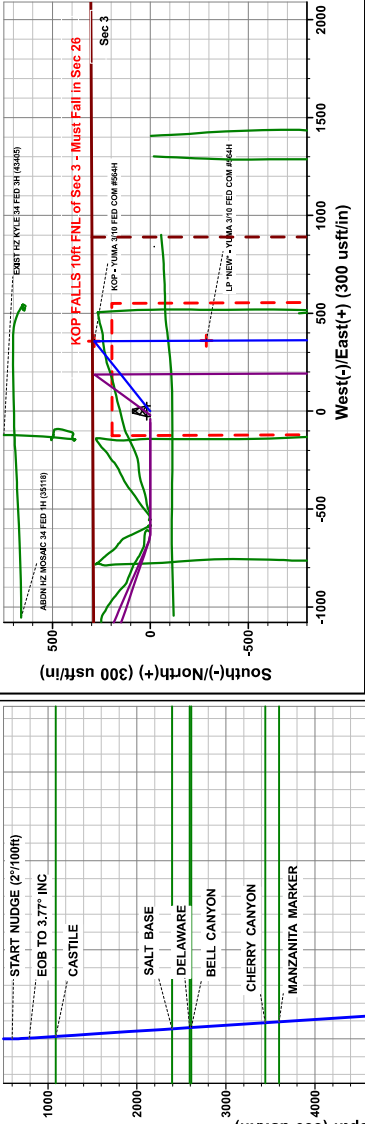


Project: EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)
Site: SEC. 3 T25S R28E
Well: YUMA 3/10 FED COM #564H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

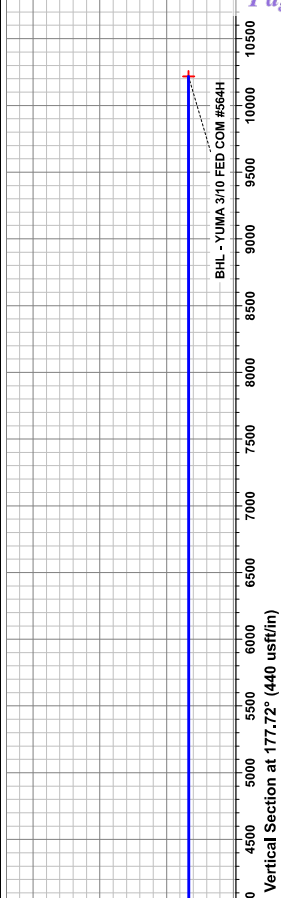
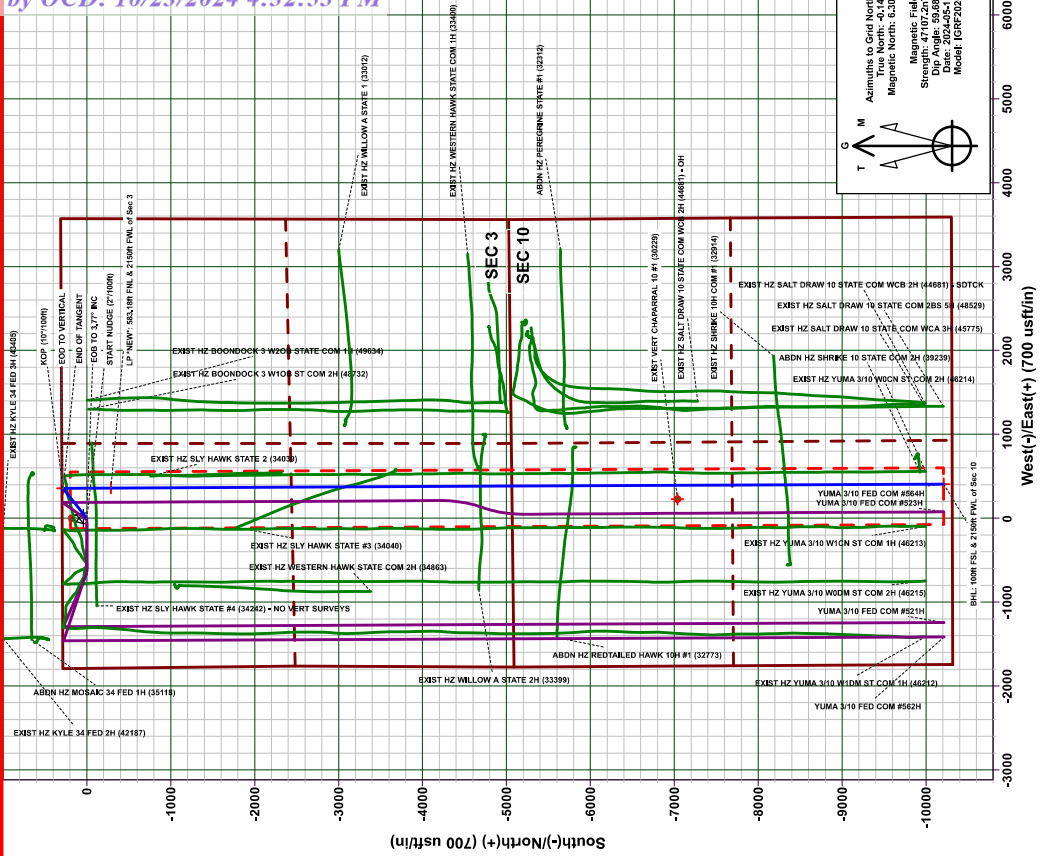
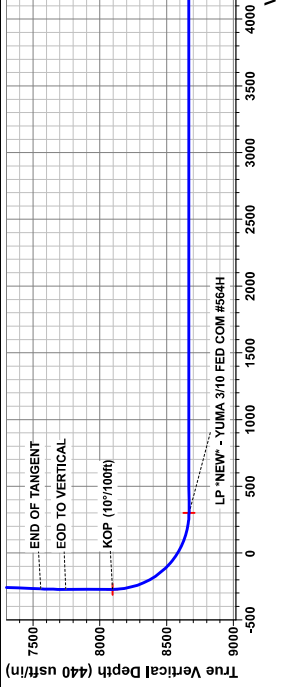


ANNOTATIONS									
MD	Inc	Azi	TVD	+N-S	+E-W	V-Section	Dep	Annotation	
600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	295R FNL & 1750R FWL of Sec 3	
600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 295R FNL & 1750R FWL Sec 3	
788.53	3.77	51.31	788.39	3.88	4.84	6.20	6.20	EOB TO 3.77" INC	
751.47	3.77	51.31	755.65	282.73	352.98	452.25	452.25	END OF TANGENT	
7759.99	0.00	0.00	7745.04	286.61	357.82	458.45	458.45	EOB TO VERTICAL	
8109.99	0.00	0.00	8095.04	286.61	357.82	458.45	458.45	KOP (107/100H)	
9010.23	90.02	175.73	8665.00	-286.57	360.47	300.68	1031.84	LP *NEW*: 583.18R FNL & 2150R FWL of Sec 3	
6932.71	90.02	175.73	8664.00	-10208.95	406.40	10217.04	10954.13	BHL: 100R FSL & 2150R FWL of Sec 10	

WELLBORE TARGET DETAILS (LAT/LONG)									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude		
KOP - YUMA 3/10 FED COM #564H	8095.04	286.61	357.82	424397.66	620694.94	32.166487	-104.076868		
BHL - YUMA 3/10 FED COM #564H	8664.00	-10208.95	406.40	413902.10	620743.52	32.137636	-104.076791		
LP *NEW* - YUMA 3/10 FED COM #564H	8665.00	-286.57	360.47	423824.48	620697.59	32.164912	-104.076863		



SETBACK BOUNDARIES
100R FNL of Sec 3 & 100R FSL of Sec 10
1667R FNL & 2343R FWL of Sec 3/10
KOP FALLS 10R FNL of Sec 3 - MUST FALL WITHIN SEC 3





Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SEC. 3 T25S R28E				
Site Position:		Northing:	424,110.76 usft	Latitude:	32.165701
From:	Lat/Long	Easting:	620,277.20 usft	Longitude:	-104.078220
Position Uncertainty:	0.00 usft	Slot Radius:	1.10 ft	Grid Convergence:	0.14 °

Well	YUMA 3/10 FED COM #564H					
Well Position	+N/-S	0.29 usft	Northing:	424,111.05 usft	Latitude:	32.165702
	+E/-W	59.92 usft	Easting:	620,337.12 usft	Longitude:	-104.078026
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,999.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2024-05-15	6.43	59.68	47,107.16761600

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	177.72

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,027.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	-2,427.00	0.00	0.00	0.00	0.00	0.00	0.00	
788.53	3.77	51.31	788.39	-2,238.61	3.88	4.84	2.00	2.00	0.00	51.31	
7,571.47	3.77	51.31	7,556.65	4,529.65	282.73	352.98	0.00	0.00	0.00	0.00	
7,759.99	0.00	0.00	7,745.04	4,718.04	286.61	357.82	2.00	-2.00	0.00	180.00	
8,109.99	0.00	0.00	8,095.04	5,068.04	286.61	357.82	0.00	0.00	0.00	0.00	KOP - YUMA 3/10 F
9,010.23	90.02	179.73	8,668.00	5,641.00	-286.57	360.47	10.00	10.00	0.00	179.73	
18,932.71	90.02	179.73	8,664.00	5,637.00	-10,208.95	406.40	0.00	0.00	0.00	0.00	BHL - YUMA 3/10 F



