

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

Well Name: STEEL GUITAR 35-26
FED COM

Well Location: T26S / R29E / SEC 26 /
NENE / 32.0179418 / -103.9491028

County or Parish/State: EDDY /
NM

Well Number: 325H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM41646

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001555936

Operator: WPX ENERGY PERMIAN
LLC

Notice of Intent

Sundry ID: 2886912

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/15/2025

Time Sundry Submitted: 03:40

Date proposed operation will begin: 12/19/2025

Procedure Description: WPX Energy Permian, LLC respectfully requests a name, formation, BHL move, and drill plan (casing) change for the subject well. WPX also requests break test and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted Name: Steel Guitar 35-26 Fed Com 325H Proposed Name: Steel Guitar 35-26 Fed Com 470H Permitted Formation: Bone Spring / [98220] WC-015 G-03 S262925D; Bone Spring Proposed Formation: Wolfcamp / [98220] Purple Sage; Wolfcamp Permitted BHL: Lot 12, 1769 FNL, 630 FEL, 35-26S-29E Proposed BHL: Lot 11, 50 FSL, 2555 FEL, 35-26S-29E

NOI Attachments

Procedure Description

Offline_Production_Cement___WFMP___Shallower___BLM_v5_20251215153953.pdf

Production_Break_Testing_Variance___WFMP___Shallower___BLM_v4_20251215153953.pdf

Annular_Variance___Preventer_Summary_20251215153953.pdf

13.375_54.5lb_J55_20251215095156.pdf

10.75_45.5lb_J55_BTC_20251215095156.pdf

5.5_20lb_P110_ICY_20251215095156.pdf

8.625_32lb_P110_ICY_20251215095156.pdf

57016_Devon_Steel_Guitar_35_26_Fed_Com_470H_SIGNED_20251215095148.pdf

Well Name: STEEL GUITAR 35-26
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LLC

STEEL_GUITAR_35_26_FED_COM_470H_Directional_Plan_12_11_25_20251215095147.pdf

STEEL_GUITAR_35_26_FED_COM_470H_12_11_2025_20251215095147.pdf

Conditions of Approval

Specialist Review

Steel_Guitar_35_26_Fed_Com_470H_Dr_COA_20260114133025.pdf

26_26_29_A_Sundry_ID_2886912_Steel_Guitar_35_26_Fed_Com_470H_20260114133025.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: DEC 15, 2025 03:39 PM

Name: WPX ENERGY PERMIAN LLC

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: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 01/14/2026

Signature: Long Vo

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.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

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			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Additional Information

Location of Well

0. SHL: NENE / 655 FNL / 1030 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0179418 / LONG: -103.9491028 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 100 FNL / 630 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0194537 / LONG: -103.9477069 (TVD: 8224 feet, MD: 8327 feet)
PPP: NESE / 2501 FSL / 636 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0119775 / LONG: -103.9482418 (TVD: 8675 feet, MD: 11300 feet)
PPP: NENE / 195 FNL / 635 FEL / TWSP: 26S / RANGE: 29E / SECTION: 35 / LAT: 32.004569 / LONG: -103.9487711 (TVD: 8675 feet, MD: 14000 feet)
PPP: SENE / 1522 FNL / 633 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0155445 / LONG: -103.9479869 (TVD: 8675 feet, MD: 10000 feet)
PPP: SESE / 1203 FSL / 640 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0084105 / LONG: -103.9484966 (TVD: 8675 feet, MD: 12600 feet)
BHL: LOT 12 / 1769 FNL / 630 FEL / TWSP: 26S / RANGE: 29E / SECTION: 35 / LAT: 32.0002439 / LONG: -103.9490801 (TVD: 8675 feet, MD: 15576 feet)

CONFIDENTIAL

Devon Energy Offline Production Cementing

10/2025

REV5



NYSE: DVN
devonenergy.com



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.

