

Application for Permit to Drill

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

Date Printed: 07/14/2025 01:50 PM

APD Package Report

APD ID: 10400099679 Well Status: AAPD

APD Received Date: 07/24/2024 11:04 AM Well Name: BIG EDDY UNIT 28 QR

Operator: XTO PERMIAN OPERATING LLC Well Number: 105H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report

- Application Attachments

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- Drilling Plan Report
- Drilling Plan Attachments
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 - -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
 - -- Casing Spec Documents: 2 file(s)
 - -- Casing Taperd String Specs: 1 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 1 file(s)
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- PWD Attachments

- -- None
- Bond Report
- Bond Attachments
 - -- None

Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMLC069241 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: NMNM068294X/BIG EDDY 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone **BIG EDDY UNIT 28 QR** 106H 2. Name of Operator 9. API Well No. XTO PERMIAN OPERATING LLC 30-**015-57**306 10. Field and Pool, or Exploratory 3a Address 3b. Phone No. (include area code) 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970 (432) 683-2277 U.S./Bone Spring 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 28/T21S/R29E/NMP At surface NENE / 1235 FNL / 410 FEL / LAT 32.454262 / LONG -103.982351 At proposed prod. zone SENE / 1870 FNL / 50 FEL / LAT 32.452464 / LONG -103.929804 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State **EDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 410 feet location to nearest property or lease line, ft. 520.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20, BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 8123 feet / 24748 feet FED: COB000050 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3413 feet 12/11/2025 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) ADRIAN BAKER / Ph: (432) 682-8873 07/24/2024 (Electronic Submission) Title Regulatory Analyst Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CHRISTOPHER WALLS / Ph: (575) 234-2234 07/10/2025 Title Office Petroleum Engineer Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

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



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

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

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

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

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

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

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

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

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

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

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

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

Additional Operator Remarks

Location of Well

0. SHL: NENE / 1235 FNL / 410 FEL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.454262 / LONG: -103.982351 (TVD: 0 feet, MD: 0 feet)
PPP: SENW / 1869 FNL / 1322 FWL / TWSP: 21S / RANGE: 29E / SECTION: 27 / LAT: 32.452513 / LONG: -103.976735 (TVD: 8123 feet, MD: 10700 feet)
PPP: SWNW / 1870 FNL / 0 FEL / TWSP: 21S / RANGE: 29E / SECTION: 27 / LAT: 32.452516 / LONG: -103.98102 (TVD: 8123 feet, MD: 9400 feet)
PPP: SENE / 1870 FNL / 330 FEL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.452517 / LONG: -103.98209 (TVD: 8123 feet, MD: 8700 feet)
BHL: SENE / 1870 FNL / 50 FEL / TWSP: 21S / RANGE: 29E / SECTION: 25 / LAT: 32.452464 / LONG: -103.929804 (TVD: 8123 feet, MD: 24748 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



Big Eddy Unit 28 QR 105H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the 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 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.
- Exceptions: In areas where there is extensive log coverage (in particular the salt zone
 adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if
 additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR
 and N log requirement due to good well control or other reasons to be approved by BLM
 Geologist prior to well completion. A waiver approved by BLM must be attached to
 completion well report to satisfy COAs.
- 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.

Be aware that:

No H2S has been reported within one mile of the proposed project.

Questions? Contact Thomas Evans, BLM Geologist at 575-234-5965 or tvevans@blm.gov

Released to Imaging: 9/29/2025 7:24:44 AM Approval Date: 07/10/2025

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO

LEASE NO.: NMLC069241

LOCATION: Sec. 28, T.21 S, R 29 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Big Eddy Unit 28 QR 105H

SURFACE HOLE FOOTAGE: 1235'/N & 410'/E **BOTTOM HOLE FOOTAGE:** 1870'/N & 50'/E

COA

H ₂ S	•	No	0	C Yes			
Potash /	None	Secretary	C R-111-Q	Open Annulus			
WIPP	Choose	e an option (including bla	nk option.)	■ WIPP			
Cave / Karst	C Low	Medium	C High	Critical			
Wellhead	Conventional	• Multibowl	Both	Diverter			
Cementing	Primary Squeeze	Cont. Squeeze	EchoMeter	DV Tool			
Special Req	Capitan Reef	Water Disposal	☐ COM	Unit			
Waste Prev.	Self-Certification	Waste Min. Plan	C APD Submitted p	prior to 06/10/2024			
Additional	Flex Hose	Casing Clearance	Pilot Hole	Break Testing			
Language	Four-String	Offline Cementing	Fluid-Filled				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 468 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - 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 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 5293'.
 - b. Second stage: Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down Surface X Intermediate 1 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.

- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM NM CFO DrillingNotifications@BLM.GOV**; (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP,

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- etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

- can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 3/12/2025 575-234-5998 / zstevens@blm.gov



NAME: VISHAL RAJAN

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

Operator Certification Data Report 07/14/2025

Signed on: 07/24/2024

Operator

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

Title: Regulatory Clerk		
Street Address: 6401 HO	LIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX	Zip : 79707
Phone: (432)620-6704		
Email address: VISHAL.F	RAJAN@EXXONMOBIL.COM	
Field		
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

BLM Office: Carlsbad User: VISHAL RAJAN Title: Regulatory Clerk

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

Lease number: NMLC069241 Lease Acres:

Surface access agreement in place? Allotted? Reservation:

Agreement in place? YES Federal or Indian agreement: FEDERAL

Agreement number: NMNM68294X

Agreement name: BIG EDDY

Keep application confidential? Y

Permitting Agent? NO APD Operator: XTO PERMIAN OPERATING LLC

Operator letter of

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 HOLIDAY HILL ROAD BLDG 5

Operator PO Box:

Operator City: MIDLAND State: TX

Operator Phone: (432)683-2277

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO Master Development Plan name:

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H Well API Number:

Meiekal Pion Viou Einglich 2002 12 Field and Piol Field Name: U.S. Pool Name: Bone Spring

Zip: 79707

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: BIG Number: A

Well Class: HORIZONTAL EDDY UNIT 28 QR
Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL

Well sub-Type: EVALUATION

Describe sub-type:

Describe Well Type:

Distance to town: Distance to nearest well: 30 FT Distance to lease line: 410 FT

Reservoir well spacing assigned acres Measurement: 520 Acres

Well plat: BEU_28_QR_105H_C102_20250221183107.pdf

Well work start Date: 12/11/2025 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	123 5	FNL	410	FEL	21S	29E		Aliquot NENE	32.45426 2	- 103.9823 51	EDD Y		MEXI NEW	F	NMLC0 69241	341 3			Υ
KOP Leg #1	123 5	FNL	410	FEL	21S	29E		Aliquot NENE	32.45426 2	- 103.9823 51	EDD Y		NEW MEXI CO	F	NMLC0 69241		750 0	741 8	Υ
PPP Releas #1-1	١٨	FNL Imagi			21S <i>)25 7:</i>			Aliquot SENE	32.45251 7	- 103.9820 9	EDD Y		NEW MEXI CO	F	NMLC0 69241		870 0	812 3	Y

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	187 0	FNL	0	FEL	21S	29E	27	Aliquot SWN W	32.45251 6	- 103.9810 2	EDD Y	CO WEXI NEW	NEW MEXI CO	F	NMLC0 69144		940 0	812 3	Y
PPP Leg #1-3	186 9	FNL	132 2	FW L	21S	29E	27	Aliquot SENW	32.45251 3	- 103.9767 35	EDD Y	MEXI	NEW MEXI CO	F	NMLC0 69144A		107 00	812 3	Y
EXIT Leg #1	187 0	FNL	100	FEL	21S	29E	25	Aliquot SENE	32.45246 4	- 103.9299 66	EDD Y		NEW MEXI CO	F	NMNM 0915		246 98	812 3	Υ
BHL Leg #1	187 0	FNL	50	FEL	21S	29E	25	Aliquot SENE	32.45246 4	- 103.9298 04	EDD Y		NEW MEXI CO	F	NMNM 0915		247 48	812 3	Y

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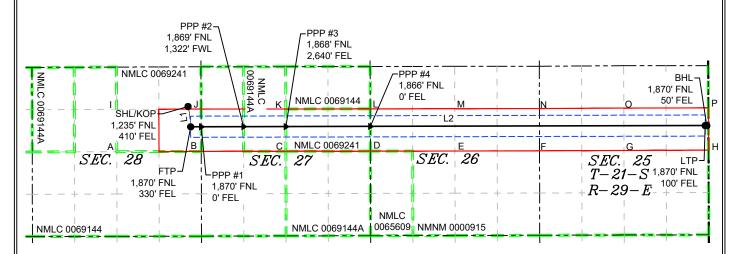
	2 electronically D Permitting					w Mexico al Resources Department ON DIVISION			Ro	evised July, 09 2024			
Via OC	D Permitting								☑ Initial Sub	mittal			
								Submital Type:	Amended 1	Report			
									☐ As Drilled				
					WELL LOCAT	TION INFORMATION							
API Nu	mber 30-01	5 _	Pool Code	97077		Pool Name	II S · B	ONE SPR	ING				
Property			Property N				0.0., D		Well Number				
					BIG ED	DY UNIT 28 QR				105H			
OGRID	No. 37307	5	Operator N		XTO PERMIA	N OPERATING, LLC) .		Ground Level Elevation 3,413'				
Surface	Owner: S	tate Fee	I Tribal ⊠Fe			Mineral Owner: □S		☐Tribal 🛛 I		<u>. </u>			
UL	Section	Township	Range	Lot	Surface Ft. from N/S	e Hole Location Ft. from E/W	Latitude	Ī	Longitude County				
A	28	218	29E	Lot	1,235 FNL	410 FEL	32.454		103.982351	EDDY			
	20	213	23L		1,233114L	4101 LL	32.434		100.902031	LDD1			
UL	Section	Township	Range	Lot	Botton Ft. from N/S	Hole Location Ft. from E/W	Latitude	Ī	ongitude	County			
Н	25	218	29E	Lot	1,870 FNL		32.452		103.929804	EDDY			
	25	210	23L		1,0701142	30122	32.432	- 1	103.929004	LDD1			
	ed Acres 20.00	Infill or Defin		Defining	Well API	Overlapping Spacing U	Jnit (Y/N)	Consolidati U	dation Code U				
Order N	Jumbers.					Well Setbacks are und	Well Setbacks are under Common Ownership: ☐ Yes ☐						
					Vial. C	Off Doing (VOD)							
UL	Section	Township	Range	Lot	Ft. from N/S	Off Point (KOP) Ft. from E/W	Latitude	L	ongitude	County			
Α	28	218	29E	29E 1,235 FNL 410 FEL 32.454262 -103.982351						EDDY			
						ake Point (FTP)							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County			
Н	28	218	29E		1,870 FNL	330 FEL	32.452517		103.982090	EDDY			
					Last Ta	ake Point (LTP)							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County			
Н	25	218	29E		1,870 FNL	100 FEL	32.452	464 -1	103.929966	EDDY			
	d Area or Are			Spacing Un	iit Type : ☑ Horiz	contal	Groun	nd Elevation	3,413'				
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS						
I hereby certify that the information contained herein is true and complete to t best of my knowledge and belief, and, if the well is vertical or directional well, that this organization either owns a working interest or unleased mineral inter in the land including the proposed bottom hole location or has a right to drill at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of 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 information) in which any part of the well's completed interval will be located or obtained a						I hereby certify that the w actual surveys made by m correct to the best of my b	e or under my	supervision,	and that the san	ne is true and			
Compuls Signatur	riniVa	order from the di	reen Date	9/11/2		Signature and Seal of Professional Surveyor							
		en Laghuva	rapu			MARK DILLON HARP 2378		. c	1/28/2025				
Printed Srir		huvarapu@	exxonmol	oil.com		Certificate Number	Date of	Survey					
Email A													
						DN			618.01300	4.26-06			

Note: 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.

ACREAGE DEDICATION PLATS

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

Surveyor 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 in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



	LINE TABLE											
LINE	AZIMUTH	LENGTH										
L1	172*34'56"	639.66'										
L2	089*52'00"	16,128.19										

LEGEND

SECTION LINE
PROPOSED WELL BORE
NEW MEXICO MINERAL LEASE
330' BUFFER
ALLOCATION AREA

				COOR	<u>DIN</u>	IATE TAI	BLE_				
SHL/KOI	(NAD 83 N	ME)	FTP (i	NAD 83 NME	:)	PPP #1	(NAD 83 NM	E)	PPP #2 (NAD 83 NME	Ξ)
Y =	529,169.3	Ν	Y =	528,535.0	Ν	Y =	528,535.8	Ν	Y =	528,538.8	N
X =	649,598.3	Ш	X =	649,680.9	Е	X =	650,010.9	Е	X =	651,332.7	Е
LAT. =	32.454262	°N	LAT. =	32.452517	°N	LAT. =	32.452516	°N	LAT. =	32.452513	°N
LONG. =	103.982351	°W	LONG. =	103.982090	°W	LONG. =	103.981020	°W	LONG. =	103.976735	°W
PPP #3	P #3 (NAD 83 NME) PPP #4 (NAD 83 NME)					LTP (I	NAD 83 NME	(:)	BHL (N	AD 83 NME)	
Y =	528,541.9	Ν	Y =	528,548.1	N	Y =	528,572.5	Ν	Y =	528,572.5	N
X =	652,654.5	Е	X =	655,294.9	Е	X =	665,759.0	П	X =	665,809.0	Е
LAT. =	32.452509	°N	LAT. =	32.452501	°N	LAT. =	32.452464	°N	LAT. =	32.452464	°N
LONG. =	103.972450	°W	LONG. =	103.963890	°W	LONG. =	103.929966	°W	LONG. =	103.929804	°W
SHL/KOI	HL/KOP (NAD 27 NME) FTP (NAD 27 NME)					PPP #1	(NAD 27 NM	E)	PPP #2 (NAD 27 NME	Ξ)
Y =	529,108.2	Ν	Y =	528,474.0	Ν	Y =	528,474.7	Ν	Y =	528,477.8	N
X =	608,417.7	Е	X =	608,500.2	Е	X =	608,830.2	Е	X =	610,152.0	Е
LAT. =	32.454140	°N	LAT. =	32.452396	°N	LAT. =	32.452395	νN	LAT. =	32.452392	°N
LONG. =	103.981851	°W	LONG. =	103.981590	°W	LONG. =	103.980520	°W	LONG. =	103.976235	°W
PPP #3	(NAD 27 NM	IE)	PPP #4	(NAD 27 NM	IE)	LTP (I	NAD 27 NME	(:	BHL (N	AD 27 NME)	
Y =	528,480.9	Ν	Y =	528,487.0	Ν	Y =	528,511.3	Z	Υ =	528,511.3	N
X =	611,473.9	Е	X =	614,114.3	Е	X =	624,578.3	Е	X =	624,628.3	Е
LAT. =	32.452388	°N	LAT. =	32.452380	°N	LAT. =	32.452342	°N	LAT. =	32.452342	°N
LONG. =	103.971950	°W	LONG. =	103.963390	°W	LONG. =	103.929467	°W	LONG. =	103.929305	°W
COF	RNER COOR	DIN	ATES (NA	AD 83 NME)		CC	RNER COO	RDI	NATES (NA	D 27 NME)	
A - Y =	527,756.4	Ν	A - X =	647,373.7	Е	A-Y=	527,695.4	Ν	A - X =	606,193.0	Е
B - Y =	527,765.9	Ν	B - X =	650,013.4	Е	B - Y =	527,704.9	Ν	B - X =	608,832.7	Е
C - Y =	527 769 3	N	C - X =	652 656 7	F	C - Y =	527 708 3	Ν	C - X =	611 476 0	F

COF	RNER COOR	DIN	ATES (NA	AD 83 NME)		CORNER COORDINATES (NAD 27 NME)							
A - Y =	527,756.4	Z	A - X =	647,373.7	Е	A - Y =	527,695.4	Z	A - X =	606,193.0	П		
B - Y =	527,765.9	Ζ	B - X =	650,013.4	Е	B - Y =	527,704.9	Ν	B-X=	608,832.7	Е		
C - Y =	527,769.3	Ν	C - X =	652,656.7	Е	C - Y =	527,708.3	Ν	C - X =	611,476.0	Е		
D - Y =	527,772.7	Ν	D - X =	655,297.3	Е	D - Y =	527,711.6	Ν	D - X =	614,116.6	Е		
E - Y =	527,778.4	Ν	E - X =	657,937.6	Е	E-Y=	527,717.3	Ν	E - X =	616,756.9	Е		
F - Y =	527,770.3	Ν	F - X =	660,580.9	Е	F - Y =	527,709.2	Ν	F - X =	619,400.2	Е		
G-Y=	527,792.9	Ν	G-X=	663,218.6	Е	G-Y=	527,731.8	Ν	G-X=	622,037.9	Е		
H - Y =	527,801.8	Ζ	H - X =	665,862.5	Е	H-Y=	527,740.6	Ν	H-X=	624,681.8	Е		
I - Y =	529,077.1	Ζ	I - X =	647,369.6	Е	I - Y =	529,016.1	Z	I - X =	606,188.9	Е		
J - Y =	529,086.0	Ν	J - X =	650,009.1	Е	J - Y =	529,024.9	Ν	J - X =	608,828.4	Е		
K - Y =	529,089.4	Z	K - X =	652,653.0	Е	K-Y=	529,028.4	Z	K - X =	611,472.3	Е		
L - Y =	529,093.5	Ζ	L - X =	655,293.3	Е	L - Y =	529,032.4	Ζ	L - X =	614,112.6	Е		
M - Y =	529,099.9	Ν	M - X =	657,933.2	Е	M - Y =	529,038.8	Z	M - X =	616,752.5	Е		
N - Y =	529,103.7	Ν	N - X =	660,577.5	Е	N - Y =	529,042.5	Ν	N - X =	619,396.9	Е		
O - Y =	529,116.9	Ν	O - X =	663,213.9	Ε	O - Y =	529,055.8	Ν	O - X =	622,033.2	Ε		
P - Y =	529,122.2	Ν	P-X=	665,856.5	Ε	P-Y=	529,061.0	N	P-X=	624,675.8	Е		

DN 618.013004.26-06



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

Drilling Plan Data Report

07/14/2025

APD ID: 10400099679

Submission Date: 07/24/2024

Highlighted data reflects the most recent changes

Operator Name: XTO PERMIAN OPERATING LLC
Well Name: BIG EDDY UNIT 28 QR

Well Number: 105H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16009356	QUATERNARY	3413	0	0	ALLUVIUM	USEABLE WATER	N
16009357	RUSTLER	3046	367	367	ANHYDRITE, SANDSTONE	USEABLE WATER	N
16009358	SALADO	2836	577	577	SALT	NONE	N
16009359	BASE OF SALT	489	2924	2924	SALT	NONE	N
16009360	DELAWARE	214	3199	3199	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
16009361	BRUSHY CANYON	-1879	5292	5292	SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
16009362	BONE SPRING	-3511	6924	6924	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	Y
16009363	BONE SPRING 1ST	-4263	7676	7676	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	Y
16009364	BONE SPRING 1ST	-4567	7980	7980	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 8123

Equipment: Once the permanent WH is installed on the surface casing, the BOP equipment will have a 5M Hydril Annular & a 10M Triple Ram BOP. XTO will use a Multi-Bowl System which is attached

Requesting Variance? YES

Variance request: XTO requests a variance to allow the use of a flex hose. See attached. XTO requests a variance to be able to batch drill this well if necessary. XTO requests a variance to utilize a spudder rig. See attached. XTO requests a break test variance. See attached.

Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172.

Choke Diagram Attachment:

BEU_28_QR_10MCM_20250220131613.pdf

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Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

BEU_28_QR_10MCM_20250220131613.pdf

BEU_28_QR_5M10M_BOP_20250220131632.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.2 5	9.625	NEW	API	Z	0	467	0	467	3413	2946	467	J-55	40	BUTT	13.4 8	1.83	DRY	33.7 3	DRY	33.7 3
2		12.2 5	7.625	NEW	API	Y	0	7185	0	7109	3413	-3696	7185	L-80	29.7	FJ	2.64	3.42	DRY	4.29	DRY	4.29
3	PRODUCTI ON	6.75	5.5	NEW	NON API	Y	0	24748	0	8123	3413	-4710	24748	P- 110		OTHER - Talon HTQ/Freedo m HTQ	2.92	1.05	DRY	2.25	DRY	2.25

Casing Attachments

Casing ID:	1	String	SURFACE
		•9	00111710

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Casing Attachments

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Freedom_5.5000_20.0000_0.3610__P110_RY_20240702150156.pdf
Talon_HTQ_RD_5.5000_20.0000_0.3610__P110_RY_20240702150156.pdf

Tapered String Spec:

BEU_28_QR_105H_Csg_20250220131854.pdf

Casing Design Assumptions and Worksheet(s):

BEU_28_QR_105H_Csg_20250220131914.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	NA	NA
SURFACE	Tail		0	467	210	1.35	14.8	283.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	5292	170	1.35	14.8	229.5	100	Class C	NA
INTERMEDIATE	Tail		5292	7185	590	1.33	14.8	784.7	100	Class C	NA

Released to Imaging: 9/29/2025 7:24:44 AM

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		6885	7385	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		7385	2474 8	1240	1.51	13.2	1872. 4	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt. A saturated salt brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	467	WATER-BASED MUD	8.4	8.9							
7185	2474 8	OIL-BASED MUD	9	9.5							
467	7185	OTHER: Saturated salt for salt interval / Direct Emulsion ing: 9/29/2025 7:2	10	10.5							

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Section 6 - Test, Logging, Coring

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

Open hole logging will not be done on this well.

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

CEMENT BOND LOG, DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4013

Anticipated Surface Pressure: 2225

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240806072508.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BEU 28 QR 105H DD 20240710091718.pdf

Big_Eddy_Unit_28_QR_105H_Directional_Plan_View_20250220132314.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

BEU_28_QR_H2S_PAD_A_20240708073430.pdf

BEU_28_QR_H2S_PAD_C_20240708073430.pdf

BEU_28_QR_105H_Cmt_20240710091727.pdf

BEU 28 QR MBS 9.625 x 7.625 20240710091746.pdf

NGMPForm_Batman_Updated_20250221184433.pdf

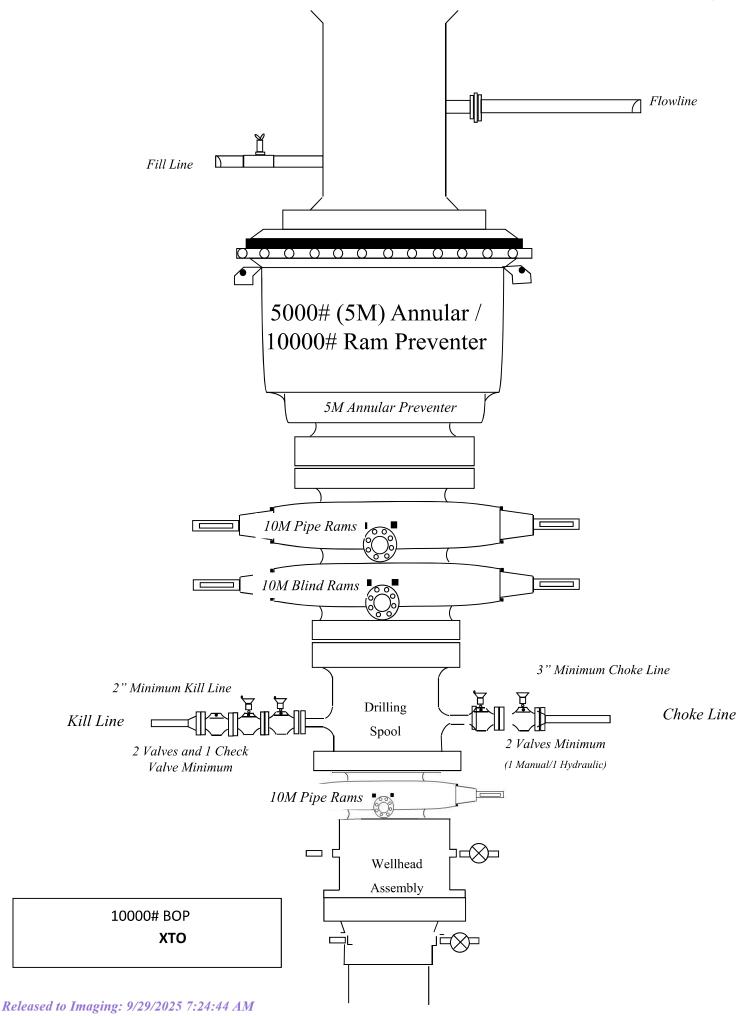
Other Variance request(s)?:

Υ

Other Variance attachment Released to Imaging: 9/29/2025 7:24:44 AM

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

BEU_28_QR_OLCV_20240708073708.pdf
BEU_28_QR_Flex_Hose_Updated_20240723101808.pdf
Spudder_Rig_Request_20240806072541.pdf
BOP_Break_Test_Variance_20250220132436.pdf



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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wal

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

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		
Minimum Yield Strength	110,000		psi	
Maximum Yield Strength	125,000		psi	
Minimum Tensile Strength	125,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	l b	
Compression Rating		641,000	lb	
Reference Length		21,370	ft	
Maximum Uniaxial Bend Rating		91.7	deg/100 ft	
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	
Maximum Make-Up Torque		20,000	ft-lb	
Maximum Operating Torque		39,500	ft-lb	

Notes

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

Legal Notice

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®



11/8/2023 1:08:50 PM

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ $^{ m ext{ iny R}}$	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-FREEDOM HTQ [®]	
Outside Diameter	5.500	6.300	in.
Wall Thickness	0.361		in.
Inside Diameter	4.778	4.778	in.
Standard Drift	4.653	4.653	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	20.00		lb/ft
Plain End Weight	19.83		lb/ft
SECTION AREA	Pipe	USS-FREEDOM HTQ®	
Critical Area	5.828	5.828	sq. in.
Joint Efficiency		100.0	%
PERFORMANCE	Pipe	USS-FREEDOM HTQ®	
Minimum Collapse Pressure	11,100	11,100	psi
Minimum Internal Yield Pressure	12,640	12,640	psi
Minimum Pipe Body Yield Strength	641,000		lb
Joint Strength		641,000	lb
Compression Rating		641,000	lb
Reference Length [4]		21,370	ft
Maximum Uniaxial Bend Rating [2]		91.7	deg/100 ft
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ [®]	
Make-Up Loss		4.13	in.
Minimum Make-Up Torque [3]		15,000	ft-lb
Maximum Make-Up Torque [3]		21,000	ft-lb
Maximum Operating Torque[3]		29,500	ft-lb

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' - 467'	9.625	40	J-55	втс	New	1.83	13.48	33.73
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.70	2.57	2.61
8.75	4000' – 7185'	7.625	29.7	HC L-80	Flush Joint	New	3.42	2.64	4.29
6.75	0' - 7085'	5.5	20	RY P-110	Semi-Premium/ Freedom HTQ	New	1.05	3.35	2.25
6.75	7085' - 24748.1'	5.5	20	RY P-110	Semi-Flush/ Talon HTQ	New	1.05	2.92	2.25