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 295ft FNL & 1790ft FWL of Sec 3										
0.00	0.00	0.00	0.00	3,027.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	2,927.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	2,827.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	2,727.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	2,627.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	2,527.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft)										
600.00	0.00	0.00	600.00	2,427.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	51.31	699.98	2,327.02	1.09	1.36	-1.04	2.00	2.00	0.00
EOB TO 3.77° INC										
788.53	3.77	51.31	788.39	2,238.61	3.88	4.84	-3.68	2.00	2.00	0.00
800.00	3.77	51.31	799.84	2,227.16	4.35	5.43	-4.13	0.00	0.00	0.00
900.00	3.77	51.31	899.62	2,127.38	8.46	10.56	-8.03	0.00	0.00	0.00
1,000.00	3.77	51.31	999.41	2,027.59	12.57	15.69	-11.94	0.00	0.00	0.00
CASTILE										
1,087.78	3.77	51.31	1,087.00	1,940.00	16.18	20.20	-15.36	0.00	0.00	0.00
1,100.00	3.77	51.31	1,099.19	1,927.81	16.68	20.83	-15.84	0.00	0.00	0.00
1,200.00	3.77	51.31	1,198.97	1,828.03	20.79	25.96	-19.74	0.00	0.00	0.00
1,300.00	3.77	51.31	1,298.76	1,728.24	24.90	31.09	-23.65	0.00	0.00	0.00
1,400.00	3.77	51.31	1,398.54	1,628.46	29.02	36.22	-27.55	0.00	0.00	0.00
1,500.00	3.77	51.31	1,498.32	1,528.68	33.13	41.36	-31.46	0.00	0.00	0.00
1,600.00	3.77	51.31	1,598.11	1,428.89	37.24	46.49	-35.36	0.00	0.00	0.00
1,700.00	3.77	51.31	1,697.89	1,329.11	41.35	51.62	-39.26	0.00	0.00	0.00
1,800.00	3.77	51.31	1,797.67	1,229.33	45.46	56.75	-43.17	0.00	0.00	0.00
1,900.00	3.77	51.31	1,897.46	1,129.54	49.57	61.89	-47.07	0.00	0.00	0.00
2,000.00	3.77	51.31	1,997.24	1,029.76	53.68	67.02	-50.97	0.00	0.00	0.00
2,100.00	3.77	51.31	2,097.03	929.97	57.79	72.15	-54.88	0.00	0.00	0.00
2,200.00	3.77	51.31	2,196.81	830.19	61.90	77.28	-58.78	0.00	0.00	0.00
2,300.00	3.77	51.31	2,296.59	730.41	66.02	82.42	-62.69	0.00	0.00	0.00
SALT BASE										
2,399.62	3.77	51.31	2,396.00	631.00	70.11	87.53	-66.57	0.00	0.00	0.00
2,400.00	3.77	51.31	2,396.38	630.62	70.13	87.55	-66.59	0.00	0.00	0.00
2,500.00	3.77	51.31	2,496.16	530.84	74.24	92.68	-70.49	0.00	0.00	0.00
DELAWARE										
2,595.05	3.77	51.31	2,591.00	436.00	78.15	97.56	-74.20	0.00	0.00	0.00
2,600.00	3.77	51.31	2,595.94	431.06	78.35	97.82	-74.40	0.00	0.00	0.00
BELL CANYON										
2,616.09	3.77	51.31	2,612.00	415.00	79.01	98.64	-75.02	0.00	0.00	0.00
2,700.00	3.77	51.31	2,695.73	331.27	82.46	102.95	-78.30	0.00	0.00	0.00
2,800.00	3.77	51.31	2,795.51	231.49	86.57	108.08	-82.20	0.00	0.00	0.00
2,900.00	3.77	51.31	2,895.29	131.71	90.68	113.21	-86.11	0.00	0.00	0.00
3,000.00	3.77	51.31	2,995.08	31.92	94.79	118.35	-90.01	0.00	0.00	0.00
3,100.00	3.77	51.31	3,094.86	-67.86	98.90	123.48	-93.91	0.00	0.00	0.00
3,200.00	3.77	51.31	3,194.64	-167.64	103.02	128.61	-97.82	0.00	0.00	0.00
3,300.00	3.77	51.31	3,294.43	-267.43	107.13	133.74	-101.72	0.00	0.00	0.00
3,400.00	3.77	51.31	3,394.21	-367.21	111.24	138.88	-105.63	0.00	0.00	0.00
CHERRY CANYON										
3,447.89	3.77	51.31	3,442.00	-415.00	113.21	141.33	-107.50	0.00	0.00	0.00
3,500.00	3.77	51.31	3,493.99	-466.99	115.35	144.01	-109.53	0.00	0.00	0.00
3,600.00	3.77	51.31	3,593.78	-566.78	119.46	149.14	-113.43	0.00	0.00	0.00
MANZANITA MARKER										