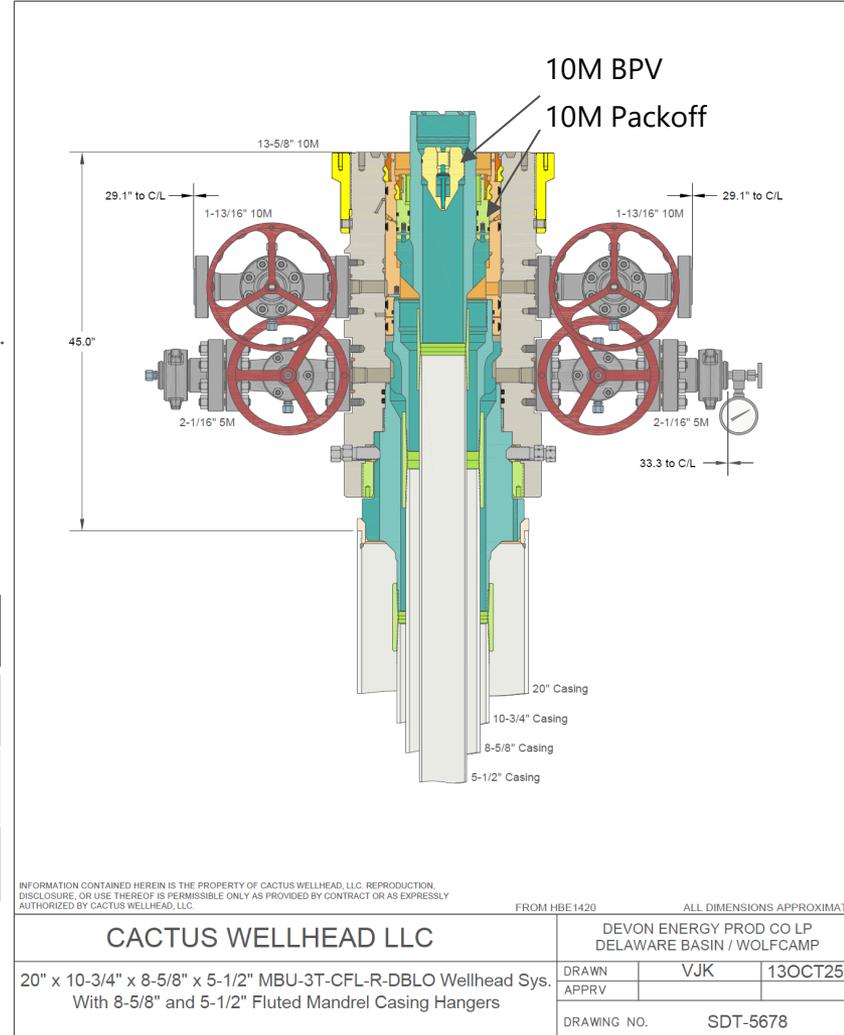
Offline Procedure

- **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

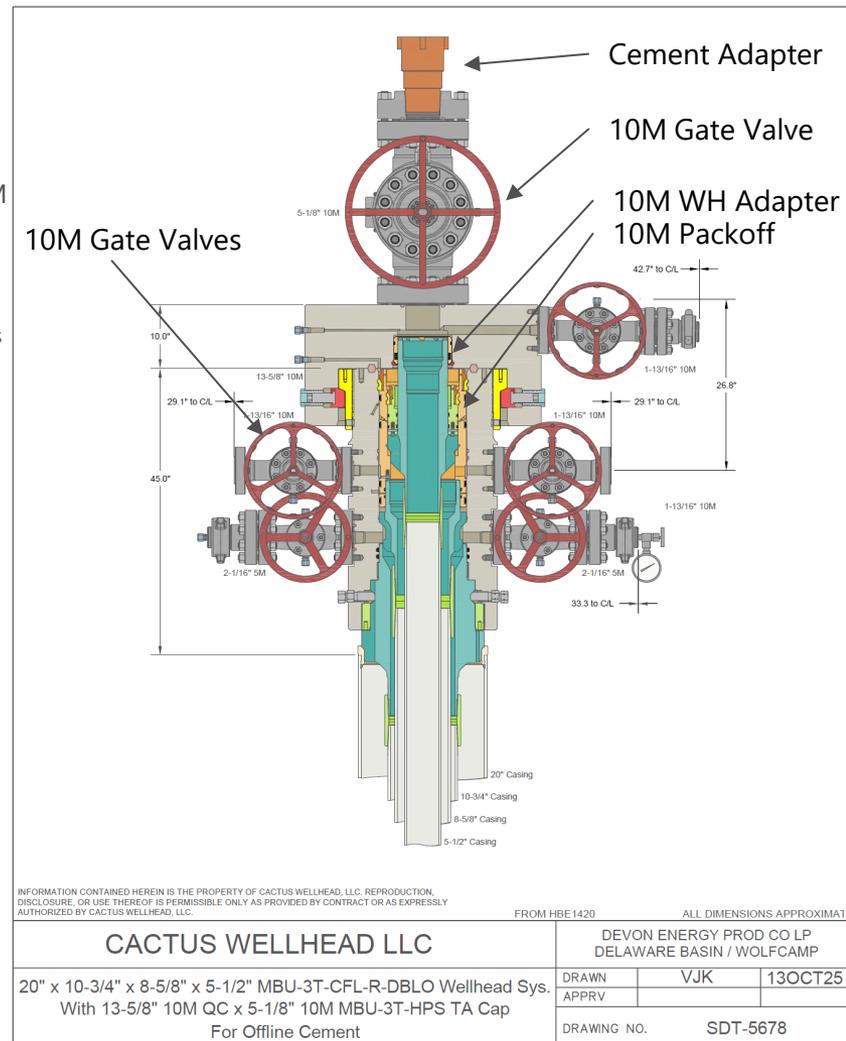
- Run casing and perform negative pressure test during casing run to verify integrity of float equipment’s 10,000psi backpressure valves.
 - Review Devon’s “Punch List” to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with 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		

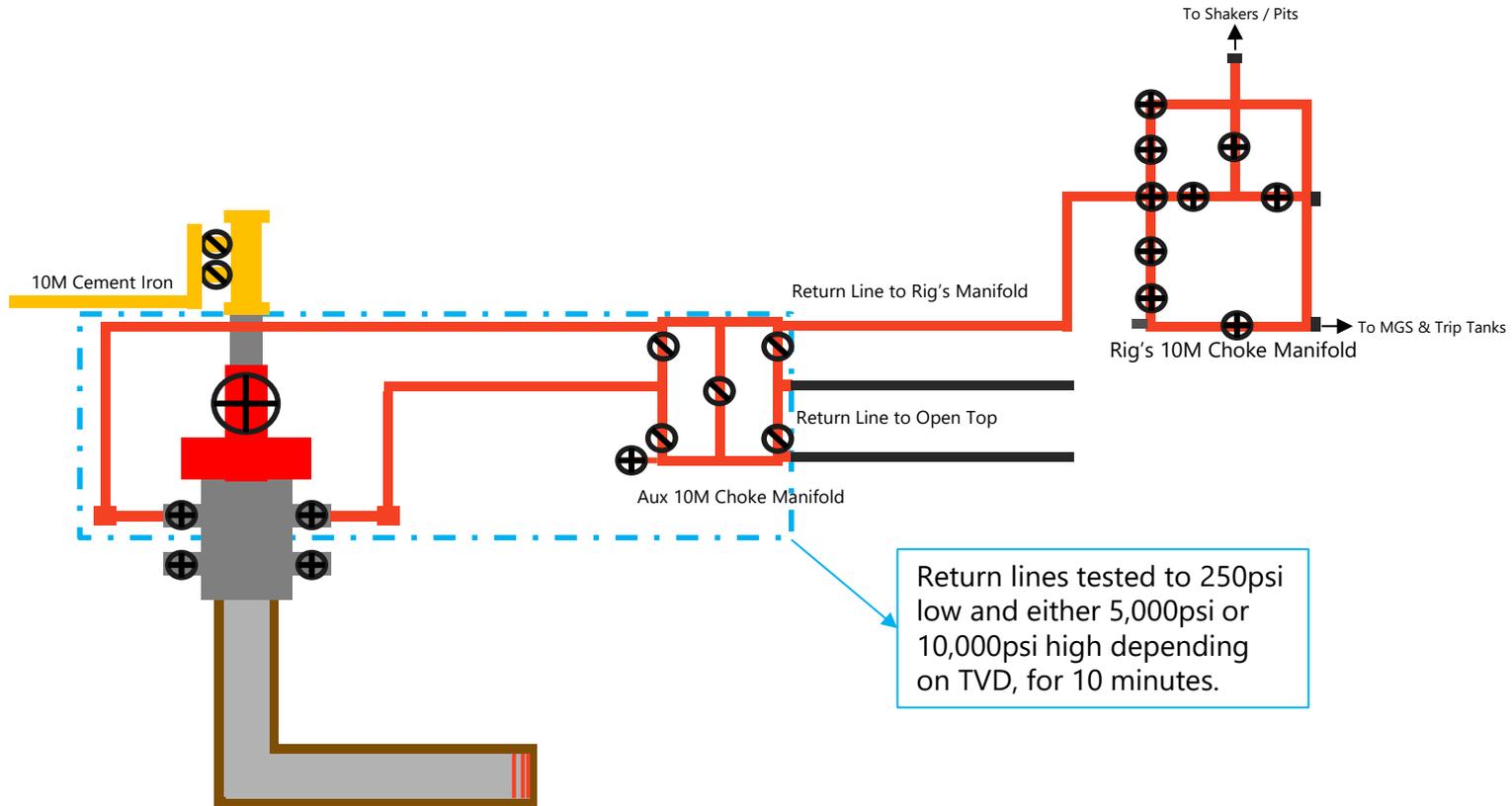
Offline Procedure – Detailed

- 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



Return lines tested to 250psi low and either 5,000psi or 10,000psi high depending on TVD, for 10 minutes.

- ⊕ 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.



BOPE Break Test Variance

10/2025
REV4



NYSE: DVN
devonenergy.com



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.