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' - 467'	9.625	40	J-55	втс	New	1.83	13.48	33.73
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	4.70	2.57	2.61
8.75	4000' – 7185'	7.625	29.7	HC L-80	Flush Joint	New	3.42	2.64	4.29
6.75	0' - 7085'	5.5	20	RY P-110	Semi-Premium/ Freedom HTQ	New	1.05	3.35	2.25
6.75	7085' - 24748.1'	5.5	20	RY P-110	Semi-Flush/ Talon HTQ	New	1.05	2.92	2.25



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283

Long Lead_Well Planning

BEU 28 QR Big Eddy Unit 28 QR 105H Big Eddy Unit 28 QR 105H

ОН

Plan: Plan 1

Standard Planning Report

29 June, 2024

XTO Energy

Planning Report

Database: LMRKPROD3

Company: Long Lead_Well Planning

Project: BEU 28 QR

Site: Big Eddy Unit 28 QR 105H
Well: Big Eddy Unit 28 QR 105H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

Minimum Curvature

Project BEU 28 QR

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site Big Eddy Unit 28 QR 105H

 Site Position:
 Northing:
 529,108.20 usft
 Latitude:
 32° 27′ 14.905 N

 From:
 Map
 Easting:
 608,417.70 usft
 Longitude:
 103° 58′ 54.661 W

Position Uncertainty: 3.0 usft Slot Radius: 13-3/16 '

Well Big Eddy Unit 28 QR 105H

Well Position +N/-S 529,108.20 usft 32° 27' 14.905 N 0.0 usft Northing: Latitude: +E/-W 0.0 usft Easting: 608,417.70 usft Longitude: 103° 58' 54.661 W 0.0 usft Wellhead Elevation: Ground Level: 3,413.0 usft **Position Uncertainty** usft

Grid Convergence: 0.19 $^{\circ}$

Wellbore OH

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 6/29/2024
 6.40
 59.95
 47,271.90545799

Design Plan 1

Audit Notes:

Version:Phase:PLANTie On Depth:0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (°)

 0.0
 0.0
 0.0
 0.0
 89.87

Plan Survey Tool Program Date 6/29/2024

Depth From Depth To
(usft) (usft) Survey (Wellbore)

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 24,748.1 Plan 1 (OH) XOM_R2OWSG MWD+IFR1+
OWSG MWD + IFR1 + Multi-St

Plan Sections Vertical Build Measured Dogleg Turn Inclination Azimuth +N/-S +E/-W Depth Depth Rate Rate Rate TFO (usft) (°) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) **Target** (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 3,000.0 3,000.0 0.00 0.00 0.00 0.0 0.0 0.00 0.00 0.00 3,576.3 11.53 229.81 3,572.4 -37.3 -44.1 2.00 2.00 0.00 229.81 7,304.3 -528.4 -625.5 7,385.0 0.00 0.00 0.00 11.53 229.81 0.00 -634.2 -139.37 FTP_105H 8,619.9 90.00 89.87 8,123.0 82.5 8.00 6.35 -11.33 24,698.1 90.00 89.87 8,123.0 -596.9 16,160.6 0.00 0.00 0.00 0.00 LTP_105H -596.8 0.00 BHL_105H 24,748.1 90.00 89.87 8,123.0 16,210.6 0.00 0.00 0.00

XTO Energy Planning Report

Database: LMRKPROD3

Company: Long Lead_Well Planning

Project: BEU 28 QR

Site: Big Eddy Unit 28 QR 105H
Well: Big Eddy Unit 28 QR 105H

Wellbore: OH
Design: Plan 1

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MD Reference:
North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL_105H									
367.0	0.00	0.00	367.0	0.0	0.0	0.0	0.00	0.00	0.00
RUSLTER									
577.0	0.00	0.00	577.0	0.0	0.0	0.0	0.00	0.00	0.00
SALADO 2,924.0	0.00	0.00	2,924.0	0.0	0.0	0.0	0.00	0.00	0.00
SALT BASE		0.00	2,924.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	229.81	3,100.0	-1.1	-1.3	-1.3	2.00	2.00	0.00
3,199.2	3.98	229.81	3,199.0	-4.5	-5.3	-5.3	2.00	2.00	0.00
DELAWARE									
3,200.0	4.00	229.81	3,199.8	- 4.5	-5.3	-5.3	2.00	2.00	0.00
3,300.0 3,400.0	6.00 8.00	229.81 229.81	3,299.5 3,398.7	-10.1 -18.0	-12.0 -21.3	-12.0 -21.3	2.00 2.00	2.00 2.00	0.00 0.00
3,500.0	10.00	229.81	3,497.5	-28.1	-33.2	-33.3	2.00	2.00	0.00
3,576.3	11.53	229.81	3,572.4	-26.1 -37.3	-33.2 -44.1	-33.3 -44.2	2.00	2.00	0.00
3,600.0	11.53	229.81	3,595.6	-40.3	-47.8	-47.8	0.00	0.00	0.00
3,700.0	11.53	229.81	3,693.6	-53.2	-63.0	-63.1	0.00	0.00	0.00
3,800.0	11.53	229.81	3,791.6	-66.1	-78.3	- 78.4	0.00	0.00	0.00
3,900.0	11.53	229.81	3,889.6	-79.0	-93.5	-93.7	0.00	0.00	0.00
4,000.0 4,100.0	11.53 11.53	229.81 229.81	3,987.6 4,085.6	-91.9 -104.8	-108.8 -124.1	-109.0 -124.3	0.00 0.00	0.00 0.00	0.00 0.00
4,146.4	11.53	229.81	4,131.0	-110.8	-131.2	-131.4	0.00	0.00	0.00
CHERRY CA	ANYON								
4,200.0	11.53	229.81	4,183.5	-117.7	-139.3	-139.6	0.00	0.00	0.00
4,300.0	11.53	229.81	4,281.5	-130.6	-154.6	-154.9	0.00	0.00	0.00
4,400.0 4,500.0	11.53 11.53	229.81 229.81	4,379.5 4,477.5	-143.5 -156.4	-169.9 -185.1	-170.2 -185.5	0.00 0.00	0.00 0.00	0.00 0.00
4,600.0	11.53	229.81	4,575.5	-169.3	-200.4	-200.8	0.00	0.00	0.00
4,700.0	11.53	229.81	4,673.5	-182.2	-215.7	-216.1	0.00	0.00	0.00
4,800.0	11.53	229.81	4,771.4	-195.1	-230.9	-231.4	0.00	0.00	0.00
4,900.0	11.53	229.81	4,869.4	-208.0	-246.2	-246.7	0.00	0.00	0.00
5,000.0 5,100.0	11.53 11.53	229.81 229.81	4,967.4 5,065.4	-220.9 -233.8	-261.5 -276.7	-262.0 -277.3	0.00 0.00	0.00 0.00	0.00 0.00
5,100.0	11.53	229.81	5,163.4	-235.6 -246.7	-270.7 -292.0	-277.3 -292.5	0.00	0.00	0.00
5,300.0	11.53	229.81	5,261.4	-259.5	-307.3	-307.8	0.00	0.00	0.00
5,331.3	11.53	229.81	5,292.0	-263.6	-312.0	-312.6	0.00	0.00	0.00
BRUSHY CA									
5,400.0	11.53	229.81	5,359.3	-272.4	-322.5	-323.1	0.00	0.00	0.00
5,500.0 5,600.0	11.53 11.53	229.81 229.81	5,457.3 5,555.3	-285.3 -298.2	-337.8 -353.0	-338.4 -353.7	0.00 0.00	0.00 0.00	0.00 0.00
5,700.0	11.53	229.81	5,653.3	-311.1	-368.3	-369.0	0.00	0.00	0.00
5,700.0	11.53	229.81	5,053.3 5,751.3	-311.1 -324.0	-368.3 -383.6	-369.0 -384.3	0.00	0.00	0.00
5,900.0	11.53	229.81	5,849.3	-336.9	-398.8	-399.6	0.00	0.00	0.00
6,000.0	11.53	229.81	5,947.2	-349.8	-414.1	-414.9 420.0	0.00	0.00	0.00
6,100.0	11.53	229.81	6,045.2	-362.7	-429.4	-430.2	0.00	0.00	0.00
6,200.0	11.53	229.81	6,143.2	-375.6	-444.6 450.0	-445.5	0.00	0.00	0.00
6,300.0 6,400.0	11.53 11.53	229.81 229.81	6,241.2 6,339.2	-388.5 -401.4	-459.9 -475.2	-460.8 -476.1	0.00 0.00	0.00 0.00	0.00 0.00
6,500.0	11.53	229.81	6,437.2	414.3	-490.4	-4 70.1	0.00	0.00	0.00
6,600.0	11.53	229.81	6,535.1	-427.2	-505.7	-506.7	0.00	0.00	0.00
6,692.7	11.53	229.81	6,626.0	-439.1	-519.8	-520.8	0.00	0.00	0.00

XTO Energy Planning Report

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Well: Big Eddy Unit 28 QR 105H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

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MD Reference:
North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

•	FIGIT 1								
ed Survey									
Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usit)	(°)	(°)	(usit)	(usft)	(usft)	(usit)	(7100usit)	(/ loousit)	(/ Toousit)
BASAL BI	RUSHY CANYON								
6,700.0	0 11.53	229.81	6,633.1	-440.1	-521.0	-522.0	0.00	0.00	0.00
6,800.0	0 11.53	229.81	6,731.1	-453.0	-536.2	-537.2	0.00	0.00	0.00
6,900.0		229.81	6,829.1	-465.9	-551.5	-552.5	0.00	0.00	0.00
6,996.9		229.81	6,924.0	-478.3	-566.3	-567.4	0.00	0.00	0.00
	RING LIME		,						
7.000.0	0 11.53	229.81	6,927.1	-478.8	-566.8	-567.8	0.00	0.00	0.00
7,000.0		229.81	7,025.1	-478.8 -491.6	-582.0	-583.1	0.00	0.00	0.00
			7,025.1 7,055.0		-586.7	-587.8		0.00	0.00
7,130.6		229.81	7,055.0	-495.6	-586.7	-587.8	0.00	0.00	0.00
AVALON U		220.04	7 400 0	F04 F	507.0	500.4	0.00	0.00	0.00
7,200.0		229.81	7,123.0	-504.5	-597.3	-598.4	0.00	0.00	0.00
7,300.0	0 11.53	229.81	7,221.0	-517.4	-612.5	-613.7	0.00	0.00	0.00
7,385.0	11.53	229.81	7,304.3	-528.4	-625.5	-626.7	0.00	0.00	0.00
7,400.0	0 10.64	225.57	7,319.0	-530.3	-627.7	-628.9	8.00	-5.88	-28.23
7,500.0		176.76	7,417.9	-543.3	-633.9	-635.1	8.00	-3.16	-48.81
7,532.4		157.96	7,450.0	-547.5	-632.9	-634.2	8.00	1.74	-58.05
	MIDDLE CARB								
7,600.0		131.24	7,516.7	-556.3	-626.2	-627.4	8.00	4.70	-39.52
· ·			*			000.4		0.00	
7,624.9		125.22	7,541.0	-559.5	-622.1	-623.4	8.00	6.23	-24.20
AVALON L									
7,700.0		113.71	7,613.4	-568.9	-604.7	-606.0	8.00	6.93	-15.32
7,766.8	3 22.94	107.93	7,676.0	-577.1	-582.9	-584.2	8.00	7.42	-8.65
	E SPRING LIME								
7,800.0		105.87	7,706.3	-581.0	-569.8	-571.1	8.00	7.58	-6.21
7,900.0	33.16	101.45	7,793.4	-592.4	-522.3	-523.6	8.00	7.71	-4.42
8,000.8	0 40.97	98.56	7,873.2	-602.7	-463.0	-464.3	8.00	7.81	-2.89
8,100.0		96.46	7,943.9	-611.8	-393.0	-394.4	8.00	7.86	-2.10
8,157.4		95.47	7,980.0	-616.4	-348.6	-350.0	8.00	7.89	-1.72
	SPRING SAND		,						
8,200.0		94.81	8,004.4	-619.6	-313.8	-315.2	8.00	7.90	-1.55
8,300.0		93.43	8,053.3	-625.8	-226.9	-228.3	8.00	7.91	-1.37
8,400.0		92.23	8,089.8	-630.3	-134.0	-135.4	8.00	7.92	-1.20
8,500.0		91.13	8,113.1	-633.2	-36.9	-38.3	8.00	7.93	-1.10
8,600.0		90.07	8,122.7	-634.2	62.6	61.1	8.00	7.93	-1.05
8,619.9		89.87	8,123.0	-634.2	82.5	81.1	8.00	7.93	-1.04
	POINT - FTP_105H								
8,700.0	90.00	89.87	8,123.0	-634.0	162.6	161.1	0.00	0.00	0.00
8,800.0	90.00	89.87	8,123.0	-633.8	262.6	261.1	0.00	0.00	0.00
8,900.0		89.87	8,123.0	-633.6	362.6	361.1	0.00	0.00	0.00
9,000.0		89.87	8,123.0	-633.3	462.6	461.1	0.00	0.00	0.00
9,100.0		89.87	8,123.0	-633.1	562.6	561.1	0.00	0.00	0.00
9,200.0		89.87	8,123.0	-632.9	662.6	661.1	0.00	0.00	0.00
9,300.0		89.87	8,123.0	-632.6	762.6	761.1	0.00	0.00	0.00
9,400.0		89.87	8,123.0	-632.4	862.6	861.1	0.00	0.00	0.00
9,500.0		89.87	8,123.0	-632.2	962.6	961.1	0.00	0.00	0.00
9,600.0		89.87	8,123.0	-631.9	1,062.6	1,061.1	0.00	0.00	0.00
9,700.0	90.00	89.87	8,123.0	-631.7	1,162.6	1,161.1	0.00	0.00	0.00
9,800.0	90.00	89.87	8,123.0	-631.5	1,262.6	1,261.1	0.00	0.00	0.00
9,900.0		89.87	8,123.0	-631.2	1,362.6	1,361.1	0.00	0.00	0.00
10,000.0		89.87	8,123.0	-631.0	1,462.6	1,461.1	0.00	0.00	0.00
10,100.0		89.87	8,123.0	-630.8	1,562.5	1,561.1	0.00	0.00	0.00
10,200.0		89.87	8,123.0	-630.5	1,662.5	1,661.1	0.00	0.00	0.00
10,300.0	90.00	89.87	8,123.0	-630.3	1,762.5	1,761.1	0.00	0.00	0.00

XTO Energy

Planning Report

LMRKPROD3 Database:

Long Lead_Well Planning Company:

Project: BEU 28 QR

Big Eddy Unit 28 QR 105H Site: Well: Big Eddy Unit 28 QR 105H

Wellbore: ОН Design: Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

esign:	ridii i								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.0	90.00	89.87	8,123.0	-630.1	1,862.5	1,861.1	0.00	0.00	0.00
10,500.0	90.00	89.87	8,123.0	-629.8	1,962.5	1,961.1	0.00	0.00	0.00
10,600.0	90.00	89.87	8,123.0	-629.6	2,062.5	2,061.1	0.00	0.00	0.00
10,700.0	90.00	89.87	8,123.0	-629.4	2,162.5	2,161.1	0.00	0.00	0.00
40,000,0	00.00	00.07				0.004.4	0.00	0.00	0.00
10,800.0	90.00	89.87	8,123.0	-629.1	2,262.5	2,261.1	0.00	0.00	0.00
10,900.0	90.00	89.87	8,123.0	-628.9	2,362.5	2,361.1	0.00	0.00	0.00
11,000.0	90.00	89.87	8,123.0	-628.7	2,462.5	2,461.1	0.00	0.00	0.00
11,100.0	90.00	89.87	8,123.0	-628.4	2,562.5	2,561.1	0.00	0.00	0.00
11,200.0	90.00	89.87	8,123.0	-628.2	2,662.5	2,661.1	0.00	0.00	0.00
11,300.0	90.00	89.87	8,123.0	-628.0	2,762.5	2,761.1	0.00	0.00	0.00
11,400.0	90.00	89.87	8,123.0	-627.8	2,862.5	2,861.1	0.00	0.00	0.00
11,500.0	90.00	89.87	8,123.0	-627.5	2,962.5	2,961.1	0.00	0.00	0.00
11,600.0	90.00	89.87	8,123.0	-627.3	3,062.5	3,061.1	0.00	0.00	0.00
11,700.0	90.00	89.87	8,123.0	-627.1	3,162.5	3,161.1	0.00	0.00	0.00
11,800.0	90.00	89.87	8,123.0	-626.8	3,262.5	3,261.1	0.00	0.00	0.00
11,900.0	90.00	89.87	8,123.0	-626.6	3,362.5	3,361.1	0.00	0.00	0.00
12,000.0	90.00	89.87	8,123.0	-626.4	3,462.5	3,461.1	0.00	0.00	0.00
12,100.0	90.00	89.87	8,123.0	-626.1	3,562.5	3,561.1	0.00	0.00	0.00
12,200.0	90.00	89.87	8,123.0	-625.9	3,662.5	3,661.1	0.00	0.00	0.00
12,300.0	90.00	89.87	8,123.0	-625.7	3,762.5	3,761.1	0.00	0.00	0.00
12,400.0	90.00	89.87	8,123.0	-625.4	3,862.5	3,861.1	0.00	0.00	0.00
12,500.0	90.00	89.87	8,123.0	-625.2	3,962.5	3,961.1	0.00	0.00	0.00
12,600.0	90.00	89.87	8,123.0	-625.0	4,062.5	4,061.1	0.00	0.00	0.00
12,700.0	90.00	89.87	8,123.0	-624.7	4,062.5	4,161.1	0.00	0.00	0.00
12,700.0	90.00	09.07	0,123.0		4,102.5	4,101.1	0.00	0.00	0.00
12,800.0	90.00	89.87	8,123.0	-624.5	4,262.5	4,261.1	0.00	0.00	0.00
12,900.0	90.00	89.87	8,123.0	-624.3	4,362.5	4,361.1	0.00	0.00	0.00
13,000.0	90.00	89.87	8,123.0	-624.0	4,462.5	4,461.1	0.00	0.00	0.00
13,100.0	90.00	89.87	8,123.0	-623.8	4,562.5	4,561.1	0.00	0.00	0.00
13,200.0	90.00	89.87	8,123.0	-623.6	4,662.5	4,661.1	0.00	0.00	0.00
13,300.0	90.00	89.87	8,123.0	-623.3	4,762.5	4,761.1	0.00	0.00	0.00
13,400.0	90.00	89.87	8,123.0 8,123.0	-623.1	4,862.5	4,761.1	0.00	0.00	0.00
13,500.0	90.00	89.87	8,123.0 8,123.0	-622.9	4,962.5	4,961.1	0.00	0.00	0.00
13,600.0	90.00	89.87	8,123.0 8,123.0	-622.6	5,062.5	5,061.1	0.00	0.00	0.00
13,700.0	90.00	89.87		-622.6 -622.4			0.00	0.00	
13,700.0		09.07	8,123.0		5,162.5	5,161.1		0.00	0.00
13,800.0	90.00	89.87	8,123.0	-622.2	5,262.5	5,261.1	0.00	0.00	0.00
13,900.0	90.00	89.87	8,123.0	-622.0	5,362.5	5,361.1	0.00	0.00	0.00
14,000.0	90.00	89.87	8,123.0	-621.7	5,462.5	5,461.1	0.00	0.00	0.00
14,100.0	90.00	89.87	8,123.0	-621.5	5,562.5	5,561.1	0.00	0.00	0.00
14,200.0	90.00	89.87	8,123.0	-621.3	5,662.5	5,661.1	0.00	0.00	0.00
14,300.0	90.00	89.87	8,123.0	-621.0	5,762.5	5,761.1	0.00	0.00	0.00
14,300.0	90.00	89.87 89.87	8,123.0 8,123.0	-621.0 -620.8	5,762.5 5,862.5	5,761.1	0.00	0.00	0.00
14,400.0	90.00	89.87	8,123.0 8,123.0	-620.6		5,961.1			0.00
14,500.0	90.00	89.87 89.87	8,123.0 8,123.0		5,962.5 6,062.5		0.00	0.00	
				-620.3		6,061.1	0.00	0.00	0.00
14,700.0	90.00	89.87	8,123.0	-620.1	6,162.5	6,161.1	0.00	0.00	0.00
14,800.0	90.00	89.87	8,123.0	-619.9	6,262.5	6,261.1	0.00	0.00	0.00
14,900.0	90.00	89.87	8,123.0	-619.6	6,362.5	6,361.1	0.00	0.00	0.00
15,000.0	90.00	89.87	8,123.0	-619.4	6,462.5	6,461.1	0.00	0.00	0.00
15,100.0	90.00	89.87	8,123.0	-619.2	6,562.5	6,561.1	0.00	0.00	0.00
15,200.0	90.00	89.87	8,123.0	-618.9	6,662.5	6,661.1	0.00	0.00	0.00
								0.00	0.00
15,300.0	90.00	89.87	8,123.0	-618.7	6,762.5	6,761.1	0.00		0.00
15,400.0	90.00	89.87	8,123.0	-618.5	6,862.5	6,861.1	0.00	0.00	0.00
15,500.0	90.00	89.87	8,123.0	-618.2	6,962.5	6,961.1	0.00	0.00	0.00
15,600.0	90.00	89.87	8,123.0	-618.0	7,062.5	7,061.1	0.00	0.00	0.00
15,700.0	90.00	89.87	8,123.0	-617.8	7,162.5	7,161.1	0.00	0.00	0.00

XTO Energy

Planning Report

LMRKPROD3 Database:

Long Lead_Well Planning Company:

Project: BEU 28 QR

Big Eddy Unit 28 QR 105H Site: Well: Big Eddy Unit 28 QR 105H

Wellbore: ОН Design: Plan 1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

Design:	Plan 1								
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
15,800.0	90.00	89.87	8,123.0	-617.5	7,262.5	7,261.1	0.00	0.00	0.00
15,900.0	90.00	89.87	8,123.0	-617.3	7,362.5	7,361.1	0.00	0.00	0.00
16,000.0	90.00	89.87	8,123.0	-617.1	7,462.5	7,461.1	0.00	0.00	0.00
16,100.0	90.00	89.87	8,123.0	-616.8	7,562.5	7,561.1	0.00	0.00	0.00
16,200.0	90.00	89.87	8,123.0	-616.6	7,662.5	7,661.1	0.00	0.00	0.00
					•	•			
16,300.0	90.00	89.87	8,123.0	-616.4	7,762.5	7,761.1	0.00	0.00	0.00
16,400.0	90.00	89.87	8,123.0	-616.2	7,862.5	7,861.1	0.00	0.00	0.00
16,500.0	90.00	89.87	8,123.0	-615.9	7,962.5	7,961.1	0.00	0.00	0.00
16,600.0	90.00	89.87	8,123.0	-615.7	8,062.5	8,061.1	0.00	0.00	0.00
16,700.0	90.00	89.87	8,123.0	-615.5	8,162.5	8,161.1	0.00	0.00	0.00
16,800.0	90.00	89.87	8,123.0	-615.2	8,262.5	8,261.1	0.00	0.00	0.00
16,900.0	90.00	89.87	8,123.0	-615.0	8,362.5	8,361.1	0.00	0.00	0.00
17,000.0	90.00	89.87	8,123.0	-614.8	8,462.5	8,461.1	0.00	0.00	0.00
17,100.0	90.00	89.87	8,123.0	-614.5	8,562.5	8,561.1	0.00	0.00	0.00
17,200.0	90.00	89.87	8,123.0	-614.3	8,662.5	8,661.1	0.00	0.00	0.00
17,300.0	90.00	89.87	8,123.0	-614.1	8,762.5	8,761.1	0.00	0.00	0.00
17,400.0	90.00	89.87	8,123.0	-613.8	8,862.5	8,861.1	0.00	0.00	0.00
17,500.0	90.00	89.87	8,123.0	-613.6	8,962.5	8,961.1	0.00	0.00	0.00
17,600.0	90.00	89.87	8,123.0	-613.4	9,062.5	9,061.1	0.00	0.00	0.00
17,700.0	90.00	89.87	8,123.0	-613.1	9,162.5	9,161.1	0.00	0.00	0.00
17,800.0	90.00	89.87	8,123.0	-612.9	9,262.5	9,261.1	0.00	0.00	0.00
					9,262.5				
17,900.0	90.00	89.87	8,123.0	-612.7	,	9,361.1	0.00	0.00	0.00
18,000.0	90.00	89.87	8,123.0	-612.4	9,462.5	9,461.1	0.00	0.00	0.00
18,100.0	90.00	89.87	8,123.0	-612.2	9,562.5	9,561.1	0.00	0.00	0.00
18,200.0	90.00	89.87	8,123.0	-612.0	9,662.5	9,661.1	0.00	0.00	0.00
18,300.0	90.00	89.87	8,123.0	-611.7	9,762.5	9,761.1	0.00	0.00	0.00
18,400.0	90.00	89.87	8,123.0	-611.5	9,862.5	9,861.1	0.00	0.00	0.00
18,500.0	90.00	89.87	8,123.0	-611.3	9,962.5	9,961.1	0.00	0.00	0.00
18,600.0	90.00	89.87	8,123.0	-611.0	10,062.5	10,061.1	0.00	0.00	0.00
18,700.0	90.00	89.87	8,123.0	-610.8	10,162.5	10,161.1	0.00	0.00	0.00
18,800.0	90.00	89.87	8,123.0	-610.6	10,262.5	10,261.1	0.00	0.00	0.00
18,900.0	90.00	89.87	8,123.0	-610.4	10,362.5	10,361.1	0.00	0.00	0.00
19,000.0	90.00	89.87	8,123.0	-610.1	10,462.5	10,461.1	0.00	0.00	0.00
19,100.0	90.00	89.87	8,123.0	-609.9	10,562.5	10,561.1	0.00	0.00	0.00
19,200.0	90.00	89.87	8,123.0	-609.7	10,662.5	10,661.1	0.00	0.00	0.00
19,300.0	90.00	89.87	8,123.0	-609.4	10,762.5	10,761.1	0.00	0.00	0.00
19,400.0	90.00	89.87	8,123.0	-609.2	10,862.5	10,861.1	0.00	0.00	0.00
19,500.0	90.00	89.87	8,123.0	-609.0	10,962.5	10,961.1	0.00	0.00	0.00
19,600.0	90.00	89.87	8,123.0	-608.7	11,062.5	11,061.1	0.00	0.00	0.00
19,700.0	90,00	89,87	8,123.0	-608.5	11,162,5	11,161.1	0.00	0.00	0.00
19,800.0	90.00	89.87	8,123.0	-608.3	11,262.5	11,261.1	0.00	0.00	0.00
19,900.0	90.00	89.87	8,123.0	-608.0	11,362.5	11,361.1	0.00	0.00	0.00
20,000.0	90.00	89.87	8,123.0	-607.8	11,462.5	11,461.1	0.00	0.00	0.00
20,100.0	90.00	89.87	8,123.0	-607.6	11,562.5	11,561.1	0.00	0.00	0.00
20,200.0	90.00	89.87	8,123.0	-607.3	11,662.5	11,661.1	0.00	0.00	0.00
20,300.0	90.00	89.87	8,123.0	-607.1	11,762.5	11,761.1	0.00	0.00	0.00
20,400.0	90.00	89.87	8,123.0	-606.9	11,862.5	11,861.1	0.00	0.00	0.00
20,500.0	90.00	89.87	8,123.0	-606.6	11,962.5	11,961.1	0.00	0.00	0.00
20,600.0	90.00	89.87	8,123.0	-606.4	12,062.5	12,061.1	0.00	0.00	0.00
20,700.0	90.00	89.87	8,123.0	-606.2	12,162.5	12,161.1	0.00	0.00	0.00
20,800.0	90.00	89.87	8,123.0	-605.9	12,262.5	12,261.1	0.00	0.00	0.00
20,900.0	90.00	89.87	8,123.0	-605.7	12,362.5	12,361.1	0.00	0.00	0.00
21,000.0	90.00	89.87	8,123.0	-605.5	12,462.5	12,461.1	0.00	0.00	0.00
21,100.0	90.00	89.87	8,123.0	-605.2	12,562.5	12,561.1	0.00	0.00	0.00
21,100.0	00.00	00.07	5,120.0	500.E	,002.0	,501.1	0.00	0.00	2.00

