Received by OCD: 8/24/2026 1:53:40 PM

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

Sundry Print Report

08/24/2026

Well Name: MORGAN 25-13 FED COM

Well Location: T25S / R31E / SEC 25 / SENE / 32.102277 / -103.724668

County or Parish/State: EDDY / NM

Well Number: 507H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062300

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001555754

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2923695

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 07/23/2026

Time Sundry Submitted: 11:52

Date proposed operation will begin: 07/23/2026

Procedure Description: Devon Energy Production Co., LP respectfully requests a NAME, SHL, BHL, DEPTH, FORMATION, DEDICATED ACREAGE and casing/drill plan change for the subject well (APD ID 10400099823). Devon also requests break testing and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted Well Name: MORGAN 25-13 FED COM 507H Proposed Well Name: MORGAN 25-13 FED COM 619H Permitted SHL: 2282 FNL, 500 FEL, Section 25, Township 25-S, Range 31-E, UL-H Proposed SHL: 2432 FNL, 410 FEL, Section 25, Township 25-S, Range 31-E, UL-H Permitted BHL: 20 FNL, 990 FEL, Section 13, Township 25-S, Range 31-E, UL-A Permitted BHL: 20 FNL, 1100 FEL, Section 13, Township 25-S, Range 31-E, UL-A Permitted Formation, TVD/MD: Bone Spring, 8,812’ / 21,965’ Proposed Formation, TVD/MD: Wolfcamp, 11,705’ / 24,650’ Permitted Dedicated Acreage: 400 Proposed Dedicated Acreage: 800

NOI Attachments

Procedure Description

WA022451840_MORGAN_25_13_FED_COM_619H_WL_R2_SIGNED_20260806130604.pdf

Offline_Production_Cement___WFMP___Shallower___BLM_v5__Coterra_Co_Branded__20260723115215.pdf

MORGAN_25_WP4_LAYOUT_20260723115209.pdf

Break_Testing_Variance___WFMP___Shallower___BLM_v5__Coterra_Co_Branded__20260723115209.pdf

8.625_32lb_P110_ICY_WEDGE_20260723115208.pdf

MORGAN_25_13_FED_COM_619H_Directional_Plan_07_16_2026_20260723115209.pdf

Released to Imaging: 9/18/2026 3:59:18 PM

Well Name: MORGAN 25-13 FED COM	**Well Location:** T25S / R31E / SEC 25 / SENE / 32.102277 / -103.724668	**County or Parish/State:** EDDY / NM
Well Number: 507H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMLC062300	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001555754	**Operator:** DEVON ENERGY PRODUCTION COMPANY LP	

5.5_20lb_P110_ICY_Wedge_441_20260723115208.pdf

MORGAN_25_13_FED_COM_619H_Drilling_Plan_07_16_2026_20260723115209.pdf

Conditions of Approval

Additional

Morgan_25_13_Fed_Com_619H_Dr_COA_20260810130824.pdf

Sundry_ID_2923695_Morgan_25_13_Fed_Com_619H_20260810130824.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: AMY BROWN **Signed on:** AUG 06, 2026 01:06 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY **State:** OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.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:** 08/20/2026

Signature: Chris Walls

Released to Imaging: 9/18/2026 3:59:18 PM

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Additional Remarks

Proposed Dedicated Acreage: 800

Location of Well

0. SHL: SENE / 2282 FNL / 500 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.102277 / LONG: -103.724668 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2538 FNL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101572 / LONG: -103.726252 (TVD: 8428 feet, MD: 8478 feet)

PPP: SESE / 198 FSL / 987 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.123601 / LONG: -103.7262215 (TVD: 8886 feet, MD: 16900 feet)

PPP: SENE / 2501 FNL / 988 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1161799 / LONG: -103.7262311 (TVD: 8927 feet, MD: 14200 feet)

PPP: SESE / 177 FSL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1090337 / LONG: -103.7262402 (TVD: 8965 feet, MD: 11600 feet)

BHL: NENE / 20 FNL / 990 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.137522 / LONG: -103.726204 (TVD: 8811 feet, MD: 21965 feet)

CONFIDENTIAL

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Devon Energy Production Company LP**
LOCATION:	Section 25, T.25 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	**Morgan 25-13 Fed Com 619H**
ATS/API ID:	**3001555754**
APD ID:	**10400099823**
Sundry ID:	**2923695**

COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Medium		
Cave/Karst Potential	☐ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String ☐ 5 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☑ COM	☑ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	☑ BOPE Break Testing ☑ Offline BOPE Testing	☑ Offline Cementing	☐ Casing Clearance

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 part 3170 Subpart 3176**, 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 **13-3/8** inch surface casing shall be set at approximately **1030 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **16** 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.

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

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

    Option 1 (Single Stage):

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

    Option 2:

    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 8200'.**

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. **(Squeeze 477 sxs Class C)**
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down **13-3/8**" X **8-5/8**" 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 **8-5/8**" 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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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.

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

3. 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.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
  Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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.

Option 1:

a. 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.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch 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 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**

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

Commercial Well Determination

- A commercial well determination shall be submitted after production has been established for at least six months if the well penetrate a federal exploratory unit acreage, in addition the unit number and participating area number shall be on the well sign when the well is determined to be a Unit well.
- 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.

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

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must tested to 100% working pressure and BOPE shall be tested to full Rated Pressure)**
- 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.
- The BLM is to be contacted 4 hours prior to BOPE tests at:
    - BLM_NM_CFO_DrillingNotifications@BLM.GOV
    - Secondary Contact: 575-361-2822
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections shallower than the deepest drilled intermediate on the well pad above 12,000 feet.
- 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).
- Annular preventer to be closed via soft shut-in when utilizing a variable pipe ram.

Production Break Testing Section: **permitted**

- Variance only pertains to the production hole-section shallower than the deepest drilled production on the well pad above 12,000 feet.
- A full BOPE test is required prior to drilling the first deep production hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between production lateral is allowable).

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at:

BLM_NM_CFO_DrillingNotifications@BLM.GOV or at the secondary contact number 575-361-2822.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval and Production intervals**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to offline BOPE testing at:

BLM_NM_CFO_DrillingNotifications@BLM.GOV or at the secondary contact number 575-361-2822.

GENERAL REQUIREMENTS

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

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

☑ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Long Vo (LVO) 8/10/2026

Morgan 25-13 Fed Com 619H

13 3/8	surface csg in a	16	inch hole.		Design Factors				Surface			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	j 55	btc	15.20	2.35	0.45	1,030	6	0.76	4.43	56,135
"B"			btc				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,462		Tail Cmt	does not	circ to sfc.	Totals:	1,030				56,135

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
16	0.4206	445	641	433	48	9.00	3590	5M	0.81

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

Site plat (pipe racks S or E) as per O.O.3.III.D.4.i. not found

8 5/8	casing inside the	13 3/8			Design Factors				Int 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	p 110	wedge 441	2.63	0.66	1.44	11,091	2	2.41	1.11	354,912
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,427					Totals:	11,091				354,912
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a		1030				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.1261	322	464	1745	-73	10.50	3802	5M	0.49
r D V Tool(s):			8200				sum of sx	Σ CuFt	Σ%excess
t by stage % :		27	13				799	2023	16

Class 'H' tail cmt yld > 1.20

Tail cmt

5 1/2	casing inside the	8 5/8			Design Factors				Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00	p 110	wedge 461	2.74	1.74	1.98	24,650	2	3.32	2.92	493,000
"B"							0				0
"C"							0				0
"D"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,570					Totals:	24,650				493,000
	The cement volume(s) are intended to achieve a top of			10891	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
7 7/8	0.1733	1898	2947	2385	24	10.50			0.91

Class 'C' tail cmt yld > 1.35

#N/A

0		5 1/2			Design Factors				<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:					Totals:	0				0
	Cmt vol calc below includes this csg, TOC intended			#N/A	ft from surface or a		#N/A				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A				

#N/A Capitan Reef est top XXXX.