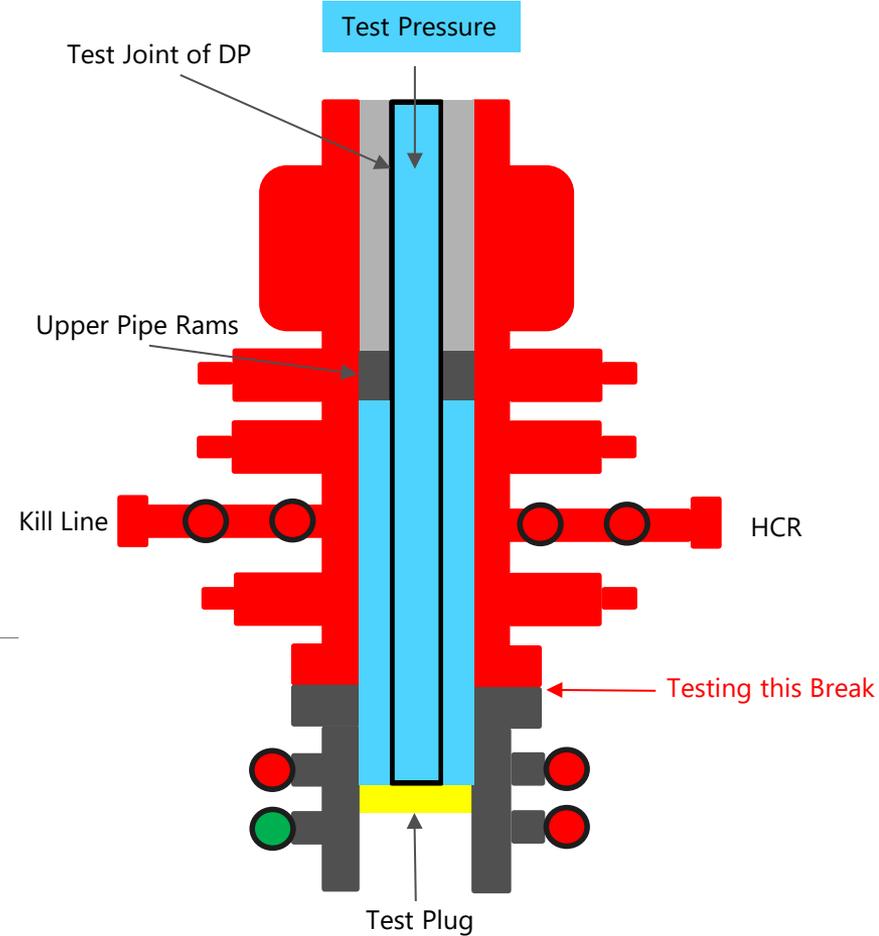
BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close 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	X
Kill Line Check Valve		X	X	X
Inside Choke Valve		X	X	X
HCR		X	X	X
Kill Line	X			X
Annular		X	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 for the following 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 from 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

Thank you.



Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
HWDP	4.5"	Fixed lower 4.5" Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan

2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

Performance Ratings, Minimum

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



10-3/4" 45.50# 0.400" J-55

Dimensions (Nominal)

Outside Diameter	10.750	in.
Wall	0.400	in.
Inside Diameter	9.950	in.
Drift	9.875	in.
Weight, T&C	45.500	lbs/ft
Weight, PE	44.260	lbs/ft

Performance Properties

Collapse	2090	psi
Internal Yield Pressure at Minimum Yield		
PE	3580	psi
STC	3580	psi
BTC	3580	psi
Yield Strength, Pipe Body	715	1000 lbs
Joint Strength		
STC	493	1000 lbs
BTC	796	1000 lbs
BTC Special Clearance (11.25" OD Cplg)	506	1000 lbs

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TenarisHydril Wedge 461[®]



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.
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.		
		Body Yield Strength	729 x1000 lb
		Min. Internal Yield Pressure	14,360 psi
		SMYS	125,000 psi
		Collapse Pressure	12,300 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.300 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lb
Coupling Length	7.714 in.	Joint Yield Strength	729 x1000 lb	Optimum	18,000 ft-lb
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %		
Threads per inch	3.40	Compression Strength	729 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	104 °/100 ft	Operating Torque	43,000 ft-lb
		External Pressure Capacity	12,300 psi	Yield Torque	51,000 ft-lb
		Coupling Face Load	329,000 lb	Buck-On	
				Minimum	21,600 ft-lb
				Maximum	23,100 ft-lb

Notes

This connection is fully interchangeable with:
 Wedge 441® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) in. (lb/ft)
 Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
 Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
 In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the latest 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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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				Performance	
Nominal OD	8.625 in.	Wall Thickness	0.352 in.	Body Yield Strength	1144 x1000 lb
Nominal Weight	32.00 lb/ft	Plain End Weight	31.13 lb/ft	Min. Internal Yield Pressure	9180 psi
Drift	7.875 in.	OD Tolerance	API	SMYS	125,000 psi
Nominal ID	7.921 in.			Collapse Pressure	4000 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	8.889 in.	Tension Efficiency	81.20 %	Minimum	23,000 ft-lb
Coupling Length	8.862 in.	Joint Yield Strength	929 x1000 lb	Optimum	24,000 ft-lb
Connection ID	7.921 in.	Internal Pressure Capacity	9180 psi	Maximum	27,000 ft-lb
Make-up Loss	3.744 in.	Compression Efficiency	81.20 %	Operation Limit Torques	
Threads per inch	3.43	Compression Strength	929 x1000 lb	Operating Torque	59,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	53.59 °/100 ft	Yield Torque	70,000 ft-lb
		External Pressure Capacity	4000 psi	Buck-On	
				Minimum	27,000 ft-lb
				Maximum	29,000 ft-lb

Notes

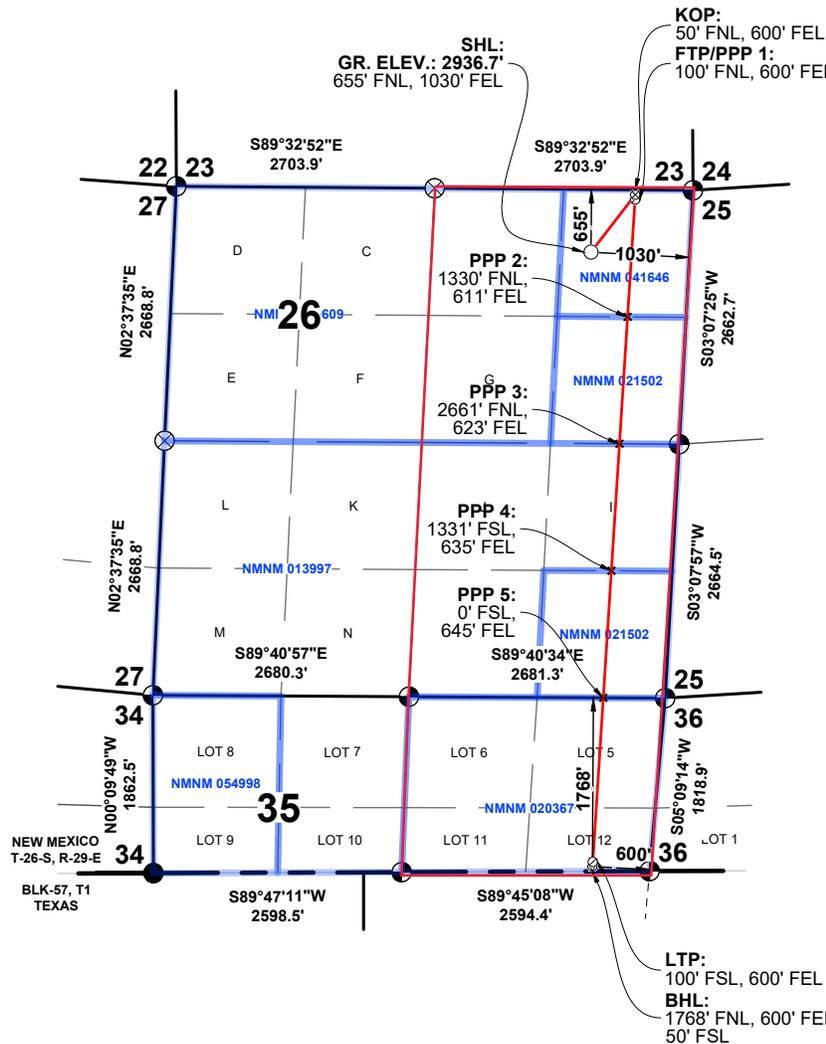
For the latest performance data, always visit our website: www.tenaris.com
 For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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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.