XTO Energy Planning Report

Database: LMRKPROD3

Company: Long Lead_Well Planning

Project:

Site:

BEU 28 QR Big Eddy Unit 28 QR 105H

Well: Big Eddy Unit 28 QR 105H Wellbore: OH

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,200.0	90.00	89.87	8,123.0	-605.0	12,662.5	12,661.1	0.00	0.00	0.00
21,300.0	90.00	89.87	8,123.0	-604.8	12,762.5	12,761.1	0.00	0.00	0.00
	90.00	89.87	8,123.0	-604.6	12,762.5	,	0.00	0.00	0.00
21,400.0						12,861.1			
21,500.0	90.00	89.87	8,123.0	-604.3	12,962.5	12,961.1	0.00	0.00	0.00
21,600.0	90.00	89.87	8,123.0	-604.1	13,062.5	13,061.1	0.00	0.00	0.00
21,700.0	90.00	89.87	8,123.0	-603.9	13,162.5	13,161.1	0.00	0.00	0.00
21,800.0	90.00	89.87	8,123.0	-603.6	13,262.5	13,261.1	0.00	0.00	0.00
21,900.0	90.00	89.87	8,123.0	-603.4	13,362.5	13,361.1	0.00	0.00	0.00
22,000.0	90.00	89.87	8,123.0	-603.2	13,462.5	13,461.1	0.00	0.00	0.00
22,100.0	90.00	89.87	8,123.0	-602.9	13,562.5	13,561.1	0.00	0.00	0.00
22,200.0	90.00	89.87	8,123.0	-602.7	13,662.5	13,661.1	0.00	0.00	0.00
22,300.0	90.00	89.87	8,123.0	-602.5	13,762.5	13,761.1	0.00	0.00	0.00
22,400.0	90.00	89.87	8,123.0	-602.2	13,862.5	13,861.1	0.00	0.00	0.00
22,500.0	90.00	89.87	8,123.0	-602.2 -602.0	13,862.5	13,961.1	0.00	0.00	0.00
22,600.0	90.00	89.87	8,123.0	-601.8	14,062.5	14,061.1	0.00	0.00	0.00
22,700.0	90.00	89.87	8,123.0	-601.5	14,162.5	14,161.1	0.00	0.00	0.00
22,800.0	90.00	89.87	8,123.0	-601.3	14,262.5	14,261.1	0.00	0.00	0.00
22,900.0	90.00	89.87	8,123.0	-601.1	14,362.5	14,361.1	0.00	0.00	0.00
23,000.0	90.00	89.87	8,123.0	-600.8	14,462.5	14,461.1	0.00	0.00	0.00
23,100.0	90.00	89.87	8,123.0	-600.6	14,562.5	14,561.1	0.00	0.00	0.00
23,200.0	90.00	89.87	8,123.0	-600.4	14,662.5	14,661.1	0.00	0.00	0.00
23,300.0	90.00	89.87	8,123.0	-600.1	14,762.5	14,761.1	0.00	0.00	0.00
23,400.0	90.00	89.87	8,123.0	-599.9	14,862.5	14,861.1	0.00	0.00	0.00
23,500.0	90.00	89.87	8,123.0	-599.7	14,962.5	14,961.1	0.00	0.00	0.00
23,600.0	90.00	89.87	8,123.0	-599.4	15,062.5	15,061.1	0.00	0.00	0.00
23,700.0	90.00	89.87	8,123.0	-599.2	15,162.5	15,161.1	0.00	0.00	0.00
23,800.0	90.00	89.87	8,123.0	-599.0	15,262.5	15,261.1	0.00	0.00	0.00
23,900.0	90.00	89.87	8,123.0	-598.8	15,262.5	15,361.1	0.00	0.00	0.00
							0.00		
24,000.0	90.00	89.87	8,123.0	-598.5	15,462.5	15,461.1		0.00	0.00
24,100.0	90.00	89.87	8,123.0	-598.3	15,562.5	15,561.1	0.00	0.00	0.00
24,200.0	90.00	89.87	8,123.0	-598.1	15,662.5	15,661.1	0.00	0.00	0.00
24,300.0	90.00	89.87	8,123.0	-597.8	15,762.5	15,761.1	0.00	0.00	0.00
24,400.0	90.00	89.87	8,123.0	-597.6	15,862.5	15,861.1	0.00	0.00	0.00
24,500.0	90.00	89.87	8,123.0	-597.4	15,962.5	15,961.1	0.00	0.00	0.00
24,600.0	90.00	89.87	8,123.0	-597.1	16,062.5	16,061.1	0.00	0.00	0.00
24,698.1	90.00	89.87	8,123.0	-596.9	16,160.6	16,159.2	0.00	0.00	0.00
LTP_105H	22.00	22.27	5,.25.6	223.3	. 5, . 55.0	,	2.30	5.50	3.30
-	00.00	00.07	0.400.6	500.0	40 400 5	40.404.4	0.00	0.00	0.00
24,700.0	90.00	89.87	8,123.0	-596.9	16,162.5	16,161.1	0.00	0.00	0.00
24,748.1	90.00	89.87	8,123.0	-596.8	16,210.6	16,209.2	0.00	0.00	0.00

XTO Energy

Planning Report

Database: LMRKPROD3

Company: Long Lead_Well Planning

Project: BEU 28 QR

Site: Big Eddy Unit 28 QR 105H
Well: Big Eddy Unit 28 QR 105H

Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Big Eddy Unit 28 QR 105H

RKB (+32) @ 3445.0usft RKB (+32) @ 3445.0usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL_105H - plan hits target cer - Point	0.00 nter	0.01	0.0	0.0	0.0	529,108.20	608,417.70	32° 27' 14.905 N	103° 58' 54.661 W
BHL_105H - plan misses target - Point	0.00 center by 0.1u	0.00 usft at 24748.	8,123.0 .1usft MD (8	-596.9 123.0 TVD, -5	16,210.6 96.8 N, 16210	528,511.30 0.6 E)	624,628.30	32° 27' 8.431 N	103° 55' 45.498 W
LTP_105H - plan hits target cer - Point	0.00 nter	0.00	8,123.0	-596.9	16,160.6	528,511.30	624,578.30	32° 27' 8.433 N	103° 55' 46.082 W
FTP_105H - plan hits target cer - Point	0.00 nter	0.00	8,123.0	-634.2	82.5	528,474.00	608,500.20	32° 27' 8.627 N	103° 58' 53.723 W

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	367.0	367.0	RUSLTER			
	577.0	577.0	SALADO			
	2,924.0	2,924.0	SALT BASE			
	3,199.2	3,199.0	DELAWARE			
	4,146.4	4,131.0	CHERRY CANYON			
	5,331.3	5,292.0	BRUSHY CANYON			
	6,692.7	6,626.0	BASAL BRUSHY CANYON			
	6,996.9	6,924.0	BONE SPRING LIME			
	7,130.6	7,055.0	AVALON UPPER			
	7,532.4	7,450.0	AVALON MIDDLE CARB			
	7,624.9	7,541.0	AVALON LOWER			
	7,766.8	7,676.0	1ST BONE SPRING LIME			
	8,157.4	7,980.0	1ST BONE SPRING SAND			
	8,619.8	8,123.0	LANDING POINT			

BASAL BRUSHY CANYON

BRUSHY CANYON

CHERRY CANYON

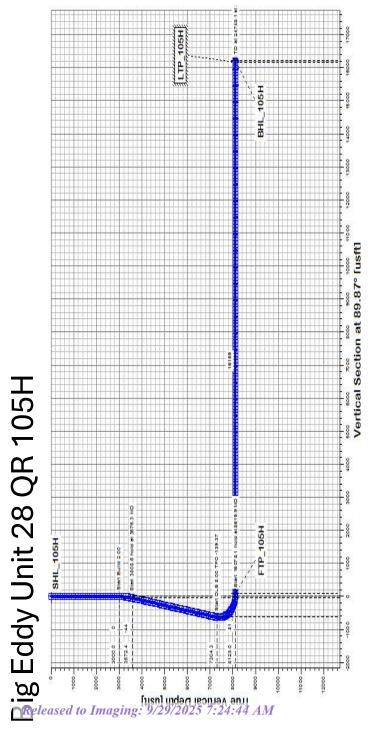
SALT BASE DELAWARE

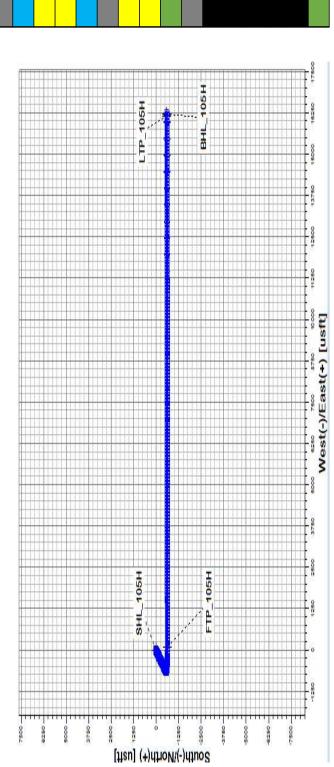
SALADO

Formation

BONE SPRING LIME

LOWER WOLFCAMP IIII LOWER WOLFCAMP III





HARKEY/3RD BONE SPRING SHALE

3RD BONE SPRING LIME

3RD BONE SPRING SAND

WOLFCAMP X & Y

WOLFCAMP A/B/C/D/E

WOLFCAMP F LOWER LOWER WOLFCAMP I LOWER WOLFCAMP II

WOLFCAMP F

2ND BONE SPRING A PRIME SAND 2ND BONE SPRING A&B SAND

2ND BONE SPRING LIME

2ND BONE SPRING SHALE

LANDING POINT

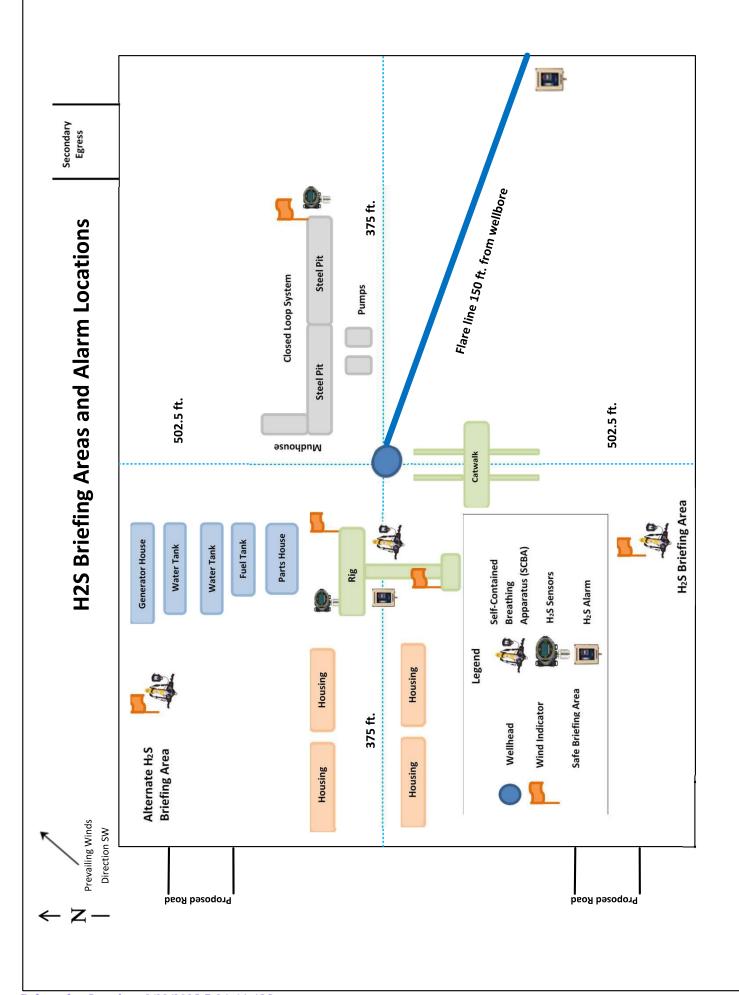
1ST BONE SPRING SAND

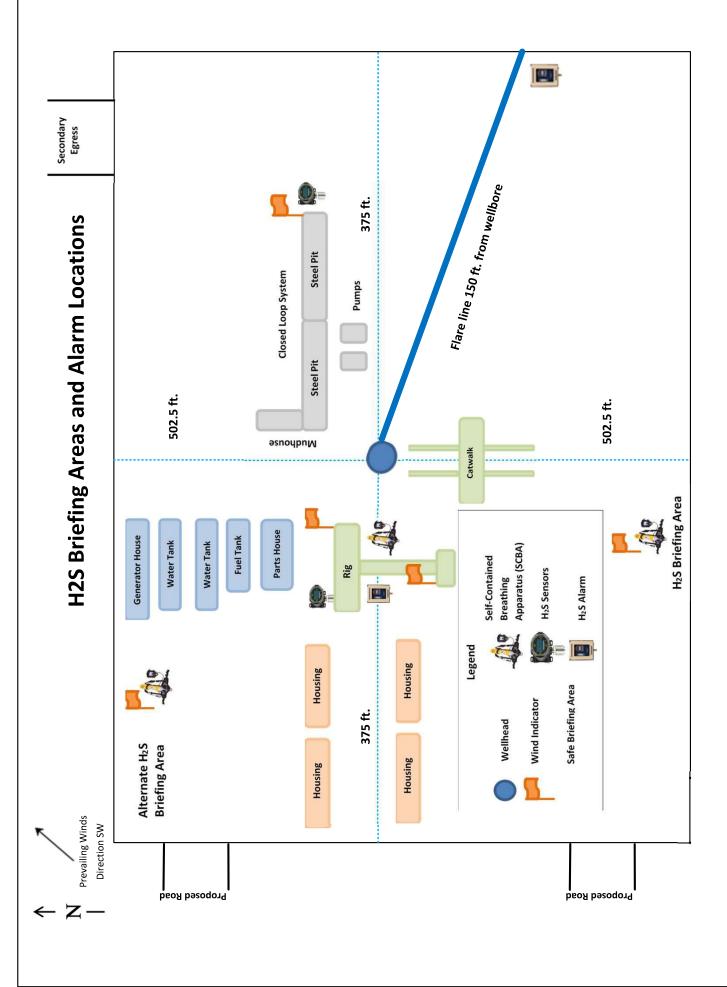
1ST BONE SPRING LIME

AVALON LOWER

AVALON MIDDLE CARB

AVALON UPPER





Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5292') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures. .

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing:

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Permian Operating LLC	OGRID: 373075	Date: 2/10/2025	
II. Type: ⊠ Original □ Amendment due to	□ 19.15.27.9.D(6)(a) NMAC □	19.15.27.9.D(6)(b) NMAC □ Other.	
If Other, please describe:			
III. Well(s): Provide the following information of the proposed to be recompleted from a single version.	•	eted well or set of wells proposed to be drille ral delivery point.	ed o
IV. Central Delivery Point Name:	Batman CTB	[See 19.15.27.9(D)(1) NMAC]	

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3yr Anticipated decline Oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
BIG EDDY UNIT 28 QR 100H	TBD	28 T21S	1175 FNL 660 FEL	1500	150	12000	3000	8000	800
·		R29E							
BIG EDDY UNIT 28 QR 101H	TBD	28 T21S R29E	1175 FNL 535 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 102H	TBD	28 T21S R29E	1235 FNL 535 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 103H	TBD	28 T21S R29E	1205 FNL 410 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 104H	TBD	28 T21S R29E	1265 FNL 411 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 105H	TBD	28 T21S R29E	1235 FNL 410 FEL	2000	150	5000	1500	8000	500
BIG EDDY UNIT 28 QR 106H	TBD	28 T21S R29E	685 FNL 410 FEL	1500	150	12000	3000	8000	800

BIG EDDY UNIT 28 QR 107H	TBD	28 T21S R29E	715 FNL 410 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 28 QR 108H	TBD	28 T21S R29E	745 FNL 410 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 28 QR 109H	TBD	28 T21S R29E	715 FNL 535 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 110H	TBD	28 T21S R29E	775 FNL 535 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 111H	TBD	28 T21S R29E	775 FNL 410 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 112H	TBD	28 T21S R29E	685 FNL 535 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 113H	TBD	28 T21S R29E	745 FNL 535 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 114H	TBD	28 T21S R29E	745 FNL 660 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 115H	TBD	28 T21S R29E	685 FNL 660 FEL	2000	150	5000	1500	8000	500
BIG EDDY UNIT 28 QR 116H	TBD	28 T21S R29E	715 FNL 660 FEL	1200	150	8000	1000	8000	500
BIG EDDY UNIT 28 QR 117H	TBD	28 T21S R29E	775 FNL 660 FEL	2000	150	5000	1500	8000	500
BIG EDDY UNIT 28 QR 300H	TBD	28 T21S R29E	702 FSL 533 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 301H	TBD	28 T21S R29E	642 FSL 533 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 28 QR 302H	TBD	28 T21S R29E	702 FSL 408 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 303H	TBD	28 T21S R29E	672 FSL 408 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 28 QR 304H	TBD	28 T21S R29E	1192 FSL 408 FEL	1500	150	12000	3000	8000	800

BIG EDDY UNIT	TBD	28	1162 FSL	1500	150	12000	3000	8000	800
28 QR 305H		T21S	408 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1132 FSL	1500	150	12000	3000	8000	800
28 QR 306H		T21S	408 FEL	, , , ,					
		R29E							
BIG EDDY UNIT	TBD	28	1162 FSL	2000	250	5000	1000	6000	800
28 QR 307H		T21S	533 FEL						
,		R29E							
BIG EDDY UNIT	TBD	28	1102 FSL	2000	250	5000	1000	6000	800
28 QR 308H		T21S	533 FEL						
,		R29E							
BIG EDDY UNIT	TBD	28	1102 FSL	2000	250	5000	1000	6000	800
28 QR 309H		T21S	408 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1192 FSL	2200	300	3000	1000	6000	500
28 QR 310H		T21S	533 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1132 FSL	2200	300	3000	1000	6000	500
28 QR 311H		T21S	533 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1132 FSL	2200	300	3000	1000	6000	500
28 QR 312H		T21S	658 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1192 FSL	1200	150	8000	1000	8000	500
28 QR 313H		T21S	658 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1162 FSL	2000	150	5000	1500	8000	500
28 QR 314H		T21S	658 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1102 FSL	1200	150	8000	1000	8000	500
28 QR 315H		T21S	658 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1205 FNL	1500	150	12000	3000	8000	800
28 QR 500		T21S	660 FEL						
		R29E							
BIG EDDY UNIT	TBD	28	1205 FNL	2000	250	5000	1000	6000	800
28 QR 501		T21S	535 FEL						
		R29E				1			
BIG EDDY UNIT	TBD	28	672 FSL	2200	300	3000	1000	6000	500
28 QR 502		T21S	533 FEL						
		R29E					1		
BIG EDDY UNIT	TBD	33	1183 FNL	2000	250	5000	1000	6000	800
33 QR 100H		T21S	739 FEL						
		R29E					1		
BIG EDDY UNIT	TBD	33	1212 FNL	2000	250	5000	1000	6000	800
33 QR 101H		T21S	743 FEL						
		R29E							

BIG EDDY UNIT 33 QR 102H	TBD	33 T21S R29E	1201 FNL 615 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 103H	TBD	33 T21S R29E	717 FNL 542 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 104H	TBD	33 T21S R29E	776 FNL 551 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 105H	TBD	33 T21S R29E	747 FNL 546 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 106H	TBD	33 T21S R29E	806 FNL 555 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 107H	TBD	33 T21S R29E	698 FNL 665 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 108H	TBD	33 T21S R29E	758 FNL 674 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 109H	TBD	33 T21S R29E	728 FNL 670 FEL	2000	150	5000	1500	8000	500
BIG EDDY UNIT 33 QR 110H	TBD	33 T21S R29E	787 FNL 679 FEL	1200	150	8000	1000	8000	500
BIG EDDY UNIT 33 QR 200H	TBD	33 T21S R29E	2311 FSL 506 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 201H	TBD	33 T21S R29E	2281 FSL 506 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 202H	TBD	33 T21S R29E	2312 FSL 381 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 203H	TBD	33 T21S R29E	2282 FSL 381 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 204H	TBD	33 T21S R29E	2329 FNL 381 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 205H	TBD	33 T21S R29E	2359 FNL 381 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 206H	TBD	33 T21S R29E	2329 FNL 506 FEL	2000	250	5000	1000	6000	800

BIG EDDY UNIT 33 QR 207H	TBD	33 T21S R29E	2359 FNL 506 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 208H	TBD	33 T21S R29E	2329 FNL 631 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 209H	TBD	33 T21S R29E	2389 FNL 631 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 210H	TBD	33 T21S R29E	2359 FNL 631 FEL	2000	150	5000	1500	8000	500
BIG EDDY UNIT 33 QR 211H	TBD	33 T21S R29E	2419 FNL 631 FEL	1200	150	8000	1000	8000	500
BIG EDDY UNIT 33 QR 300H	TBD	33 T21S R29E	737 FSL 642 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 301H	TBD	33 T21S R29E	828 FSL 517 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 302H	TBD	33 T21S R29E	798 FSL 517 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 303H	TBD	33 T21S R29E	830 FSL 392 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 304H	TBD	33 T21S R29E	770 FSL 392 FEL	2200	300	3000	1000	6000	500
BIG EDDY UNIT 33 QR 305H	TBD	33 T21S R29E	800 FSL 392 FEL	1200	150	8000	1000	8000	500
BIG EDDY UNIT 33 QR 306H	TBD	33 T21S R29E	1320 FSL 392 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 307H	TBD	33 T21S R29E	1290 FSL 392 FEL	1500	150	12000	3000	8000	800
BIG EDDY UNIT 33 QR 308H	TBD	33 T21S R29E	1318 FSL 517 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 309H	TBD	33 T21S R29E	1288 FSL 517 FEL	2000	250	5000	1000	6000	800
BIG EDDY UNIT 33 QR 310H	TBD	33 T21S R29E	1317 FSL 642 FEL	2200	300	3000	1000	6000	500

BIG EDDY UNIT	TBD	33	1257 FSL	2200	300	3000	1000	6000	500
33 QR 311H		T21S	642 FEL						
		R29E							
BIG EDDY UNIT	TBD	33	1287 FSL	2000	150	5000	1500	8000	500
33 QR 312H		T21S	642 FEL						
		R29E							
BIG EDDY UNIT	TBD	33	1227 FSL	1200	150	8000	1000	8000	500
33 QR 313H		T21S	642 FEL						
		R29E							

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
BIG EDDY UNIT 28 QR 100H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28	TBD	TBD	TBD	TBD	TBD	TBD
QR 101H	טטו	100	100	100	100	100
BIG EDDY UNIT 28	TBD	TBD	TBD	TBD	TBD	TBD
QR 102H						
BIG EDDY UNIT 28 QR 103H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 104H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 105H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 106H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 107H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 108H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 109H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 110H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 111H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 112H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 113H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 114H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 115H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 116H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 117H	TBD	TBD	TBD	TBD	TBD	TBD

BIG EDDY UNIT 28 QR 300H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 301H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 302H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 303H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 304H	TBD	TBD	TBD	TBD	TBD	TBD
BIG EDDY UNIT 28 QR 305H	TBD	TBD	TBD	TBD	TBD	TBD
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VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VIII. Best Management Practices:

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

Venting and Flaring Plan.

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

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

Section 4 - Notices

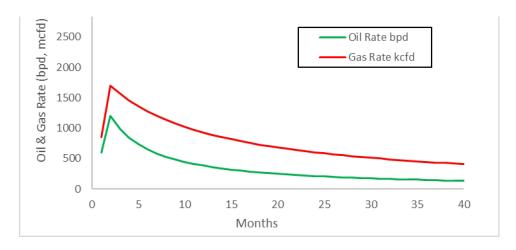
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- **(b)** Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

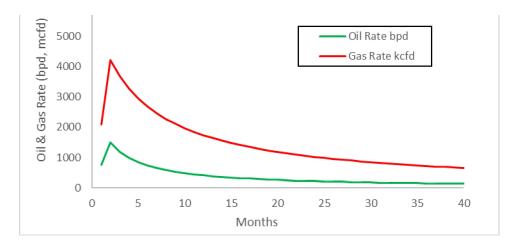
Signature: L'Srinivas Naveen
Printed Name: Srinivas Naveen Laghuvarapu
Title: Regulatory Analyst
E-mail Address: srinivas.n.laghuvarapu@exxonmobil.com
Date: 2/10/2025
Phone: 346-224-6122
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Approved by.
Title:
Title:
Title: Approval Date:
Title: Approval Date:
Title: Approval Date:

Big Eddy Unit – Decline Curves:

Bone Spring:



Wolfcamp:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

• Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

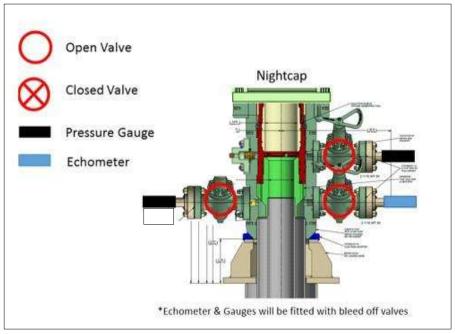
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

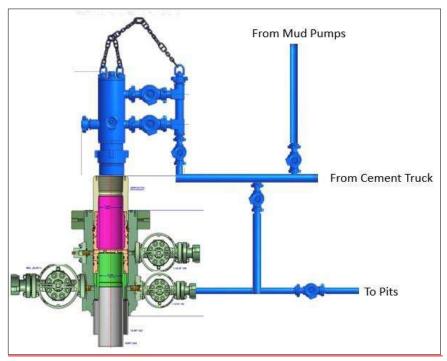
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.