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,602.23	3.77	51.31	3,596.00	-569.00	119.55	149.26	-113.52	0.00	0.00	0.00
3,700.00	3.77	51.31	3,693.56	-666.56	123.57	154.27	-117.34	0.00	0.00	0.00
3,800.00	3.77	51.31	3,793.35	-766.35	127.68	159.41	-121.24	0.00	0.00	0.00
3,900.00	3.77	51.31	3,893.13	-866.13	131.79	164.54	-125.14	0.00	0.00	0.00
4,000.00	3.77	51.31	3,992.91	-965.91	135.91	169.67	-129.05	0.00	0.00	0.00
4,100.00	3.77	51.31	4,092.70	-1,065.70	140.02	174.80	-132.95	0.00	0.00	0.00
4,200.00	3.77	51.31	4,192.48	-1,165.48	144.13	179.94	-136.86	0.00	0.00	0.00
4,300.00	3.77	51.31	4,292.26	-1,265.26	148.24	185.07	-140.76	0.00	0.00	0.00
4,400.00	3.77	51.31	4,392.05	-1,365.05	152.35	190.20	-144.66	0.00	0.00	0.00
4,500.00	3.77	51.31	4,491.83	-1,464.83	156.46	195.33	-148.57	0.00	0.00	0.00
4,600.00	3.77	51.31	4,591.61	-1,564.61	160.57	200.47	-152.47	0.00	0.00	0.00
4,700.00	3.77	51.31	4,691.40	-1,664.40	164.68	205.60	-156.37	0.00	0.00	0.00
4,800.00	3.77	51.31	4,791.18	-1,764.18	168.79	210.73	-160.28	0.00	0.00	0.00
4,900.00	3.77	51.31	4,890.96	-1,863.96	172.91	215.86	-164.18	0.00	0.00	0.00
5,000.00	3.77	51.31	4,990.75	-1,963.75	177.02	221.00	-168.09	0.00	0.00	0.00
5,100.00	3.77	51.31	5,090.53	-2,063.53	181.13	226.13	-171.99	0.00	0.00	0.00
5,200.00	3.77	51.31	5,190.31	-2,163.31	185.24	231.26	-175.89	0.00	0.00	0.00
5,300.00	3.77	51.31	5,290.10	-2,263.10	189.35	236.40	-179.80	0.00	0.00	0.00
5,400.00	3.77	51.31	5,389.88	-2,362.88	193.46	241.53	-183.70	0.00	0.00	0.00
5,500.00	3.77	51.31	5,489.67	-2,462.67	197.57	246.66	-187.60	0.00	0.00	0.00
5,600.00	3.77	51.31	5,589.45	-2,562.45	201.68	251.79	-191.51	0.00	0.00	0.00
5,700.00	3.77	51.31	5,689.23	-2,662.23	205.79	256.93	-195.41	0.00	0.00	0.00
5,800.00	3.77	51.31	5,789.02	-2,762.02	209.91	262.06	-199.32	0.00	0.00	0.00
5,900.00	3.77	51.31	5,888.80	-2,861.80	214.02	267.19	-203.22	0.00	0.00	0.00
BASAL BRUSHY CANYON										
5,999.42	3.77	51.31	5,988.00	-2,961.00	218.10	272.29	-207.10	0.00	0.00	0.00
6,000.00	3.77	51.31	5,988.58	-2,961.58	218.13	272.32	-207.12	0.00	0.00	0.00
6,100.00	3.77	51.31	6,088.37	-3,061.37	222.24	277.46	-211.03	0.00	0.00	0.00
6,200.00	3.77	51.31	6,188.15	-3,161.15	226.35	282.59	-214.93	0.00	0.00	0.00
BONE SPRING										
6,295.06	3.77	51.31	6,283.00	-3,256.00	230.26	287.47	-218.64	0.00	0.00	0.00
6,300.00	3.77	51.31	6,287.93	-3,260.93	230.46	287.72	-218.83	0.00	0.00	0.00
6,400.00	3.77	51.31	6,387.72	-3,360.72	234.57	292.85	-222.74	0.00	0.00	0.00
6,500.00	3.77	51.31	6,487.50	-3,460.50	238.68	297.99	-226.64	0.00	0.00	0.00
6,600.00	3.77	51.31	6,587.28	-3,560.28	242.79	303.12	-230.55	0.00	0.00	0.00
6,700.00	3.77	51.31	6,687.07	-3,660.07	246.91	308.25	-234.45	0.00	0.00	0.00
6,800.00	3.77	51.31	6,786.85	-3,759.85	251.02	313.38	-238.35	0.00	0.00	0.00
6,900.00	3.77	51.31	6,886.64	-3,859.64	255.13	318.52	-242.26	0.00	0.00	0.00
7,000.00	3.77	51.31	6,986.42	-3,959.42	259.24	323.65	-246.16	0.00	0.00	0.00
7,100.00	3.77	51.31	7,086.20	-4,059.20	263.35	328.78	-250.06	0.00	0.00	0.00
7,200.00	3.77	51.31	7,185.99	-4,158.99	267.46	333.91	-253.97	0.00	0.00	0.00
1ST BONE SPRING SAND										
7,234.09	3.77	51.31	7,220.00	-4,193.00	268.86	335.66	-255.30	0.00	0.00	0.00
7,300.00	3.77	51.31	7,285.77	-4,258.77	271.57	339.05	-257.87	0.00	0.00	0.00
7,400.00	3.77	51.31	7,385.55	-4,358.55	275.68	344.18	-261.78	0.00	0.00	0.00
7,500.00	3.77	51.31	7,485.34	-4,458.34	279.80	349.31	-265.68	0.00	0.00	0.00
END OF TANGENT										
7,571.47	3.77	51.31	7,556.65	-4,529.65	282.73	352.98	-268.47	0.00	0.00	0.00
7,600.00	3.20	51.31	7,585.13	-4,558.13	283.82	354.33	-269.50	2.00	-2.00	0.00
7,700.00	1.20	51.31	7,685.05	-4,658.05	286.22	357.33	-271.78	2.00	-2.00	0.00
EOD TO VERTICAL										
7,759.99	0.00	0.00	7,745.04	-4,718.04	286.61	357.82	-272.15	2.00	-2.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,800.00	0.00	0.00	7,785.05	-4,758.05	286.61	357.82	-272.15	0.00	0.00	0.00
7,900.00	0.00	0.00	7,885.05	-4,858.05	286.61	357.82	-272.15	0.00	0.00	0.00
8,000.00	0.00	0.00	7,985.05	-4,958.05	286.61	357.82	-272.15	0.00	0.00	0.00
2ND BONE SPRING SAND										
8,013.95	0.00	0.00	7,999.00	-4,972.00	286.61	357.82	-272.15	0.00	0.00	0.00
8,100.00	0.00	0.00	8,085.05	-5,058.05	286.61	357.82	-272.15	0.00	0.00	0.00
KOP (10°/100ft)										
8,109.99	0.00	0.00	8,095.04	-5,068.04	286.61	357.82	-272.15	0.00	0.00	0.00
8,200.00	9.00	179.73	8,184.68	-5,157.68	279.56	357.85	-265.10	10.00	10.00	0.00
8,300.00	19.00	179.73	8,281.58	-5,254.58	255.39	357.96	-240.95	10.00	10.00	0.00
8,400.00	29.00	179.73	8,372.82	-5,345.82	214.77	358.15	-200.35	10.00	10.00	0.00
8,500.00	39.00	179.73	8,455.62	-5,428.62	158.92	358.41	-144.54	10.00	10.00	0.00
8,600.00	49.00	179.73	8,527.46	-5,500.46	89.54	358.73	-75.20	10.00	10.00	0.00
8,700.00	59.00	179.73	8,586.16	-5,559.16	8.75	359.11	5.55	10.00	10.00	0.00
8,800.00	69.00	179.73	8,629.94	-5,602.94	-81.02	359.52	95.26	10.00	10.00	0.00
8,900.00	79.00	179.73	8,657.47	-5,630.47	-177.02	359.97	191.20	10.00	10.00	0.00
9,000.00	89.00	179.73	8,667.91	-5,640.91	-276.35	360.43	290.47	10.00	10.00	0.00
LP *NEW*: 583.18ft FNL & 2150ft FWL of Sec 3										
9,010.23	90.02	179.73	8,668.00	-5,641.00	-286.57	360.47	300.68	10.00	10.00	0.00
9,100.00	90.02	179.73	8,667.96	-5,640.96	-376.35	360.89	390.40	0.00	0.00	0.00
9,200.00	90.02	179.73	8,667.92	-5,640.92	-476.35	361.35	490.34	0.00	0.00	0.00
9,300.00	90.02	179.73	8,667.88	-5,640.88	-576.34	361.81	590.28	0.00	0.00	0.00
9,400.00	90.02	179.73	8,667.84	-5,640.84	-676.34	362.28	690.22	0.00	0.00	0.00
9,500.00	90.02	179.73	8,667.80	-5,640.80	-776.34	362.74	790.16	0.00	0.00	0.00
9,600.00	90.02	179.73	8,667.76	-5,640.76	-876.34	363.20	890.09	0.00	0.00	0.00
9,700.00	90.02	179.73	8,667.72	-5,640.72	-976.34	363.67	990.03	0.00	0.00	0.00
9,800.00	90.02	179.73	8,667.68	-5,640.68	-1,076.34	364.13	1,089.97	0.00	0.00	0.00
9,900.00	90.02	179.73	8,667.64	-5,640.64	-1,176.34	364.59	1,189.91	0.00	0.00	0.00
10,000.00	90.02	179.73	8,667.60	-5,640.60	-1,276.34	365.05	1,289.85	0.00	0.00	0.00
10,100.00	90.02	179.73	8,667.56	-5,640.56	-1,376.34	365.52	1,389.79	0.00	0.00	0.00
10,200.00	90.02	179.73	8,667.52	-5,640.52	-1,476.33	365.98	1,489.72	0.00	0.00	0.00
10,300.00	90.02	179.73	8,667.48	-5,640.48	-1,576.33	366.44	1,589.66	0.00	0.00	0.00
10,400.00	90.02	179.73	8,667.44	-5,640.44	-1,676.33	366.91	1,689.60	0.00	0.00	0.00
10,500.00	90.02	179.73	8,667.40	-5,640.40	-1,776.33	367.37	1,789.54	0.00	0.00	0.00
10,600.00	90.02	179.73	8,667.36	-5,640.36	-1,876.33	367.83	1,889.48	0.00	0.00	0.00
10,700.00	90.02	179.73	8,667.32	-5,640.32	-1,976.33	368.29	1,989.41	0.00	0.00	0.00
10,800.00	90.02	179.73	8,667.28	-5,640.28	-2,076.33	368.76	2,089.35	0.00	0.00	0.00
10,900.00	90.02	179.73	8,667.24	-5,640.24	-2,176.33	369.22	2,189.29	0.00	0.00	0.00
11,000.00	90.02	179.73	8,667.20	-5,640.20	-2,276.33	369.68	2,289.23	0.00	0.00	0.00
11,100.00	90.02	179.73	8,667.16	-5,640.16	-2,376.32	370.15	2,389.17	0.00	0.00	0.00
11,200.00	90.02	179.73	8,667.11	-5,640.11	-2,476.32	370.61	2,489.11	0.00	0.00	0.00
11,300.00	90.02	179.73	8,667.07	-5,640.07	-2,576.32	371.07	2,589.04	0.00	0.00	0.00
11,400.00	90.02	179.73	8,667.03	-5,640.03	-2,676.32	371.53	2,688.98	0.00	0.00	0.00
11,500.00	90.02	179.73	8,666.99	-5,639.99	-2,776.32	372.00	2,788.92	0.00	0.00	0.00
11,600.00	90.02	179.73	8,666.95	-5,639.95	-2,876.32	372.46	2,888.86	0.00	0.00	0.00
11,700.00	90.02	179.73	8,666.91	-5,639.91	-2,976.32	372.92	2,988.80	0.00	0.00	0.00
11,800.00	90.02	179.73	8,666.87	-5,639.87	-3,076.32	373.39	3,088.73	0.00	0.00	0.00
11,900.00	90.02	179.73	8,666.83	-5,639.83	-3,176.32	373.85	3,188.67	0.00	0.00	0.00
12,000.00	90.02	179.73	8,666.79	-5,639.79	-3,276.32	374.31	3,288.61	0.00	0.00	0.00
12,100.00	90.02	179.73	8,666.75	-5,639.75	-3,376.31	374.77	3,388.55	0.00	0.00	0.00
12,200.00	90.02	179.73	8,666.71	-5,639.71	-3,476.31	375.24	3,488.49	0.00	0.00	0.00
12,300.00	90.02	179.73	8,666.67	-5,639.67	-3,576.31	375.70	3,588.43	0.00	0.00	0.00
12,400.00	90.02	179.73	8,666.63	-5,639.63	-3,676.31	376.16	3,688.36	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.00	90.02	179.73	8,666.59	-5,639.59	-3,776.31	376.63	3,788.30	0.00	0.00	0.00
12,600.00	90.02	179.73	8,666.55	-5,639.55	-3,876.31	377.09	3,888.24	0.00	0.00	0.00
12,700.00	90.02	179.73	8,666.51	-5,639.51	-3,976.31	377.55	3,988.18	0.00	0.00	0.00
12,800.00	90.02	179.73	8,666.47	-5,639.47	-4,076.31	378.01	4,088.12	0.00	0.00	0.00
12,900.00	90.02	179.73	8,666.43	-5,639.43	-4,176.31	378.48	4,188.05	0.00	0.00	0.00
13,000.00	90.02	179.73	8,666.39	-5,639.39	-4,276.30	378.94	4,287.99	0.00	0.00	0.00
13,100.00	90.02	179.73	8,666.35	-5,639.35	-4,376.30	379.40	4,387.93	0.00	0.00	0.00
13,200.00	90.02	179.73	8,666.31	-5,639.31	-4,476.30	379.87	4,487.87	0.00	0.00	0.00
13,300.00	90.02	179.73	8,666.27	-5,639.27	-4,576.30	380.33	4,587.81	0.00	0.00	0.00
13,400.00	90.02	179.73	8,666.23	-5,639.23	-4,676.30	380.79	4,687.75	0.00	0.00	0.00
13,500.00	90.02	179.73	8,666.19	-5,639.19	-4,776.30	381.25	4,787.68	0.00	0.00	0.00
13,600.00	90.02	179.73	8,666.15	-5,639.15	-4,876.30	381.72	4,887.62	0.00	0.00	0.00
13,700.00	90.02	179.73	8,666.11	-5,639.11	-4,976.30	382.18	4,987.56	0.00	0.00	0.00
13,800.00	90.02	179.73	8,666.07	-5,639.07	-5,076.30	382.64	5,087.50	0.00	0.00	0.00
13,900.00	90.02	179.73	8,666.03	-5,639.03	-5,176.29	383.11	5,187.44	0.00	0.00	0.00
14,000.00	90.02	179.73	8,665.99	-5,638.99	-5,276.29	383.57	5,287.37	0.00	0.00	0.00
14,100.00	90.02	179.73	8,665.95	-5,638.95	-5,376.29	384.03	5,387.31	0.00	0.00	0.00
14,200.00	90.02	179.73	8,665.91	-5,638.91	-5,476.29	384.49	5,487.25	0.00	0.00	0.00
14,300.00	90.02	179.73	8,665.87	-5,638.87	-5,576.29	384.96	5,587.19	0.00	0.00	0.00
14,400.00	90.02	179.73	8,665.82	-5,638.82	-5,676.29	385.42	5,687.13	0.00	0.00	0.00
14,500.00	90.02	179.73	8,665.78	-5,638.78	-5,776.29	385.88	5,787.07	0.00	0.00	0.00
14,600.00	90.02	179.73	8,665.74	-5,638.74	-5,876.29	386.35	5,887.00	0.00	0.00	0.00
14,700.00	90.02	179.73	8,665.70	-5,638.70	-5,976.29	386.81	5,986.94	0.00	0.00	0.00
14,800.00	90.02	179.73	8,665.66	-5,638.66	-6,076.28	387.27	6,086.88	0.00	0.00	0.00
14,900.00	90.02	179.73	8,665.62	-5,638.62	-6,176.28	387.73	6,186.82	0.00	0.00	0.00
15,000.00	90.02	179.73	8,665.58	-5,638.58	-6,276.28	388.20	6,286.76	0.00	0.00	0.00
15,100.00	90.02	179.73	8,665.54	-5,638.54	-6,376.28	388.66	6,386.69	0.00	0.00	0.00
15,200.00	90.02	179.73	8,665.50	-5,638.50	-6,476.28	389.12	6,486.63	0.00	0.00	0.00
15,300.00	90.02	179.73	8,665.46	-5,638.46	-6,576.28	389.59	6,586.57	0.00	0.00	0.00
15,400.00	90.02	179.73	8,665.42	-5,638.42	-6,676.28	390.05	6,686.51	0.00	0.00	0.00
15,500.00	90.02	179.73	8,665.38	-5,638.38	-6,776.28	390.51	6,786.45	0.00	0.00	0.00
15,600.00	90.02	179.73	8,665.34	-5,638.34	-6,876.28	390.97	6,886.39	0.00	0.00	0.00
15,700.00	90.02	179.73	8,665.30	-5,638.30	-6,976.28	391.44	6,986.32	0.00	0.00	0.00
15,800.00	90.02	179.73	8,665.26	-5,638.26	-7,076.27	391.90	7,086.26	0.00	0.00	0.00
15,900.00	90.02	179.73	8,665.22	-5,638.22	-7,176.27	392.36	7,186.20	0.00	0.00	0.00
16,000.00	90.02	179.73	8,665.18	-5,638.18	-7,276.27	392.83	7,286.14	0.00	0.00	0.00
16,100.00	90.02	179.73	8,665.14	-5,638.14	-7,376.27	393.29	7,386.08	0.00	0.00	0.00
16,200.00	90.02	179.73	8,665.10	-5,638.10	-7,476.27	393.75	7,486.02	0.00	0.00	0.00
16,300.00	90.02	179.73	8,665.06	-5,638.06	-7,576.27	394.21	7,585.95	0.00	0.00	0.00
16,400.00	90.02	179.73	8,665.02	-5,638.02	-7,676.27	394.68	7,685.89	0.00	0.00	0.00
16,500.00	90.02	179.73	8,664.98	-5,637.98	-7,776.27	395.14	7,785.83	0.00	0.00	0.00
16,600.00	90.02	179.73	8,664.94	-5,637.94	-7,876.27	395.60	7,885.77	0.00	0.00	0.00
16,700.00	90.02	179.73	8,664.90	-5,637.90	-7,976.26	396.07	7,985.71	0.00	0.00	0.00
16,800.00	90.02	179.73	8,664.86	-5,637.86	-8,076.26	396.53	8,085.64	0.00	0.00	0.00
16,900.00	90.02	179.73	8,664.82	-5,637.82	-8,176.26	396.99	8,185.58	0.00	0.00	0.00
17,000.00	90.02	179.73	8,664.78	-5,637.78	-8,276.26	397.45	8,285.52	0.00	0.00	0.00
17,100.00	90.02	179.73	8,664.74	-5,637.74	-8,376.26	397.92	8,385.46	0.00	0.00	0.00
17,200.00	90.02	179.73	8,664.70	-5,637.70	-8,476.26	398.38	8,485.40	0.00	0.00	0.00
17,300.00	90.02	179.73	8,664.66	-5,637.66	-8,576.26	398.84	8,585.34	0.00	0.00	0.00
17,400.00	90.02	179.73	8,664.62	-5,637.62	-8,676.26	399.31	8,685.27	0.00	0.00	0.00
17,500.00	90.02	179.73	8,664.57	-5,637.57	-8,776.26	399.77	8,785.21	0.00	0.00	0.00
17,600.00	90.02	179.73	8,664.53	-5,637.53	-8,876.25	400.23	8,885.15	0.00	0.00	0.00
17,700.00	90.02	179.73	8,664.49	-5,637.49	-8,976.25	400.69	8,985.09	0.00	0.00	0.00