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-55754	[98220]	PURPLE SAGE; WOLFCAMP GAS	
Property Code	**Property Name**		**Well Number**
336439	MORGAN 25-13 FED COM		619H
OGRID No.	**Operator Name**		**Ground Level Elevation**
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.		3339.5'
Surface Owner: ☐State ☐Fee ☐Tribal ☒Federal		**Mineral Owner:** ☐State ☐Fee ☐Tribal ☒Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	25	25-S	31-E		2432' N	410' E	32.101865	103.724378	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	13	25-S	31-E		20' N	1100' E	32.137522	103.726559	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
800.00	INFILL	30-015-55567	N	C
Order Numbers	PENDING NSL		**Well setbacks are under Common Ownership:** ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	25	25-S	31-E		2588' N	1100' E	32.101433	103.726607	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
H	25	25-S	31-E		2538' N	1100' E	32.101571	103.726607	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	13	25-S	31-E		100' N	1100' E	32.137302	103.726559	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒Horizontal ☐Vertical	Ground Floor Elevation:
N		N/A

OPERATOR CERTIFICATIONS

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Amy Brown 07/23/2026

Signature **Date**

AMY BROWN

Printed Name

AMY.BROWN@DVN.COM

Email Address

SURVEYOR CERTIFICATIONS

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

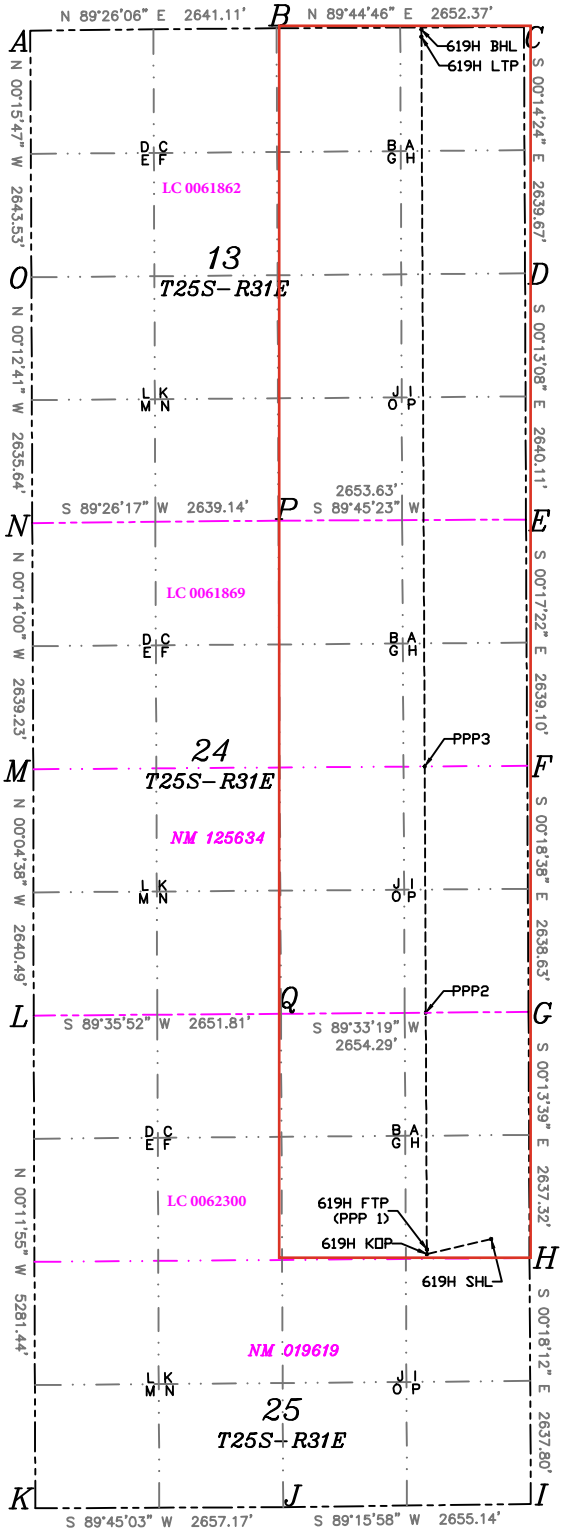
B. L. LAMAN NEW MEXICO 22404 PROFESSIONAL SURVEYOR

06/22/2026

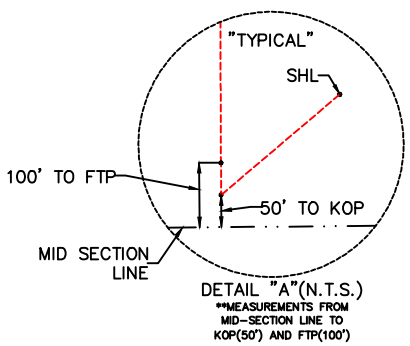
Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
22404	06/2026

SURFACE HOLE LOCATION GEODETIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION 2432' FNL 410' FEL SECTION 25 EL: 3339.5' N:401327.65/E:729898.95 LAT:32.101865/LON:103.724378
KICK OFF POINT 2588' FNL 1100' FEL SECTION 25 N:401166.70/E:729209.58 LAT:32.101433/LON:103.726607
FIRST TAKE POINT 2538' FNL 1100' FEL SECTION 25 N:401216.70/E:729209.38 LAT:32.101571/LON:103.726607
LAST TAKE POINT 100' FNL 1100' FEL SECTION 13 N:414215.36/E:729150.93 LAT:32.137302/LON:103.726559
BOTTOM HOLE LOCATION 20' FNL 1100' FEL SECTION 13 N:414295.36/E:729150.59 LAT:32.137522/LON:103.726559
PPP 2 0' FNL 1101' FEL SECTION 25 N:403754.29/E:729197.97 LAT:32.108546/LON:103.726598
PPP 3 2639' FSL 1099' FEL SECTION 24 N:406393.68/E:729186.10 LAT:32.115802/LON:103.726588



A=	N:414282.44	E:724957.17
B=	N:414308.48	E:727598.15
C=	N:414320.23	E:730250.50
D=	N:411680.59	E:730261.56
E=	N:409040.49	E:730271.65
F=	N:406401.43	E:730284.99
G=	N:403762.83	E:730299.28
H=	N:401125.54	E:730309.76
I=	N:398487.77	E:730323.72
J=	N:398453.76	E:727668.80
K=	N:398442.20	E:725011.65
L=	N:403723.61	E:724993.33
M=	N:406364.11	E:724989.78
N=	N:409003.32	E:724979.03
O=	N:411638.94	E:724969.31
P=	N:409029.21	E:727618.04
Q=	N:403742.23	E:727645.07



Received by OCD: 8/24/2026 1:53:40 PM

Devon Energy
Offline Prodction Cementing

10/2025
REV5



NYSE: DVN
devonenergy.com

COTERRA devon

Released to Imaging: 9/18/2026 3:59:18 PM

Offline Production Cementing Variance

Devon is respectfully pursuing a variance to the minimum standards to allow for the cementing of the Production Casing offline in the Wolfcamp and shallower producing horizons.

To ensure personnel safety and well integrity, strict eligibility requirements will be enforced, and a detailed procedure will be followed.

The following slides outline the eligibility requirements, offline procedure, schematics and pressure ratings.

Offline Production Eligibility

Offline Punch List:

The well must meet all criteria to qualify for offline cementing.

A) Well is in the Wolfcamp or shallower bench.
B) No unusual events were observed during drilling, tripping or casing operations.
C) Casing successfully landed out on casing hanger (fluted or solid).
D) Devon Company Men with Well Control certifications will monitor returns (bbl in / bbl out) to ensure well control is maintained.
E) Rig Manager will oversee the walking of the rig to the next well.
F) All barriers MUST test and at no point will there be less than 2 barriers in place.
G) No offset frac operations occurring within 1.0 mile in the same bench.
H) Once all criteria are met and BLM is notified, Devon may proceed with ND BOP and continue offline operations.

Note: Devon will *NOT* drill out the next deep intermediate until cementing on the offline well is complete.

Offline Procedure

- **Devon's Proposed Production Offline Procedure:**

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10M backpressure valves.
- Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
  - If well is not static, build pressure or acting abnormal in any way - abort offline operations.
- Install 10M packoff and test same. After successful test, engage locking ring and L/D running tool.
- Install 10M backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon Company Man and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.
- Install 10M Gate Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.

Offline Procedure

- **Devon's Proposed Production Offline Procedure (continued):**

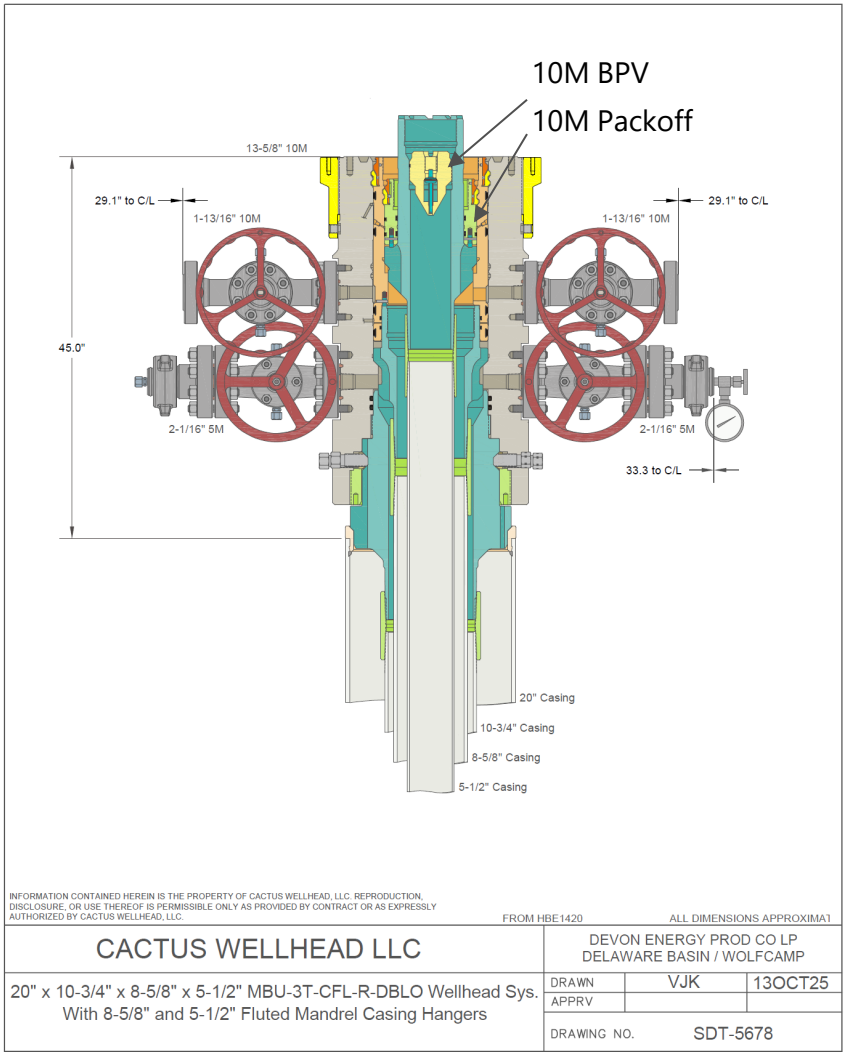
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.*
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.
- ***Note*** - If the well is within the KPLA, and an uncemented annulus between the Production and Intermediate casing has been utilized; then cement shall be squeezed down both casing valves within 180 days of the well's completion and displaced with a treated fresh water to a TOC below the potash interval and marker bed number 126, with a minimum of 500' tie-back inside the Intermediate Casing as per R111Q.