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WEB: www.gates.com/oilandgas

NEW CHOKE HOSE

INSTAUED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	OMER:	
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NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

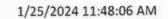
74621 H3-012524-1

SIGNATURE: 7. OJSNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15/16





TEST REPORT

CUSTOMER

Company:

Nabors Industries Inc.

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description:

529480

74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference: FG1213

Hose ID:

3" 16C CK

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

psi

Fitting 1:

Test pressure: Test pressure hold: 15000.00 3600.00

sec

Part number: Description:

3.0 x 4-1/16 10K

Work pressure:

10000.00

psi

Work pressure hold: Length difference:

Length difference:

900.00

sec % inch Fitting 2: Part number:

Description:

3.0 x 4-1/16 10K

Visual check:

Pressure test result:

PASS

0.00

0.00

Length measurement result:

Length:

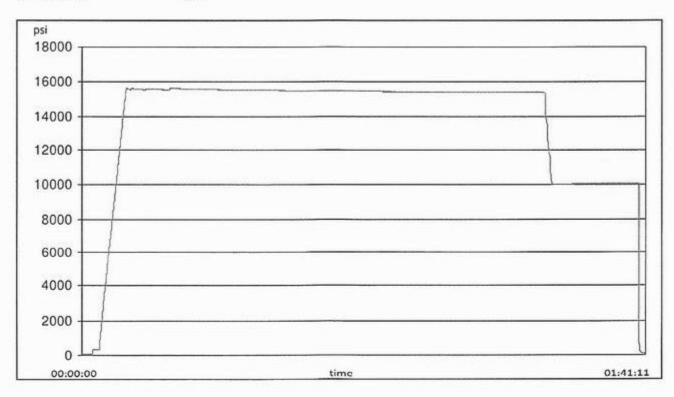
45

feet

n /n

Test operator:

Travis





H3-15/16

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TEST REPORT

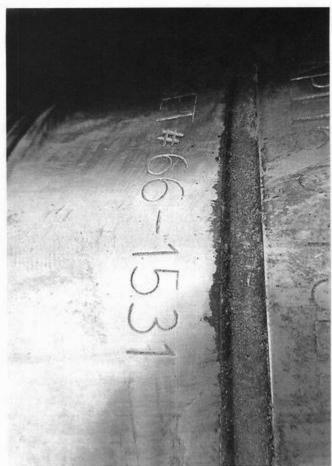
GAUGE TRACEABILITY

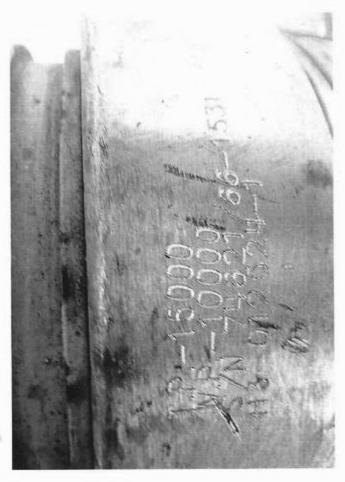
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25-A-W	110IQWDG	2023-05-16	2024-05-16
omment			

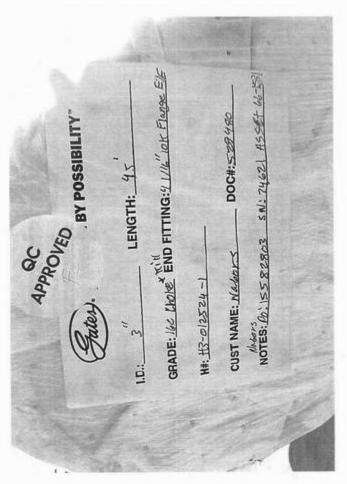


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XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the
 pressure rating that was permitted will be nippled up and tested on the wellhead before
 drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

<u>Subject:</u> Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, 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." See Table C.4 below for reference.

API STANDARD	53	
ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
Proceure Test Low	Pressure Test—High Pressure	
Pressureac psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ПР
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
250 to 350 (1.72 to 2.41)	MASP for the well program	
essure tested on the largest and sm from one wellhead to another within when the integrity of a pressure se the ram BOPs shall be pressure test land operations, the ram BOPs shall	oressure shall not decrease below the allest OD drill pipe to be used in well in the 21 days, pressure testing is req at is broken.	program. uired for pressure-containing and the closing and locking pressure
	Pressure Test—Low Pressure ³⁰ psig (MPa) 250 to 350 (1.72 to 2.41) all be a minimum of five minutes. during the evaluation period. The psure tested on the largest and sm from one wellhead to another with when the integrity of a pressure see a ram BOPs shall be pressure tested to the largest and sm from one wellhead to another with the statement of the pressure see the ram BOPs shall be pressure tested to the pressure see the ram BOPs shall be pressure tested to the pressure	Pressure 1est—Low Pressures psig (MPa) Change Out of Component, Elastomer, or Ring Gasket RWP of annular preventer RWP of annular preventer or wellhead system, whichever is lower RWP of side outlet valve or wellhead system, whichever is lower RWP of ram preventer or wellhead system, whichever is lower RWP of ram preventer or wellhead system, whichever is lower RWP of ram preventers or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of ram preventers or wellhead system, whichever is lower RWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventers or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer or wellhead system, whichever is lower AWP of ram preventer AWP of ram preventer AWP of

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

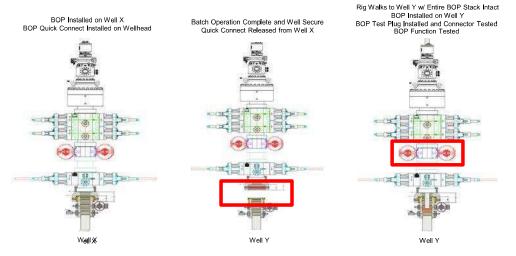
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



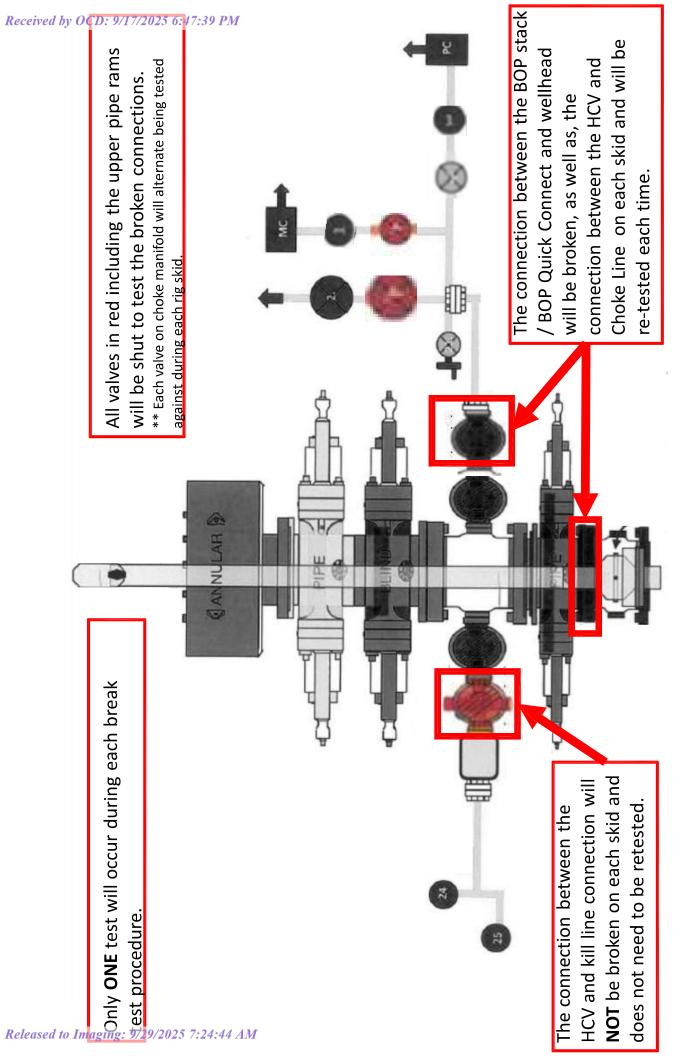
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BEU 28 QR 105H Existing Roads Map 20240710091816.pdf

Existing Road Purpose: ACCESS Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

618.013004.26_XTO_BEU_BATMAN_28_ACCESS_ROAD_FINAL_06_12_2024__1_20240709133726.pdf

New road type: RESOURCE

Length: 6024.66 Feet **Width (ft.)**: 30

Max slope (%): 2 Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

New road access plan or profile prepared? N

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: STRIPPED

Access other construction information: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity.

Access miscellaneous information: The Big Eddy Unit 28 QR is FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES. TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH. Transportation Plan identifying existing roads that will be used to access the project area is included from Manhard Surveying marked as, Vicinity Map. There are proposed access roads to the proposed Big Eddy Unit 28 QR well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Manhard Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: LOW WATER

Drainage Control comments: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) description: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

BEU 28 QR 1Mile 20240709134657.pdf

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Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Ancillary Facilities. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to campsites, airstrips or staging areas. B. Production Facilities. One 650 x 655 pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The proposed central tank battery totaling 9.774 acres and being situated in Section 28, Township 21 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. C. Surface Flowlines. In the event the wells are found productive, 4" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750 psi (operating pressure: 125 psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the Big Eddy Unit 28 QR CTB where the oil, gas, and water will be metered and appropriately separated. The distance of proposed lines will be approximately 7742' or less based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached. D. Buried Lines. Additional composite flexpipe or steel flowlines of size 22" or less with a maximum safety pressure rating of 1400 psi (operating pressure: 750 psi or less) will be buried within the lease road corridor for gas li, fuel gas, and water. The distance of proposed flowlines will be approximately 7742' or less per well based on the location of the well pad in conjunction with the facility location. All lines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached. Routing is the same as the surface flowlines. E. Gas Pipeline. 10 110 corridors are requested to connect with the Big Eddy Unit 28 QR pipeline. XTO Permian Operating LLC. will be installing the line with anticipated risers located on the CTB. F. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with 43 CFR 3177. G. Flare. There will 2 flares associated with this project. Both will be sized and rated appropriately based on anticipated reserves and recovering of gas throughout the development area with 150 of distance between all facility equipment, road and well pad locations for safety purposes. H. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. I. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. J. Electrical. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All electrical lines will be primary 115 KV to properly run expected production equipment. Approximately 6253' of electrical will be run from the anticipated tie-in point from an existing well pad going crosscountry then joining with proposed road corridors with a request for 30 ROW construction and maintenance buffer; 15 on either side of the electrical centerline. This distance is a maximum approximation and may vary based on the lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

618.013004.26_XTO_BEU_BATMAN_28_BURIED_AND_SURFACE_FLOWLINE_FINAL_06_12_2024__1__202407091348 30.pdf

618.013004.26 XTO BEU BATMAN 28 OVERHEAD ELECTRIC LINE FINAL 06 12 2024 1 20240709134831.pdf

618.013004.30_XTO_BEU_BATMAN_33_BEU_BATMAN_28_MIDSTREAM_TIE_IN_FINAL_06_12_2024__1__2024070913 4832.pdf

XTO_BATMAN_CVB_PLOT_0001_20240716032639.pdf

XTO BEU BATMAN 28 CTB FINAL 20250220132802.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Water source type: OTHER

Describe type: FreshWater; Section 27, T25S-R30E, Eddy County,

New Mexico

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 500000 Source volume (acre-feet): 64.44654817

Source volume (gal): 21000000

Water source type: OTHER

Describe type: Fresh Water; Section 6, T25S-R29E, Eddy County,

New Mexico.

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

City:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Released to Imaging: 9/29/2025 7:24:44 AM

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Water source volume (barrels): 500000 Source volume (acre-feet): 64.44654817

Water source and transportation

BEU_28_QR_105H_Vicinity_Map_20240710091847.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO Permian Operating, LLC. at time of drilling and completion, then XTO Permian Operating, LLC. water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 500,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

New water well? N

New Water Well Info

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Pit 1: Private Caliche Pit, Section 36-T21S-R28E; SESW

Construction Materials source location

Section 7 - Methods for Handling

Waste type: SEWAGE

Waste content description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Amount of waste: 250 gallons

Waste disposal frequency: Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor to haul and dispose of human waste.

Waste type: DRILLING

Waste content description: FLUID

Amount of waste: 500 barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel mud boxes

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: DRILLING

Waste content description: CUTTINGS

Amount of waste: 2100 pounds

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Waste disposal frequency: One Time Only

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: GARBAGE

Waste content description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

BEU_28_QR_105H_Well_Site_Plat_20240710091913.pdf

BEU_28_QR_105H_RL_20250220133524.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: BIG EDDY UNIT 28 QR

Multiple Well Pad Number: A

Recontouring

XTO_BEU_BATMAN_28_PAD_A_INTERIM_REC_PAD_LAYOUT_FINAL_20250220133113.pdf XTO_BEU_BATMAN_28_PAD_C_INTERIM_REC_PAD_LAYOUT_FINAL_20250220133115.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

10.63

34.45

Well pad proposed disturbance

(acres): 38.75

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 4.3

Pipeline proposed disturbance

(acres): 10.63

Other proposed disturbance (acres):

Total proposed disturbance: 102.024

Well pad interim reclamation (acres): Well pad long term disturbance 12.752

(acres): 25.998

Road long term disturbance (acres):

4.12

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres):

Total long term disturbance: 39.892

Total interim reclamation: 62.132000000000005

Road interim reclamation (acres): 0

Pipeline interim reclamation (acres):

Other interim reclamation (acres):

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at the well pad: Soils are classified as Simona Bippus. Simona soils are associated with the Shallow sandy which typically supports black grama grasslands with an even distribution of yucca, javelina bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, yucca, grasses, and cat claw.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Soils are classified as Simona Bippus. Simona soils are associated with the Shallow sandy which typically supports black grama grasslands with an even distribution of yucca, javelina bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, yucca, grasses, and cat claw.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Soils are classified as Simona Bippus. Simona soils are associated with the Shallow sandy which typically supports black grama grasslands with an even distribution of yucca, javelina bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, yucca, grasses, and cat claw.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Soils are classified as Simona Bippus. Simona soils are associated with the Shallow sandy which typically supports black grama grasslands with an even distribution of yucca, javelina bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, yucca, grasses, and cat claw.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Seed Type Pounds/Acre

Total pounds/Acre:

Seed reclamation

Operator Contact/Responsible Official

First Name: Robert Last Name: Bartels

Phone: (406)478-3617 Email: robert.e.bartels@exxonmobil.com

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.

Weed treatment plan

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.

Menitoring plang: 9/29/2025 7:24:44 AM

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Success standards: 100% compliance with applicable regulations.

each wall will be drilled utilizing a closed loo

closed loop system will meet the NMOCD require Pit closure attachment:	e pit as each well will be drilled utilizing a closed loop mud system. The ments 19.15.17.
Section 11 - Surface	
Disturbance type: NEW ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEM	ENT
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEM	ENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

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State Local Office:

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Operator Name: XTO PERMIAN OPERATING LLC		
Well Name: BIG EDDY UNIT 28 QR	Well Number: 105H	
Military Local Office:		
JSFWS Local Office:		
Other Local Office:		
JSFS Region:		
JSFS Forest/Grassland:	USFS Ranger District:	
Disturbance type: WELL PAD		
Describe:		
Gurface Owner: BUREAU OF LAND MANAGEMENT		
Other surface owner description:		
BIA Local Office:		
BOR Local Office:		
COE Local Office:		
OOD Local Office:		
NPS Local Office:		
State Local Office:		
Military Local Office:		

USFS Ranger District:

Disturbance type: PIPELINE

USFWS Local Office:

USFS Forest/Grassland:

Other Local Office:

USFS Region:

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

Released to Imaging: 9/29/2025 7:24:44 AM COE Local Office:

Operator Name: XTO PERMIAN OPERATING LLC	
Well Name: BIG EDDY UNIT 28 QR	Well Number: 105H
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	HOES Barrer Bistrict
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: OTHER	
Describe: FLOWLINE	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Received by OCD: 9/17/2025 6:47:39 PM
Operator Name: XTO PERMIAN OPERATING LLC Well Name: BIG EDDY UNIT 28 QR
Disturbance type: TRANSMISSION LINE
Describe:
Surface Owner: BUREAU OF LAND MANAGEMENT
Other surface owner description:
BIA Local Office:
BOR Local Office:
COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:
Military Local Office:
USFWS Local Office:
Other Local Office:
USFS Region:
USFS Forest/Grassland:

Disturbance type: OTHER

Describe: CENTRAL TANK BATTERY

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: Released to Imaging: 9/29/2025 7:24:44 AM

USFS Ranger District:

Well Number: 105H

USFS Ranger District:

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites,289001 ROW- O&G Well Pad,FLPMA (Powerline)

ROW

SUPO Additional Information: SUPO written for all wells in section/project area.

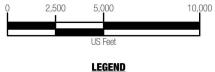
Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 1/25/2024

Other SUPO

BEU_28_QR_SUPO_Updated_20250221184955.pdf

FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES. TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH.



- BIG EDDY UNIT 28 QR 105H WELL LOCATION
- PROPOSED WELL PAD
 - **DRIVING ROUTE**
 - PROPOSED ACCESS ROAD = 5688'



505 Pecan Street, Suite 201, Fort Worth, TX 76102 Ph: 972.972.4250 manhard.com Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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A TOPOGRAPHICAL AND ACCESS ROAD MAP FOR XTO PERMIAN OPERATING, LLC. **BIG EDDY UNIT 28 QR 105H**

LOCATED 1235 FEET FROM THE NORTH LINE AND 410 FEET FROM THE EAST LINE OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE: 6/5/2024	SCALE: 1":5,000'	PROJECT NUMBER: 618.013004.26-06
DRAWN BY: RE	FIELD CREW: RD	REVISION NUMBER:	SHEET: 3 OF 3

SECTION 33

OWNER: B.L.M.

eleaseditoimagingii 9/23/2025 zzi24:44 AM SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

1. BEARINGS AND COORDINATES SHOWN HEREON ARE

GENERAL NOTES

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	0 40 W+70 -100 90 \00 100	1
	0 40 W+70 -100 90 \00 100	1
	0 40 W+70 -100 90 \00 100	1

LINE TABLE "A"		
LINE	BEARING	LENGTH
L1	N0012'24"W	1517.42'
L2	N72°21'41"E	733.75
L3	N00°15'18"W	1153.35'
L4	N46°31'52"W	968.95
L5	N00°11'10"W	1165.00'
L6	N89°48'50"E	75.00'

LINE TABLE "B"		
LINE	BEARING	LENGTH
L7	N89*35'21"E	75.04

LINE TABLE "C"		
LINE	BEARING	LENGTH
L8	N89*37'43"E	75.00'

LINE TABLE "D"		
LINE	BEARING	LENGTH
L9	N89*29'08"E	75.00'

LINE TABLE "E"			
LINE BEARING		LENGTH	
L10	N0010'23"W	186.15'	

TOTAL LENGTH = 6,024.66 FEET OR 365.13 RODS

BEU BATMAN 28 PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,024.66 FEET, 365.13 RODS, OR 1.14 MILES IN LENGTH CROSSING SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 4.12 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SE/4 SE/4 OF SECTION 28=1,361.24 FEET = 82.50 RODS = 0.92 OF AN ACRE SW/4 SE/4 OF SECTION 28=186.15 FEET = 11.28 RODS = 0.13 OF AN ACRE NE/4 SE/4 OF SECTION 28=1,912.39 FEET = 115.90 RODS = 1.31 ACRES SE/4 NE/4 OF SECTION 28=1,695.12 FEET = 102.74 RODS = 1.16 ACRES NE/4 NE/4 OF SECTION 28=869.76 FEET = 52.71 RODS = 0.60 OF AN ACRE

GENERAL NOTES

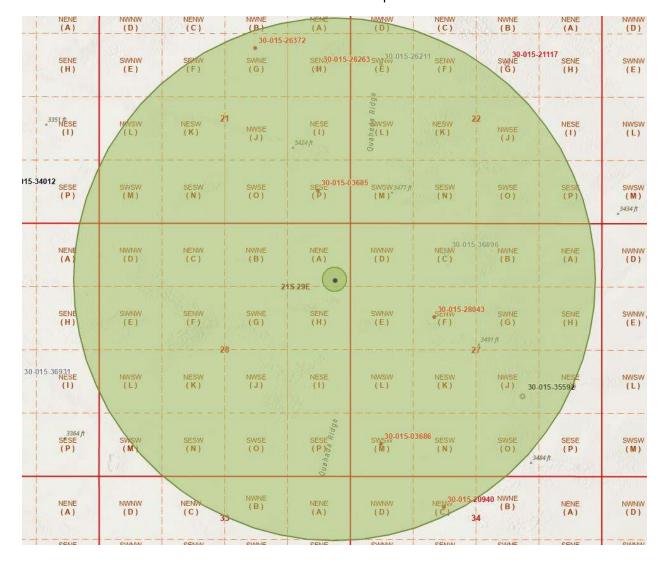
- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- 3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.



ELMARE LICOLINAS INSTANCE OF THE SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

Big Eddy Unit 28 QR

1-Mile Radius Map



eleareditoJuagingw %22/2025=2524iA4 AM SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

1. BEARINGS AND COORDINATES SHOWN HEREON ARE

	LINE TABLE "A		
LINE	BEARING	LENGTH	
L1	S89°48'50"W	30.00'	
L2	S00"11'10"E	708.95	
L3	S46*33'41"E	968.43	
L4	S0015'18"E	1205.65	
L5	S72°21'41"W	733.78'	
L6	S0012'24"E	1552.71'	
L7	S89*37'19"W	1599.18'	
L8	N00°10'51"W	913.00'	

	LINE TABLE "B"		
LINE	BEARING	LENGTH	
L9	S89°47'36"W	30.22'	

TOTAL LENGTH = 7,741.92 FEET OR 469.21 RODS

BEU BATMAN 28 PROPOSED 60' BURIED AND SURFACE FLOWLINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 60.0 FEET WIDE AND 7,741.92 FEET, 469.21 RODS, OR 1.47 MILES IN LENGTH CROSSING SECTIONS 28 AND 33, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 30.0 FEET RIGHT AND 30.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 10.63 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

NE/4 NE/4 OF SECTION 28 = 387.26 FEET = 23.47 RODS = 0.53 OF AN ACRE SE/4 NE/4 OF SECTION 28 = 1,620.32 FEET = 98.20 RODS = 2.23 OF AN ACRE NE/4 SE/4 OF SECTION 28 = 1,837.43 FEET = 111.36 RODS = 2.53 ACRES SE/4 SE/4 OF SECTION 28 = 1,353.70 FEET = 82.04 RODS = 1.83 ACRES SW/4 SE/4 OF SECTION 28 = 875.41 FEET = 53.06 RODS = 1.21 ACRES NE/4 NE/4 OF SECTION 33 = 363.41 FEET = 22.03 RODS = 0.50 OF AN ACRE NW/4 NE/4 OF SECTION 33 = 1,304.39 FEET = 79.05 RODS = 1.80 ACRES

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- 3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.



eleased LO Juaging W 9/22/2025 ESSA A4 AM SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

	LINE TABLE "A"		
LINE	BEARING	LENGTH	
L1	S89°29'08"W	105.00'	
L2	S00"11'10"E	331.71	
L3	S46*30'39"E	969.30'	
L4	S0015'18"E	1118.49'	
L5	S72°21'41"W	733.73	
L6	S00°12'24"E	1070.41	
L7	S20*29'09"W	311.30'	
L8	S00°12'24"E	201.70	
L9	S89°37'19"W	1089.15	
L10	N00°10'23"W	216.93'	

LINE TABLE "B"			
LINE BEARING		LENGTH	
L11 N89*35'21"E 10		105.11	

TOTAL LENGTH = 6,252.83 FEET OR 378.96 RODS

BEU BATMAN 28 PROPOSED OVERHEAD ELECTRIC LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,252.83 FEET, 378.96 RODS, OR 1.18 MILES IN LENGTH CROSSING SECTIONS 28 AND 33, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 4.30 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

SE/4 NE/4 OF SECTION 28 = 1,674.09 FEET = 101.46 RODS = 1.15 OF AN ACRE NE/4 SE/4 OF SECTION 28 = 1,837.36 FEET = 111.35 RODS = 1,27 ACRES SE/4 SE/4 OF SECTION 28 = 1,582.66 FEET = 95.92 RODS = 1.07 ACRES SW/4 SE/4 OF SECTION 28 = 1,158.72 FEET = 70.23 RODS = 0.70 OF AN ACRE NE/4 NE/4 OF SECTION 33 = (EASEMENT ONLY) 0.01 OF AN ACRE NW/4 NE/4 OF SECTION 33 = (EASEMENT ONLY) 0.10 OF AN ACRE

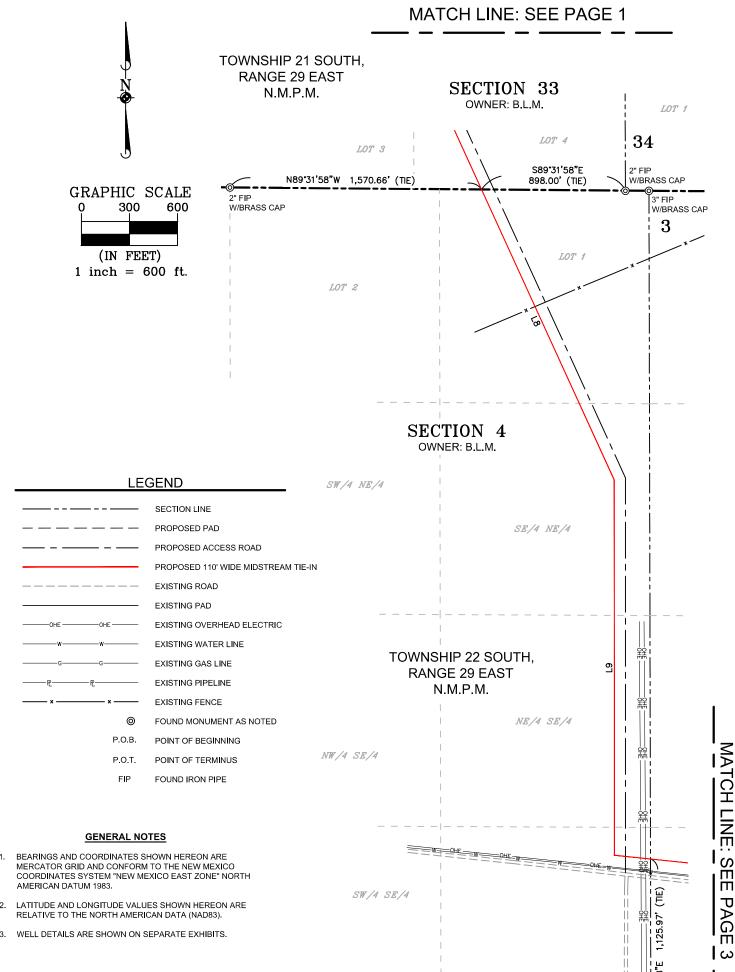
GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- 3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.