Planning Report



Database:	Database 1	Local Co-ordinate Reference:	Well YUMA 3/10 FED COM #564H
Company:	MEWBOURNE OIL COMPANY	TVD Reference:	KBE @ 3027.00usft (PATT 267)
Project:	EDDY COUNTY, NEW MEXICO (NAD 83 - GRID)	MD Reference:	KBE @ 3027.00usft (PATT 267)
Site:	SEC. 3 T25S R28E	North Reference:	Grid
Well:	YUMA 3/10 FED COM #564H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,800.00	90.02	179.73	8,664.45	-5,637.45	-9,076.25	401.16	9,085.03	0.00	0.00	0.00
17,900.00	90.02	179.73	8,664.41	-5,637.41	-9,176.25	401.62	9,184.96	0.00	0.00	0.00
18,000.00	90.02	179.73	8,664.37	-5,637.37	-9,276.25	402.08	9,284.90	0.00	0.00	0.00
18,100.00	90.02	179.73	8,664.33	-5,637.33	-9,376.25	402.55	9,384.84	0.00	0.00	0.00
18,200.00	90.02	179.73	8,664.29	-5,637.29	-9,476.25	403.01	9,484.78	0.00	0.00	0.00
18,300.00	90.02	179.73	8,664.25	-5,637.25	-9,576.25	403.47	9,584.72	0.00	0.00	0.00
18,400.00	90.02	179.73	8,664.21	-5,637.21	-9,676.25	403.93	9,684.66	0.00	0.00	0.00
18,500.00	90.02	179.73	8,664.17	-5,637.17	-9,776.24	404.40	9,784.59	0.00	0.00	0.00
18,600.00	90.02	179.73	8,664.13	-5,637.13	-9,876.24	404.86	9,884.53	0.00	0.00	0.00
18,700.00	90.02	179.73	8,664.09	-5,637.09	-9,976.24	405.32	9,984.47	0.00	0.00	0.00
18,800.00	90.02	179.73	8,664.05	-5,637.05	-10,076.24	405.79	10,084.41	0.00	0.00	0.00
18,900.00	90.02	179.73	8,664.01	-5,637.01	-10,176.24	406.25	10,184.35	0.00	0.00	0.00
BHL: 100ft FSL & 2150ft FWL of Sec 10										
18,932.71	90.02	179.73	8,664.00	-5,637.00	-10,208.95	406.40	10,217.04	0.00	0.00	0.00

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,087.78	1,087.00	CASTILE		0.00	
2,399.62	2,396.00	SALT BASE		0.00	
2,595.05	2,591.00	DELAWARE		0.00	
2,616.09	2,612.00	BELL CANYON		0.00	
3,447.89	3,442.00	CHERRY CANYON		0.00	
3,602.23	3,596.00	MANZANITA MARKER		0.00	
5,999.42	5,988.00	BASAL BRUSHY CANYON		0.00	
6,295.06	6,283.00	BONE SPRING		0.00	
7,234.09	7,220.00	1ST BONE SPRING SAND		0.00	
8,013.95	7,999.00	2ND BONE SPRING SAND		0.00	

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 295ft FNL & 1790ft FWL of Sec 3
600.00	600.00	0.00	0.00	START NUDGE (2°/100ft)
788.53	788.39	3.88	4.84	EOB TO 3.77° INC
7,571.47	7,556.65	282.73	352.98	END OF TANGENT
7,759.99	7,745.04	286.61	357.82	EOD TO VERTICAL
8,109.99	8,095.04	286.61	357.82	KOP (10°/100ft)
9,010.23	8,668.00	-286.57	360.47	LP *NEW*: 583.18ft FNL & 2150ft FWL of Sec 3
18,932.71	8,664.00	-10,208.95	406.40	BHL: 100ft FSL & 2150ft FWL of Sec 10



Mewbourne Oil Co.

Surface & Intermediate Offline Cementing Variance

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

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

Surface Casing Order of Operations:

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

Barriers

Before Walk:

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

**After Walk:**

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

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

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

Barriers**Before Walk:**

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

After Walk:

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



Intermediate Casing Order of Operations:

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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

**Risks:**

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

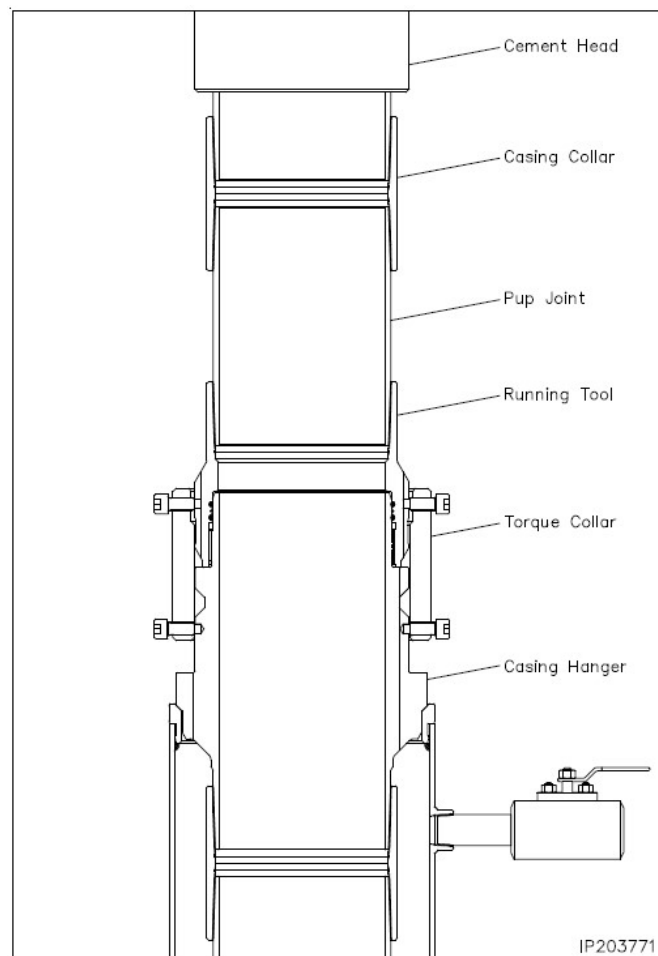


Figure 1. Cactus 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

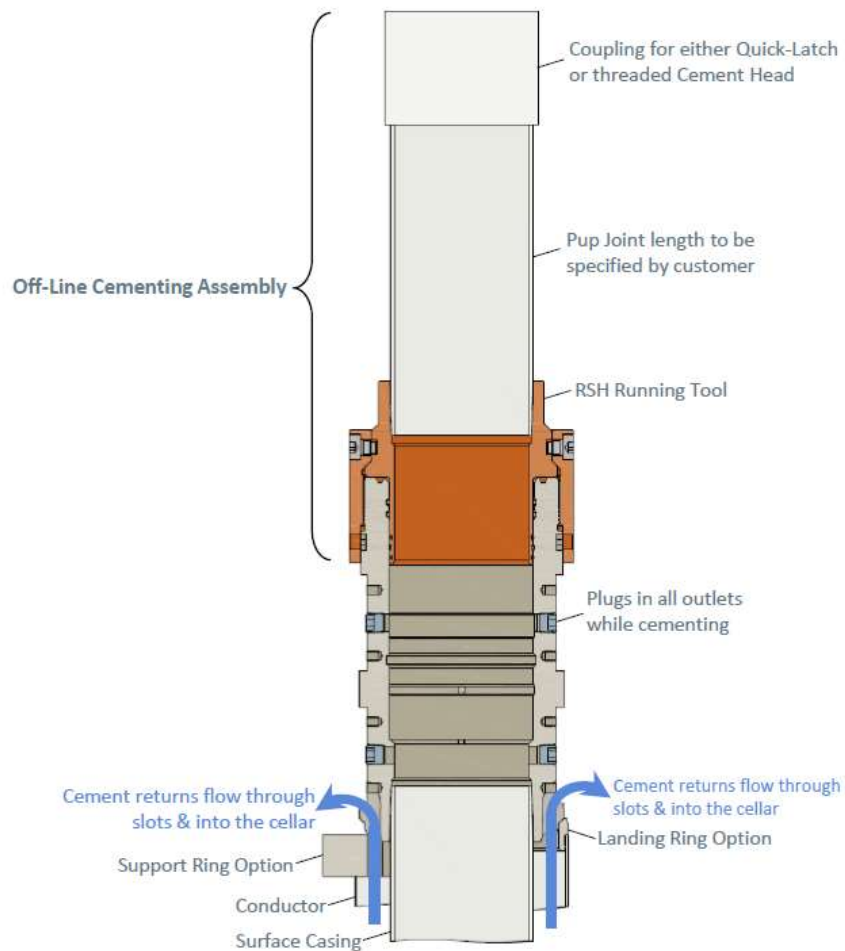


Figure 2. Vault 13 3/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 13 3/8" pup joint and casing.