*Note – This hasn't been observed

Offline Procedure – Detailed

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10,000psi backpressure valves.
  - Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
- Install packoff rated to 10,000psi and test same. After successful test, engage locking ring and L/D running tool.
- Install backpressure valve in WH from rig floor.
  - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
  - If ANY barrier fails to test – the well will be cemented online.
  - Devon PIC and Devon Cementer will oversee Cementing Operations
  - Rig Manager will walk the rig to the next well.
  - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.

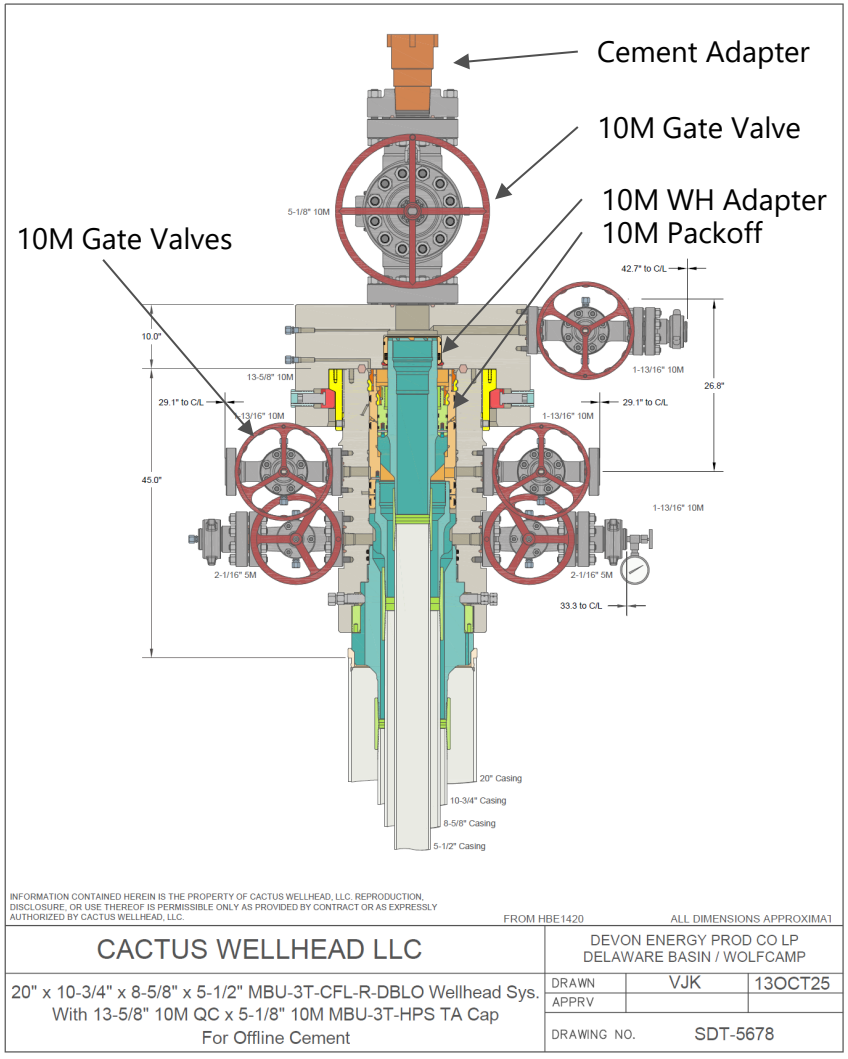
Casing Barrier	Rating	Backside Barrier	Rating
BPV	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi		



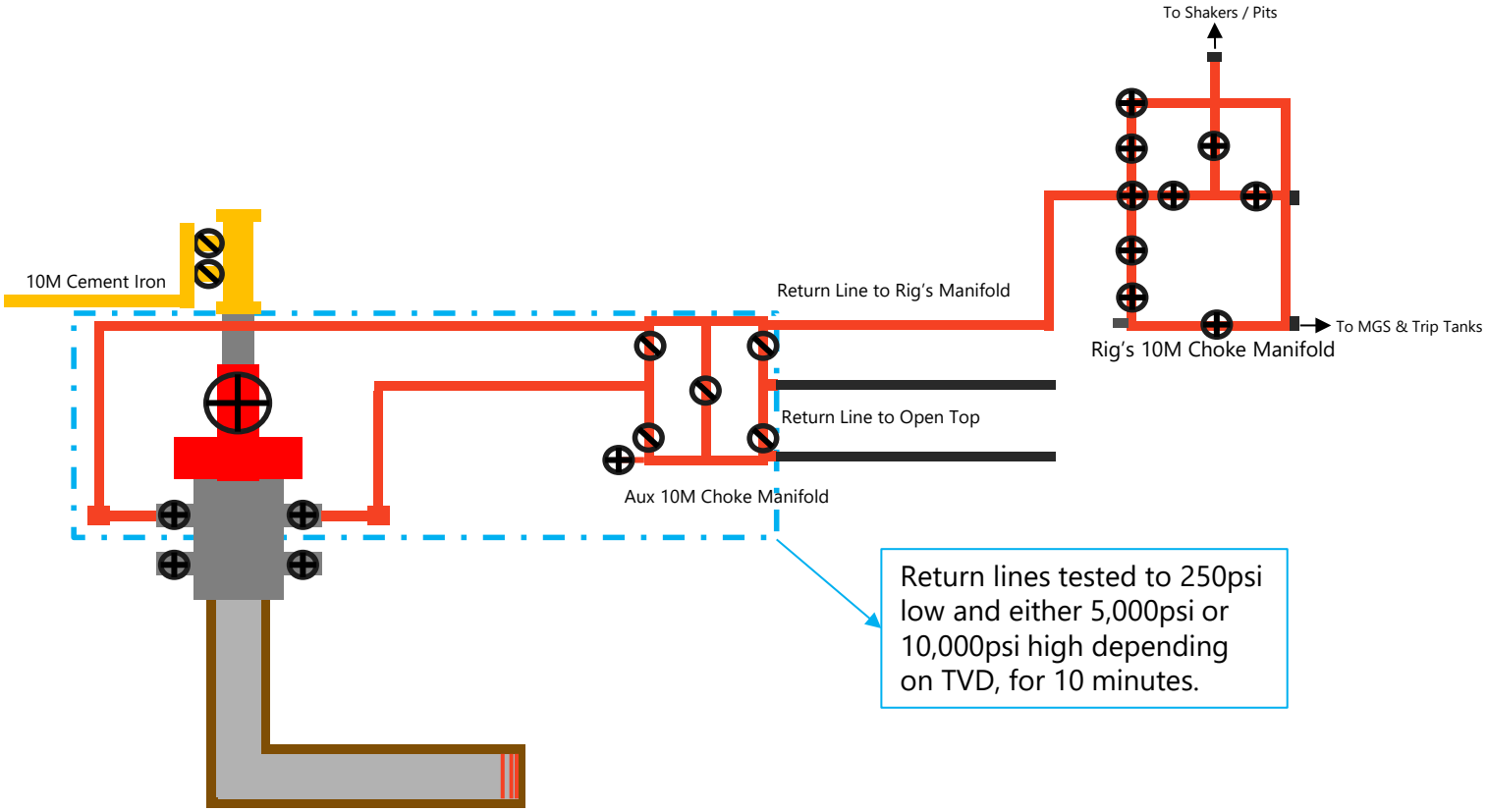
Offline Procedure – Detailed

- Install 10M Frac Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.
- Perform offline cement job.
- If an influx is observed during the cement job:
  - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
  - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.
- Bump plug and ensure floats are holding.
  - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.