- SHL STEEL GUITAR 35-26 FED COM #470H**
GR. ELEV. 2936.7'
NMSP-E (NAD 83)
N.(Y) = 370477.6'
E.(X) = 660421.0'
LAT.: = 32.0179411° N
LON.: = 103.9491047° W
- KOP STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 371079.0'
E.(X) = 660884.4'
LAT.: = 32.0195897° N
LON.: = 103.9476024° W
- FTP PPP 1 GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 371029.0'
E.(X) = 660881.7'
LAT.: = 32.0194523° N
LON.: = 103.9476118° W
- PPP 2 STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 369799.2'
E.(X) = 660803.4'
LAT.: = 32.0160725° N
LON.: = 103.9478785° W
- PPP 3 STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 368469.3'
E.(X) = 660718.8'
LAT.: = 32.0124174° N
LON.: = 103.9481670° W
- PPP 4 STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 367139.1'
E.(X) = 660634.1'
LAT.: = 32.0087615° N
LON.: = 103.9484554° W
- PPP 5 STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 365808.7'
E.(X) = 660549.4'
LAT.: = 32.0051052° N
LON.: = 103.9487439° W
- LTP STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 364090.9'
E.(X) = 660440.1'
LAT.: = 32.0003841° N
LON.: = 103.9491164° W
- BHL STEEL GUITAR 35-26 FED COM #470H**
NMSP-E (NAD 83)
N.(Y) = 364040.8'
E.(X) = 660435.6'
LAT.: = 32.0002466° N
LON.: = 103.9491315° W

SECTION: 26, T-26-S, R-29-E, N.M.P.M.
COUNTY: EDDY **STATE:** NEW MEXICO
DESCRIPTION: 655' FNL & 1030' FEL
OPERATOR: WPX ENERGY PERMIAN, LLC
WELL NAME: STEEL GUITAR 35-26 FED COM #470H
DUWI: WA018437438 **UFID:** AA000497611
WELL PAD: STEEL GUITAR 35-26 FED EAST PAD



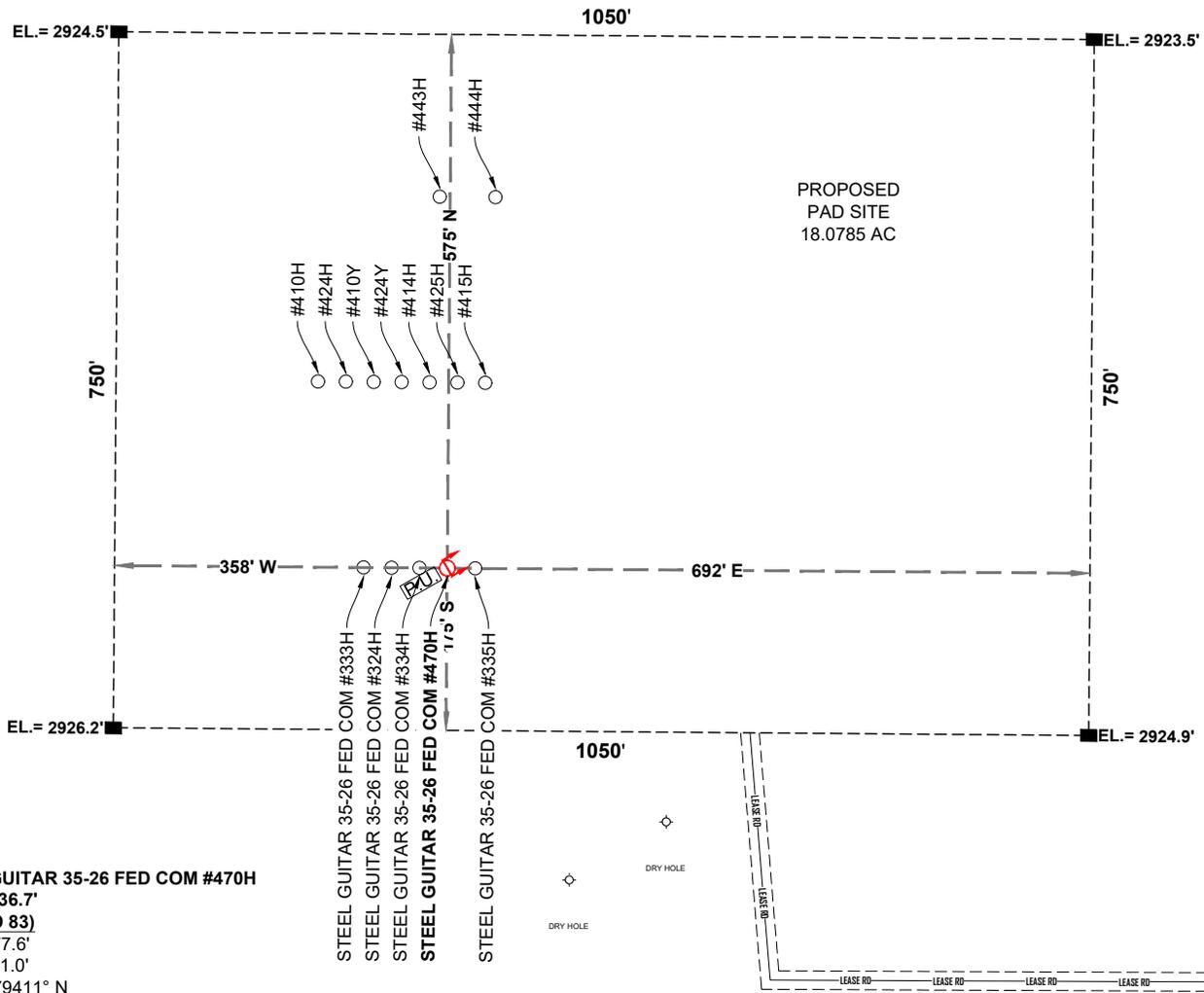
W T C, INC.
 405 S.W. 1st Street
 Andrews, TX 79714
 (432) 523-2181

WPX ENERGY PERMIAN, LLC

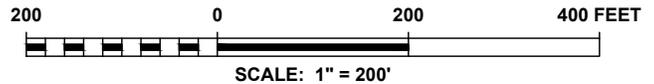
JOB NO.: WTC56823

SITE LOCATION

SECTION 23
SECTION 26

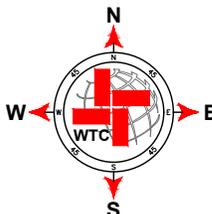


SHL STEEL GUITAR 35-26 FED COM #470H
 GR. ELEV. 2936.7'
 NMSP-E (NAD 83)
 N.(Y): = 370477.6'
 E.(X): = 660421.0'
 LAT.: = 32.0179411° N
 LON.: = 103.9491047° W