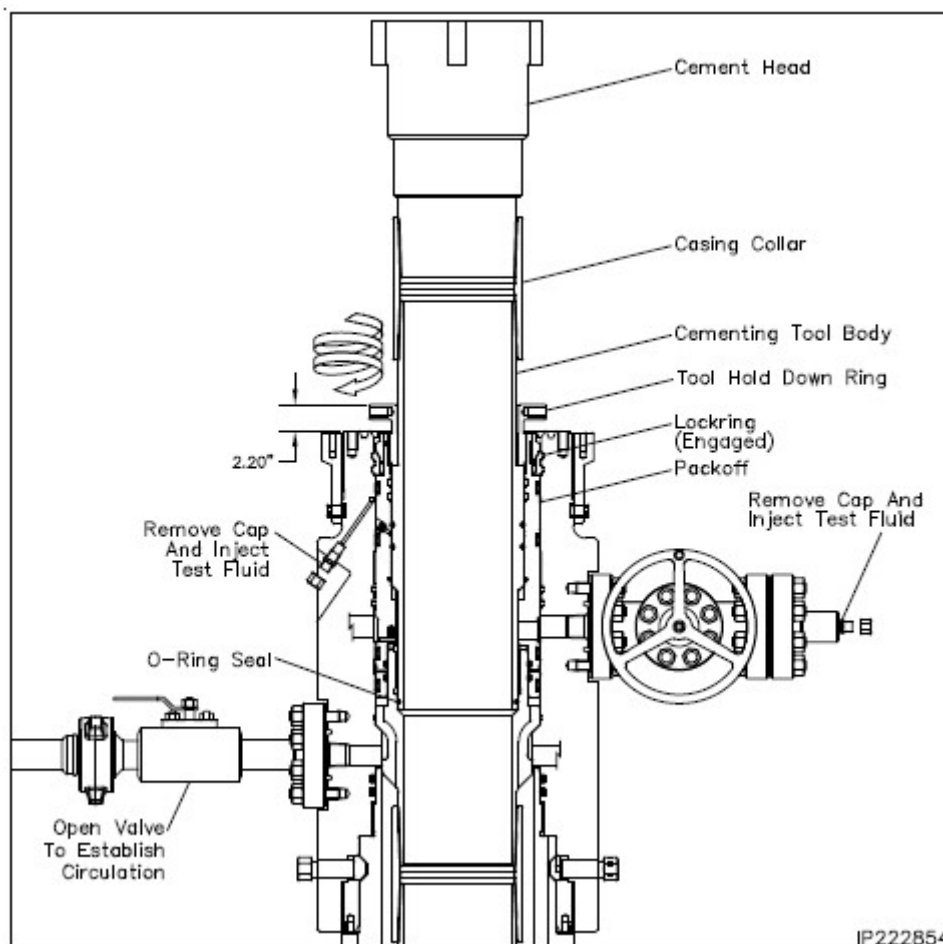


Figure 3. Cactus 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

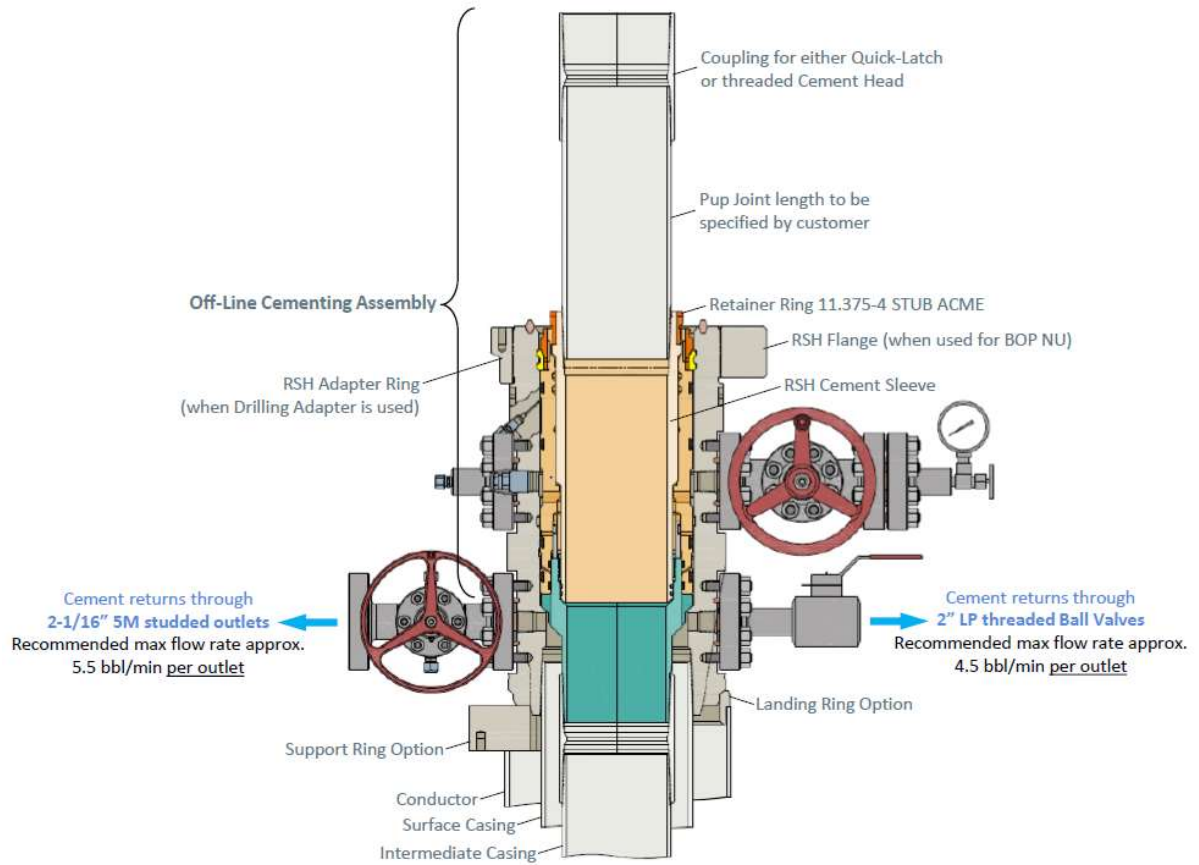


Figure 4. Vault 9 5/8" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 9 5/8" pup joint and casing.