ELEASE OLIVERS IN SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

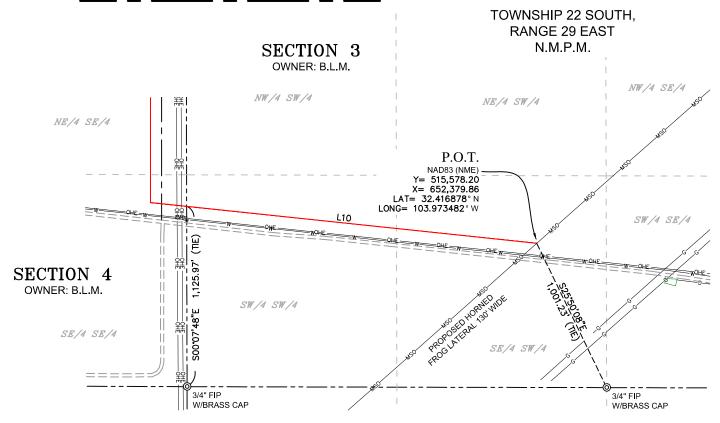
GLEASE LO I MARRING ME 2202425 - 35 24 4 4 AM SURVEYOR NO. 23786, DO HERBY CERTIFY THE THIS



SE/4 SE/4

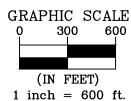
LMARK DLLON HARF, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

MATCH LINE: SEE PAGE 2



SECTION 9 OWNER: B.L.M. SECTION 10
OWNER: B.L.M.





GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- 3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.

LEGEND SECTION LINE PROPOSED PAD PROPOSED ACCESS ROAD PROPOSED 110' WIDE MIDSTREAM TIE-IN EXISTING ROAD EXISTING PAD EXISTING OVERHEAD ELECTRIC EXISTING WATER LINE EXISTING GAS LINE EXISTING PIPELINE EXISTING FENCE 0 FOUND MONUMENT AS NOTED P.O.B. POINT OF BEGINNING P.O.T. POINT OF TERMINUS

FOUND IRON PIPE

FIP



LMARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS

LINE TABLE				
	LINE TABLE			
LINE	BEARING	LENGTH		
L1	S00°10'46"E	730.94		
L2	L2 N89°51'35"E 744			
L3	S00°12'24"E	224.52		
L4	S13°46'19"E	213.07		
L5	S08°29'23"W	1354.64		
L6	S44°59'21"E	240.01		
L7	S00°09'49"E	2910.53		
L8	S24°31'07"E	2456.38'		
L9	S00°00'10"E	2340.85		
L10	S83*58'26"E	2425.29'		

TOTAL LENGTH = 13,640.25 FEET OR 826.68 RODS

BEU BATMAN 33/BEU BATMAN 28 PROPOSED 110' MIDSTREAM TIE-IN DESCRIPTION:

SURVEY OF A STRIP OF LAND 110.0 FEET WIDE AND 13,640.25 FEET, 826.68 RODS, OR 2.58 MILES IN LENGTH CROSSING SECTIONS 28 AND 33, TOWNSHIP 21 SOUTH, RANGE 29 EAST, AND SECTIONS 3 AND 4, TOWNSHIP 22 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 55.0 FEET RIGHT AND 55.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE SURVEY, COMPRISING OF 34.45 ACRES AND DIVIDED IN EACH QUARTER QUARTER AS FOLLOWS:

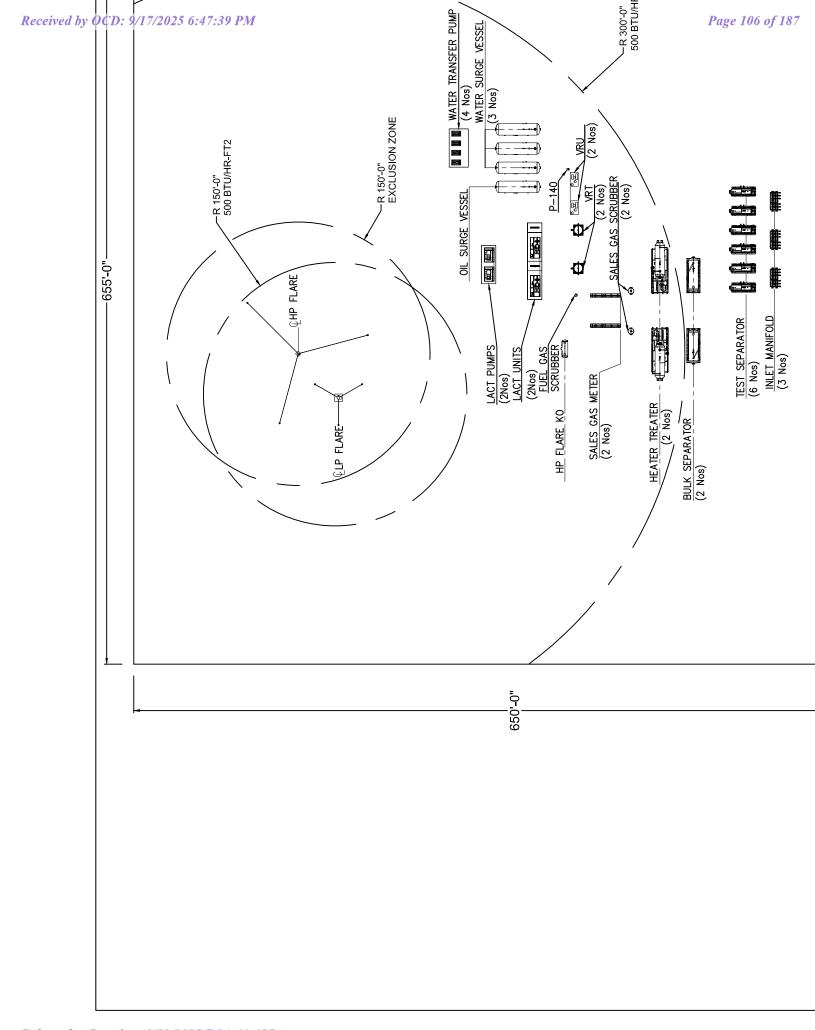
SW/4 SE/4 OF SECTION 28 = 1,257.65 FEET = 76.22 RODS = 3.18 ACRES SE/4 SE/4 OF SECTION 28 = 362.22 FEET = 21.95 RODS = 0.92 OF AN ACRE NE/4 NE/4 OF SECTION 33 = 1,337.96 FEET = 81.09 RODS = 3.38 ACRES SE/4 NE/4 OF SECTION 33 = 1,393.47 FEET = 84.45 RODS = 3.52 ACRES NE/4 SE/4 OF SECTION 33 = 1,319.44 FEET = 79.96 RODS = 3.33 ACRES LOT 4 OF SECTION 33 = 1,207.00 FEET = 73.15 RODS = 3.05 ACRES LOT 1 OF SECTION 4 = 1,468.09 FEET = 88.98 RODS = 3.71 ACRES SE/4 NE/4 OF SECTION 4 = 1,323.08 FEET = 80.19 RODS = 3.44 ACRES NE/4 SE/4 OF SECTION 4 = 1,323.08 FEET = 80.19 RODS = 3.34 ACRES SE/4 SE/4 OF SECTION 4 = 401.47 FEET = 24.33 RODS = 1.01 ACRES SE/4 SW/4 SW/4 OF SECTION 3 = 1,317.33 FEET = 79.84 RODS = 3.33 ACRES SE/4 SW/4 OF SECTION 3 = 880.62 FEET = 53.37 RODS = 2.22 ACRES

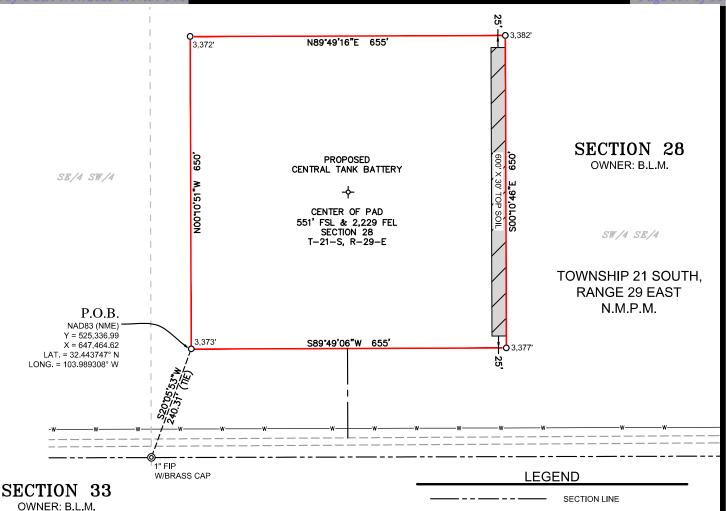
GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).
- 3. WELL DETAILS ARE SHOWN ON SEPARATE EXHIBITS.



CLARK DILLON HARP, NEW MEXICO RESESSIONAL M SURVEYOR NO. 23-86, SO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE





GENERAL NOTES

ACREAGE INFORMATION

= 9.361 ACRES

= 0.413 ACRES

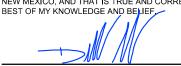
TOTAL = 9.774 ACRES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83)..

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE

PROPOSED PAD

TOP SOIL



MARK DILLON HARP NEW MEXICO PROFESSIONAL LAND SURVEYOR NO. 23786



BEU BATMAN 28 PROPOSED CENTRAL TANK BATTERY DESCRIPTION:

P.O.B.

0

PROPOSED PAD

EXISTING ROAD

PROPOSED ACCESS ROAD

EXISTING WATER LINE

POINT OF BEGINNING

FOUND MONUMENT AS NOTED

Description of a proposed central tank battery totaling 9.774 acres and being situated in Section 28, Township 21 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southwest corner of the proposed central tank battery (Y = 525,336.99, X = 647,464.62) from which a found 1" iron pipe with a brass cap, being the south quarter-corner of said Section 28 bears S 20°05'53" W 240.31 feet;

THENCE over and across said Section 28, the following courses and distances:

N 00°10'51" W. a distance of 650.00 feet to a point:

N 89°49'16" E, a distance of 655.00 feet to a point;

S 00°10'46" E, a distance of 650.00 feet to a point;

S $89^{\circ}49'06''$ W, a distance of 655.00 feet to the **POINT OF BEGINNING** containing a total of 9.774 acres, more or less.

Said pad is divided in each quarter-quarter section as follows

SW/ SE/4 SECTION 28 = 9.774 ACRES

A PROPOSED PAD FOR:

XTO PERMIAN OPERATING, LLC. BEU BATMAN 28 CENTRAL TANK BATTERY

SITUATED IN THE SE/4 OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE: 6/21/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013004.26
DRAWN BY:	FIELD CREW:	REVISION NO.: NO	SHEET: 1 OF 1



505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-21732 (Eng)

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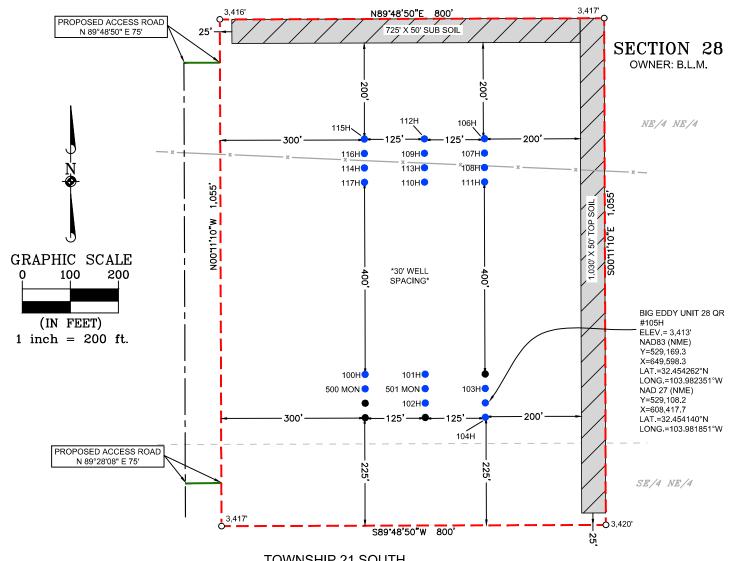
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Released to Imaging: 9/29/2025 7:24:44 AM

A VICINITY MAP FOR XTO PERMIAN OPERATING, LLC. BIG EDDY UNIT 28 QR 105H

LOCATED 1235 FEET FROM THE NORTH LINE AND 410 FEET FROM THE EAST LINE OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY:	DATE: 6/5/2024	SCALE: 1":10,000'	PROJECT NUMBER: 618.013004.26-06
DRAWN BY:	FIELD CREW: RD	REVISION NUMBER:	SHEET: 2 OF 3



GENERAL NOTES
BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR

GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM

TOWNSHIP 21 SOUTH, RANGE 29 EAST N.M.P.M.

DRIVING DIRECTION TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES. TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH.

2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE

"NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.

LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).

3. REFER TO TOPOGRAPHICAL AND ACCESS ROAD MAP FOR PROPOSED ROAD LOCATION.

ACREAGE INFORMATION
PROPOSED PAD = 17.361 ACRES

TOP SOIL/SUB SOIL

= 2.014 ACRES

TO

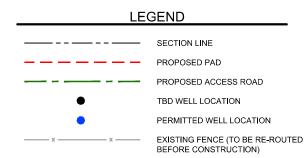
TOTAL = 19.375 ACRES

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIFF.

ST OF MY KNOWLEDGE AND BELIE

MARK DILLON HARP NEW MEXICO PROFESSIONAL LAND SURVEYOR NO. 23786





Manhard

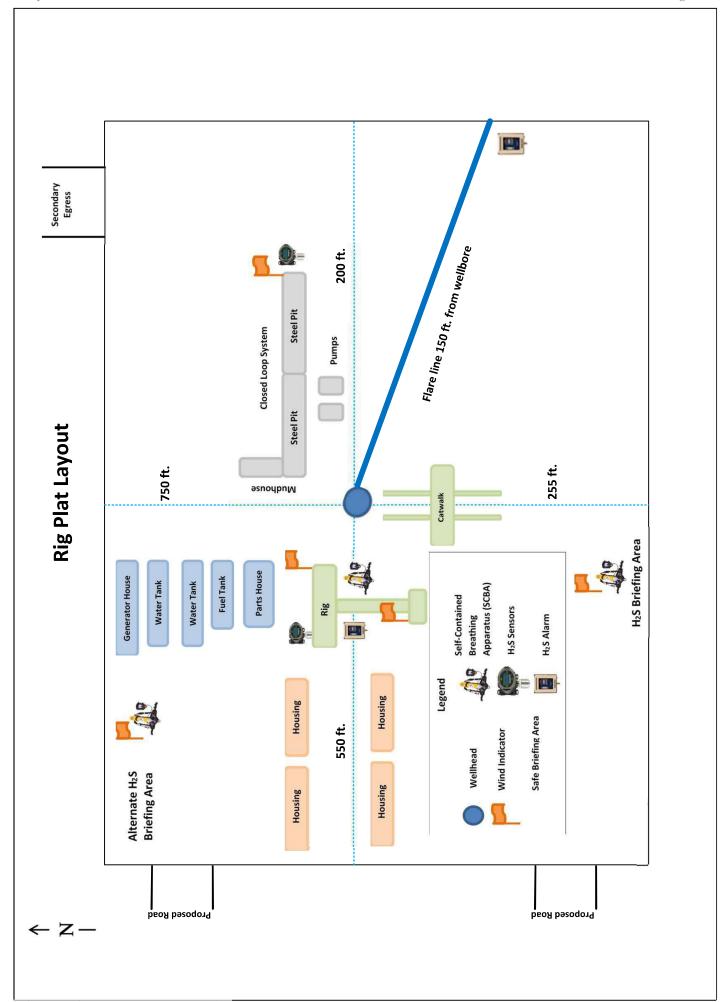
505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-21732 (Eng)

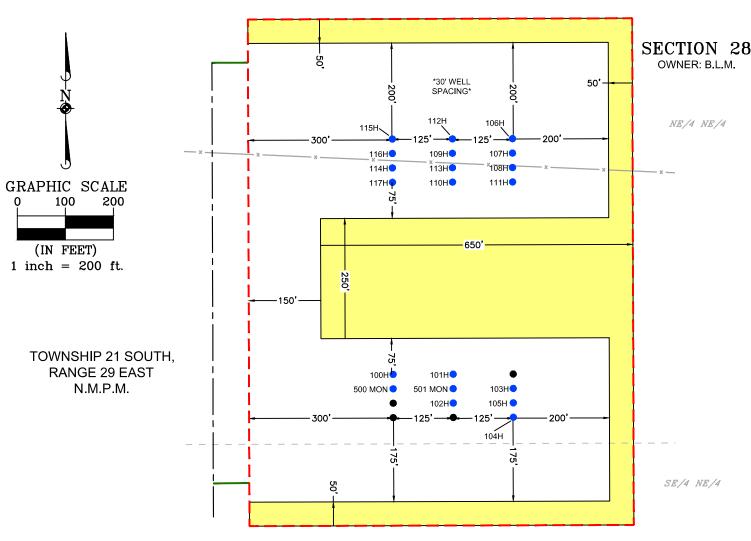
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A WELL SITE PLAN FOR XTO PERMIAN OPERATING, LLC. BEU BATMAN 28 PROPOSED PAD "A"

BIG EDDY UNIT 28 QR 105H IS LOCATED 1,235 FEET FROM THE NORTH LINE AND 410 FEET FROM THE EAST LINE OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 4/11/2024	SCALE: 1" = 200'	PROJECT NO.: 618.013004.26-06
DRAWN BY:	FIELD CREW:	REVISION NO.: NO	SHEET: 1 OF 3





DRIVING DIRECTION TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES. TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH.

GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATES SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATA (NAD83).

I,MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PREFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE



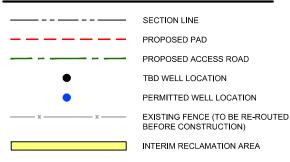
MARK DILLON HARP NEW MEXICO PROFESSIONAL LAND SURVEYOR NO. 23786



ACREAGE INFORMATION

INITIAL DISTURBED AREA = 19.375 ACRES
INTERIM RECLAMATION = 6.736 ACRES
TOTAL PAD ACREAGE AFTER IR = 12.999 ACRES

LEGEND



AN INTERIM RECLAMATION DIAGRAM FOR

XTO PERMIAN OPERATING, LLC. BEU BATMAN 28 PROPOSED PAD "A"

PAD CENTER IS LOCATED 963 FEET FROM THE NORTH LINE AND 560 FEET FROM THE EAST LINE OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

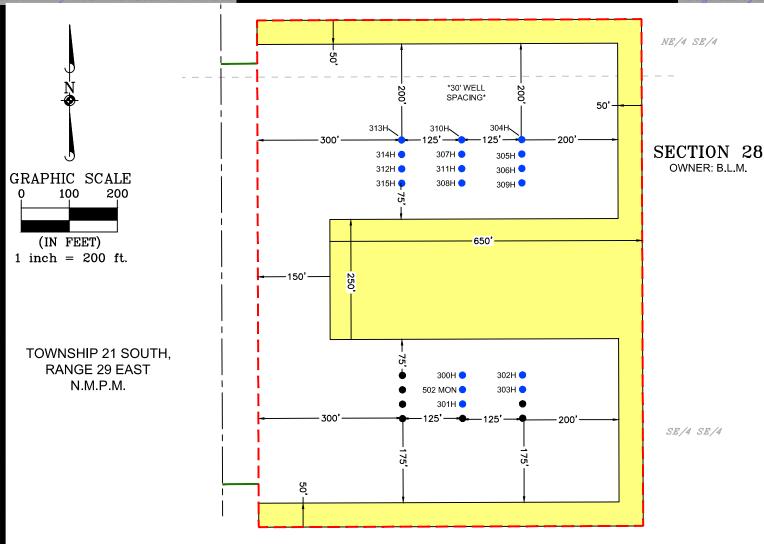
CHECKED BY: DB	DATE:	SCALE:	PROJECT NO.:
	1/13/2025	1" = 200'	618.013004.26
DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET: 1 OF 1



505 Pecan Street, Suite 201, Fort Worth, TX 76102 ph:817.865.5344 manhard.com Texas Board of Professional Engineers & Land Surveyors Reg. No. F-10194754 (Surv), F-22053 (Eng)

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DRIVING DIRECTION TO LOCATION

FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES, TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH.

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MARK DILLON HARP NEW MEXICO PROFESSIONAL LAND SURVEYOR NO. 23786

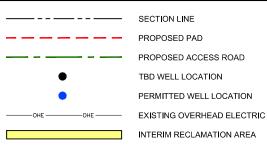


ACREAGE INFORMATION

INITIAL DISTURBED AREA = 19.375 ACRES INTERIM RECLAMATION = 6.376 ACRES

TOTAL PAD ACREAGE AFTER IR = 12.999 ACRES

LEGEND



AN INTERIM RECLAMATION DIAGRAM FOR

XTO PERMIAN OPERATING, LLC. BEU BATMAN 28 PROPOSED PAD "C"

PAD CENTER IS LOCATED 914 FEET FROM THE SOUTH LINE AND 558 FEET FROM THE EAST LINE OF SECTION 28, TOWNSHIP 21 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

CHECKED BY: DB	DATE: 1/13/2025	SCALE: 1" = 200'	PROJECT NO.: 618.013004.26
DRAWN BY:	FIELD CREW:	REVISION NO.:	SHEET: 1 OF 1



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Well Site Locations

The results of the Big Eddy Unit 28 QR Development Program will develop economic quantities of oil and gas in the Big Eddy Unit 28 QR area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

Surface Use Plan

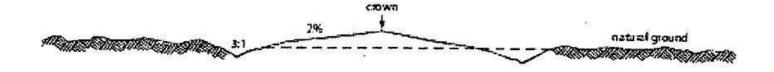
1. Existing Roads

- A. The Big Eddy Unit 28 QR is FROM THE INTERSECTION OF HIGHWAY 62/180 (HOBBS HWY) AND HIGHWAY 31 (POTASH MINES ROAD), GO SOUTH ON POTASH MINES RD FOR APPROX. 6 MILES. TURN RIGHT (WEST) ONTO LEASE ROAD, AND GO APPROX. 3.2 MILES, ARRIVING AT A PROPOSED ROAD AND THE LOCATION IS TO THE NORTH. Transportation Plan identifying existing roads that will be used to access the project area is included from Manhard Surveying marked as, 'Vicinity Map.'
- B. There are proposed access roads to the proposed Big Eddy Unit 28 QR well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Manhard Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. New or Upgraded Access Roads

- A. **New Roads**. There is a total of approximately 6024.66' or 1.14 miles of proposed and staked access roads in the big eddy unit 28 QR lease area. Acreage- 4.12 acres
- B. **Well Pads**. The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram/Proposed access road easement shows the location of proposed roads that will need to be constructed to access the well pads.
- C. Anticipated Traffic. After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year
- needed throughout the year.

 D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by Manhard's Surveying unless otherwise approved by the BLM and applied for by XTO Permian Operating LLC.
- E. **Road Dimensions**. The maximum width of the driving surface of new roads will be approximately 20 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slope. The driving surface will be made of 8" rolled and compacted caliche.



Level Ground Section

- F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. Fence Cuts: No.
- H. Fences- 77049- Re-route fence north of pad for pad A
- l. **Cattle Guards**: No.
- J. **Turnouts**: No.
- K. Culverts: No.
- L. Cuts and Fills: N/A
- M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. **Maintenance**. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. **Drainage**. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

A. See attached 1-mile radius well map.

4. Location of Proposed Production Facilities

- A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to campsites, airstrips or staging areas.
- B. **Production Facilities**. One 650' x 655' pad was staked with the BLM for construction and use as Central Tank Batteries (CTB). The proposed central tank battery totaling 9.774 acres and being situated in Section 28, Township 21 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed.
- C. **Surface Flowlines**. In the event the wells are found productive, 4" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750 psi (operating pressure: 125 psi) will be laid on the surface within proposed lease road corridors from the proposed wells to the Big Eddy Unit 28 CTB where the oil, gas, and water will be metered and appropriately separated. The distance of proposed lines will be approximately 7742' or less based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached.
- D. **Buried Lines**. Additional composite flexpipe or steel flowlines of size 22" or less with a maximum safety pressure rating of 1400 psi (operating pressure: 750 psi or less) will be buried within the lease road corridor for gas lift, fuel gas, and water. The distance of proposed flowlines will be approximately 7742' or less per well based on the location of the well pad in conjunction with the

- A plat of the proposed flowline route for the lease is attached. Routing is the same as that of the surface flowlines.
- E. **Gas Pipeline**. 10 110' corridors are requested to connect with the Big Eddy Unit 28 QR pipeline. XTO Permian Operating LLC. will be installing the line with anticipated risers located on the CTB.
- F. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with 43 CFR 3177.
- G. **Flare**. There will be a LP flare associated with this project. It will be sized and rated appropriately based on anticipated reserves and recovering of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
- H. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- I. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1½ times the capacity of the largest tank and away from cut or fill areas.
- J. **Electrical**. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All electrical lines will be primary 115 kv to properly run expected production equipment. Approximately 6253' of electrical will be run along the proposed road corridors with a request for 30' ROW construction and maintenance buffer; 15' on either side of the electrical centerline. This distance a maximum approximation and may vary based on the lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

5. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated location by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating LLC. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 50,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 500,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

6. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:

Pit 1: Private Caliche Pit, Section 36-T21S-R28E; SESW

7. Methods for Handling Waste

- **Cuttings**. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- **Drilling Fluids**. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks
 and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be
 stored in tanks until sold.
- Sewage. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of
 drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents
 thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations
 pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly
 maintained during the drilling and completion operations and will be removed when all operations are
 complete.
- Garbage and Other Waste Materials. All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

Hazardous Materials.

- i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).
- ii. XTO Permian Operating LLC. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any 'hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically

listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

8. Well Site Layout

- A. **Rig Plat Diagrams**: There are 2 multi-well pads in the Big Eddy Unit 28 QR lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached.
 - 1. Pad A is expected to be 1055'x 800'.
 - 2. Pad B is expected to be 1055'x 800'.

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

- B. **V-Door Orientation**: These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with BLM Natural Resource Specialist, present at on-site inspection. See attached proposed well list and notice of staking changes.
 - 1. Pad A has a V-Door Orientation of South.
 - 2. Pad B has a V-Door Orientation of South.
- C. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

9. Plans for Surface Reclamation:

XTO Permian Operating LLC. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

Definition: Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to reestablish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State-or County-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds will be controlled.

Seeding:

- <u>Seedbed Preparation</u>: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface, and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- <u>Seed Application</u>. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

10. Surface Ownership

- A. Within the Big Eddy Unit 28 QR project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information Surveying

- Well Sites. Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Manhard Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Bureau of Land Management Natural Resource Specialist in attendance.
- Onsite- 1/25/24 with Zane Kirsch, Scott L, Laurel T from BLM.