SECTION: 26, T-26-S, R-29-E, N.M.P.M.
COUNTY: EDDY **STATE:** NEW MEXICO
DESCRIPTION: 655' FNL & 1030' FEL
OPERATOR: WPX ENERGY PERMIAN, LLC
WELL NAME: STEEL GUITAR 35-26 FED COM #470H
DUWI: WA018437438 **UFID:** AA000497611
WELL PAD: STEEL GUITAR 35-26 FED EAST PAD

DRIVING DIRECTIONS:
 BEGINNING AT THE INTERSECTION OF US HIGHWAY 285 AND BLACK RIVER ROAD IN MALAGA, NEW MEXICO. HEAD SOUTH ON US HWY. 285 FOR ±12.6 MILES TO WHITEHORN/LONGHORN ROAD ON THE LEFT. TURN LEFT AND HEAD EASTERLY FOR ±2.5 MILES TO A "Y." SLIGHT LEFT ONTO LONGHORN ROAD AND HEAD EASTERLY FOR ±5.1 MILES TO WHITEHORN/LONGHORN ROAD. TURN LEFT AND HEAD EASTERLY FOR ±1.5 MILES TO WHITEHORN/LONGHORN ROAD. TURN RIGHT AND HEAD EASTERLY FOR ±1.1 MILES TO A WHITEHORN/LONGHORN ROAD. TURN RIGHT AND HEAD SOUTHERLY FOR ±0.2 MILES TO A WHITEHORN ROAD. TURN RIGHT AND HEAD SOUTHERLY FOR ±1.0 MILES TO A STAKED FLAG FOR A PROPOSED LEASE ROAD ON THE RIGHT. THE STAKED LOCATION FLAGGED IS ±1839 FEET TO THE NORTHWEST.



WTC, INC.
 405 S.W. 1st Street
 Andrews, TX 79714
 (432) 523-2181

WPX ENERGY PERMIAN, LLC

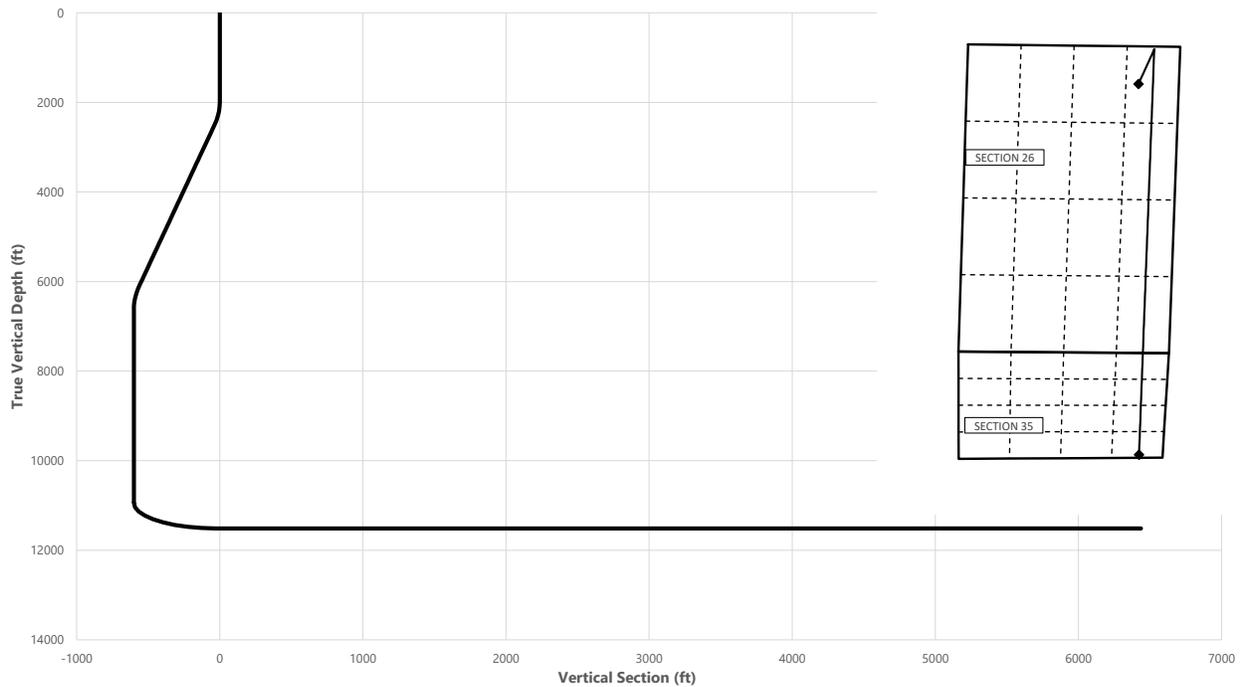
JOB NO.: WTC56823



Well: STEEL GUITAR 35-26 FED COM 470H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

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
2000.00	0.00	33.80	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	33.80	2497.47	36.17	24.21	-36.11	2.00	Hold Tangent
6165.12	10.00	33.80	6106.90	565.04	378.26	-564.18	0.00	Drop to Vertical
6665.12	0.00	33.80	6604.37	601.21	402.47	-600.29	2.00	Hold Vertical
11000.79	0.00	183.15	10940.04	601.21	402.47	-600.29	0.00	KOP
11900.79	90.00	183.15	11513.00	29.12	370.94	-28.27	10.00	Landing Point
18376.52	90.00	183.15	11513.00	-6436.80	14.60	6436.82	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	386.00	386.00
Salt	1261.00	1261.00
Base of Salt	2976.78	2967.00
Delaware	2976.78	2967.00
Cherry Canyon	4006.42	3981.00
Brushy Canyon	5112.22	5070.00
1st Bone Spring Lime	6761.75	6701.00
Bone Spring 1st	7687.75	7627.00
Bone Spring 2nd	8284.75	8224.00
3rd Bone Spring Lime	8747.75	8687.00
Bone Spring 3rd	9736.75	9676.00
Wolfcamp / Point of Penetration	10092.75	10032.00
exit	18296.52	11513.01

	MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
SHL	0.00	0.00	32.0178	-103.9492	655' FNL, 1030' FEL of Sec 26 in T26S, R29E
KOP	11000.79	10940.04	32.0195	-103.9476	50' FNL, 660' FEL of Sec 26 in T26S, R29E
Point of Penetration	10092.75	10032.00	32.0195	-103.9476	100' FNL, 660' FEL of Sec 26 in T26S, R29E
Exit	18296.52	11513.01	32.0004	-103.9491	100' FSL, 660' FEL of Sec 35 in T26S, R29E
BHL	18376.52	11513.00	32.0002	-103.9492	50' FSL, 600' FEL of Sec 35 in T26S, R29E

	Y	X	MD
KOP	371078.8	660823.5	11000.79



Well: STEEL GUITAR 35-26 FED COM 470H
 County: Eddy
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
 Datum: North American Datum 1927
 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