Casing Barrier	Rating	Backside Barrier	Rating
Frac Valve	10,000psi	KWM	> BHP
KWM	> BHP	Packoff	10,000psi
Float Valves (x3)	10,000psi	WH Adapter	10,000psi
Cement Head	10,000psi		



Offline Flow Path



10M Valve / Choke

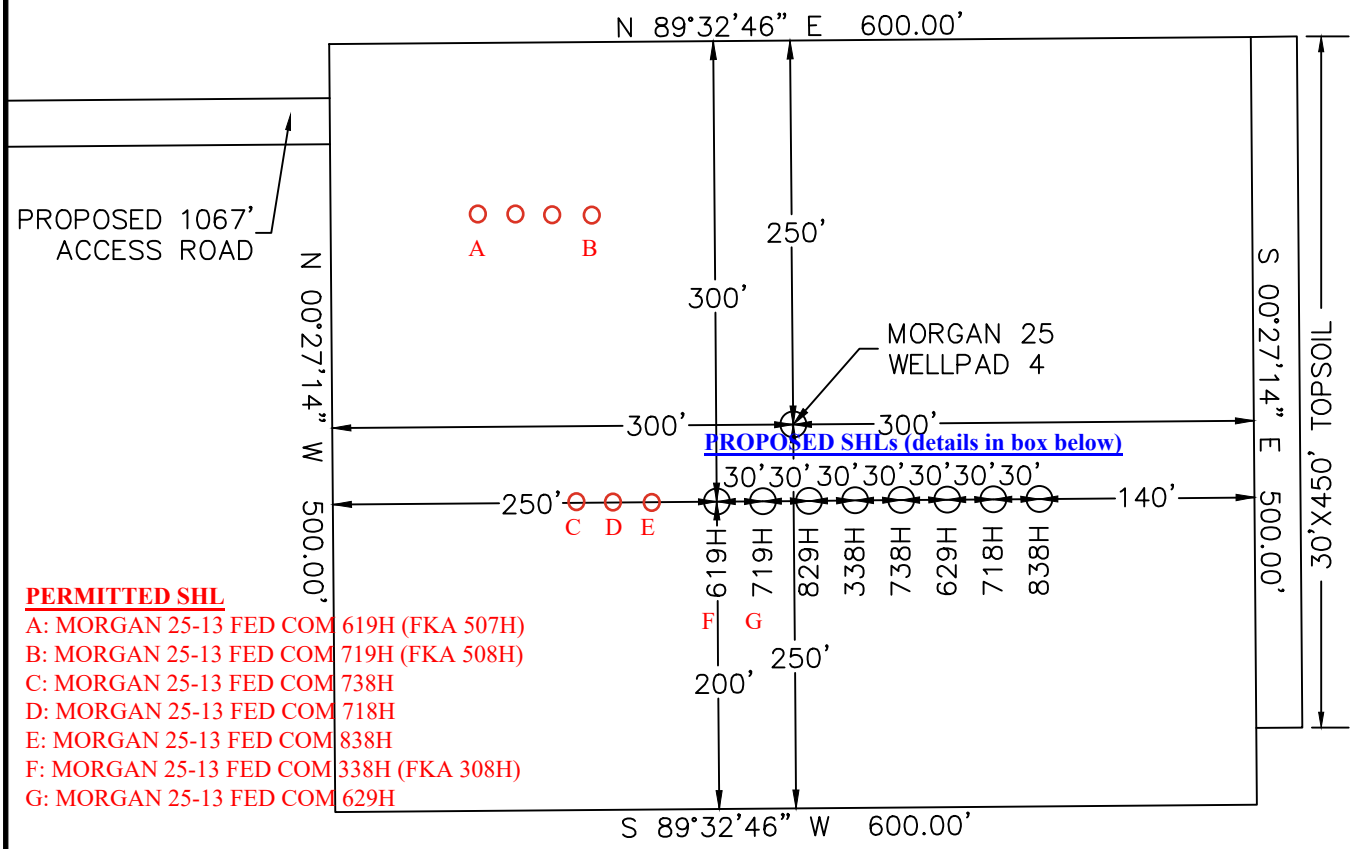
10M Low Torq

Note:
- All lines are 10M rated and tested to **5,000psi for wells less than 12,000' TVD**
- All lines are 10M rated and tested to **10,000psi for wells greater than 12,000' TVD**
- Minimum of 2 barriers in place at ALL times
- Never had to circulate out an influx during an Offline job

Thank you.

COTERRA devon

SECTION 25, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



PERMITTED SHL

A: MORGAN 25-13 FED COM 619H (FKA 507H)
B: MORGAN 25-13 FED COM 719H (FKA 508H)
C: MORGAN 25-13 FED COM 738H
D: MORGAN 25-13 FED COM 718H
E: MORGAN 25-13 FED COM 838H
F: MORGAN 25-13 FED COM 338H (FKA 308H)
G: MORGAN 25-13 FED COM 629H

MORGAN 25–13 FED COM 619H
2432' FNL 410' FEL SECTION 25
EL: 3339.5'
N: 401327.65/E: 729898.95

MORGAN 25–13 FED COM 719H
2432' FNL 380' FEL SECTION 25
EL: 3339.6'
N: 401327.89/E: 729928.95

MORGAN 25–13 FED COM 829H
2432' FNL 350' FEL SECTION 25
EL: 3341.5'
N: 401328.12/E: 729958.95

MORGAN 25–13 FED COM 338H
2432' FNL 320' FEL SECTION 25
EL: 3343.7'
N: 401328.35/E: 729988.95

MORGAN 25–13 FED COM 738H
2432' FNL 290' FEL SECTION 25
EL: 3344.3'
N: 401328.58/E: 730018.95

MORGAN 25–13 FED COM 629H
2432' FNL 260' FEL SECTION 25
EL: 3343.6'
N: 401328.82/E: 730048.95

MORGAN 25–13 FED COM 718H
2432' FNL 230' FEL SECTION 25
EL: 3344.0'
N: 401329.05/E: 730078.94

MORGAN 25–13 FED COM 838H
2432' FNL 200' FEL SECTION 25
EL: 3344.3'
N: 401329.28/E: 730108.94

B. L. LAMAN
NEW MEXICO
22404
PROFESSIONAL SURVEYOR
06/22/2026

0 125 250

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF J-1 (ORLA RD) AND PIPELINE ROAD, HEAD WEST ON PIPELINE ROAD FOR 1.8 MILES. TURN RIGHT ONTO AN EXISTING ACCESS ROAD AND HEAD NORTH FOR 2.8 MILES. TURN LEFT AND HEAD WEST ONTO AN EXISTING ACCESS ROAD FOR 1.2 MILES. TURN LEFT AND HEAD SOUTH THEN EAST 1067' ON PROPOSED ACCESS ROAD TO THE NORTHWEST CORNER OF THE MORGAN 25 WELLPAD 4.

HORIZON ROW LLC

DEVON ENERGY PRODUCTION CO., L.P.

Drawn by: JEANNIE WALKER
Date: 12/02/2023
Revision: 06/05/2026 BA

Drawn for: devon

Received by OCD: 8/24/2026 1:53:40 PM

BOPE Break Test Variance

2/2026
REV5



NYSE: DVN
devonenergy.com

COTERRA devon

Released to Imaging: 9/18/2026 3:59:18 PM

BOPE Break Test Variance (Less than 12,000' TVD)

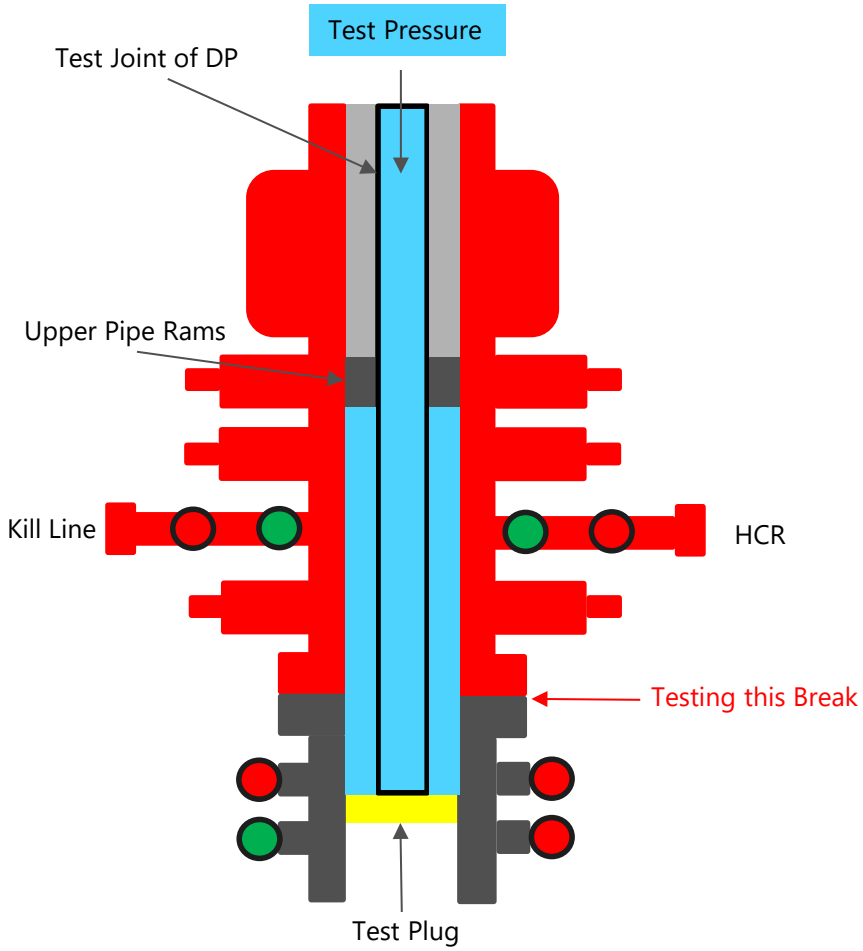
Devon is respectfully pursuing a variance to the minimum standards to allow a testing schedule of the blow out prevention equipment (BOPE) along with Stump Testing, Batch Drilling & Offline Cementing operations to include the following:

- Conduct a full 10k BOPE and 5k Annular test upon initial installation on the pad.
- If the rig has the ability to do a Stump Test, this is permitted for initial installation.
- Perform full BOPE tests every 21 days thereafter.
- Intermediate & Production Break-testing is permitted to the base of the Wolfcamp or shallower (limited to **12,000' TVD)**.
- Once the well is secured and BLM has been notified, disconnect the BOP and walk the rig to the next well on the pad.
  - If any unusual events occur during drilling, tripping, or casing operations, break-testing will not be performed
  - If offset fracturing is observed within 1.0 mile in the same producing horizon, break-testing in the production section will not be performed.
- Each rig requesting a break-test variance must be capable of picking up the BOP without damaging components, using winches and following API Standard 53 (Fifth Edition, December 2018, Annex C, Table C.4), which recognizes break-testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
  - Annular: During each full BOPE test and at least weekly.
  - Pipe Rams: On every trip and on trip-ins where a FIT is required.
  - Blind Rams: On every trip.
- Break-testing the BOP allows for offline cementing and/or remediation (if needed) of any surface, intermediate, or production sections, in accordance with the attached offline cementing support documentation.
- After securing the well section, disconnect the BOP from the wellhead and walk it with the rig to another well on the pad.
- Install a TA cap per Cactus Wellhead procedures and monitor casing pressure via the valve on the TA cap.

BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Outside Kill Line & HCR.
4. Open wellhead valve to ensure if pressure leaks past plug, it won't pressure up wellbore.
5. Tie into top of DP at Rig Floor. Fill with water and test Break + Pipe Rams to 250psi low and 10,000psi high.
6. Bleed off pressure.
7. Open Upper Pipe Rams, close wellhead valve and lay down test plug and DP.



Component Table:

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	X
Blind Rams		X		X
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X		X
Kill Line Check Valve		X		X
Inside Choke Valve		X		X
HCR		X	X	X
Kill Line	X			X
Annular		X		X
Choke Manifold Valves and Hose	X			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	X			X
Standpipe Valve	X			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing of components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular
Remaining well control equipment components will either be tested offline or online, per BLM approval
Remaining BOPE will be tested online within 72-hours rom completing the offline BOPE component testing
Notify the BLM if the online BOPE testing exceeds 72-hours
All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online
If a flex line is removed/broken, HCR will be left open and test against choke manifold valve to ensure break is tested.

Released to Imaging: 9/18/2026 3:59:18 PM

Thank you.

COTERRA devon

Printed on: 8/24/2026

Tenaris

TenarisHydril Wedge 441® - AD



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	8.625 in.	**Wall Thickness**	0.352 in.	**Grade**	P110-ICY
Min. Wall Thickness	90.00 %	**Pipe Body Drift**	Alternative Drift	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry

Nominal OD	8.625 in.	**Wall Thickness**	0.352 in.
Nominal Weight	32.00 lb/ft	**Plain End Weight**	31.13 lb/ft
Drift	7.875 in.	**OD Tolerance**	API
Nominal ID	7.921 in.		

Performance

Body Yield Strength	1144 x1000 lb
Min. Internal Yield Pressure	9180 psi
SMYS	125,000 psi
Collapse Pressure	4000 psi

Connection Data

Geometry

Connection OD	8.889 in.
Coupling Length	8.862 in.
Connection ID	7.921 in.
Make-up Loss	3.744 in.
Threads per inch	3.43
Connection OD Option	Regular

Performance

Tension Efficiency	81.20 %
Joint Yield Strength	929 x1000 lb
Internal Pressure Capacity	9180 psi
Compression Efficiency	81.20 %
Compression Strength	929 x1000 lb
Max. Allowable Bending	53.59 °/100 ft
External Pressure Capacity	4000 psi

Make-Up Torques

Minimum	23,000 ft-lb
Optimum	24,000 ft-lb
Maximum	27,000 ft-lb

Operation Limit Torques

Operating Torque	59,000 ft-lb
Yield Torque	70,000 ft-lb

Buck-On

Minimum	27,000 ft-lb
Maximum	29,000 ft-lb

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

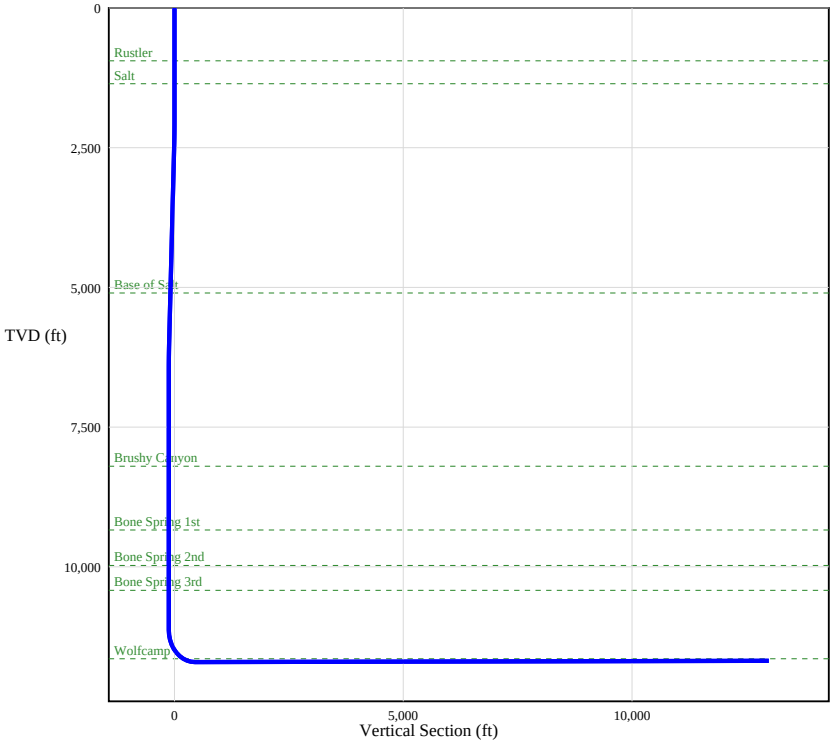
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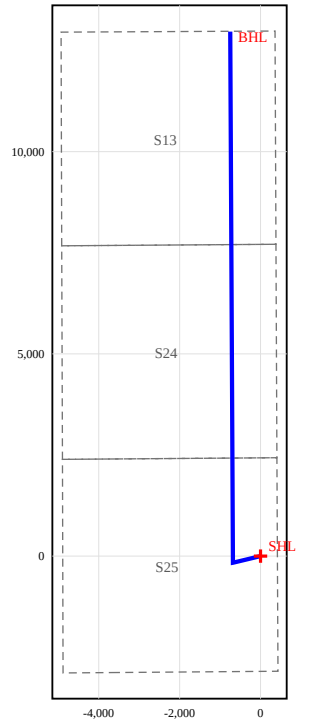
MORGAN 25-13 FED COM 619H

Well: MORGAN 25-13 FED COM 619H
County: EDDY
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Zone: NAD83 / NEW MEXICO EAST (FTUS) / US FOOT / EPSG:2257
Generated: 2026-07-16

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	Start Tangent
2,500.00	10.00	256.49	2,497.50	-10.20	-42.30	-7.70	2.00	Hold Tangent
6,040.17	10.00	256.49	5,983.90	-153.80	-640.00	-116.70	0.00	Drop to Vertical
6,540.17	0.00	0.00	6,481.30	-163.90	-682.40	-124.40	2.00	Hold Vertical
11,190.63	0.00	0.00	11,131.80	-163.90	-682.40	-124.40	0.00	KOP
12,091.72	90.11	359.71	11,704.70	410.10	-685.30	448.90	10.00	Landing Point
24,649.52	90.11	359.71	11,682.00	12,967.70	-748.80	12,989.30	0.00	BHL





Plan View — West(-)/East(+) vs South(-)/North(+) (ft, 1:1)

MORGAN 25-13 FED COM 619H

Key Depths	MD (ft)	TVD (ft)
Rustler	945.00	945.00
Salt	1,355.00	1,355.00
Base of Salt	5,142.70	5,100.00
Brushy Canyon	8,258.90	8,200.00
Bone Spring 1st	9,399.90	9,341.00
Bone Spring 2nd	10,034.90	9,976.00
Bone Spring 3rd	10,479.90	10,421.00
Wolfcamp	11,827.60	11,645.00

Kickoff Point	X (ft)	Y (ft)	MD (ft)	TVD (ft)
KOP	729,216.60	401,163.70	11,190.60	11,131.80