Soils and Vegetation

- **Environmental Setting**. Soils are classified as Simona Bippus. Simona soils are associated with the Shallow sandy which typically supports black grama grasslands with Mesquite, yuca, grasses, and cat claw. The current vegetative community consists of mesquite, yuca, grasses, and cat claw.
- Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

Name	SHL N/S Footage (ft)	N/S Footage Line	E/W Footage (ft)	E/W Footage Line
BIG EDDY UNIT 28 QR 103H	1205	FNL	410	FEL
BIG EDDY UNIT 28 QR 105H	1235	FNL	410	FEL
BIG EDDY UNIT 28 QR 104H	1265	FNL	411	FEL
BIG EDDY UNIT 28 QR 101H	1175	FNL	535	FEL
BIG EDDY UNIT 28 QR 501	1205	FNL	535	FEL
BIG EDDY UNIT 28 QR 102H	1235	FNL	535	FEL
BIG EDDY UNIT 28 QR 100H	1175	FNL	660	FEL
BIG EDDY UNIT 28 QR 500	1205	FNL	660	FEL
BIG EDDY UNIT 28 QR 302H	702	FSL	408	FEL
BIG EDDY UNIT 28 QR 300H	702	FSL	528	FEL
BIG EDDY UNIT 28 QR 502	672	FSL	528	FEL
BIG EDDY UNIT 28 QR 301H	642	FSL	528	FEL
BIG EDDY UNIT 28 QR 303H	672	FSL	408	FEL
BIG EDDY UNIT 28 QR 115H	685	FNL	660	FEL
BIG EDDY UNIT 28 QR 116H	715	FNL	660	FEL
BIG EDDY UNIT 28 QR 114H	745	FNL	660	FEL
BIG EDDY UNIT 28 QR 117H	775	FNL	660	FEL
BIG EDDY UNIT 28 QR 112H	685	FNL	535	FEL
BIG EDDY UNIT 28 QR 109H	715	FNL	535	FEL
BIG EDDY UNIT 28 QR 113H	745	FNL	535	FEL
BIG EDDY UNIT 28 QR 110H	775	FNL	535	FEL
BIG EDDY UNIT 28 QR 106H	685	FNL	410	FEL
BIG EDDY UNIT 28 QR 107H	715	FNL	410	FEL
BIG EDDY UNIT 28 QR 108H	745	FNL	410	FEL
BIG EDDY UNIT 28 QR 111H	775	FNL	410	FEL
BIG EDDY UNIT 28 QR 313H	1192	FSL	658	FEL
BIG EDDY UNIT 28 QR 314H	1162	FSL	658	FEL
BIG EDDY UNIT 28 QR 312H	1132	FSL	658	FEL
BIG EDDY UNIT 28 QR 315H	1102	FSL	658	FEL
BIG EDDY UNIT 28 QR 310H	1192	FSL	528	FEL
BIG EDDY UNIT 28 QR 307H	1162	FSL	528	FEL
BIG EDDY UNIT 28 QR 311H	1132	FSL	528	FEL
BIG EDDY UNIT 28 QR 308H	1102	FSL	528	FEL
BIG EDDY UNIT 28 QR 304H	1192	FSL	408	FEL
BIG EDDY UNIT 28 QR 305H	1162	FSL	408	FEL
BIG EDDY UNIT 28 QR 306H	1132	FSL	408	FEL

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

Operator's Representatives:

The XTO Permian Operating LLC. representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Robert Bartels
Project Execution Planner
XTO Permian Operang LLC.
401 Holiday Hill Road Bldg 5 Midland,
Texas 79701



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Lined pit Monitor description:

Lined pit Monitor

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

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

TDS lab results:

Geologic and hydrologic

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

State

Unlined Produced Water Pit Estimated

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD Surface Owner Description:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Isumacetdisunaigs site/tablities/maptM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR Well Number: 105H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT **Bond Info Data**

APD ID: 10400099679

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT 28 QR

Well Type: OIL WELL

Submission Date: 07/24/2024

Highlighted data reflects the most

Well Number: 105H

Well Work Type: Drill

recent changes **Show Final Text**

Bond

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

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

Sundry Print Reports

Well Name: BIG EDDY UNIT 28 QR Well Location: T21S / R29E / SEC 28 / County or Parish/State: EDDY /

NENE / 32.455773 / -103.982351

Well Number: 106H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMLC069241 Unit or CA Name: BIG EDDY Unit or CA Number:

NMNM68294X

US Well Number: Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2865457

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 07/28/2025 Time Sundry Submitted: 11:17

Date proposed operation will begin: 08/08/2025

Procedure Description: BIG EDDY UNIT 28 QR 106H APD ID# 10400099690 SUNDRY LANGUAGE XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes include SHL, KOP, FTP, LTP, BHL, casing design, cement program, mud circulation system, proposed total depth, formation and pool. FROM: TO: SHL: 685' FNL & 410' FEL OF SECTION 28-T21S-R29E 1265' FNL & 411' FEL OF SECTION 28-T21S-R29E KOP: 685' FNL & 410' FEL OF SECTION 28-T21S-R29E 2310' FSL & 330' FEL OF SECTION 28-T21S-R29E FTP: 330' FNL & 660' FEL OF SECTION 28-T21S-R29E 2310' FSL & 330' FEL OF SECTION 28-T21S-R29E LTP: 330' FNL & 100' FWL OF SECTION 30-T21S-R29E 2310' FSL & 100' FEL OF SECTION 25-T21S-R29E BHL: 330' FNL & 50' FWL OF SECTION 30-T21S-R29E 2310' FSL & 50' FEL OF SECTION 25-T21S-R29E The proposed total depth is changing from 26148' MD/10829' TVD to 25114' MD/9046' TVD The formation is changing from Wolfcamp to Bone Spring. The formation & pool is changing from GOLDEN LANE; WOLFCAMP (GAS) to U.S.; Bone Spring. The dedicated acreage is changing from 941 acres to 520 acres See attached drilling program for the updated casing design, cement program and the mud circulation system. No new surface disturbance

NOI Attachments

Procedure Description

Sundry_Attachments___Big_Eddy_Unit_28_QR_106H_20250903130338.pdf

Sundry_Attachments___Big_Eddy_Unit_28_QR_106H_20250728111349.pdf

eceived by OCD: 9/17/2025 6:47:39 PM Well Name: BIG EDDY UNIT 28 QR

Well Location: T21S / R29E / SEC 28 /

NENE / 32.455773 / -103.982351

County or Parish/State: EDDY of 1

NM

Well Number: 106H

Type of Well: CONVENTIONAL GAS

WĖLL

Allottee or Tribe Name:

Lease Number: NMLC069241

Unit or CA Name: BIG EDDY

Unit or CA Number: NMNM68294X

US Well Number:

Operator: XTO PERMIAN OPERATING

LLC

Conditions of Approval

Additional

212928 Big Eddy Unit 28 QR 106H 08 01 2025 COAs 20250910131901.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SRINIVAS LAGHUVARAPU Signed on: SEP 03, 2025 01:03 PM

Name: XTO PERMIAN OPERATING LLC

Title: REGULATORY ANALYST

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING State: TX

Phone: (720) 539-1673

Email address: SRINIVAS.N.LAGHUVARAPU@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved **Disposition Date:** 09/10/2025

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

BUREAU OF LAND MANAGEMENT	`	5. Lease Serial No.			
SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for su	o re-enter an	6. If Indian, Allottee or Tribe N	Vame		
SUBMIT IN TRIPLICATE - Other instructions on pag	ge 2	7. If Unit of CA/Agreement, N	lame and/or No.		
1. Type of Well Oil Well Gas Well Other	•	8. Well Name and No.			
2. Name of Operator		9. API Well No.			
3a. Address 3b. Phone No.	. (include area code)	10. Field and Pool or Explorate	ory Area		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State			
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE O	F NOTICE, REPORT OR OTH	IER DATA		
TYPE OF SUBMISSION	TYPE	OF ACTION			
Notice of Intent Acidize Deep Alter Casing Hyd	pen	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity		
Subsequent Report	Construction and Abandon	Recomplete Temporarily Abandon	Other		
	g Back	Water Disposal			
completed. Final Abandonment Notices must be filed only after all requiremen is ready for final inspection.)	is, including reclamati	on, nave been completed and ti	ne operator has detennined that the site		
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)	Title				
Signature	Date				
THE SPACE FOR FED	ERAL OR STAT	E OFICE USE			
Approved by	Title	r	Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject leads which would entitle the applicant to conduct operations thereon.	nt or	1	, m.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for a any false, fictitious or fraudulent statements or representations as to any matter with		and willfully to make to any de	partment or agency of the United States		

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

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

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

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

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

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

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

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

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

BHL: 330' FNL & 50' FWL OF SECTION 30-T21S-R29E 2310' FSL & 50' FEL OF SECTION 25-T21S-R29E

The proposed total depth is changing from 26148 MD/10829 TVD to 25114 MD/9046 TVD

The formation is changing from Wolfcamp to Bone Spring.

The formation & pool is changing from GOLDEN LANE; WOLFCAMP (GAS) to U.S.; Bone Spring.

The dedicated acreage is changing from 941 acres to 520 acres

See attached drilling program for the updated casing design, cement program and the mud circulation system.

No new surface disturbance

Location of Well

0. SHL: NENE / 685 FNL / 410 FEL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.455773 / LONG: -103.982351 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 332 FNL / 0 FWL / TWSP: 21S / RANGE: 29E / SECTION: 30 / LAT: 32.45676 / LONG: -104.015271 (TVD: 10829 feet, MD: 21300 feet)
PPP: NWNW / 328 FNL / 1320 FWL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.456755 / LONG: -103.993857 (TVD: 10829 feet, MD: 14700 feet)
PPP: NENW / 329 FNL / 2640 FEL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.456753 / LONG: -103.989577 (TVD: 10829 feet, MD: 13400 feet)
PPP: NENE / 330 FNL / 660 FWL / TWSP: 21S / RANGE: 29E / SECTION: 28 / LAT: 32.456751 / LONG: -103.98316 (TVD: 10829 feet, MD: 11400 feet)
BHL: LOT 1 / 330 FNL / 50 FWL / TWSP: 21S / RANGE: 29E / SECTION: 30 / LAT: 32.456762 / LONG: -104.031227 (TVD: 10829 feet, MD: 26148 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating, LLC
WELL NAME & NO.: Big Eddy Unit 28 QR 106H
LOCATION: Section 28, T.21S., R.29E.
COUNTY: Eddy County

COA

H2S	• Yes	C No	
Potash	None	© Secretary	C R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	O Both
Wellhead Variance	O Diverter		
Other	□ 4 String	☐ Capitan Reef	\square WIPP
Other	Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	▼ Contingency	☐ EchoMeter	☐ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	\square COM	Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	Break Testing	✓ Offline	☐ Casing
Variance		Cementing	Clearance

Medium Cave/Karst

Possibility of water flows in the Rustler Possibility of lost circulation in the Salado and Delaware Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

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 part 3170 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

- 1. The 9-5/8 inch surface casing shall be set at approximately 467 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 12-1/4 inch in diameter.
 - 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 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification. Excess calculates to 22%
 Additional cement may be required.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. 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.
 - 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 i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

E. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

- 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 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

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 CountyCall 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43** CFR **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from

spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.

- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 8/1/2025

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.

L'Srinivas Naveen

7/23/25

Srinivas Naveen Laghuvarapu

srinivas.n.laghuvarapu@exxonmobil.com

Email Address



Signature and Seal of Professional Surveyor

23786

07-21-2025

DN

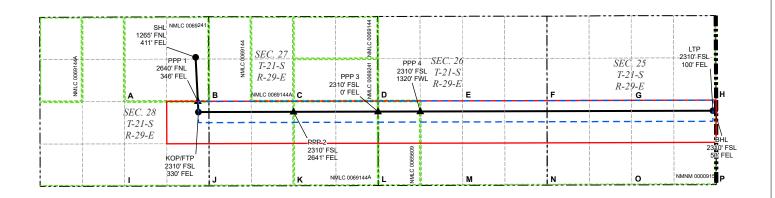
618.013004.26-07

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is 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.







WELL COORDINATE TABLE									
WELL	NAD 83 NME X	NAD 83 NME Y	NAD 83 LAT	NAD 83 LON	NAD 27 NME X	NAD 27 NME Y	NAD 27 LAT	NAD 27 LON	
SHL	649,598.4	529,139.3	32.454179	-103.982351	608,417.8	529,078.2	32.454058	-103.981851	
KOP/FTP	649,684.5	527,427.1	32.449472	-103.982090	608,503.8	527,366.1	32.449351	-103.981590	
LTP	665,763.5	527,469.4	32.449432	-103.929965	624,582.7	527,408.2	32.449310	-103.929466	
BHL	665,813.5	527,469.5	32.449432	-103.929803	624,632.7	527,408.3	32.449310	-103.929304	
PPP 1	649,667.5	527,764.7	32.450400	-103.982141	608,486.9	527,703.7	32.450279	-103.981641	
PPP 2	652,657.5	527,434.9	32.449466	-103.972452	611,476.8	527,373.8	32.449345	-103.971952	
PPP 3	655,298.2	527,441.8	32.449460	-103.963892	614,117.5	527,380.8	32.449339	-103.963392	
PPP 4	656,618.5	527,445.3	32.449457	-103.959612	615,437.7	527,384.2	32.449336	-103.959112	

CORNER COORDINATE TABLE								
CORNER	NAD 83 NME X	NAD 83 NME Y	NAD 27 NME X	NAD 27 NME Y				
Α	647,373.7	527,756.4	606,193.0	527,695.4				
В	650,013.4	527,765.9	608,832.7	527,704.9				
С	652,656.6	527,769.4	611,475.9	527,708.4				
D	655,297.2	527,772.9	614,116.5	527,711.8				
Е	657,937.6	527,778.5	616,756.9	527,717.4				
F	660,580.9	527,784.1	619,400.2	527,722.9				
G	663,218.5	527,792.9	622,037.8	527,731.8				
Н	665,862.5	527,801.8	624,681.8	527,740.6				
I	647,382.0	525,111.3	606,201.3	525,050.4				
J	650,022.2	525,117.9	608,841.4	525,056.9				
K	652,663.9	525,125.3	611,483.2	525,064.3				
L	655,305.4	525,132.0	614,124.6	525,071.0				
М	657,946.5	525,139.0	616,765.7	525,078.0				
N	660,587.0	525,145.5	619,406.2	525,084.5				
0	663,227.9	525,153.2	622,047.1	525,092.1				
Р	665,870.3	525,159.6	624,689.5	525,098.5				

DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

ExxonMobil

BIG EDDY UNIT 28 QR 106H

Projected TD: 25114' MD / 9046' TVD

SHL: 1265' FNL & 411' FEL , Section 28, T21S, R29E

BHL: 2310' FNL & 50' FEL , Section 25, T21S, R29E

Eddy County, NM

1. Geologic Name of Surface Formation A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth	Water/Oil/Gas
Rustler	301'	Water
Salado	526'	Water
MB-126	2705'	Water
Base of Salt	2770'	Water
Delaware	3208'	Water
Cherry Canyon	4210'	Water/Oil/Gas
Brushy Canyon	5692'	Water/Oil/Gas
Bone Spring Lm.	6952'	Water/Oil/Gas
Lower Avalon	7598'	Water/Oil/Gas
1st Bone Spring Lime	7724'	Water/Oil/Gas
1st Bone Spring Sand	8004'	Water/Oil/Gas
2nd Bone Spring Lime	8234'	Water/Oil/Gas
2nd Bone Spring Sand	8750'	Water/Oil/Gas
2nd Bone Spring Mid Carb	8905'	Water/Oil/Gas
Landing	9046'	Water/Oil/Gas
		·

Section	2	Summar	V
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** Deepest Expected Groundwater Depth: 40' (per NM State Engineers Office).

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" inch casing at 501' and circulating cement back to surface.

3. Primary Casing Design Primary Design:

Hole Size (in.)	MD	Casing TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25"	0' – 501'	501'	9-5/8"	40	J55	BTC	New	25.71	23.70	6.08
8.75"	0' - 4000'	3939'	7-5/8"	29.7	P110-ICY	Tenaris Wedge 511	New	6.01	8.63	3.57
8.75"	4000' – 8515'	8342'	7-5/8"	29.7	L80-IC	Tenaris Wedge 511	New	3.39	6.69	2.59
6.75"	0' – 8415'	8249'	5-1/2"	20	P110-CY	TPN	New	1.18	3.11	2.57
6.75"	8415' – 25114'	9046'	5-1/2"	20	P110-CY	Tenaris Wedge 441	New	1.18	2.83	2.77

Section 3 Summary:

XTO will keep casing fluid filled to meet BLM's collapse requirement. The planned kick off point is located at: 8665' MD / 8493' TVD.

A multi-bowl wellhead system will be utilized. The well design chosen is: 3-String Slim Non-Potash

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

4. Cement Program

			P	rimary Cementi	ng			
Hole Section	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	TOC (ft)	Casing Setting Depth (MD)	Excess (%)	Slurry Description
Surface 1	Lead	60	12.4	2.11	0	501	100%	Surface 1 Class C Lead Cement
Surface 1	Tail	141	14.8	1.33	201	501	100%	Surface 1 Class C Tail Cement
Intermediate 1	Lead							
Intermediate 1	Tail	264	14.8	1.45	5692	8,515	35%	Intermediate 1 Class C Tail Cement
Production 1	Lead							
Production 1	Tail	1211	13.2	1.44	8015	25,114	25%	Production 1 Class C Tail Cement
	•		Brea	denhead Ceme	nting			
Casing	Slurry Type	No. Sacks	Density (ppg)	Yield (ft3/sack)	Cemented Interval		Excess (%)	Slurry Description
ntermediate 1	Bradenhead Squeeze	533	14.8	1.45	0 - 5692'		35%	Intermediate Class C Bradenhead Squeeze Cement

Section 4 Summary:

*Bradenhead Squeeze 2nd Stage Offline							

5. Pressure Control Equipment

	Section	5	Summary	/ :
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Once the permanent WH is installed on the casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 10M triple Ram BOP.
All BOP testing will be done by an independent service company. Operator will Test as per 43CFR-3172.
No break testing will be done if intermediate casing point penetrates the Wolfcamp

Requested Variances

4A) Offline Cementing Variance

XOM requests the option to perform offline cement and bradenhead jobs (if needed) SURFACE, INTERMEDIATE, and PRODUCTION casing strings where batch drilling is approved. XOM will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence. The TA cap will also be installed when applicable per wellhead manufacturer's procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5A) Break Test Variance

A break testing variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead for the intermediate hole sections which is in compliance with API Standard 53. The maximum anticipated surface pressure is less than 4800psi and the deepest intermediate casing point does not penetrate the Wolfcamp Formation.

5B) Flex Hose Variance

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart. The manufacturer does not require anchors.

8A) Open Hole Logging Variance

Open hole logging will not be done on this well.

10A) Spudder Rig Variance

XOM requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing.

10B) Batch Drilling Variance

XOM requests a variance to be able to batch drill this well. In doing so, XOM will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. XOM will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XOM will begin drilling the production hole on each of the wells.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)	Comments
0' – 501'	12.25"	FW/Native	8.3 - 8.7	35-40	NC	Fresh Water or Native Water
501' – 8515'	8.75"	BDE/OBM or FW/Brine	9.5 - 10	30-32	NC	Fluid type will be based upon on well conditions. A fully saturated system will be used across the salt interval.
8515' – 25114'	6.75"	OBM/Cut Brine	9 - 9.6	50-60	NC - 20	OBM or Cut Brine depending on Well Conditions

Section 6 Summary:

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. An EDR (Electronic Drilling Recorder) will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

Section	7	Summary	
Section	•	Summary	

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.

H2S monitors will be on location when drilling below the 9-5/8" casing.

8. Logging, Coring and Testing Program

Section 8 Summary:

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

Section 9 Summary:

The estimated bottom hole temperature of 156F to 176F. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation is possible throughout the well.

10. Anticipated Starting Date and Duration of Operations

Section 10 Summary:

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

ROC

Batman - Big Eddy Unit 33 & 28 - NAD 27 NME Big Eddy Unit 28 QR - 32' RKB BIG EDDY UNIT 28 QR 106H

OH

Plan: Plan 0

Standard Planning Report

19 July, 2025

Database: EDM 5000.18 Single User Db

Company:

Project:

Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Site: Well: Big Eddy Unit 28 QR - 32' RKB BIG EDDY UNIT 28 QR 106H

Wellbore: Design:

ОН Plan 0 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H

RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

Minimum Curvature

Batman - Big Eddy Unit 33 & 28 - NAD 27 NME **Project**

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS) New Mexico East 3001

System Datum:

Mean Sea Level

Site Big Eddy Unit 28 QR - 32' RKB

Site Position: From:

Мар

Northing: Easting:

529,568.30 usft 608,416.30 usft Latitude: Longitude:

32° 27' 19.458 N 103° 58' 54.660 W

Position Uncertainty: 0.00 usft **Slot Radius:** 13-3/16 "

Well BIG EDDY UNIT 28 QR 106H, (Old 302H)

Well Position

+N/-S $0.00 \, usft$ +E/-W 0.00 usft Northing: Easting:

529,078.20 usft 608,417.80 usft Latitude: Longitude:

32° 27' 14.608 N 103° 58' 54.661 W

Position Uncertainty

0.00 usft 0.19 °

Wellhead Elevation:

usft Ground Level: 3,414.00 usft

Grid Convergence:

Wellbore

OH

Plan 0

Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) IGRF200510 7.95 60.38 48,886.19637482 12/31/2009

Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section: Depth From (TVD) +N/-S

+E/-W

Direction

(usft) (usft) (usft) (°) 89.850 0.00 0.00 0.00

Plan Survey Tool Program

Date 7/19/2025

Depth From (usft)

Depth To (usft)

Survey (Wellbore)

Tool Name

Remarks

1

0.00

25,114.33 Plan 0 (OH) XOMR2 OWSG MWD+IFF

OWSG MWD + IFR1 + Mult

Plan Sections Measured Vertical Build **Dogleg** Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate **TFO** (°/100usft) (°/100usft) (usft) (°) (°) (usft) (usft) (usft) (°/100usft) **Target** (°) 0.00 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.000.00 0.00 0.000 1.000.00 0.00 0.00 0.00 0.00 0.00 0.00 1.620.19 3.66 2.00 0.00 176.91 1.625.14 12.50 176.914 -67.842.00 -1,589.59 8.664.69 12.50 176.914 8.492.80 85.71 0.00 0.00 0.00 0.00 -9.74 9,558.33 90.00 89.850 9,046.00 -1,710.60658.95 10.00 8.67 -87.130.00 0.00 LTP v3 - BEU 28 QI 25,064.33 90.00 89 850 9,046.00 -1,670.0016,164.90 0.00 0.00 25,114.33 90.00 89.850 9,046.00 -1,669.8716,214.90 0.00 0.00 0.00 0.00 BHL v3 - BEU 28 Q

Database: EDM 5000.18 Single User Db

Company: ROC

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Site: Big Eddy Unit 28 QR - 32' RKB
Well: BIG EDDY UNIT 28 QR 106H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
301.00	0.00	0.000	301.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00 500.00 526.00 Salado	0.00 0.00 0.00	0.000 0.000 0.000	400.00 500.00 526.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	2.00	176.914	1,099.98	-1.74	0.09	0.09	2.00	2.00	0.00
1,200.00	4.00	176.914	1,199.84	-6.97	0.38	0.36	2.00	2.00	0.00
1,300.00	6.00	176.914	1,299.45	-15.67	0.84	0.80	2.00	2.00	0.00
1,400.00	8.00	176.914	1,398.70	-27.84	1.50	1.43	2.00	2.00	0.00
1,500.00	10.00	176.914	1,497.47	-43.46	2.34	2.23	2.00	2.00	0.00
1,600.00	12.00	176.914	1,595.62	-62.51	3.37	3.21	2.00	2.00	0.00
1,625.14	12.50	176.914	1,620.19	-67.84	3.66	3.48	2.00	2.00	0.00
1,700.00	12.50	176.914	1,693.28	-84.02	4.53	4.31	0.00	0.00	0.00
1,800.00	12.50	176.914	1,790.90	-105.64	5.70	5.42	0.00	0.00	0.00
1,900.00	12.50	176.914	1,888.53	-127.26	6.86	6.53	0.00	0.00	0.00
2,000.00	12.50	176.914	1,986.16	-148.87	8.03	7.64	0.00	0.00	0.00
2,100.00	12.50	176.914	2,083.79	-170.49	9.19	8.75	0.00	0.00	0.00
2,200.00	12.50	176.914	2,181.42	-192.11	10.36	9.86	0.00	0.00	0.00
2,300.00	12.50	176.914	2,279.05	-213.72	11.52	10.96	0.00	0.00	0.00
2,400.00	12.50	176.914	2,376.68	-235.34	12.69	12.07	0.00	0.00	0.00
2,500.00	12.50	176.914	2,474.30	-256.96	13.86	13.18	0.00	0.00	0.00
2,600.00	12.50	176.914	2,571.93	-278.58	15.02	14.29	0.00	0.00	0.00
2,700.00	12.50	176.914	2,669.56	-300.19	16.19	15.40	0.00	0.00	0.00
2,736.30	12.50	176.914	2,705.00	-308.04	16.61	15.80	0.00	0.00	0.00
MB-126 2,800.00 2,802.88	12.50 12.50	176.914 176.914	2,767.19 2,770.00	-321.81 -322.43	17.35 17.39	16.51 16.54	0.00 0.00	0.00 0.00	0.00 0.00
2,900.00	12.50	176.914	2,864.82	-343.43	18.52	17.62	0.00	0.00	0.00
3,000.00	12.50	176.914	2,962.45	-365.05	19.68	18.73	0.00	0.00	0.00
3,100.00	12.50	176.914	3,060.08	-386.66	20.85	19.84	0.00	0.00	0.00
3,200.00	12.50	176.914	3,157.70	-408.28	22.01	20.95	0.00	0.00	0.00
3,251.52	12.50	176.914	3,208.00	-419.42	22.62	21.52	0.00	0.00	0.00
Delaware 3,300.00	12.50	176.914	3,255.33	-429.90	23.18	22.05	0.00	0.00	0.00
3,400.00	12.50	176.914	3,352.96	-451.51	24.35	23.16	0.00	0.00	0.00
3,500.00	12.50	176.914	3,450.59	-473.13	25.51	24.27	0.00	0.00	0.00
3,600.00	12.50	176.914	3,548.22	-494.75	26.68	25.38	0.00	0.00	0.00
3,700.00	12.50	176.914	3,645.85	-516.37	27.84	26.49	0.00	0.00	0.00
3,800.00	12.50	176.914	3,743.48	-537.98	29.01	27.60	0.00	0.00	0.00
3,900.00	12.50	176.914	3,841.10	-559.60	30.17	28.71	0.00	0.00	0.00
4,000.00	12.50	176.914	3,938.73	-581.22	31.34	29.82	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company:

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Big Eddy Unit 28 QR - 32' RKB Site: Well: BIG EDDY UNIT 28 QR 106H

Wellbore: ОН Design: Plan 0 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.00 4,200.00 4,277.86 Cherry Car	12.50 12.50 12.50	176.914 176.914 176.914	4,036.36 4,133.99 4,210.00	-602.83 -624.45 -641.28	32.51 33.67 34.58	30.93 32.04 32.90	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
4,300.00	12.50	176.914	4,231.62	-646.07	34.84	33.14	0.00	0.00	0.00
4,400.00	12.50	176.914	4,329.25	-667.69	36.00	34.25	0.00	0.00	0.00
4,500.00	12.50	176.914	4,426.88	-689.30	37.17	35.36	0.00	0.00	0.00
4,600.00	12.50	176.914	4,524.50	-710.92	38.33	36.47	0.00	0.00	0.00
4,700.00	12.50	176.914	4,622.13	-732.54	39.50	37.58	0.00	0.00	0.00
4,800.00	12.50	176.914	4,719.76	-754.15	40.66	38.69	0.00	0.00	0.00
4,900.00	12.50	176.914	4,817.39	-775.77	41.83	39.80	0.00	0.00	0.00
5,000.00	12.50	176.914	4,915.02	-797.39	43.00	40.91	0.00	0.00	0.00
5,100.00	12.50	176.914	5,012.65	-819.01	44.16	42.02	0.00	0.00	0.00
5,200.00	12.50	176.914	5,110.28	-840.62	45.33	43.13	0.00	0.00	0.00
5,300.00	12.50	176.914	5,207.90	-862.24	46.49	44.24	0.00	0.00	0.00
5,400.00	12.50	176.914	5,305.53	-883.86	47.66	45.34	0.00	0.00	0.00
5,500.00	12.50	176.914	5,403.16	-905.48	48.82	46.45	0.00	0.00	0.00
5,600.00	12.50	176.914	5,500.79	-927.09	49.99	47.56	0.00	0.00	0.00
5,700.00	12.50	176.914	5,598.42	-948.71	51.16	48.67	0.00	0.00	0.00
5,795.86	12.50	176.914	5,692.00	-969.43	52.27	49.73	0.00	0.00	0.00
5,800.00	12.50	176.914	5,696.05	-970.33	52.32	49.78	0.00	0.00	0.00
5,900.00	12.50	176.914	5,793.68	-991.94	53.49	50.89	0.00	0.00	0.00
6,000.00	12.50	176.914	5,891.30	-1,013.56	54.65	52.00	0.00	0.00	0.00
6,100.00	12.50	176.914	5,988.93	-1,035.18	55.82	53.11	0.00	0.00	0.00
6,200.00	12.50	176.914	6,086.56	-1,056.80	56.98	54.22	0.00	0.00	0.00
6,300.00	12.50	176.914	6,184.19	-1,078.41	58.15	55.33	0.00	0.00	0.00
6,400.00	12.50	176.914	6,281.82	-1,100.03	59.31	56.43	0.00	0.00	0.00
6,500.00	12.50	176.914	6,379.45	-1,121.65	60.48	57.54	0.00	0.00	0.00
6,600.00	12.50	176.914	6,477.08	-1,143.26	61.65	58.65	0.00	0.00	0.00
6,700.00	12.50	176.914	6,574.70	-1,164.88	62.81	59.76	0.00	0.00	0.00
6,800.00	12.50	176.914	6,672.33	-1,186.50	63.98	60.87	0.00	0.00	0.00
6,900.00	12.50	176.914	6,769.96	-1,208.12	65.14	61.98	0.00	0.00	0.00
7,000.00	12.50	176.914	6,867.59	-1,229.73	66.31	63.09	0.00	0.00	0.00
7,086.46	12.50	176.914	6,952.00	-1,248.42	67.32	64.05	0.00	0.00	0.00
Bone Sprin	ng Lm.								
7,100.00	12.50	176.914	6,965.22	-1,251.35	67.47	64.20	0.00	0.00	0.00
7,200.00	12.50	176.914	7,062.85	-1,272.97	68.64	65.31	0.00	0.00	0.00
7,300.00	12.50	176.914	7,160.48	-1,294.58	69.80	66.42	0.00	0.00	0.00
7,400.00	12.50	176.914	7,258.10	-1,316.20	70.97	67.52	0.00	0.00	0.00
7,500.00	12.50	176.914	7,355.73	-1,337.82	72.14	68.63	0.00	0.00	0.00
7,600.00	12.50	176.914	7,453.36	-1,359.44	73.30	69.74	0.00	0.00	0.00
7,700.00	12.50	176.914	7,550.99	-1,381.05	74.47	70.85	0.00	0.00	0.00
7,748.15	12.50	176.914	7,598.00	-1,391.46	75.03	71.39	0.00	0.00	0.00
7,800.00 7,877.21 1st Bone S	12.50 12.50 Spring Lime	176.914 176.914	7,648.62 7,724.00	-1,402.67 -1,419.36	75.63 76.53	71.96 72.82	0.00 0.00	0.00 0.00	0.00 0.00
7,900.00	12.50	176.914	7,746.25	-1,424.29	76.80	73.07	0.00	0.00	0.00
8,000.00	12.50	176.914	7,843.88	-1,445.91	77.96	74.18	0.00	0.00	0.00
8,100.00	12.50	176.914	7,941.50	-1,467.52	79.13	75.29	0.00	0.00	0.00
8,164.01	12.50	176.914	8,004.00	-1,481.36	79.88	76.00	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company: ROC

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Site: Big Eddy Unit 28 QR - 32' RKB
Well: BIG EDDY UNIT 28 QR 106H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1st Bone	Spring Sand								
8,200.00	12.50	176.914	8,039.13	-1,489.14	80.30	76.40	0.00	0.00	0.00
8,300.00 8,399.60	12.50 12.50	176.914 176.914	8,136.76 8,234.00	-1,510.76 -1,532.29	81.46 82.62	77.51 78.61	0.00 0.00	0.00 0.00	0.00 0.00
2nd Bone 8,400.00	Spring Lime 12.50	176.914	8,234.39	-1.532.37	82.63	78.61	0.00	0.00	0.00
8,500.00 8,600.00	12.50 12.50 12.50	176.914 176.914 176.914	8,332.02 8,429.65	-1,553.99 -1,575.61	83.79 84.96	79.72 80.83	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,664.69	12.50	176.914	8,492.80	-1,589.59	85.71	81.55	0.00	0.00	0.00
8,700.00	13.15	161.229	8,527.24	-1,597.22	87.21	83.03	10.00	1.84	-44.42
8,750.00	15.45	143.115	8,575.71	-1,607.93	93.04	88.83	10.00	4.59	-36.23
8,800.00 8,850.00	18.80 22.75	130.432 121.733	8,623.51 8,670.26	-1,618.49 -1,628.81	103.18 117.54	98.94 113.28	10.00 10.00	6.70 7.89	-25.36 -17.40
8,900.00	27.03	115.577	8,715.61	-1.638.80	136.02	131.73	10.00	8.56	-12.31
8,939.24	30.53	111.903	8,750.00	-1,646.37	153.32	149.01	10.00	8.93	-9.36
	Spring Sand								
8,950.00	31.51	111.026	8,759.22	-1,648.40	158.48	154.16	10.00	9.08	-8.14
9,000.00 9,050.00	36.12 40.80	107.519 104.715	8,800.76 8,839.90	-1,657.53 -1,666.12	184.74 214.61	180.40 210.25	10.00 10.00	9.21 9.37	-7.01 -5.61
9,100.00	45.55	102.399	8.876.36	-1,674.11	247.87	243.48	10.00	9.49	-4.63
9,142.46	49.60	100.712	8,905.00	-1,680.37	278.57	274.17	10.00	9.56	-3.97
2nd Bone	Spring Mid Ca	rb							
9,150.00	50.33	100.434	8,909.85	-1,681.43	284.24	279.84	10.00	9.59	-3.69
9,200.00 9,250.00	55.14 59.97	98.724 97.204	8,940.12 8,966.94	-1,688.03 -1,693.86	323.47 365.24	319.05 360.81	10.00 10.00	9.62 9.67	-3.42 -3.04
9,300.00	64.82	95.826	8,990.10	-1,698.87	409.25	404.80	10.00	9.70	-2.76
9,350.00	69.68	94.553	9,009.43	-1,703.03	455.16	450.70	10.00	9.70	-2.76 -2.54
9,400.00	74.55	93.359	9,024.78	-1,706.31	502.62	498.15	10.00	9.74	-2.39
9,450.00	79.43	92.219	9,036.03	-1,708.67	551.26	546.78	10.00	9.75	-2.28
9,500.00	84.31	91.115	9,043.10	-1,710.11	600.72	596.24	10.00	9.76	-2.21
9,550.00 9,558.33	89.19 90.00	90.030 89.850	9,045.94 9,046.00	-1,710.61 -1,710.60	650.62 658.95	646.14 654.47	10.00 10.00	9.76 9.76	-2.17 -2.16
Landing	90.00	09.000	9,040.00	-1,710.00	030.93	034.47	10.00	9.70	-2.10
9,600.00	90.00	89.850	9,046.00	-1,710.49	700.62	696.14	0.00	0.00	0.00
9,700.00	90.00	89.850	9,046.00	-1,710.23	800.62	796.14	0.00	0.00	0.00
9,800.00	90.00	89.850	9,046.00	-1,709.97	900.62	896.14	0.00	0.00	0.00
9,900.00	90.00	89.850	9,046.00	-1,709.71 1,709.44	1,000.62	996.14 1.096.14	0.00	0.00	0.00
10,000.00 10,100.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,709.44 -1,709.18	1,100.62 1,200.62	1,096.14	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00	90.00	89.850	9,046.00	-1,708.92	1,300.62	1,296.14	0.00	0.00	0.00
10,300.00	90.00	89.850	9,046.00	-1,708.66	1,400.62	1,396.14	0.00	0.00	0.00
10,400.00	90.00	89.850	9,046.00	-1,708.40	1,500.62	1,496.14	0.00	0.00	0.00
10,500.00	90.00	89.850	9,046.00	-1,708.13 1,707.97	1,600.62	1,596.14	0.00	0.00	0.00
10,600.00 10,700.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,707.87 -1,707.61	1,700.62 1,800.62	1,696.14 1,796.14	0.00 0.00	0.00 0.00	0.00 0.00
10,800.00	90.00	89.850	9,046.00	-1,707.35	1,900.62	1,896.14	0.00	0.00	0.00
10,900.00	90.00	89.850	9,046.00	-1,707.09	2,000.62	1,996.14	0.00	0.00	0.00
11,000.00	90.00	89.850	9,046.00	-1,706.83	2,100.62	2,096.14	0.00	0.00	0.00
11,100.00	90.00	89.850	9,046.00	-1,706.56	2,200.62	2,196.14	0.00	0.00	0.00
11,200.00 11,300.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,706.30 -1,706.04	2,300.62 2,400.62	2,296.14 2,396.14	0.00 0.00	0.00 0.00	0.00 0.00
•	90.00		9,046.00	,	•				
11,400.00	90.00	89.850	9,040.00	-1,705.78	2,500.61	2,496.14	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company:

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Big Eddy Unit 28 QR - 32' RKB Site: Well: BIG EDDY UNIT 28 QR 106H

Wellbore: ОН Design: Plan 0 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	90.00	89.850	9,046.00	-1,705.52	2,600.61	2,596.14	0.00	0.00	0.00
11,600.00	90.00	89.850	9,046.00	-1,705.25	2,700.61	2,696.14	0.00	0.00	0.00
11,700.00	90.00	89.850	9,046.00	-1,704.99	2,800.61	2,796.14	0.00	0.00	0.00
11,800.00	90.00	89.850	9,046.00	-1,704.73	2,900.61	2,896.14	0.00	0.00	0.00
11,900.00	90.00	89.850	9,046.00	-1,704.47	3,000.61	2,996.14	0.00	0.00	0.00
12,000.00	90.00	89.850	9,046.00	-1,704.21	3,100.61	3,096.14	0.00	0.00	0.00
12,100.00	90.00	89.850	9,046.00	-1,703.94	3,200.61	3,196.14	0.00	0.00	0.00
12,200.00	90.00	89.850	9,046.00	-1,703.68	3,300.61	3,296.14	0.00	0.00	0.00
12,300.00	90.00	89.850	9,046.00	-1,703.42	3,400.61	3,396.14	0.00	0.00	0.00
12,400.00	90.00	89.850	9,046.00	-1,703.16	3,500.61	3,496.14	0.00	0.00	0.00
12,500.00	90.00	89.850	9,046.00	-1,702.90	3,600.61	3,596.14	0.00	0.00	0.00
12,600.00	90.00	89.850	9,046.00	-1,702.64	3,700.61	3,696.14	0.00	0.00	0.00
12,700.00	90.00	89.850	9,046.00	-1,702.37	3,800.61	3,796.14	0.00	0.00	0.00
12,800.00	90.00	89.850	9,046.00	-1,702.11	3,900.61	3,896.14	0.00	0.00	0.00
12,900.00	90.00	89.850	9,046.00	-1,701.85	4,000.61	3,996.14	0.00	0.00	0.00
13,000.00	90.00	89.850	9,046.00	-1,701.59	4,100.61	4,096.14	0.00	0.00	0.00
13,100.00	90.00	89.850	9,046.00	-1,701.33	4,200.61	4,196.14	0.00	0.00	0.00
13,200.00	90.00	89.850	9,046.00	-1,701.06	4,300.61	4,296.14	0.00	0.00	0.00
13,300.00	90.00	89.850	9,046.00	-1,700.80	4,400.61	4,396.14	0.00	0.00	0.00
13,400.00	90.00	89.850	9,046.00	-1,700.54	4,500.61	4,496.14	0.00	0.00	0.00
13,500.00	90.00	89.850	9,046.00	-1,700.28	4,600.61	4,596.14	0.00	0.00	0.00
13,600.00	90.00	89.850	9,046.00	-1,700.02	4,700.61	4,696.14	0.00	0.00	0.00
13,700.00	90.00	89.850	9,046.00	-1,699.76	4,800.61	4,796.14	0.00	0.00	0.00
13,800.00	90.00	89.850	9,046.00	-1,699.49	4,900.61	4,896.14	0.00	0.00	0.00
13,900.00	90.00	89.850	9,046.00	-1,699.23	5,000.61	4,996.14	0.00	0.00	0.00
14,000.00	90.00	89.850	9,046.00	-1,698.97	5,100.61	5,096.14	0.00	0.00	0.00
14,100.00	90.00	89.850	9,046.00	-1,698.71	5,200.61	5,196.14	0.00	0.00	0.00
14,200.00	90.00	89.850	9,046.00	-1,698.45	5,300.61	5,296.14	0.00	0.00	0.00
14,300.00	90.00	89.850	9,046.00	-1,698.18	5,400.60	5,396.14	0.00	0.00	0.00
14,400.00	90.00	89.850	9,046.00	-1,697.92	5,500.60	5,496.14	0.00	0.00	0.00
14,500.00	90.00	89.850	9,046.00	-1,697.66	5,600.60	5,596.14	0.00	0.00	0.00
14,600.00	90.00	89.850	9,046.00	-1,697.40	5,700.60	5,696.14	0.00	0.00	0.00
14,700.00	90.00	89.850	9,046.00	-1,697.14	5,800.60	5,796.14	0.00	0.00	0.00
14,800.00	90.00	89.850	9,046.00	-1,696.88	5,900.60	5,896.14	0.00	0.00	0.00
14,900.00	90.00	89.850	9,046.00	-1,696.61	6,000.60	5,996.14	0.00	0.00	0.00
15,000.00	90.00	89.850	9,046.00	-1,696.35	6,100.60	6,096.14	0.00	0.00	0.00
15,100.00	90.00	89.850	9,046.00	-1,696.09	6,200.60	6,196.14	0.00	0.00	0.00
15,200.00	90.00	89.850	9,046.00	-1,695.83	6,300.60	6,296.14	0.00	0.00	0.00
15,300.00	90.00	89.850	9,046.00	-1,695.57	6,400.60	6,396.14	0.00	0.00	0.00
15,400.00	90.00	89.850	9,046.00	-1,695.30	6,500.60	6,496.14	0.00	0.00	0.00
15,500.00	90.00	89.850	9,046.00	-1,695.04	6,600.60	6,596.14	0.00	0.00	0.00
15,600.00	90.00	89.850	9,046.00	-1,694.78	6,700.60	6,696.14	0.00	0.00	0.00
15,700.00	90.00	89.850	9,046.00	-1,694.52	6,800.60	6,796.14	0.00	0.00	0.00
15,800.00	90.00	89.850	9,046.00	-1,694.26	6,900.60	6,896.14	0.00	0.00	0.00
15,900.00	90.00	89.850	9,046.00	-1,694.00	7,000.60	6,996.14	0.00	0.00	0.00
16,000.00	90.00	89.850	9,046.00	-1,693.73	7,100.60	7,096.14	0.00	0.00	0.00
16,100.00	90.00	89.850	9,046.00	-1,693.47	7,200.60	7,196.14	0.00	0.00	0.00
16,200.00	90.00	89.850	9,046.00	-1,693.21	7,300.60	7,296.14	0.00	0.00	0.00
16,300.00	90.00	89.850	9,046.00	-1,692.95	7,400.60	7,396.14	0.00	0.00	0.00
16,400.00	90.00	89.850	9,046.00	-1,692.69	7,500.60	7,496.14	0.00	0.00	0.00
16,500.00	90.00	89.850	9,046.00	-1,692.42	7,600.60	7,596.14	0.00	0.00	0.00
16,600.00	90.00	89.850	9,046.00	-1,692.16	7,700.60	7,696.14	0.00	0.00	0.00
16,700.00	90.00	89.850	9,046.00	-1,691.90	7,800.60	7,796.14	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company:

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

Big Eddy Unit 28 QR - 32' RKB Site: Well: BIG EDDY UNIT 28 QR 106H

Wellbore: ОН Design: Plan 0 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,800.00	90.00	89.850	9,046.00	-1,691.64	7,900.60	7,896.14	0.00	0.00	0.00
16,900.00	90.00	89.850	9,046.00	-1,691.38	8,000.60	7,996.14	0.00	0.00	0.00
17,000.00 17,100.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,691.12 -1,690.85	8,100.60 8,200.60	8,096.14 8,196.14	0.00 0.00	0.00 0.00	0.00 0.00
17,100.00	90.00	89.850	9,046.00	-1,690.59	8,300.60	8.296.14	0.00	0.00	0.00
17,300.00	90.00	89.850	9,046.00	-1,690.33	8,400.59	8,396.14	0.00	0.00	0.00
17,400.00	90.00	89.850	9,046.00	-1,690.07	8,500.59	8,496.14	0.00	0.00	0.00
17,500.00 17,600.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,689.81 -1,689.54	8,600.59 8,700.59	8,596.14 8.696.14	0.00 0.00	0.00 0.00	0.00 0.00
17,700.00	90.00	89.850	9,046.00	-1,689.28	8,800.59	8,796.14	0.00	0.00	0.00
17,800.00	90.00	89.850	9,046.00	-1,689.02	8,900.59	8,896.14	0.00	0.00	0.00
17,900.00	90.00	89.850	9,046.00	-1,688.76	9,000.59	8,996.14	0.00	0.00	0.00
18,000.00	90.00	89.850	9,046.00	-1,688.50	9,100.59	9,096.14	0.00	0.00	0.00
18,100.00 18,200.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,688.23 -1,687.97	9,200.59 9,300.59	9,196.14 9,296.14	0.00 0.00	0.00 0.00	0.00 0.00
18,300.00	90.00	89.850	9,046.00	-1,687.71	9,400.59	9,396.14	0.00	0.00	0.00
18,400.00	90.00	89.850	9,046.00	-1,687.45	9,500.59	9,496.14	0.00	0.00	0.00
18,500.00	90.00	89.850	9,046.00	-1,687.19	9,600.59	9,596.14	0.00	0.00	0.00
18,600.00 18,700.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,686.93 -1,686.66	9,700.59 9,800.59	9,696.14 9,796.14	0.00 0.00	0.00 0.00	0.00 0.00
18,800.00	90.00	89.850	9,046.00	-1,686.40	9,900.59	9,796.14	0.00	0.00	0.00
18,900.00	90.00	89.850	9,046.00	-1,686.14	10,000.59	9,996.14	0.00	0.00	0.00
19,000.00	90.00	89.850	9,046.00	-1,685.88	10,100.59	10,096.14	0.00	0.00	0.00
19,100.00	90.00	89.850	9,046.00	-1,685.62	10,200.59	10,196.14	0.00	0.00	0.00
19,200.00 19,300.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,685.35 -1,685.09	10,300.59 10,400.59	10,296.14 10,396.14	0.00 0.00	0.00 0.00	0.00 0.00
19,400.00	90.00	89.850	9,046.00	-1,684.83	10,500.59	10,496.14	0.00	0.00	0.00
19,500.00	90.00	89.850	9,046.00	-1,684.57	10,600.59	10,596.14	0.00	0.00	0.00
19,600.00	90.00	89.850	9,046.00	-1,684.31	10,700.59 10,800.59	10,696.14	0.00	0.00	0.00
19,700.00 19,800.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,684.05 -1,683.78	10,800.59	10,796.14 10,896.14	0.00 0.00	0.00 0.00	0.00 0.00
19,900.00	90.00	89.850	9,046.00	-1,683.52	11,000.59	10,996.14	0.00	0.00	0.00
20,000.00	90.00	89.850	9,046.00	-1,683.26	11,100.59	11,096.14	0.00	0.00	0.00
20,100.00	90.00	89.850	9,046.00	-1,683.00	11,200.59 11,300.58	11,196.14	0.00	0.00	0.00
20,200.00 20,300.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,682.74 -1,682.47	11,400.58	11,296.14 11,396.14	0.00 0.00	0.00 0.00	0.00 0.00
20,400.00	90.00	89.850	9,046.00	-1,682.21	11,500.58	11,496.14	0.00	0.00	0.00
20,500.00	90.00	89.850	9,046.00	-1,681.95	11,600.58	11,596.14	0.00	0.00	0.00
20,600.00	90.00	89.850	9,046.00	-1,681.69	11,700.58	11,696.14	0.00	0.00	0.00
20,700.00 20,800.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,681.43 -1,681.17	11,800.58 11,900.58	11,796.14 11,896.14	0.00 0.00	0.00 0.00	0.00 0.00
20,900.00	90.00	89.850	9,046.00	-1,680.90	12,000.58	11,996.14	0.00	0.00	0.00
21,000.00	90.00	89.850	9,046.00	-1,680.64	12,100.58	12,096.14	0.00	0.00	0.00
21,100.00	90.00	89.850	9,046.00	-1,680.38	12,200.58	12,196.14	0.00	0.00	0.00
21,200.00 21,300.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,680.12 -1,679.86	12,300.58 12,400.58	12,296.14 12,396.14	0.00 0.00	0.00 0.00	0.00 0.00
21,400.00	90.00	89.850	9,046.00	-1,679.59	12,500.58	12,496.14	0.00	0.00	0.00
21,500.00	90.00	89.850	9,046.00	-1,679.33	12,600.58	12,596.14	0.00	0.00	0.00
21,600.00	90.00	89.850	9,046.00	-1,679.07	12,700.58	12,696.14	0.00	0.00	0.00
21,700.00 21,800.00	90.00 90.00	89.850 89.850	9,046.00 9,046.00	-1,678.81 -1,678.55	12,800.58 12,900.58	12,796.14 12,896.14	0.00 0.00	0.00 0.00	0.00 0.00
21,900.00	90.00	89.850	9,046.00	-1,678.29	13,000.58	12,996.14	0.00	0.00	0.00
22,000.00	90.00	89.850	9,046.00	-1,678.02	13,100.58	13,096.14	0.00	0.00	0.00

Database: EDM 5000.18 Single User Db

Company: ROC

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

 Site:
 Big Eddy Unit 28 QR - 32' RKB

 Well:
 BIG EDDY UNIT 28 QR 106H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

Minimum Curvature

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,100.00	90.00	89.850	9,046.00	-1,677.76	13,200.58	13,196.14	0.00	0.00	0.00
22,200.00	90.00	89.850	9,046.00	-1,677.50	13,300.58	13,296.14	0.00	0.00	0.00
22,300.00	90.00	89.850	9,046.00	-1,677.24	13,400.58	13,396.14	0.00	0.00	0.00
22,400.00	90.00	89.850	9,046.00	-1,676.98	13,500.58	13,496.14	0.00	0.00	0.00
22,500.00	90.00	89.850	9,046.00	-1,676.71	13,600.58	13,596.14	0.00	0.00	0.00
22,600.00	90.00	89.850	9,046.00	-1,676.45	13,700.58	13,696.14	0.00	0.00	0.00
22,700.00	90.00	89.850	9,046.00	-1,676.19	13,800.58	13,796.14	0.00	0.00	0.00
22,800.00	90.00	89.850	9,046.00	-1,675.93	13,900.58	13,896.14	0.00	0.00	0.00
22,900.00	90.00	89.850	9,046.00	-1,675.67	14,000.58	13,996.14	0.00	0.00	0.00
23,000.00	90.00	89.850	9,046.00	-1,675.41	14,100.58	14,096.14	0.00	0.00	0.00
23,100.00	90.00	89.850	9,046.00	-1,675.14	14,200.57	14,196.14	0.00	0.00	0.00
23,200.00	90.00	89.850	9,046.00	-1,674.88	14,300.57	14,296.14	0.00	0.00	0.00
23,300.00	90.00	89.850	9,046.00	-1,674.62	14,400.57	14,396.14	0.00	0.00	0.00
23,400.00	90.00	89.850	9,046.00	-1,674.36	14,500.57	14,496.14	0.00	0.00	0.00
23,500.00	90.00	89.850	9,046.00	-1,674.10	14,600.57	14,596.14	0.00	0.00	0.00
23,600.00	90.00	89.850	9,046.00	-1,673.83	14,700.57	14,696.14	0.00	0.00	0.00
23,700.00	90.00	89.850	9,046.00	-1,673.57	14,800.57	14,796.14	0.00	0.00	0.00
23,800.00	90.00	89.850	9,046.00	-1,673.31	14,900.57	14,896.14	0.00	0.00	0.00
23,900.00	90.00	89.850	9,046.00	-1,673.05	15,000.57	14,996.14	0.00	0.00	0.00
24,000.00	90.00	89.850	9,046.00	-1,672.79	15,100.57	15,096.14	0.00	0.00	0.00
24,100.00	90.00	89.850	9,046.00	-1,672.52	15,200.57	15,196.14	0.00	0.00	0.00
24,200.00	90.00	89.850	9,046.00	-1,672.26	15,300.57	15,296.14	0.00	0.00	0.00
24,300.00	90.00	89.850	9,046.00	-1,672.00	15,400.57	15,396.14	0.00	0.00	0.00
24,400.00	90.00	89.850	9,046.00	-1,671.74	15,500.57	15,496.14	0.00	0.00	0.00
24,500.00	90.00	89.850	9,046.00	-1,671.48	15,600.57	15,596.14	0.00	0.00	0.00
24,600.00	90.00	89.850	9,046.00	-1,671.22	15,700.57	15,696.14	0.00	0.00	0.00
24,700.00	90.00	89.850	9,046.00	-1,670.95	15,800.57	15,796.14	0.00	0.00	0.00
24,800.00	90.00	89.850	9,046.00	-1,670.69	15,900.57	15,896.14	0.00	0.00	0.00
24,900.00	90.00	89.850	9,046.00	-1,670.43	16,000.57	15,996.14	0.00	0.00	0.00
25,000.00	90.00	89.850	9,046.00	-1,670.17	16,100.57	16,096.14	0.00	0.00	0.00
25,064.33	90.00	89.850	9,046.00	-1,670.00	16,164.90	16,160.47	0.00	0.00	0.00
25,100.00	90.00	89.850	9,046.00	-1,669.91	16,200.57	16,196.14	0.00	0.00	0.00
25,114.33	90.00	89.850	9,046.00	-1,669.87	16,214.90	16,210.47	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL v3 - BEU 28 QR - plan misses targ - Point	0.00 et center by		9,046.00 25114.33u	,	16,214.90 6.00 TVD, -1	527,408.30 669.87 N, 16214.9	624,632.70 90 E)	32° 26' 57.516 N	103° 55' 45.496 W
FTP v3 - BEU 28 QR - plan misses targ - Point	0.00 et center by		9,046.00 at 9102.99	,	86.00 78.45 TVD, -	527,366.10 1674.57 N, 249.95	608,503.80 5 E)	32° 26' 57.663 N	103° 58' 53.723 W
LTP v3 - BEU 28 QR - plan hits target of		0.000	9,046.00	-1,670.00	16,164.90	527,408.20	624,582.70	32° 26' 57.516 N	103° 55' 46.079 W