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	33.80	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	33.80	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	33.80	300.00	0.00	0.00	0.00	0.00	
386.00	0.00	33.80	386.00	0.00	0.00	0.00	0.00	Rustler
400.00	0.00	33.80	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	33.80	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	33.80	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	33.80	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	33.80	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	33.80	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	33.80	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	33.80	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	33.80	1200.00	0.00	0.00	0.00	0.00	
1261.00	0.00	33.80	1261.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	33.80	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	33.80	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	33.80	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	33.80	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	33.80	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	33.80	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	33.80	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	33.80	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	33.80	2099.98	1.45	0.97	-1.45	2.00	
2200.00	4.00	33.80	2199.84	5.80	3.88	-5.79	2.00	
2300.00	6.00	33.80	2299.45	13.04	8.73	-13.02	2.00	
2400.00	8.00	33.80	2398.70	23.17	15.51	-23.13	2.00	
2500.00	10.00	33.80	2497.47	36.17	24.21	-36.11	2.00	Hold Tangent
2600.00	10.00	33.80	2595.95	50.60	33.87	-50.52	0.00	
2700.00	10.00	33.80	2694.43	65.03	43.53	-64.93	0.00	
2800.00	10.00	33.80	2792.91	79.46	53.19	-79.34	0.00	
2900.00	10.00	33.80	2891.39	93.89	62.85	-93.74	0.00	
2976.78	10.00	33.80	2967.00	104.97	70.27	-104.81	0.00	Base of Salt, Delaware
3000.00	10.00	33.80	2989.87	108.32	72.51	-108.15	0.00	
3100.00	10.00	33.80	3088.35	122.75	82.17	-122.56	0.00	
3200.00	10.00	33.80	3186.83	137.18	91.83	-136.97	0.00	
3300.00	10.00	33.80	3285.31	151.61	101.49	-151.37	0.00	
3400.00	10.00	33.80	3383.79	166.04	111.15	-165.78	0.00	
3500.00	10.00	33.80	3482.27	180.47	120.81	-180.19	0.00	
3600.00	10.00	33.80	3580.75	194.90	130.47	-194.60	0.00	
3700.00	10.00	33.80	3679.23	209.33	140.13	-209.01	0.00	
3800.00	10.00	33.80	3777.72	223.76	149.79	-223.41	0.00	
3900.00	10.00	33.80	3876.20	238.19	159.45	-237.82	0.00	
4000.00	10.00	33.80	3974.68	252.61	169.11	-252.23	0.00	
4006.42	10.00	33.80	3981.00	253.54	169.73	-253.16	0.00	Cherry Canyon
4100.00	10.00	33.80	4073.16	267.04	178.77	-266.64	0.00	
4200.00	10.00	33.80	4171.64	281.47	188.43	-281.05	0.00	
4300.00	10.00	33.80	4270.12	295.90	198.09	-295.45	0.00	
4400.00	10.00	33.80	4368.60	310.33	207.75	-309.86	0.00	
4500.00	10.00	33.80	4467.08	324.76	217.41	-324.27	0.00	
4600.00	10.00	33.80	4565.56	339.19	227.07	-338.68	0.00	
4700.00	10.00	33.80	4664.04	353.62	236.73	-353.09	0.00	
4800.00	10.00	33.80	4762.52	368.05	246.39	-367.49	0.00	
4900.00	10.00	33.80	4861.00	382.48	256.05	-381.90	0.00	
5000.00	10.00	33.80	4959.48	396.91	265.71	-396.31	0.00	
5100.00	10.00	33.80	5057.97	411.34	275.37	-410.72	0.00	
5112.22	10.00	33.80	5070.00	413.11	276.55	-412.48	0.00	Brushy Canyon
5200.00	10.00	33.80	5156.45	425.77	285.03	-425.13	0.00	
5300.00	10.00	33.80	5254.93	440.20	294.69	-439.53	0.00	
5400.00	10.00	33.80	5353.41	454.63	304.35	-453.94	0.00	
5500.00	10.00	33.80	5451.89	469.06	314.01	-468.35	0.00	
5600.00	10.00	33.80	5550.37	483.49	323.67	-482.76	0.00	
5700.00	10.00	33.80	5648.85	497.92	333.33	-497.17	0.00	
5800.00	10.00	33.80	5747.33	512.35	342.99	-511.57	0.00	
5900.00	10.00	33.80	5845.81	526.78	352.65	-525.98	0.00	
6000.00	10.00	33.80	5944.29	541.21	362.31	-540.39	0.00	
6100.00	10.00	33.80	6042.77	555.64	371.97	-554.80	0.00	
6165.12	10.00	33.80	6106.90	565.04	378.26	-564.18	0.00	Drop to Vertical
6200.00	9.30	33.80	6141.29	569.90	381.51	-569.03	2.00	
6300.00	7.30	33.80	6240.24	581.90	389.55	-581.01	2.00	



Well: STEEL GUITAR 35-26 FED COM 470H
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 Design: Permit Plan #1