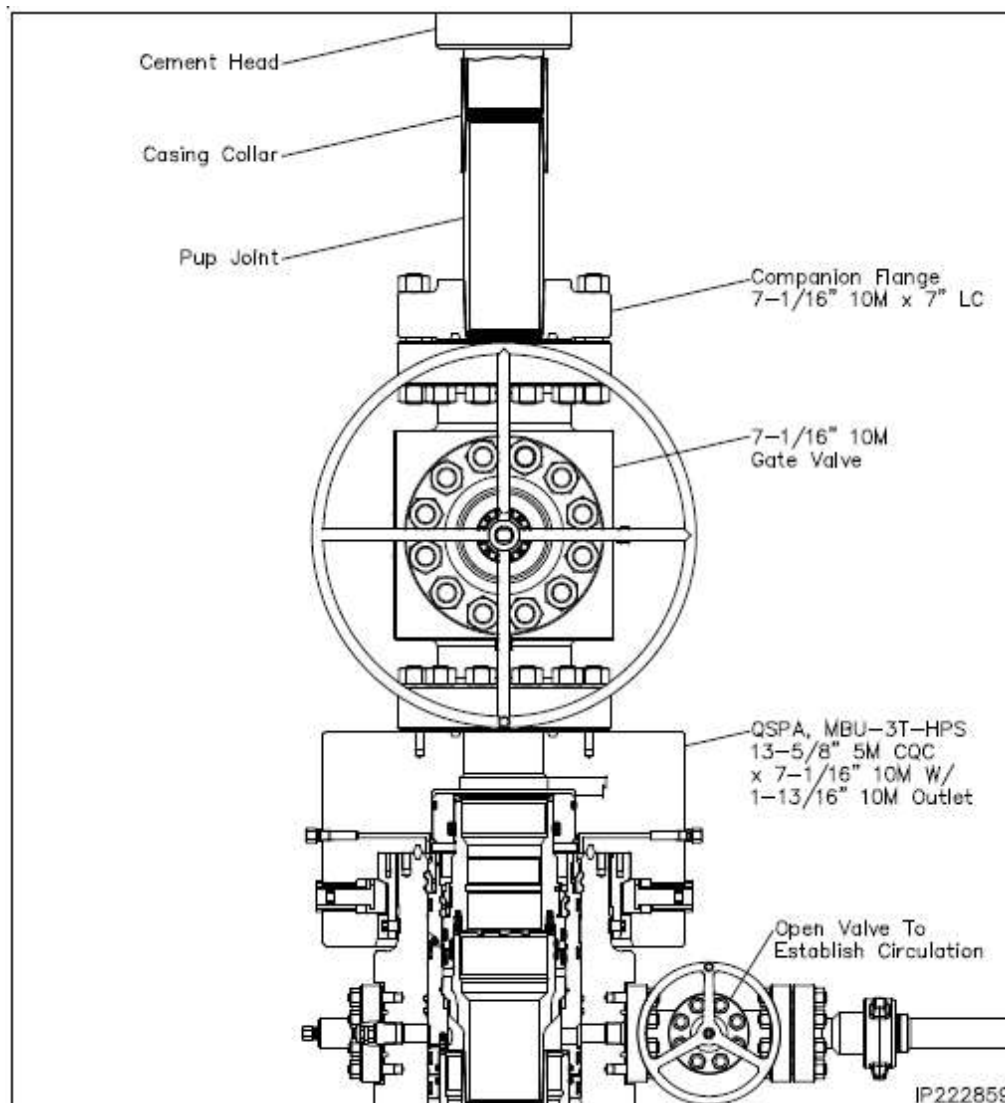


Figure 5. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

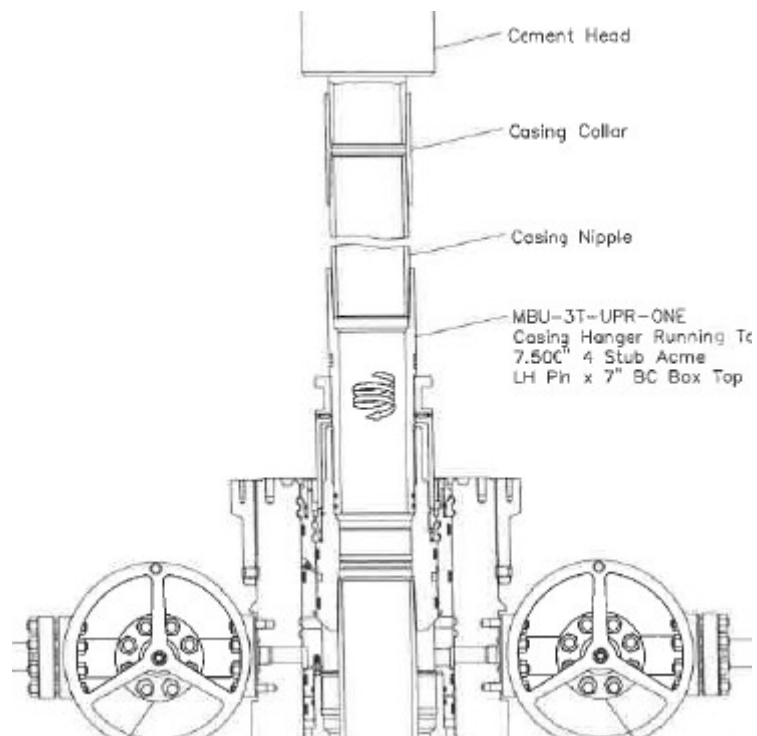


Figure 6. Cactus 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

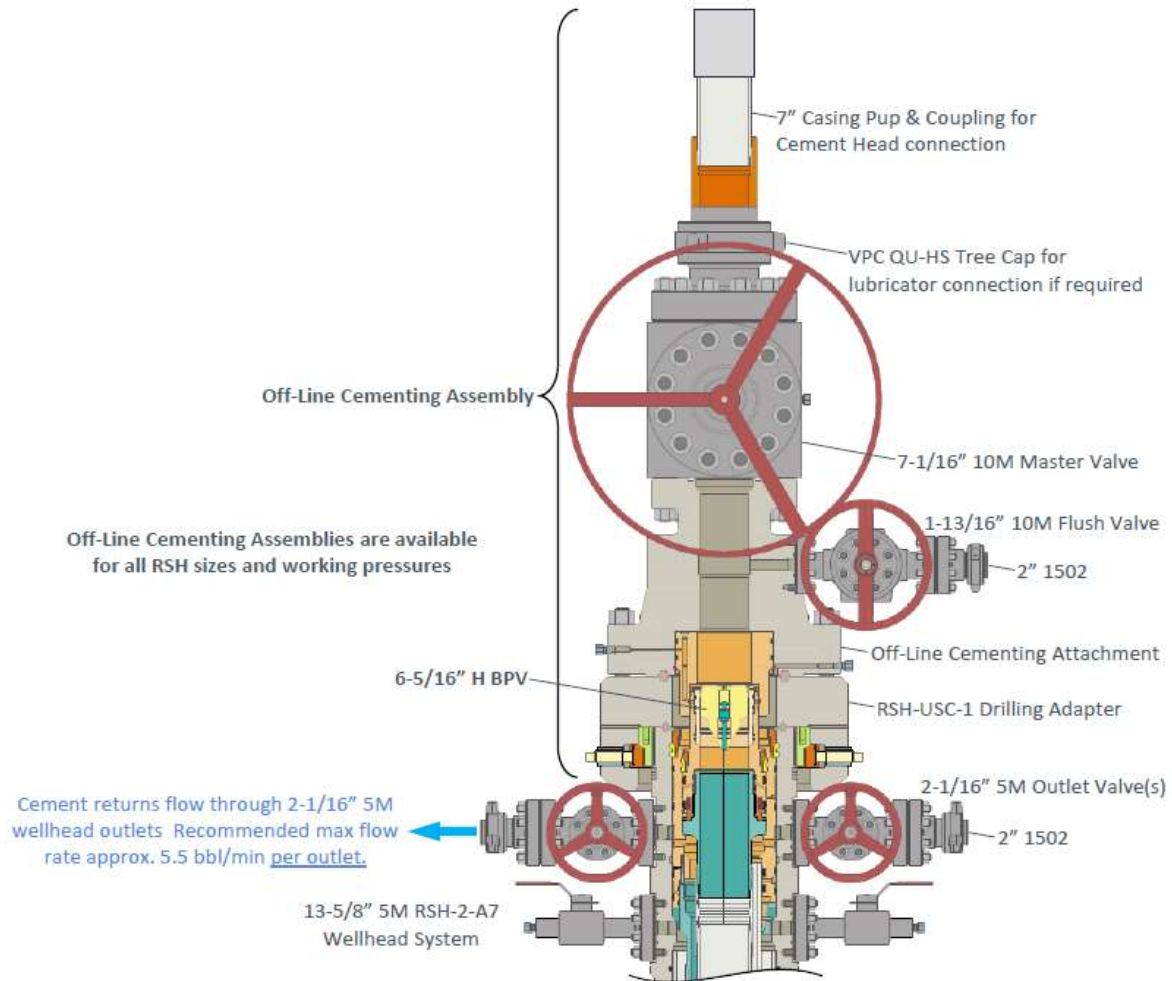


Figure 7. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

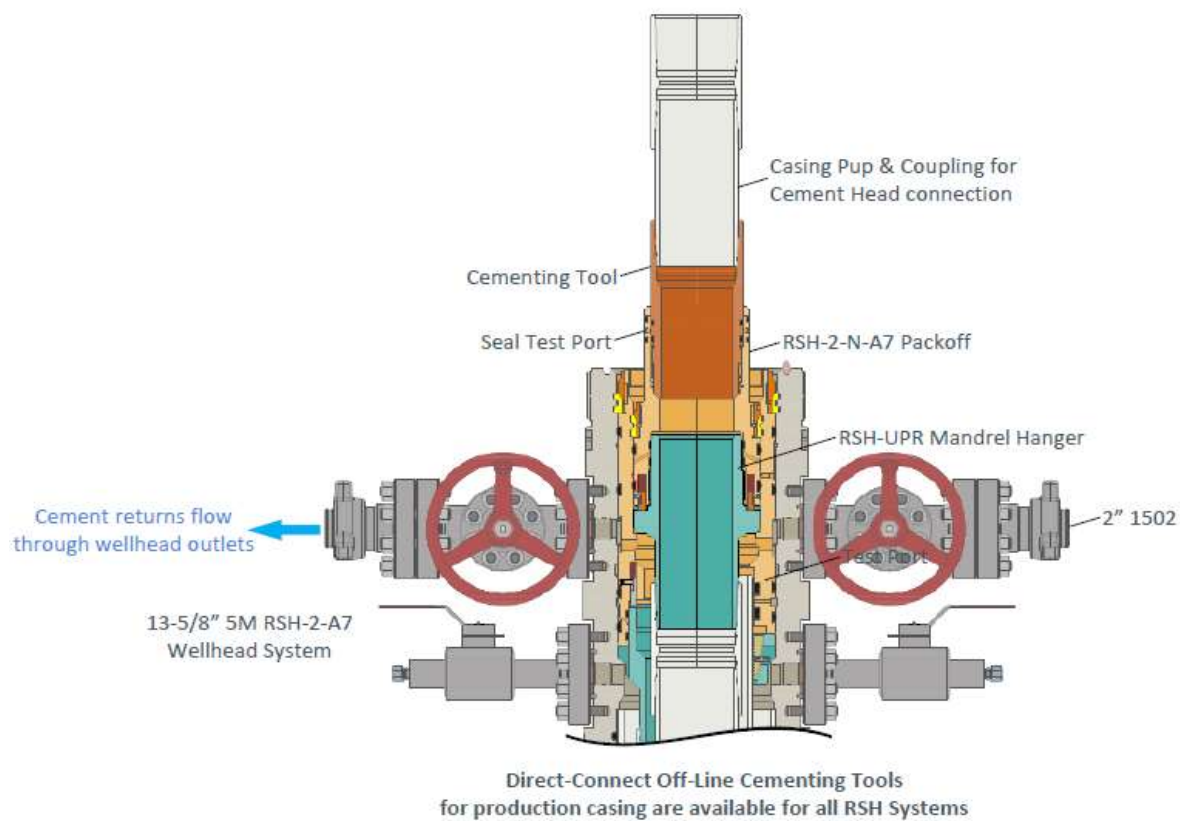


Figure 8. Vault 7" 5M offline cementing tool. Pressure rating limited by the lesser of 5M tool rating or the 7" pup joint and casing.