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.1019	-103.7244	2432' FNL, 410' FEL of Sec 25 in T25S, R31E
KOP	11,190.60	11,131.80	32.1014	-103.7266	2588' FNL, 1100' FEL of Sec 25 in T25S, R31E
FTP	11,461.00	11,392.20	32.1016	-103.7266	2538' FNL, 1100' FEL of Sec 25 in T25S, R31E
LTP	24,549.90	11,682.20	32.1373	-103.7266	100' FNL, 1100' FEL of Sec 13 in T25S, R31E
BHL	24,649.50	11,682.00	32.1375	-103.7266	20' FNL, 1100' FEL of Sec 13 in T25S, R31E

MORGAN 25-13 FED COM 619H

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	
945.00	0.00	0.00	945.00	0.00	0.00	0.00	0.00	Rustler
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	
1,355.00	0.00	0.00	1,355.00	0.00	0.00	0.00	0.00	Salt
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	Start Tangent
2,083.30	1.67	256.49	2,083.30	-0.30	-1.20	-0.20	2.00	
2,166.70	3.33	256.49	2,166.60	-1.10	-4.70	-0.90	2.00	
2,250.00	5.00	256.49	2,249.70	-2.50	-10.60	-1.90	2.00	
2,333.30	6.67	256.49	2,332.60	-4.50	-18.80	-3.40	2.00	
2,416.70	8.33	256.49	2,415.20	-7.10	-29.40	-5.40	2.00	
2,500.00	10.00	256.49	2,497.50	-10.20	-42.30	-7.70	2.00	Hold Tangent
2,598.30	10.00	256.49	2,594.30	-14.20	-58.90	-10.70	0.00	
2,696.70	10.00	256.49	2,691.20	-18.10	-75.50	-13.80	0.00	
2,795.00	10.00	256.49	2,788.00	-22.10	-92.10	-16.80	0.00	
2,893.30	10.00	256.49	2,884.80	-26.10	-108.70	-19.80	0.00	
2,991.70	10.00	256.49	2,981.70	-30.10	-125.30	-22.80	0.00	
3,090.00	10.00	256.49	3,078.50	-34.10	-141.90	-25.90	0.00	
3,188.40	10.00	256.49	3,175.40	-38.10	-158.50	-28.90	0.00	
3,286.70	10.00	256.49	3,272.20	-42.10	-175.20	-31.90	0.00	
3,385.00	10.00	256.49	3,369.10	-46.10	-191.80	-35.00	0.00	

MORGAN 25-13 FED COM 619H

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
3,483.40	10.00	256.49	3,465.90	-50.10	-208.40	-38.00	0.00	
3,581.70	10.00	256.49	3,562.80	-54.00	-225.00	-41.00	0.00	
3,680.10	10.00	256.49	3,659.60	-58.00	-241.60	-44.00	0.00	
3,778.40	10.00	256.49	3,756.40	-62.00	-258.20	-47.00	0.00	
3,876.70	10.00	256.49	3,853.30	-66.00	-274.80	-50.10	0.00	
3,975.10	10.00	256.49	3,950.10	-70.00	-291.40	-53.10	0.00	
4,073.40	10.00	256.49	4,047.00	-74.00	-308.00	-56.10	0.00	
4,171.80	10.00	256.49	4,143.80	-78.00	-324.60	-59.20	0.00	
4,270.10	10.00	256.49	4,240.70	-82.00	-341.20	-62.20	0.00	
4,368.40	10.00	256.49	4,337.50	-86.00	-357.80	-65.20	0.00	
4,466.80	10.00	256.49	4,434.40	-90.00	-374.40	-68.20	0.00	
4,565.10	10.00	256.49	4,531.20	-93.90	-391.00	-71.30	0.00	
4,663.40	10.00	256.49	4,628.00	-97.90	-407.60	-74.30	0.00	
4,761.80	10.00	256.49	4,724.90	-101.90	-424.20	-77.30	0.00	
4,860.10	10.00	256.49	4,821.70	-105.90	-440.80	-80.30	0.00	
4,958.40	10.00	256.49	4,918.60	-109.90	-457.40	-83.40	0.00	
5,056.80	10.00	256.49	5,015.40	-113.90	-474.00	-86.40	0.00	
5,142.70	10.00	256.49	5,100.08	-117.40	-488.51	-89.02	0.00	Base of Salt
5,155.10	10.00	256.49	5,112.30	-117.90	-490.60	-89.40	0.00	
5,253.50	10.00	256.49	5,209.10	-121.90	-507.20	-92.40	0.00	
5,351.80	10.00	256.49	5,305.90	-125.90	-523.80	-95.50	0.00	
5,450.10	10.00	256.49	5,402.80	-129.80	-540.40	-98.50	0.00	
5,548.50	10.00	256.49	5,499.60	-133.80	-557.00	-101.50	0.00	
5,646.80	10.00	256.49	5,596.50	-137.80	-573.60	-104.50	0.00	
5,745.20	10.00	256.49	5,693.30	-141.80	-590.20	-107.60	0.00	
5,843.50	10.00	256.49	5,790.20	-145.80	-606.90	-110.60	0.00	
5,941.80	10.00	256.49	5,887.00	-149.80	-623.50	-113.60	0.00	
6,040.20	10.00	256.49	5,983.90	-153.80	-640.00	-116.70	0.00	Drop to Vertical
6,123.50	8.33	256.49	6,066.10	-156.90	-653.00	-119.00	2.00	
6,206.80	6.67	256.49	6,148.70	-159.40	-663.50	-120.90	2.00	
6,290.20	5.00	256.49	6,231.60	-161.40	-671.80	-122.40	2.00	
6,373.50	3.33	256.49	6,314.80	-162.80	-677.70	-123.50	2.00	
6,456.80	1.67	256.49	6,398.00	-163.70	-681.20	-124.20	2.00	
6,540.20	0.00	0.00	6,481.30	-163.90	-682.40	-124.40	2.00	Hold Vertical
6,639.10	0.00	0.00	6,580.30	-163.90	-682.40	-124.40	0.00	
6,738.10	0.00	0.00	6,679.20	-163.90	-682.40	-124.40	0.00	
6,837.00	0.00	0.00	6,778.20	-163.90	-682.40	-124.40	0.00	
6,936.00	0.00	0.00	6,877.10	-163.90	-682.40	-124.40	0.00	

MORGAN 25-13 FED COM 619H

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
7,034.90	0.00	0.00	6,976.10	-163.90	-682.40	-124.40	0.00	
7,133.90	0.00	0.00	7,075.00	-163.90	-682.40	-124.40	0.00	
7,232.80	0.00	0.00	7,173.90	-163.90	-682.40	-124.40	0.00	
7,331.70	0.00	0.00	7,272.90	-163.90	-682.40	-124.40	0.00	
7,430.70	0.00	0.00	7,371.80	-163.90	-682.40	-124.40	0.00	
7,529.60	0.00	0.00	7,470.80	-163.90	-682.40	-124.40	0.00	
7,628.60	0.00	0.00	7,569.70	-163.90	-682.40	-124.40	0.00	
7,727.50	0.00	0.00	7,668.70	-163.90	-682.40	-124.40	0.00	
7,826.50	0.00	0.00	7,767.60	-163.90	-682.40	-124.40	0.00	
7,925.40	0.00	0.00	7,866.60	-163.90	-682.40	-124.40	0.00	
8,024.40	0.00	0.00	7,965.50	-163.90	-682.40	-124.40	0.00	
8,123.30	0.00	0.00	8,064.50	-163.90	-682.40	-124.40	0.00	
8,222.20	0.00	0.00	8,163.40	-163.90	-682.40	-124.40	0.00	
8,258.90	0.00	0.00	8,200.10	-163.90	-682.40	-124.40	0.00	Brushy Canyon
8,321.20	0.00	0.00	8,262.40	-163.90	-682.40	-124.40	0.00	
8,420.10	0.00	0.00	8,361.30	-163.90	-682.40	-124.40	0.00	
8,519.10	0.00	0.00	8,460.20	-163.90	-682.40	-124.40	0.00	
8,618.00	0.00	0.00	8,559.20	-163.90	-682.40	-124.40	0.00	
8,717.00	0.00	0.00	8,658.10	-163.90	-682.40	-124.40	0.00	
8,815.90	0.00	0.00	8,757.10	-163.90	-682.40	-124.40	0.00	
8,914.90	0.00	0.00	8,856.00	-163.90	-682.40	-124.40	0.00	
9,013.80	0.00	0.00	8,955.00	-163.90	-682.40	-124.40	0.00	
9,112.80	0.00	0.00	9,053.90	-163.90	-682.40	-124.40	0.00	
9,211.70	0.00	0.00	9,152.90	-163.90	-682.40	-124.40	0.00	
9,310.70	0.00	0.00	9,251.80	-163.90	-682.40	-124.40	0.00	
9,399.90	0.00	0.00	9,341.09	-163.90	-682.40	-124.40	0.00	Bone Spring 1st
9,409.60	0.00	0.00	9,350.80	-163.90	-682.40	-124.40	0.00	
9,508.50	0.00	0.00	9,449.70	-163.90	-682.40	-124.40	0.00	
9,607.50	0.00	0.00	9,548.60	-163.90	-682.40	-124.40	0.00	
9,706.40	0.00	0.00	9,647.60	-163.90	-682.40	-124.40	0.00	
9,805.40	0.00	0.00	9,746.50	-163.90	-682.40	-124.40	0.00	
9,904.30	0.00	0.00	9,845.50	-163.90	-682.40	-124.40	0.00	
10,003.30	0.00	0.00	9,944.40	-163.90	-682.40	-124.40	0.00	
10,034.90	0.00	0.00	9,976.03	-163.90	-682.40	-124.40	0.00	Bone Spring 2nd
10,102.20	0.00	0.00	10,043.40	-163.90	-682.40	-124.40	0.00	
10,201.20	0.00	0.00	10,142.30	-163.90	-682.40	-124.40	0.00	
10,300.10	0.00	0.00	10,241.30	-163.90	-682.40	-124.40	0.00	
10,399.10	0.00	0.00	10,340.20	-163.90	-682.40	-124.40	0.00	