Geodetic System: US State Plane 1983
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 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	5.30	33.80	6339.63	591.02	395.65	-590.12	2.00	
6500.00	3.30	33.80	6439.34	597.25	399.83	-596.34	2.00	
6600.00	1.30	33.80	6539.26	600.59	402.06	-599.68	2.00	
6665.12	0.00	33.80	6604.37	601.21	402.47	-600.29	2.00	Hold Vertical
6700.00	0.00	183.15	6639.25	601.21	402.47	-600.29	0.00	
6761.75	0.00	183.15	6701.00	601.21	402.47	-600.29	0.00	1st Bone Spring Lime
6800.00	0.00	183.15	6739.25	601.21	402.47	-600.29	0.00	
6900.00	0.00	183.15	6839.25	601.21	402.47	-600.29	0.00	
7000.00	0.00	183.15	6939.25	601.21	402.47	-600.29	0.00	
7100.00	0.00	183.15	7039.25	601.21	402.47	-600.29	0.00	
7200.00	0.00	183.15	7139.25	601.21	402.47	-600.29	0.00	
7300.00	0.00	183.15	7239.25	601.21	402.47	-600.29	0.00	
7400.00	0.00	183.15	7339.25	601.21	402.47	-600.29	0.00	
7500.00	0.00	183.15	7439.25	601.21	402.47	-600.29	0.00	
7600.00	0.00	183.15	7539.25	601.21	402.47	-600.29	0.00	
7687.75	0.00	183.15	7627.00	601.21	402.47	-600.29	0.00	Bone Spring 1st
7700.00	0.00	183.15	7639.25	601.21	402.47	-600.29	0.00	
7800.00	0.00	183.15	7739.25	601.21	402.47	-600.29	0.00	
7900.00	0.00	183.15	7839.25	601.21	402.47	-600.29	0.00	
8000.00	0.00	183.15	7939.25	601.21	402.47	-600.29	0.00	
8100.00	0.00	183.15	8039.25	601.21	402.47	-600.29	0.00	
8200.00	0.00	183.15	8139.25	601.21	402.47	-600.29	0.00	
8284.75	0.00	183.15	8224.00	601.21	402.47	-600.29	0.00	Bone Spring 2nd
8300.00	0.00	183.15	8239.25	601.21	402.47	-600.29	0.00	
8400.00	0.00	183.15	8339.25	601.21	402.47	-600.29	0.00	
8500.00	0.00	183.15	8439.25	601.21	402.47	-600.29	0.00	
8600.00	0.00	183.15	8539.25	601.21	402.47	-600.29	0.00	
8700.00	0.00	183.15	8639.25	601.21	402.47	-600.29	0.00	
8747.75	0.00	183.15	8687.00	601.21	402.47	-600.29	0.00	3rd Bone Spring Lime
8800.00	0.00	183.15	8739.25	601.21	402.47	-600.29	0.00	
8900.00	0.00	183.15	8839.25	601.21	402.47	-600.29	0.00	
9000.00	0.00	183.15	8939.25	601.21	402.47	-600.29	0.00	
9100.00	0.00	183.15	9039.25	601.21	402.47	-600.29	0.00	
9200.00	0.00	183.15	9139.25	601.21	402.47	-600.29	0.00	
9300.00	0.00	183.15	9239.25	601.21	402.47	-600.29	0.00	
9400.00	0.00	183.15	9339.25	601.21	402.47	-600.29	0.00	
9500.00	0.00	183.15	9439.25	601.21	402.47	-600.29	0.00	
9600.00	0.00	183.15	9539.25	601.21	402.47	-600.29	0.00	
9700.00	0.00	183.15	9639.25	601.21	402.47	-600.29	0.00	
9736.75	0.00	183.15	9676.00	601.21	402.47	-600.29	0.00	Bone Spring 3rd
9800.00	0.00	183.15	9739.25	601.21	402.47	-600.29	0.00	
9900.00	0.00	183.15	9839.25	601.21	402.47	-600.29	0.00	
10000.00	0.00	183.15	9939.25	601.21	402.47	-600.29	0.00	
10092.75	0.00	183.15	10032.00	601.21	402.47	-600.29	0.00	Wolfcamp / Point of Penetration
10100.00	0.00	183.15	10039.25	601.21	402.47	-600.29	0.00	
10200.00	0.00	183.15	10139.25	601.21	402.47	-600.29	0.00	
10300.00	0.00	183.15	10239.25	601.21	402.47	-600.29	0.00	
10400.00	0.00	183.15	10339.25	601.21	402.47	-600.29	0.00	
10500.00	0.00	183.15	10439.25	601.21	402.47	-600.29	0.00	
10600.00	0.00	183.15	10539.25	601.21	402.47	-600.29	0.00	
10700.00	0.00	183.15	10639.25	601.21	402.47	-600.29	0.00	
10800.00	0.00	183.15	10739.25	601.21	402.47	-600.29	0.00	
10900.00	0.00	183.15	10839.25	601.21	402.47	-600.29	0.00	
11000.00	0.00	183.15	10939.25	601.21	402.47	-600.29	0.00	
11000.79	0.00	183.15	10940.04	601.21	402.47	-600.29	0.00	KOP
11100.00	9.92	183.15	11038.75	592.65	402.00	-591.74	10.00	
11200.00	19.92	183.15	11135.26	566.97	400.59	-566.06	10.00	
11300.00	29.92	183.15	11225.83	524.96	398.27	-524.05	10.00	
11400.00	39.92	183.15	11307.72	467.87	395.12	-466.97	10.00	
11500.00	49.92	183.15	11378.44	397.45	391.24	-396.57	10.00	
11600.00	59.92	183.15	11435.84	315.85	386.75	-314.97	10.00	
11700.00	69.92	183.15	11478.17	225.53	381.77	-224.66	10.00	
11800.00	79.92	183.15	11504.16	129.24	376.46	-128.38	10.00	
11900.00	89.92	183.15	11513.00	29.91	370.99	-29.07	10.00	
11900.79	90.00	183.15	11513.00	29.12	370.94	-28.27	10.00	Landing Point
12000.00	90.00	183.15	11513.00	-69.94	365.48	70.77	0.00	
12100.00	90.00	183.15	11513.00	-169.79	359.98	170.61	0.00	
12200.00	90.00	183.15	11513.00	-269.64	354.48	270.44	0.00	
12300.00	90.00	183.15	11513.00	-369.49	348.98	370.28	0.00	
12400.00	90.00	183.15	11513.00	-469.34	343.47	470.11	0.00	



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 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12500.00	90.00	183.15	11513.00	-569.18	337.97	569.95	0.00	
12600.00	90.00	183.15	11513.00	-669.03	332.47	669.78	0.00	
12700.00	90.00	183.15	11513.00	-768.88	326.97	769.62	0.00	
12800.00	90.00	183.15	11513.00	-868.73	321.46	869.46	0.00	
12900.00	90.00	183.15	11513.00	-968.58	315.96	969.29	0.00	
13000.00	90.00	183.15	11513.00	-1068.43	310.46	1069.13	0.00	
13100.00	90.00	183.15	11513.00	-1168.27	304.96	1168.96	0.00	
13200.00	90.00	183.15	11513.00	-1268.12	299.45	1268.80	0.00	
13300.00	90.00	183.15	11513.00	-1367.97	293.95	1368.64	0.00	
13400.00	90.00	183.15	11513.00	-1467.82	288.45	1468.47	0.00	
13500.00	90.00	183.15	11513.00	-1567.67	282.95	1568.31	0.00	
13600.00	90.00	183.15	11513.00	-1667.52	277.45	1668.14	0.00	
13700.00	90.00	183.15	11513.00	-1767.37	271.94	1767.98	0.00	
13800.00	90.00	183.15	11513.00	-1867.21	266.44	1867.81	0.00	
13900.00	90.00	183.15	11513.00	-1967.06	260.94	1967.65	0.00	
14000.00	90.00	183.15	11513.00	-2066.91	255.44	2067.49	0.00	
14100.00	90.00	183.15	11513.00	-2166.76	249.93	2167.32	0.00	
14200.00	90.00	183.15	11513.00	-2266.61	244.43	2267.16	0.00	
14300.00	90.00	183.15	11513.00	-2366.46	238.93	2366.99	0.00	
14400.00	90.00	183.15	11513.00	-2466.30	233.43	2466.83	0.00	
14500.00	90.00	183.15	11513.00	-2566.15	227.92	2566.66	0.00	
14600.00	90.00	183.15	11513.00	-2666.00	222.42	2666.50	0.00	
14700.00	90.00	183.15	11513.00	-2765.85	216.92	2766.34	0.00	
14800.00	90.00	183.15	11513.00	-2865.70	211.42	2866.17	0.00	
14900.00	90.00	183.15	11513.00	-2965.55	205.91	2966.01	0.00	
15000.00	90.00	183.15	11513.00	-3065.40	200.41	3065.84	0.00	
15100.00	90.00	183.15	11513.00	-3165.24	194.91	3165.68	0.00	
15200.00	90.00	183.15	11513.00	-3265.09	189.41	3265.51	0.00	
15300.00	90.00	183.15	11513.00	-3364.94	183.90	3365.35	0.00	
15400.00	90.00	183.15	11513.00	-3464.79	178.40	3465.19	0.00	
15500.00	90.00	183.15	11513.00	-3564.64	172.90	3565.02	0.00	
15600.00	90.00	183.15	11513.00	-3664.49	167.40	3664.86	0.00	
15700.00	90.00	183.15	11513.01	-3764.34	161.89	3764.69	0.00	
15800.00	90.00	183.15	11513.01	-3864.18	156.39	3864.53	0.00	
15900.00	90.00	183.15	11513.01	-3964.03	150.89	3964.36	0.00	
16000.00	90.00	183.15	11513.01	-4063.88	145.39	4064.20	0.00	
16100.00	90.00	183.15	11513.01	-4163.73	139.88	4164.04	0.00	
16200.00	90.00	183.15	11513.01	-4263.58	134.38	4263.87	0.00	
16300.00	90.00	183.15	11513.01	-4363.43	128.88	4363.71	0.00	
16400.00	90.00	183.15	11513.01	-4463.27	123.38	4463.54	0.00	
16500.00	90.00	183.15	11513.01	-4563.12	117.87	4563.38	0.00	
16600.00	90.00	183.15	11513.01	-4662.97	112.37	4663.21	0.00	
16700.00	90.00	183.15	11513.01	-4762.82	106.87	4763.05	0.00	
16800.00	90.00	183.15	11513.01	-4862.67	101.37	4862.89	0.00	
16900.00	90.00	183.15	11513.01	-4962.52	95.86	4962.72	0.00	
17000.00	90.00	183.15	11513.01	-5062.37	90.36	5062.56	0.00	
17100.00	90.00	183.15	11513.01	-5162.21	84.86	5162.39	0.00	
17200.00	90.00	183.15	11513.01	-5262.06	79.36	5262.23	0.00	
17300.00	90.00	183.15	11513.01	-5361.91	73.85	5362.07	0.00	
17400.00	90.00	183.15	11513.01	-5461.76	68.35	5461.90	0.00	
17500.00	90.00	183.15	11513.01	-5561.61	62.85	5561.74	0.00	
17600.00	90.00	183.15	11513.01	-5661.46	57.35	5661.57	0.00	
17700.00	90.00	183.15	11513.01	-5761.31	51.84	5761.41	0.00	
17800.00	90.00	183.15	11513.01	-5861.15	46.34	5861.24	0.00	
17900.00	90.00	183.15	11513.01	-5961.00	40.84	5961.08	0.00	
18000.00	90.00	183.15	11513.01	-6060.85	35.34	6060.92	0.00	
18100.00	90.00	183.15	11513.01	-6160.70	29.83	6160.75	0.00	
18200.00	90.00	183.15	11513.01	-6260.55	24.33	6260.59	0.00	
18296.52	90.00	183.15	11513.01	-6356.92	19.02	6356.95	0.00	exit
18300.00	90.00	183.15	11513.01	-6360.40	18.83	6360.42	0.00	
18376.52	90.00	183.15	11513.00	-6436.80	14.60	6436.82	0.00	BHL