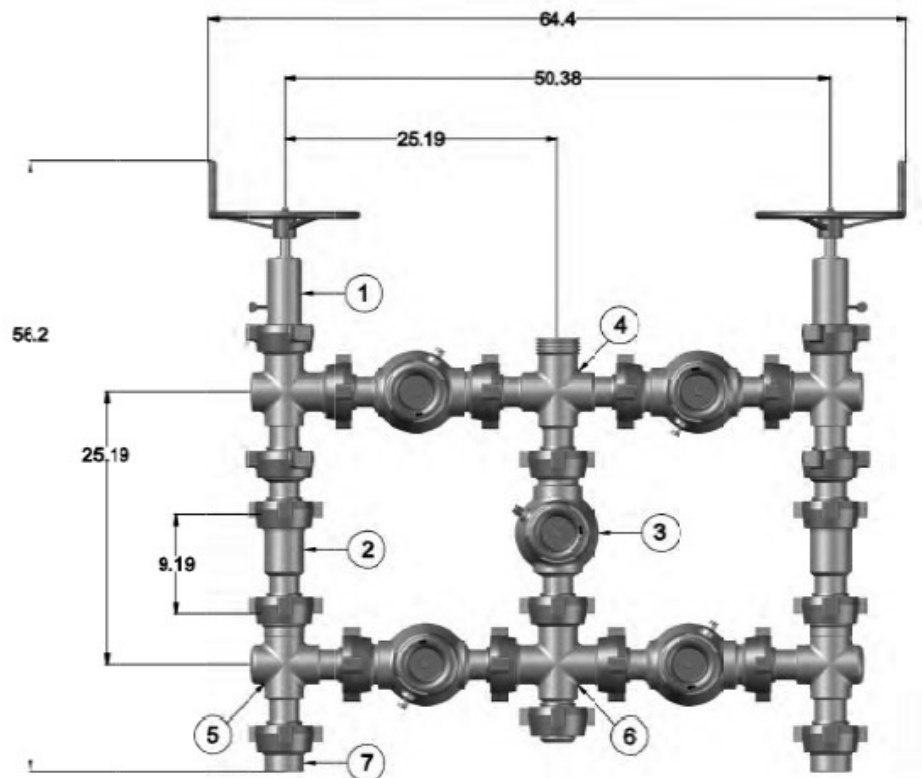


Figure 9. Five valve 15k choke manifold.

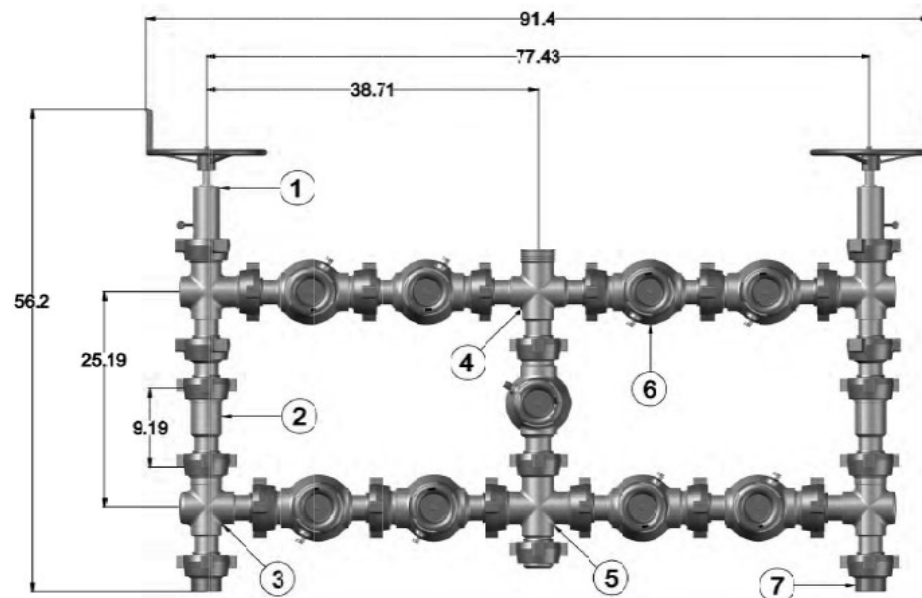


Figure 10. Nine valve 15k choke manifold.



Mewbourne Oil Co.

BOP Break Testing Variance

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

Procedures

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



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

Barriers

Before Nipple Down:

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

After Nipple Down:

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

Summary

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

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

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

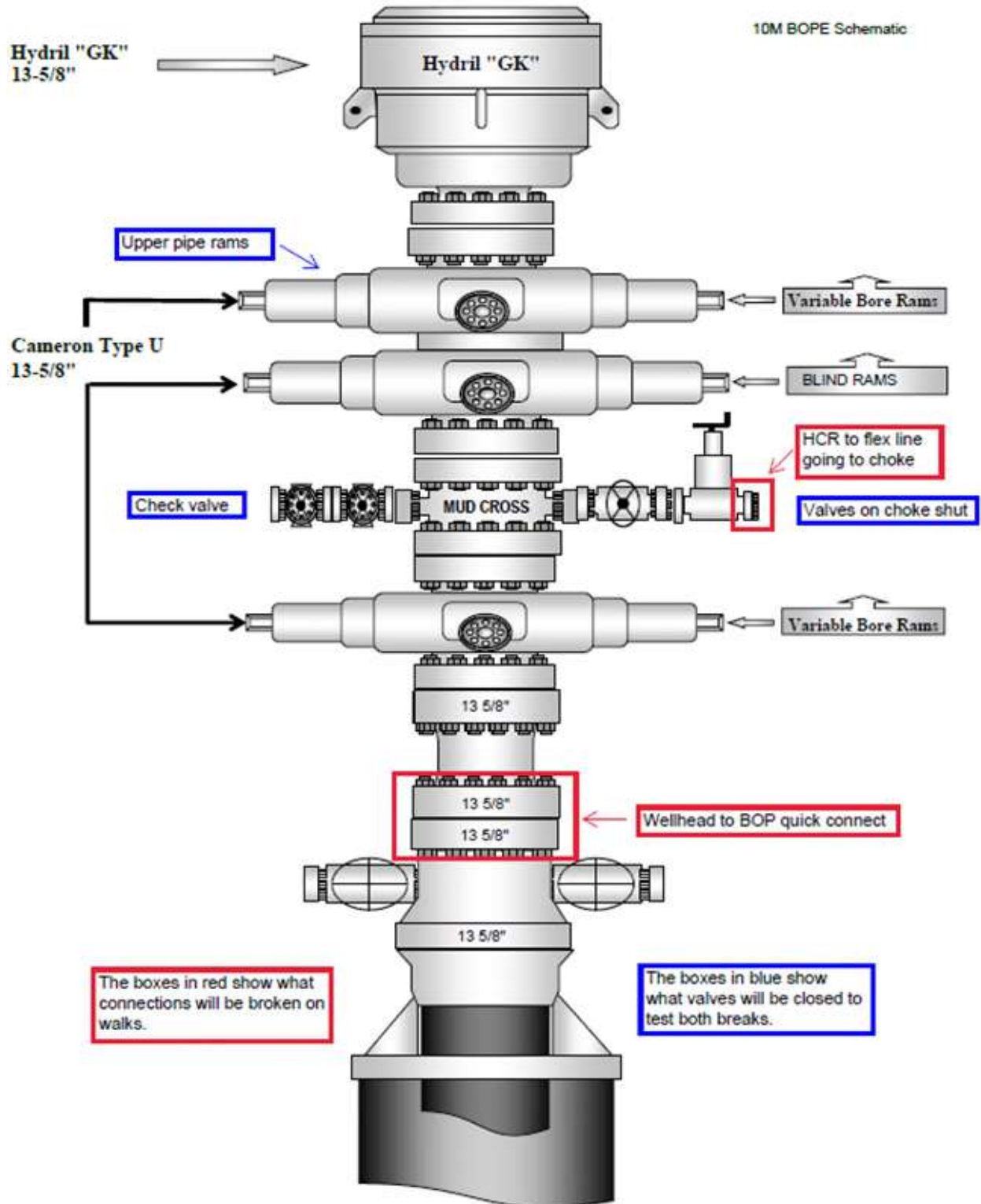


Figure 1. BOP diagram



5M BOPE & Closed Loop Equipment Schematic

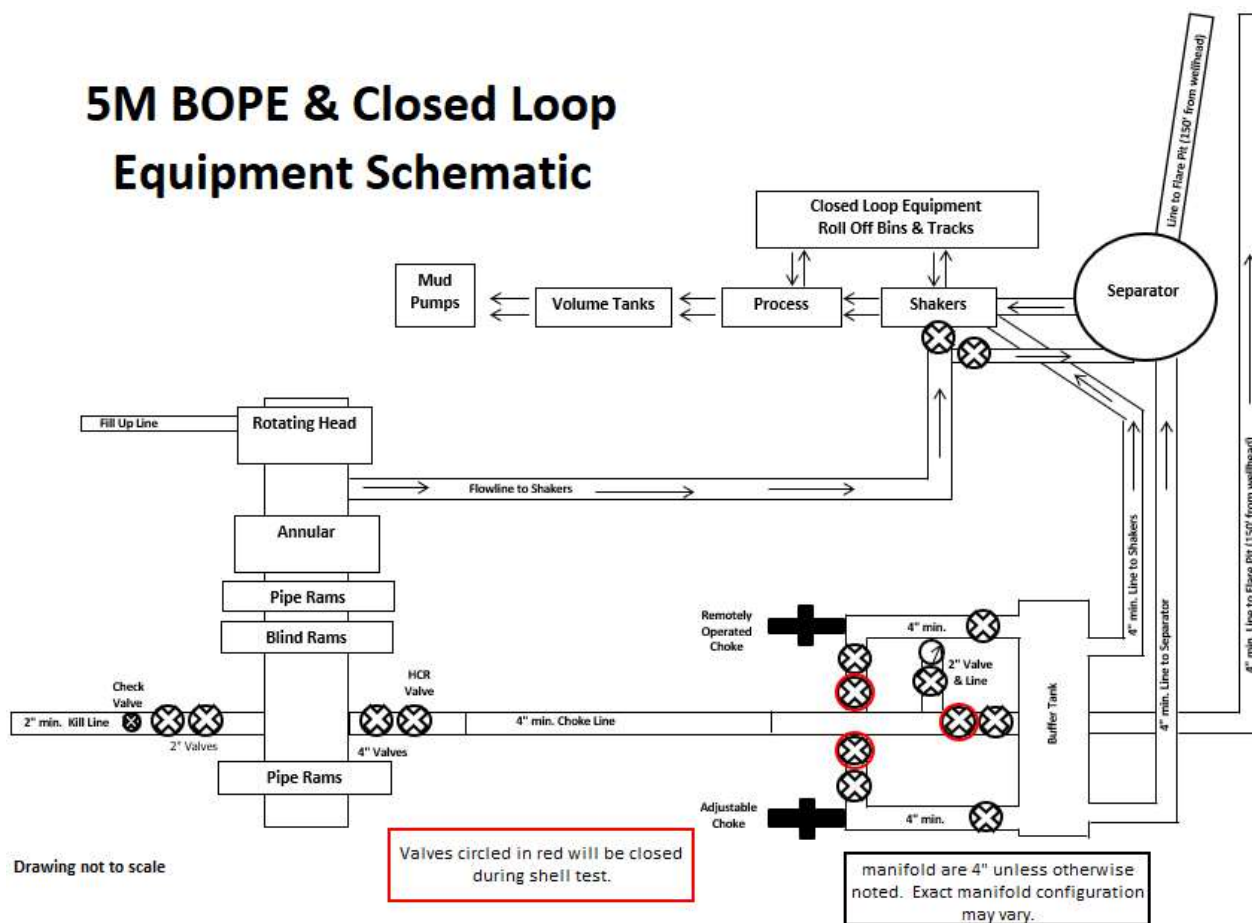


Figure 2. BOPE diagram



Figure 3. BOP handling system



Figure 4. BOP handling system

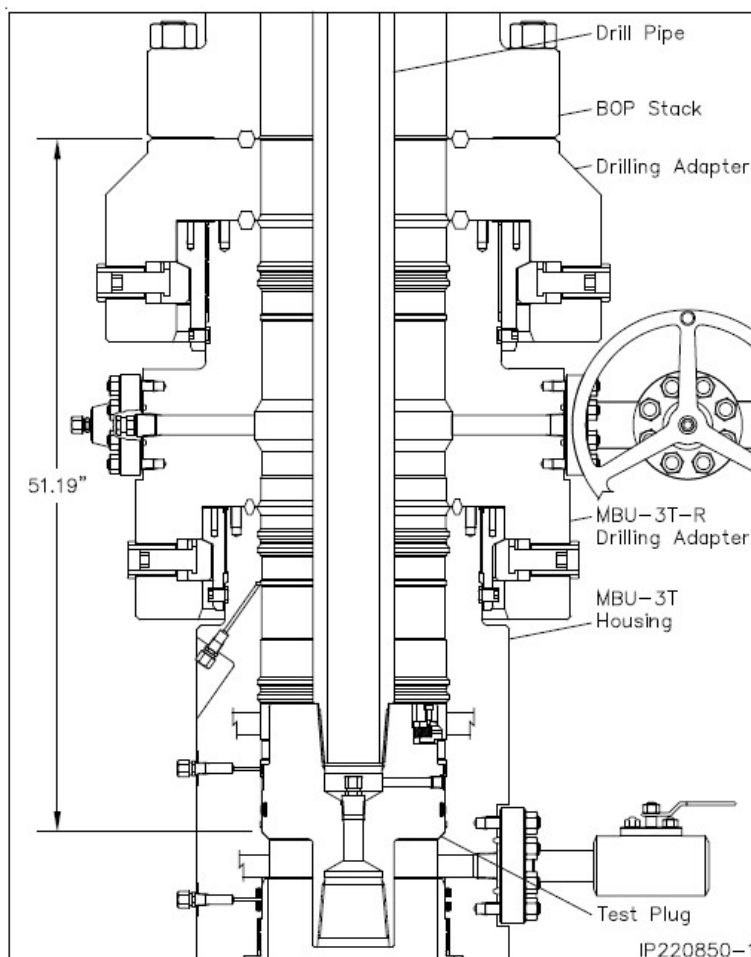


Figure 5. Cactus 5M wellhead with BOP quick connect

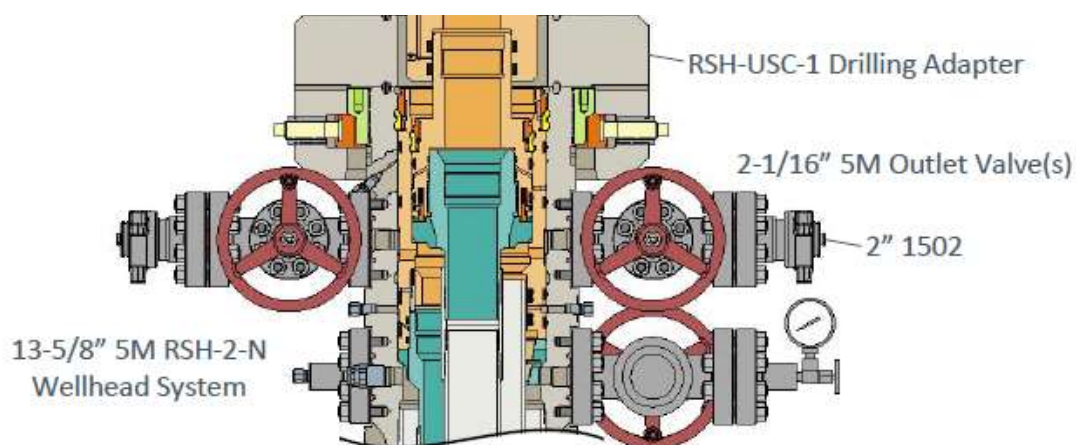


Figure 6. Vault 5M wellhead with BOP quick connect

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-102 Revised July 9, 2024 Submit Electronically via OCD Permitting
	Submittal Type:	<input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-55137	Pool Code 53610	Pool Name SAN LORENZO; BONE SPRING, NORTH
Property Code 335953	Property Name YUMA 3/10 FED COM	Well Number 564H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Ground Level Elevation 2999'
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input 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 3	Section 3	Township 25S	Range 28E	Lot	Ft. from N/S 295 FNL	Ft. from E/W 1790 FWL	Latitude 32.1657018	Longitude -104.0780262	County EDDY
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Bottom Hole Location

UL N	Section 10	Township 25S	Range 28E	Lot	Ft. from N/S 100 FSL	Ft. from E/W 2310 FWL	Latitude 32.1376359	Longitude -104.0762761	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	--------------------------	------------------------	---------------------------	----------------

Dedicated Acres 320	Infill or Defining Well DEFINING	Defining Well API	Overlapping Spacing Unit (Y/N) N/A	Consolidation Code N/A
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL 3	Section 3	Township 25S	Range 28E	Lot	Ft. from N/S 10 FNL	Ft. from E/W 2310 FWL	Latitude 32.1664872	Longitude -104.0768677	County EDDY
---------	--------------	-----------------	--------------	-----	------------------------	--------------------------	------------------------	---------------------------	----------------

First Take Point (FTP)

UL 3	Section 3	Township 25S	Range 28E	Lot	Ft. from N/S 100 FNL	Ft. from E/W 2310 FWL	Latitude 32.1662398	Longitude -104.0768668	County EDDY
---------	--------------	-----------------	--------------	-----	-------------------------	--------------------------	------------------------	---------------------------	----------------

Last Take Point (LTP)

UL N	Section 10	Township 25S	Range 28E	Lot	Ft. from N/S 100 FSL	Ft. from E/W 2310 FWL	Latitude 32.1376359	Longitude -104.0762761	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	--------------------------	------------------------	---------------------------	----------------

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 2999'
-------------------------------------------	----------------------------------------------------------------------------------------------------	----------------------------------

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.

Andrew W Taylor 10/23/2024
Signature Date

Andrew Taylor
Printed Name

ataylor@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 or 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

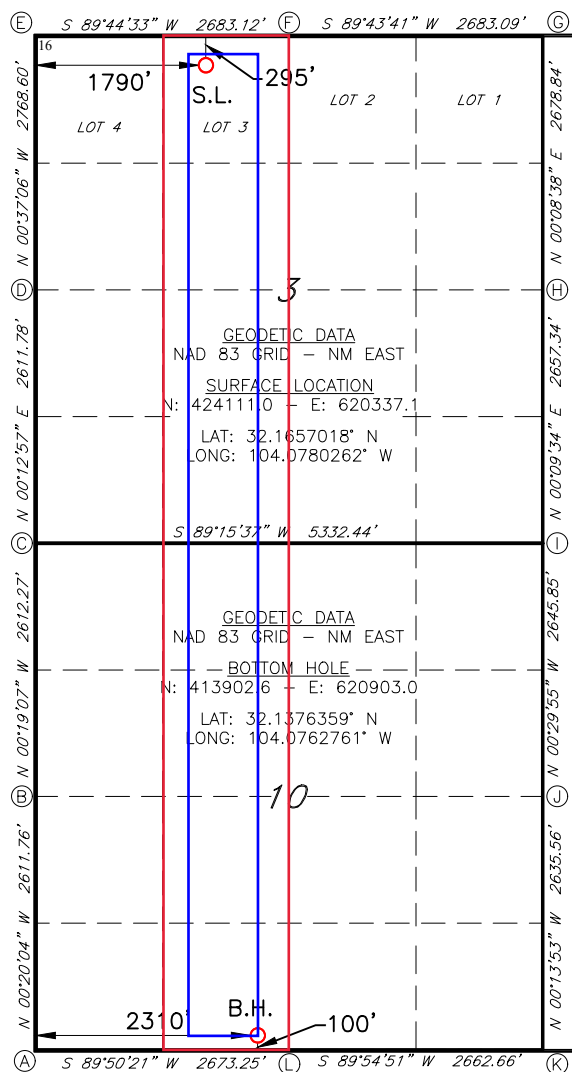
Date of Survey

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.

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 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.

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



CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1940"
N: 413796.1 - E: 618594.1

B: FOUND BRASS CAP "1940"
N: 416407.2 - E: 618578.9

C: FOUND BRASS CAP "1940"
N: 419018.9 - E: 618564.4

D: FOUND BRASS CAP "1940"
N: 421630.1 - E: 618574.2

E: FOUND BRASS CAP "1940"
N: 424397.9 - E: 618544.3

F: FOUND BRASS CAP "1940"
N: 424409.9 - E: 621226.8

G: FOUND BRASS CAP "1940"
N: 424422.7 - E: 623909.3

H: FOUND BRASS CAP "1940"
N: 421744.4 - E: 623902.6

I: FOUND BRASS CAP "1940"
N: 419087.7 - E: 623895.2

J: FOUND BRASS CAP "1940"
N: 416442.5 - E: 623918.2

K: FOUND BRASS CAP "1940"
N: 413807.6 - E: 623928.9

L: FOUND BRASS CAP "1940"
N: 413803.6 - E: 621266.8

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Andrew W Taylor Date: 4/17/2024

Printed Name: Andrew Taylor

E-mail Address: ataylor@mewbourne.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 12/13/2022

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 19680

Job No.: LS22121322

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 395321

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 395321
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	10/25/2024