MORGAN 25-13 FED COM 619H

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
10,479.90	0.00	0.00	10,421.08	-163.90	-682.40	-124.40	0.00	Bone Spring 3rd
10,498.00	0.00	0.00	10,439.20	-163.90	-682.40	-124.40	0.00	
10,597.00	0.00	0.00	10,538.10	-163.90	-682.40	-124.40	0.00	
10,695.90	0.00	0.00	10,637.00	-163.90	-682.40	-124.40	0.00	
10,794.90	0.00	0.00	10,736.00	-163.90	-682.40	-124.40	0.00	
10,893.80	0.00	0.00	10,834.90	-163.90	-682.40	-124.40	0.00	
10,992.70	0.00	0.00	10,933.90	-163.90	-682.40	-124.40	0.00	
11,091.70	0.00	0.00	11,032.80	-163.90	-682.40	-124.40	0.00	
11,190.60	0.00	0.00	11,131.80	-163.90	-682.40	-124.40	0.00	KOP
11,280.70	9.01	359.71	11,221.50	-156.90	-682.40	-117.30	10.00	
11,370.90	18.02	359.71	11,309.00	-135.80	-682.50	-96.30	10.00	
11,461.00	27.03	359.71	11,392.20	-101.30	-682.70	-61.90	10.00	
11,551.10	36.04	359.71	11,468.90	-54.30	-682.90	-14.80	10.00	
11,641.20	45.05	359.71	11,537.30	4.20	-683.20	43.60	10.00	
11,731.30	54.07	359.71	11,595.70	72.80	-683.60	112.00	10.00	
11,821.40	63.08	359.71	11,642.60	149.60	-684.00	188.70	10.00	
11,827.60	63.70	359.71	11,644.97	155.33	-684.03	194.42	10.00	Wolfcamp
11,911.50	72.09	359.71	11,677.00	232.80	-684.40	271.80	10.00	
12,001.60	81.10	359.71	11,697.80	320.40	-684.80	359.30	10.00	
12,091.70	90.11	359.71	11,704.70	410.10	-685.30	448.90	10.00	Landing Point
12,191.40	90.11	359.71	11,704.50	509.80	-685.80	548.40	0.00	
12,291.00	90.11	359.71	11,704.40	609.40	-686.30	648.00	0.00	
12,390.70	90.11	359.71	11,704.20	709.10	-686.80	747.50	0.00	
12,490.40	90.11	359.71	11,704.00	808.80	-687.30	847.00	0.00	
12,590.00	90.11	359.71	11,703.80	908.40	-687.80	946.50	0.00	
12,689.70	90.11	359.71	11,703.60	1,008.10	-688.30	1,046.10	0.00	
12,789.40	90.11	359.71	11,703.50	1,107.70	-688.80	1,145.60	0.00	
12,889.00	90.11	359.71	11,703.30	1,207.40	-689.30	1,245.10	0.00	
12,988.70	90.11	359.71	11,703.10	1,307.10	-689.80	1,344.60	0.00	
13,088.40	90.11	359.71	11,702.90	1,406.70	-690.30	1,444.20	0.00	
13,188.00	90.11	359.71	11,702.70	1,506.40	-690.80	1,543.70	0.00	
13,287.70	90.11	359.71	11,702.60	1,606.10	-691.30	1,643.20	0.00	
13,387.40	90.11	359.71	11,702.40	1,705.70	-691.80	1,742.80	0.00	
13,487.00	90.11	359.71	11,702.20	1,805.40	-692.30	1,842.30	0.00	
13,586.70	90.11	359.71	11,702.00	1,905.00	-692.80	1,941.80	0.00	
13,686.40	90.11	359.71	11,701.80	2,004.70	-693.40	2,041.30	0.00	
13,786.00	90.11	359.71	11,701.70	2,104.40	-693.90	2,140.90	0.00	
13,885.70	90.11	359.71	11,701.50	2,204.00	-694.40	2,240.40	0.00	

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13,985.40	90.11	359.71	11,701.30	2,303.70	-694.90	2,339.90	0.00	
14,085.00	90.11	359.71	11,701.10	2,403.40	-695.40	2,439.40	0.00	
14,184.70	90.11	359.71	11,700.90	2,503.00	-695.90	2,539.00	0.00	
14,284.40	90.11	359.71	11,700.80	2,602.70	-696.40	2,638.50	0.00	
14,384.00	90.11	359.71	11,700.60	2,702.40	-696.90	2,738.00	0.00	
14,483.70	90.11	359.71	11,700.40	2,802.00	-697.40	2,837.60	0.00	
14,583.40	90.11	359.71	11,700.20	2,901.70	-697.90	2,937.10	0.00	
14,683.00	90.11	359.71	11,700.00	3,001.30	-698.40	3,036.60	0.00	
14,782.70	90.11	359.71	11,699.90	3,101.00	-698.90	3,136.10	0.00	
14,882.30	90.11	359.71	11,699.70	3,200.70	-699.40	3,235.70	0.00	
14,982.00	90.11	359.71	11,699.50	3,300.30	-699.90	3,335.20	0.00	
15,081.70	90.11	359.71	11,699.30	3,400.00	-700.40	3,434.70	0.00	
15,181.30	90.11	359.71	11,699.10	3,499.70	-700.90	3,534.20	0.00	
15,281.00	90.11	359.71	11,699.00	3,599.30	-701.40	3,633.80	0.00	
15,380.70	90.11	359.71	11,698.80	3,699.00	-701.90	3,733.30	0.00	
15,480.30	90.11	359.71	11,698.60	3,798.70	-702.40	3,832.80	0.00	
15,580.00	90.11	359.71	11,698.40	3,898.30	-702.90	3,932.30	0.00	
15,679.70	90.11	359.71	11,698.20	3,998.00	-703.40	4,031.90	0.00	
15,779.30	90.11	359.71	11,698.10	4,097.60	-703.90	4,131.40	0.00	
15,879.00	90.11	359.71	11,697.90	4,197.30	-704.50	4,230.90	0.00	
15,978.70	90.11	359.71	11,697.70	4,297.00	-705.00	4,330.40	0.00	
16,078.30	90.11	359.71	11,697.50	4,396.60	-705.50	4,430.00	0.00	
16,178.00	90.11	359.71	11,697.30	4,496.30	-706.00	4,529.50	0.00	
16,277.70	90.11	359.71	11,697.20	4,596.00	-706.50	4,629.00	0.00	
16,377.30	90.11	359.71	11,697.00	4,695.60	-707.00	4,728.60	0.00	
16,477.00	90.11	359.71	11,696.80	4,795.30	-707.50	4,828.10	0.00	
16,576.70	90.11	359.71	11,696.60	4,895.00	-708.00	4,927.60	0.00	
16,676.30	90.11	359.71	11,696.40	4,994.60	-708.50	5,027.10	0.00	
16,776.00	90.11	359.71	11,696.30	5,094.30	-709.00	5,126.70	0.00	
16,875.70	90.11	359.71	11,696.10	5,193.90	-709.50	5,226.20	0.00	
16,975.30	90.11	359.71	11,695.90	5,293.60	-710.00	5,325.70	0.00	
17,075.00	90.11	359.71	11,695.70	5,393.30	-710.50	5,425.20	0.00	
17,174.60	90.11	359.71	11,695.50	5,492.90	-711.00	5,524.80	0.00	
17,274.30	90.11	359.71	11,695.30	5,592.60	-711.50	5,624.30	0.00	
17,374.00	90.11	359.71	11,695.20	5,692.30	-712.00	5,723.80	0.00	
17,473.60	90.11	359.71	11,695.00	5,791.90	-712.50	5,823.40	0.00	
17,573.30	90.11	359.71	11,694.80	5,891.60	-713.00	5,922.90	0.00	
17,673.00	90.11	359.71	11,694.60	5,991.30	-713.50	6,022.40	0.00	