- Point

Database: EDM 5000.18 Single User Db

Company: ROC

Project: Batman - Big Eddy Unit 33 & 28 - NAD 27

NME

 Site:
 Big Eddy Unit 28 QR - 32' RKB

 Well:
 BIG EDDY UNIT 28 QR 106H

Wellbore: OH
Design: Plan 0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

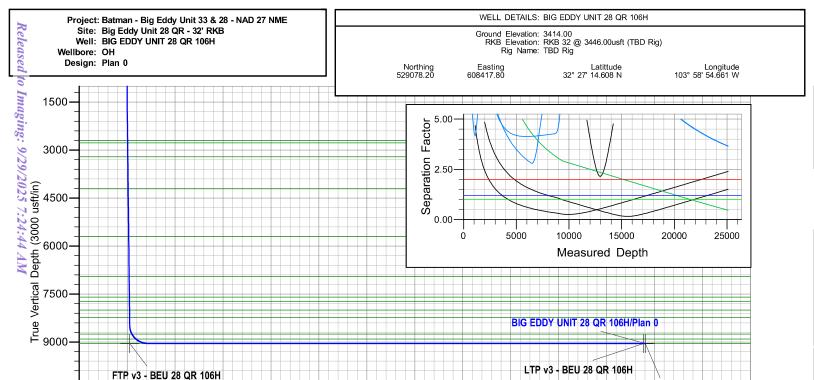
North Reference:

Survey Calculation Method:

Well BIG EDDY UNIT 28 QR 106H RKB 32 @ 3446.00usft (TBD Rig) RKB 32 @ 3446.00usft (TBD Rig)

Grid

Measured	Vertical				Dim
Depth	Depth			D:	Dip Direction
(usft)	(usft)	Name	Lithology	Dip (°)	(°)
301.00	301.00	Rustler			
526.00	526.00	Salado			
2,736.30	2,705.00	MB-126			
2,802.88	2,770.00	Base of Salt			
3,251.52	3,208.00	Delaware			
4,277.86	4,210.00	Cherry Canyon			
5,795.86	5,692.00	Brushy Canyon			
7,086.46	6,952.00	Bone Spring Lm.			
7,748.15	7,598.00	Lower Avalon			
7,877.21	7,724.00	1st Bone Spring Lime			
8,164.01	8,004.00	1st Bone Spring Sand			
8,399.60	8,234.00	2nd Bone Spring Lime			
8,939.24	8,750.00	2nd Bone Spring Sand			
9,142.46	8,905.00	2nd Bone Spring Mid Carb			
9,558.33	9,046.00	Landing			



10500

-1500

1500

3000

4500

6000

7500

9000



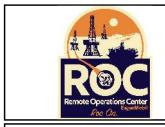
Name
BHL v3 - BEU 28 QR 106H
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-1669.90
16214.90
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624632.70
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-26 57.516 N
103° 55 45.496 W
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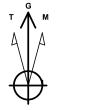
SECTION DETAILS												
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlea	TFace	VSect	Target			
0.00	0.00	0.000	0.00	0.00	0.00	0.0ŏ	0.00	0.00	o a			
1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00				
1625.14	12.50	176.914	1620.19	-67.84	3.66	2.00	176.91	3.48				
8664.69	12.50	176.914	8492.80	-1589.59	85.71	0.00	0.00	81.55				
9558.33	90.00	89.850	9046.00	-1710.60	658.95	10.00	-87.13	654.47				
25064.33	90.00	89.850	9046.00	-1670.00	16164.90	0.00	0.00	16160.47	LTP v3 - BEU 28 QR 106H			
25114.33	90.00	89.850	9046.00	-1669.87	16214.90	0.00	0.00	16210.47	BHL v3 - BEU 28 QR 106H			

Azimuths to Grid North

True North: -0.19° Magnetic North: 7.77°

Magnetic Field Strength: 48886.2nT Dip Angle: 60.38° Date: 12/31/2009 Model: IGRF200510





BHL v3 - BEU 28 QR 106H

16500 18000

19500

Formation	MDPath	TVDPath
Rustler	301.00	301.00
Salado	526.00	526.00
MB-126	2736.30	2705.00
Base of Salt	2802.88	2770.00
Delaware	3251.52	3208.00
Cherry Canyon	4277.86	4210.00
Brushy Canyon	5795.86	5692.00
Bone Spring Lm.	7086.46	6952.00
Lower Avalon	7748.15	7598.00
1st Bone Spring Lime	7877.21	7724.00
1st Bone Spring Sand	8164.01	8004.00
2nd Bone Spring Lime	8399.60	8234.00
2nd Bone Spring Sand	8939.24	8750.00
2nd Bone Spring Mid Carb	9142.46	8905.00
Landing	9558.33	9046.00

FORMATION TOP DETAILS

															V	er	tic	al	S	ec	tic	on	а	t 8	39.	.8	50	l° I	(30	00	0	us [,]	ft/i	in))																																					
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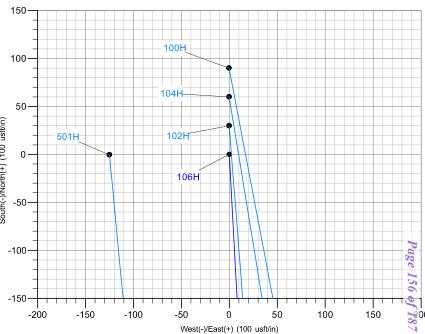
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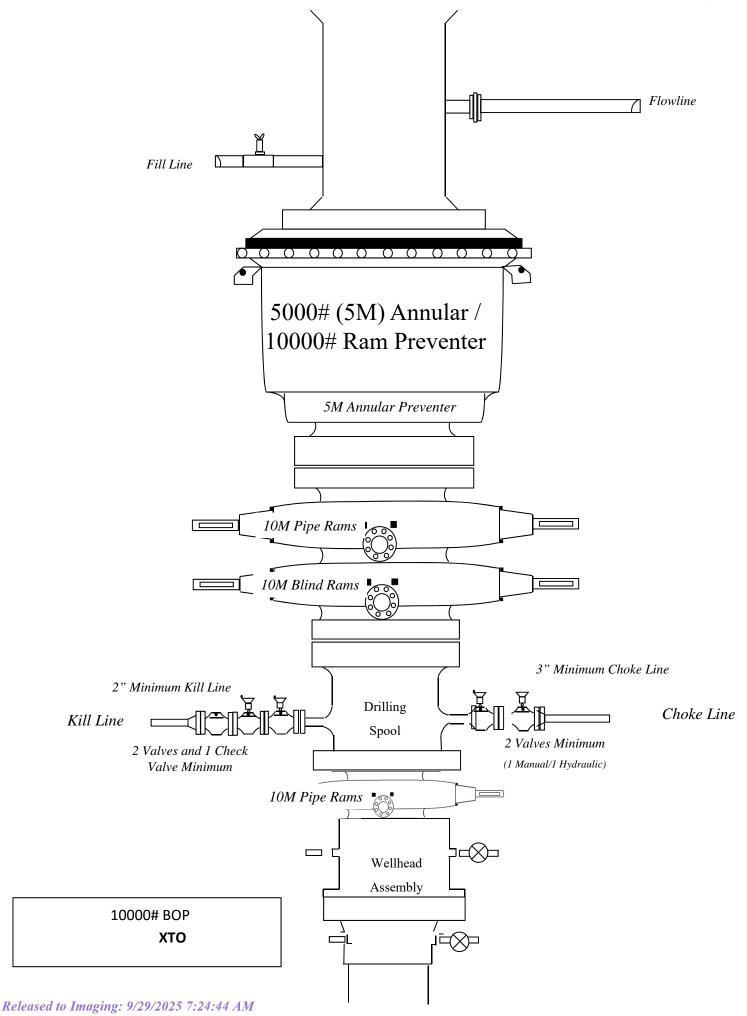
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12000

13500

15000





TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	683 x1000 lb
Min. Internal Yield Pressure	6890 psi
SMYS	80,000 psi
Collapse Pressure	5900 psi

Connection Data

Geometry	
Connection OD	7.625 in.
Connection ID	6.787 in.
Make-up Loss	3.704 in.
Threads per inch	3.28
Connection OD Option	Regular

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	417 x1000 lb
Internal Pressure Capacity	6890 psi
Compression Efficiency	73.80 %
Compression Strength	504 x1000 lb
Max. Allowable Bending	29.33 °/100 ft
External Pressure Capacity	5900 psi

Make-Up Torques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	35,000 ft-lb
Yield Torque	52,000 ft-lb

Notes

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TenarisHydril Wedge 511



Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	1068 x1000 lb
Min. Internal Yield Pressure	11,070 psi
SMYS	125,000 psi
Collapse Pressure	7360 psi

Connection Data

7.625 in.
6.787 in.
3.704 in.
328
Regular

Performance	
Tension Efficiency	61.10 %
Joint Yield Strength	653 x1000 lb
Internal Pressure Capacity	11,070 psi
Compression Efficiency	73.80 %
Compression Strength	788 x1000 lb
Max. Allowable Bending	45.83 °/100 ft
External Pressure Capacity	7360 psi

Make-Up Torques	
Minimum	5900 ft-lb
Optimum	7100 ft-lb
Maximum	10,300 ft-lb
Operation Limit Torques	
Operating Torque	55,000 ft-lb
Yield Torque	82,000 ft-lb

Notes

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 TPN^TM



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

Geometry	
Connection OD	6.300 in.
Coupling Length	8.408 in.
Connection ID	4.778 in.
Make-up Loss	4.204 in.
Threads per inch	5
Connection OD Option	Regular

100 %
641 x1000 lb
12,640 psi
100 %
641 x1000 lb
92 °/100 ft
11,100 psi

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Notes

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PI/CII



TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20.00 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	522 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	81.50 %
Compression Strength	522 x1000 lb
Max. Allowable Bending	72.59 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	32,000 ft-lb
Operating Torque Yield Torque	32,000 ft-lb
Yield Torque	

Notes

This connection is fully interchangeable with: Wedge 441® - 5.5 in. - 0.304 (17.00) in. (lb/ft) Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) / 0.415 (23.00) in. (lb/ft) Connections with Dopeless® Technology are fully compatible with the same connection in its doped version

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CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

ALL DIMENSIONS APPROXIMATE
XTO ENERGY INC
DELAWARE BASIN

DRAWN VJK 31MAR22
APPRV

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, 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." See Table C.4 below for reference.

1111		esting, Surface BOP Stacks		
Commonweaths he Decesion	Pressure Test—Low	Pressure Test—High Pressureac		
Component to be Pressure Tested	Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket	
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.	
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP	
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP	
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP	
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower		
Kelly, kelly valves, drill pipe safety valves, IBOPs				
 Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, the 	during the evaluation period. The persure tested on the largest and sm from one wellhead to another with when the integrity of a pressure se- ne ram BOPs shall be pressure tes-	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program. uired for pressure-containing ar the closing and locking pressur	

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

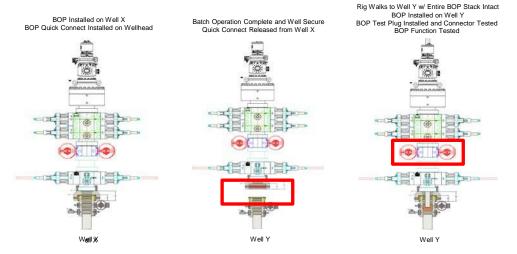
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



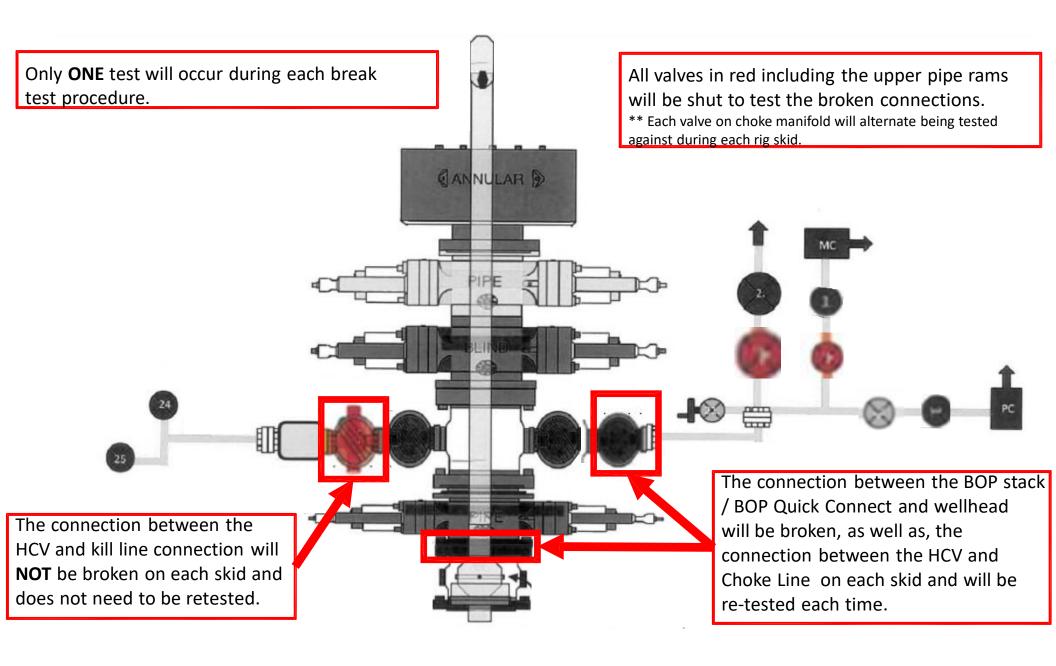
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.



XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



GATES ENGINEERING & SERVICES NORTH AMERICA

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NEW CHOKE HOSE

INSTAUED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	
-----------	--

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

74621 H3-012524-1

SIGNATURE: 7. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15/16





1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc. **TEST OBJECT**

Serial number: H3-012524-1

Lot number:

Production description: 74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference: 529480 FG1213

Hose ID: 3" 16C CK

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053 15000.00 psi Fitting 1:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold:

3600.00 sec Part number: Description:

Work pressure:

10000.00 psi

Fitting 2:

3.0 x 4-1/16 10K

Work pressure hold: Length difference:

Length difference:

900.00 0.00 0.00

sec % inch

Part number: Description:

Visual check:

Pressure test result:

PASS

Length measurement result:

Length:

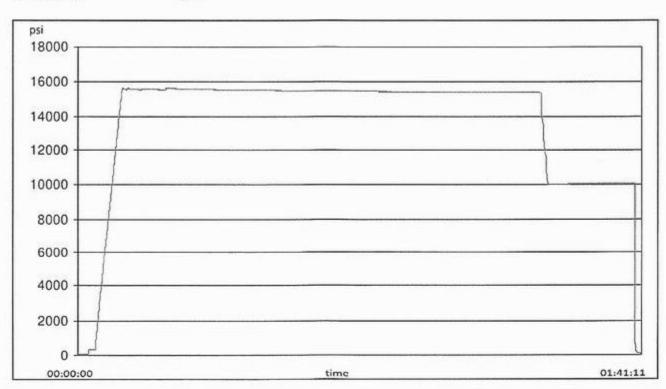
45

feet

n /n

Test operator:

Travis





H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

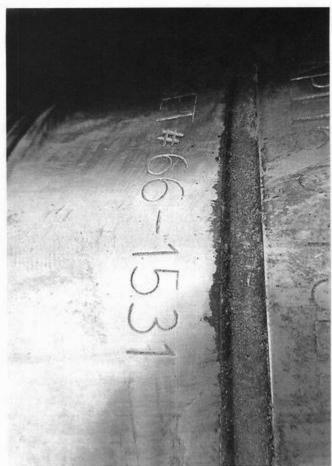
GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16
Comment			

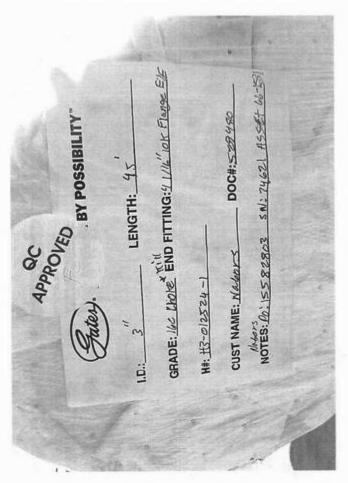


Released to Imaging: 9/29/2025 7:24:44 AM









Released to Imaging: 9/29/2025 7:24:44 AM

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

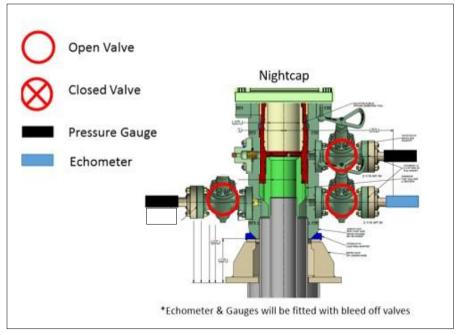
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

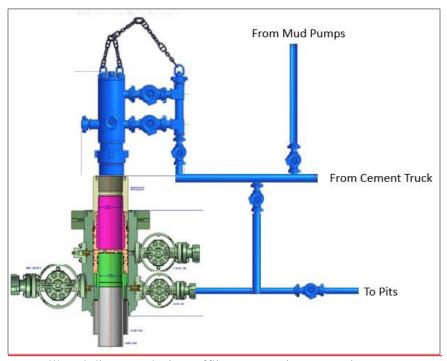
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

Received by OCD: 9/17/2025 6:47:39 PM



Offline Production Cementing

Delaware Basin | 18 March 2025

Energy lives here

Received by OCD: 9/17/2025 6:47:39 PM

Variance Request for Offline Production Cementing

Proposal: allow wells that meet set criteria to perform production casing cement jobs offline, consistent with ExxonMobil's extensive experience safely and effectively cementing production casing strings offline in Texas

Supporting Materials:

- Criteria for offline production cementing
- Proposed procedure
- Process and equipment
- Barrier comparison



Criteria for Offline Cementing

The following conditions must be met to proceed with offline production cementing on Wolfcamp target formations or shallower:

- a) Casing hanger successfully landed in the wellhead
- b) Ability to circulate overbalanced mud weight
- c) Initiate offline cementing operations within 24hr of landing casing
- d) All well control barriers test successfully and BLM notified of intent to perform offline production cementing prior to N/D BOP
- e) No offset frac operations within 1 mile and within the same target horizon
- f) Well Control certified ExxonMobil Operations Supervisor to be present during offline cementing operation to monitor returns
- g) Drill ahead operations will not begin on next well until offline production cement operations have concluded

Trigger to reevaluate plan

Offline Cementing Procedure

- 1. Land production casing hanger If casing hanger cannot be landed, cementing will be performed online
- 2. Flow check and confirm the well is static on the casing and annulus. If flow is observed, cementing will be performed online
- 3. Lay down landing joint
- 4. Install and test pack-off assembly
 - a) Pressure test the seal assembly per wellhead provider's procedure to confirm integrity to 250 / 10,000psi
- 5. Install back-pressure valve (BPV, rated to 10,000psi) in hanger per wellhead provider's procedure
- 6. Confirm the well is static
 - a) Flow indicates failure of hydrostatic barrier or mechanical barriers and underbalanced well conditions. If flow is observed, cementing will be performed online
 - b) Notify BLM of intent to proceed with nipple down and offline cementing
- 7. With the well secured and BLM notified; **nipple down BOP and skid rig** to next well on pad
 - a) Note, verify offline cementing criteria is met before N/D BOP. If unable to meet criteria, cement job will be performed online
- 8. Install and test gate valve
 - a) Test connection between wellhead adapter seals against hanger neck and ring gasket to 250 / 10,000 psi for 5 minutes
- Remove BPV from casing
- 10. Rig up cement head and cementing lines
- 11. **Perform production cement job** as per procedure
 - a) Confirm flowpath and valve alignment; default routing to take returns from casing upper side outlet valves \rightarrow offline cementing manifold \rightarrow shakers / pits
 - b) If elevated gas or flow trend observed, reroute returns through choke manifold for ability to hold backpressure to maintain well control and route mud returns to MGS
- 12. Confirm well is static and double floats are holding after cement job
 - a) If double floats do not hold, the well can be secured by closing gate valve or cement head or by holding and monitoring pressure at the cement truck while WOC
- 13. Rigdown surface equipment
 - a) Bleed any remaining line pressure and remove cement head
 - b) Install BPV per wellhead providers recommended procedure
 - c) Close upper casing side outlet valves, break and R/D offline cement lines
 - d) Remove 10M gate valve and wellhead adapter
- 14. Secure well
 - a) Install temporary abandonment cap

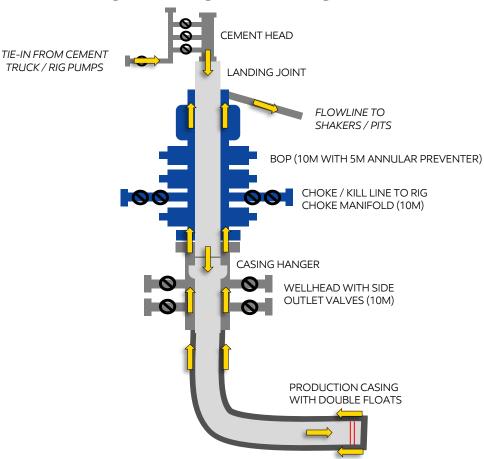


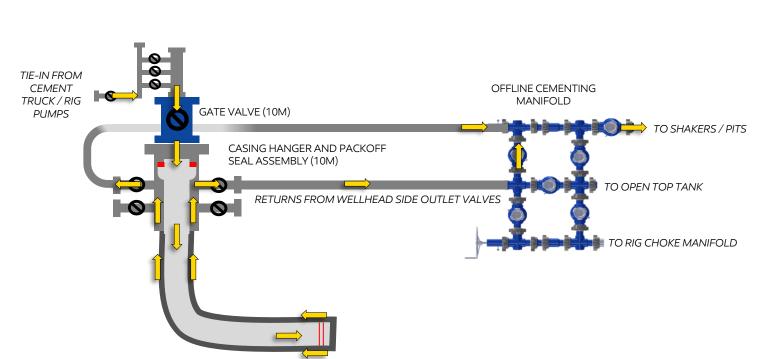
TRUCK / RIG PUMPS



Process and Equipment

ONLINE CEMENTING





OFFLINE CEMENTING

KEY DIFFERENCES

- 1. Rig BOP replaced by gate valve and WH adaptor assembly (10M rated)
- 2. Addition of offline cementing manifold and high pressure iron to direct fluid returns to rig active system and/or choke manifold
- Packoff annulus barrier in place and tested prior to cementing operations (10M rated)
- 4. Cement truck performs cement job displacement (vs rig pumps)



Barrier Comparison

	ONLINE		OFFLINE (PROPOSED)	
	Casing	Annulus	Casing	Annulus
N/D BOP & Skid Rig			 Hydrostatic Double float valves BPV 	 Hydrostatic Packoff
Install Cement Head	 Hydrostatic Double float valves 	 Hydrostatic BOP (annular, VBR) 	 Hydrostatic Double float valves Gate valve 	 Hydrostatic Packoff Wellhead Adaptor
Perform Cement Job	 Double float valves Cement Head 	 Hydrostatic BOP (annular, VBR) 	 Double float valves Cement Head Gate valve 	 Hydrostatic Packoff Wellhead Adaptor
Remove Cement Head	1. Double float valves	 Hydrostatic BOP (annular, VBR) 	 Double float valves Gate valve 	 Hydrostatic Packoff Wellhead Adaptor
N/D & Install TA Cap	 Double float valves BPV 	 Hydrostatic Packoff 	 Double float valves BPV 	 Hydrostatic Packoff

Well Control Response Plan

The following well control response plan for offline cementing is the same as for online cementing.

- 1. **Pre-job design:** Cement job designed to define max pump rates to reduce ECD and avoid losses during cement job.
- 2. Identify the influx / re-route return flow: If an influx is observed, the cementing manifold would be re-routed to direct flow to the rig choke manifold (instead of the shakers). If gas was encountered or a kick was detected, continue pumping the job through the rig choke / gas buster while controlling annulus back pressure through the rig choke. Shut the well in once the job is finished (to ensure cement does not set up inside casing). Roles & responsibilities are as follows:
 - Onsite well site representative responsible for monitoring and helping to identify if an influx occurred with support from the rig crews.
 - Rig crew responsible for shutting in the well.
 - Onsite well site representative responsible for operating the rig choke manifold.
- 3. Monitor pressure: If well is shut-in, pressure monitored while cement is building compressive strength.
- 4. Flow check: Once sufficient time is allocated to build compressive strength, perform flow check.
- 5. Shut-in: If annulus pressure / flow is observed, shut-in the well at the casing valves.
- 6. Kill the well: Pump kill weight mud or cement (depending on well conditions) via bradenhead squeeze down the annulus using the rig pumps tied into the cementing manifold or the cement truck.
- 7. Flow check: Flow check the well to confirm static.

ExonMobil

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

General Information Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 506925

ACKNOWLEDGMENTS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	506925
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

Phone: (505) 629-6116

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

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

CONDITIONS

Action 506925

CONDITIONS

Santa Fe, NM 87505

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	506925
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
slaghuvarapu	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/17/2025
slaghuvarapu	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/17/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/29/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/29/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/29/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/29/2025