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17,772.60	90.11	359.71	11,694.40	6,090.90	-714.00	6,121.90	0.00	
17,872.30	90.11	359.71	11,694.30	6,190.60	-714.50	6,221.50	0.00	
17,972.00	90.11	359.71	11,694.10	6,290.20	-715.00	6,321.00	0.00	
18,071.60	90.11	359.71	11,693.90	6,389.90	-715.50	6,420.50	0.00	
18,171.30	90.11	359.71	11,693.70	6,489.60	-716.00	6,520.10	0.00	
18,271.00	90.11	359.71	11,693.50	6,589.20	-716.50	6,619.60	0.00	
18,370.60	90.11	359.71	11,693.40	6,688.90	-717.10	6,719.10	0.00	
18,470.30	90.11	359.71	11,693.20	6,788.60	-717.60	6,818.60	0.00	
18,570.00	90.11	359.71	11,693.00	6,888.20	-718.10	6,918.20	0.00	
18,669.60	90.11	359.71	11,692.80	6,987.90	-718.60	7,017.70	0.00	
18,769.30	90.11	359.71	11,692.60	7,087.60	-719.10	7,117.20	0.00	
18,869.00	90.11	359.71	11,692.50	7,187.20	-719.60	7,216.70	0.00	
18,968.60	90.11	359.71	11,692.30	7,286.90	-720.10	7,316.30	0.00	
19,068.30	90.11	359.71	11,692.10	7,386.60	-720.60	7,415.80	0.00	
19,167.90	90.11	359.71	11,691.90	7,486.20	-721.10	7,515.30	0.00	
19,267.60	90.11	359.71	11,691.70	7,585.90	-721.60	7,614.90	0.00	
19,367.30	90.11	359.71	11,691.60	7,685.50	-722.10	7,714.40	0.00	
19,466.90	90.11	359.71	11,691.40	7,785.20	-722.60	7,813.90	0.00	
19,566.60	90.11	359.71	11,691.20	7,884.90	-723.10	7,913.40	0.00	
19,666.30	90.11	359.71	11,691.00	7,984.50	-723.60	8,013.00	0.00	
19,765.90	90.11	359.71	11,690.80	8,084.20	-724.10	8,112.50	0.00	
19,865.60	90.11	359.71	11,690.70	8,183.90	-724.60	8,212.00	0.00	
19,965.30	90.11	359.71	11,690.50	8,283.50	-725.10	8,311.50	0.00	
20,064.90	90.11	359.71	11,690.30	8,383.20	-725.60	8,411.10	0.00	
20,164.60	90.11	359.71	11,690.10	8,482.90	-726.10	8,510.60	0.00	
20,264.30	90.11	359.71	11,689.90	8,582.50	-726.60	8,610.10	0.00	
20,363.90	90.11	359.71	11,689.80	8,682.20	-727.10	8,709.60	0.00	
20,463.60	90.11	359.71	11,689.60	8,781.80	-727.60	8,809.20	0.00	
20,563.20	90.11	359.71	11,689.40	8,881.50	-728.10	8,908.70	0.00	
20,662.90	90.11	359.71	11,689.20	8,981.20	-728.70	9,008.20	0.00	
20,762.60	90.11	359.71	11,689.00	9,080.80	-729.20	9,107.80	0.00	
20,862.20	90.11	359.71	11,688.90	9,180.50	-729.70	9,207.30	0.00	
20,961.90	90.11	359.71	11,688.70	9,280.20	-730.20	9,306.80	0.00	
21,061.60	90.11	359.71	11,688.50	9,379.80	-730.70	9,406.30	0.00	
21,161.20	90.11	359.71	11,688.30	9,479.50	-731.20	9,505.90	0.00	
21,260.90	90.11	359.71	11,688.10	9,579.10	-731.70	9,605.40	0.00	
21,360.60	90.11	359.71	11,688.00	9,678.80	-732.20	9,704.90	0.00	
21,460.20	90.11	359.71	11,687.80	9,778.50	-732.70	9,804.50	0.00	

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21,559.90	90.11	359.71	11,687.60	9,878.10	-733.20	9,904.00	0.00	
21,659.60	90.11	359.71	11,687.40	9,977.80	-733.70	10,003.50	0.00	
21,759.20	90.11	359.71	11,687.20	10,077.50	-734.20	10,103.00	0.00	
21,858.90	90.11	359.71	11,687.10	10,177.10	-734.70	10,202.60	0.00	
21,958.60	90.11	359.71	11,686.90	10,276.80	-735.20	10,302.10	0.00	
22,058.20	90.11	359.71	11,686.70	10,376.50	-735.70	10,401.60	0.00	
22,157.90	90.11	359.71	11,686.50	10,476.10	-736.20	10,501.10	0.00	
22,257.60	90.11	359.71	11,686.30	10,575.80	-736.70	10,600.70	0.00	
22,357.20	90.11	359.71	11,686.10	10,675.50	-737.20	10,700.20	0.00	
22,456.90	90.11	359.71	11,686.00	10,775.10	-737.70	10,799.70	0.00	
22,556.60	90.11	359.71	11,685.80	10,874.80	-738.20	10,899.20	0.00	
22,656.20	90.11	359.71	11,685.60	10,974.40	-738.80	10,998.80	0.00	
22,755.90	90.11	359.71	11,685.40	11,074.10	-739.20	11,098.30	0.00	
22,855.50	90.11	359.71	11,685.20	11,173.80	-739.80	11,197.80	0.00	
22,955.20	90.11	359.71	11,685.10	11,273.40	-740.30	11,297.40	0.00	
23,054.90	90.11	359.71	11,684.90	11,373.10	-740.80	11,396.90	0.00	
23,154.50	90.11	359.71	11,684.70	11,472.80	-741.30	11,496.40	0.00	
23,254.20	90.11	359.71	11,684.50	11,572.40	-741.80	11,595.90	0.00	
23,353.90	90.11	359.71	11,684.30	11,672.10	-742.30	11,695.50	0.00	
23,453.50	90.11	359.71	11,684.20	11,771.80	-742.80	11,795.00	0.00	
23,553.20	90.11	359.71	11,684.00	11,871.40	-743.30	11,894.50	0.00	
23,652.90	90.11	359.71	11,683.80	11,971.10	-743.80	11,994.00	0.00	
23,752.50	90.11	359.71	11,683.60	12,070.70	-744.30	12,093.60	0.00	
23,852.20	90.11	359.71	11,683.40	12,170.40	-744.80	12,193.10	0.00	
23,951.90	90.11	359.71	11,683.30	12,270.10	-745.30	12,292.60	0.00	
24,051.50	90.11	359.71	11,683.10	12,369.70	-745.80	12,392.10	0.00	
24,151.20	90.11	359.71	11,682.90	12,469.40	-746.30	12,491.70	0.00	
24,250.90	90.11	359.71	11,682.70	12,569.10	-746.80	12,591.20	0.00	
24,350.50	90.11	359.71	11,682.50	12,668.70	-747.30	12,690.70	0.00	
24,450.20	90.11	359.71	11,682.40	12,768.40	-747.80	12,790.30	0.00	
24,549.90	90.11	359.71	11,682.20	12,868.00	-748.30	12,889.80	0.00	LTP
24,649.50	90.11	359.71	11,682.00	12,967.70	-748.80	12,989.30	0.00	BHL

Tenaris

TenarisHydril Wedge 441®



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	5.500 in.	**Wall Thickness**	0.361 in.	**Grade**	P110-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	**Wall Thickness**	0.361 in.	**Body Yield Strength**	729 x1000 lb
Nominal Weight	20.00 lb/ft	**Plain End Weight**	19.83 lb/ft	**Min. Internal Yield Pressure**	14,360 psi
Drift	4.653 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	4.778 in.			**Collapse Pressure**	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.852 in.	**Tension Efficiency**	81.50 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	594 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.778 in.	**Internal Pressure Capacity**	14,360 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	81.50 %		
Threads per inch	3.40	**Compression Strength**	594 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	82.06 °/100 ft	**Operating Torque**	36,000 ft-lb
		External Pressure Capacity	12,300 psi	**Yield Torque**	42,000 ft-lb
				Buck-On	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

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

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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1. Geologic Formations

TVD of target	11705	Pilot hole depth	N/A
MD at TD:	24650	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	945		
Salt	1355		
Base of Salt	5100		
Brushy Canyon	8200		
Bone Spring 1st	9341		
Bone Spring 2nd	9976		
Bone Spring 3rd	10421		
Wolfcamp	11645		

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
16	13 3/8	54 1/2	J55	BTC	0	1,015	0	1,015
9 7/8	8 5/8	32	P110ICY	WEDGE 441	0	11,091	0	11,032
7 7/8	5 1/2	20	P110ICY	WEDGE 461 WF	0	24,650	0	11,682

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.
•Devon respectfully requests a hole size change from 17-1/2” to 16”. Casing size will not change. If cement does not circulate to surface, remediation will be done with an appropriately sized tubing to meet radial clearance requirements

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	445	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	414	Surf	9.0	3.27	2nd Stage: Bradenhead Squeeze - Lead: Class C Cement + additives
	322	8,259	13.2	1.44	Tail: Class C Cement + additives
Production	117	9,191	9.0	3.27	Lead: Class C Cement + additives
	1781	11,191	13.2	1.44	Tail: Class H Cement + additives

Assuming no returns are established while drilling, Devon 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 Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

Casing String	% Excess
Surface	50%
Int 1	30%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	100% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested to run a 5 M annular on a 10M system

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

	Additional logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	6391
Abnormal temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? **Potentially**
1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? **Potentially**
1 Spudder rig will move in and batch drill surface hole.
a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pad.
6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments
X Directional Plan
___ Other, describe

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

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

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 617078
	Action Type: [C-103A] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	9/18/2026
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	9/18/2026