1. Geologic Formations

TVD of target	11513	Pilot hole depth	N/A
MD at TD:	18377	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	386		
Salt	1261		
Base of Salt	2967		
Delaware	2967		
Cherry Canyon	3981		
Brushy Canyon	5070		
1st Bone Spring Lime	6701		
Bone Spring 1st	7627		
Bone Spring 2nd	8224		
3rd Bone Spring Lime	8687		
Bone Spring 3rd	9676		
Wolfcamp	10032		

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

2. Casing Program

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J-55	BTC	0	456 MD	0	456 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0	3020 MD	0	3020 TVD
9 7/8	8 5/8	32.0	P110-ICY	441	0	10901 MD	0	10901 TVD
7 7/8	5 1/2	20.0	P110-ICY	461	0	18377 MD	0	11513 TVD

- All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.
- The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	368	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	188	Surf	9.0	3.3	Lead: Class C Cement + additives
	101	2520	13.2	1.4	Tail: Class H / C + additives
Int 1	206	Surf	9.0	3.3	Lead: Class C Cement + additives
	674	5070	13.2	1.4	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	206	Surf	0.0	3.3	Squeeze Lead: Class C Cement + additives
	206	Surf	9.0	3.3	Lead: Class C Cement + additives
	674	5070	13.2	1.4	Tail: Class H / C + additives
Production	119	9001	9.0	3.3	Lead: Class H / C + additives
	976	11001	13.2	1.4	Tail: Class H / C + 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.

Casing String	% Excess
Surface	50%
Intermediate and Intermediate 1	30%
Production	10%

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.

4. Pressure Control Equipment (Four 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*		
Int 1	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	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		

5. Mud Program (Four String Design)

Section	Type	Weight (ppg)
Surface	WBM	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Intermediate 1	WBM	8.5-9
Production	WBM	8.5-9

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
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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	
Density	
X CBL	Production casing
Mud log	KOP to TD
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5388
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 nipped 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

- Directional Plan
- Other, describe

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	WPX Energy Permian LLC
LOCATION:	Section 26, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Steel Guitar 35-26 Fed Com 470H
ATS/API ID:	3001555936
APD ID:	10400095598
Sundry ID:	2886912

COA

H2S	Yes		
Potash	None	None	
Cave/Karst Potential	Medium		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input checked="" type="checkbox"/> 4 String <input type="checkbox"/> 5 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 2	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry	Waste Prevention None	
Special Requirements Variance	<input checked="" type="checkbox"/> BOPE Break Testing <input checked="" type="checkbox"/> Offline BOPE Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **411 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 **17 1/2** 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 **10-3/4** 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 or potash.**

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

3. 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 5070'**.
- 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 206 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 **10-3/4" 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.
4. 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 **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** inch intermediate casing shoe shall be **5000 (5M)** psi.
- c. 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:

- a. 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.

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

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 **Eddy County: 575-361-2822**.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **1st Intermediate interval**. **2nd Intermediate interval** is **Not Approved**.

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

Notify the BLM 4hrs prior to cementing offline at **Eddy County: 575-361-2822**.

GENERAL REQUIREMENTS

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

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

Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

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. Acceptable Method of Cement Verifications:
 - a. Observing cement circulated to surface.
 - b. Cement bond log (CBL).
 - c. Temperature log within 8-10 hours after completing the cement job.
 - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. 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) 1/14/2026

Steel Guitar 35-26 Fed Com 470H

13 3/8		surface csg in a		17 1/2		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	38.09	5.88	1.66	411	15	2.78	11.11	22,400	
"B"				btc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	411			22,400	
<p>Comparison of Proposed to Minimum Required Cement Volumes</p> <p>Tail Cmt does not circ to sfc.</p>													
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	
17 1/2	0.6946	368	515	285	80	9.00	983	2M				1.56	

The plot (pipe radius 3 or 4) as per 0.03.1.10.D.4), not found

10 3/4		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"	45.50		j 55	btc scc	3.68	1.27	0.7	3,020	2	1.33	2.13	137,410
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,188								Totals:	3,020			137,410
<p>The cement volume(s) are intended to achieve a top of 0 ft from surface or a 411 overlap.</p>												
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
12 1/4	0.1882	289	762	589	29	10.50	2698	3M				0.50
D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								289	762			29
Class 'C' tail cmt yld > 1.35												
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.19, b, c, d All > 0.70, OK.												

8 5/8		casing inside the		10 3/4		Design Factors				Int 2		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	wedge 441	2.66	0.78	1.71	10,901	2	3.22	1.48	348,832
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,398								Totals:	10,901			348,832
<p>The cement volume(s) are intended to achieve a top of 0 ft from surface or a 3020 overlap.</p>												
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	880	1623	1399	16	9.00	2850	3M				0.49
Setting Depths for D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
% excess cmt by stage:								1086	2303			65
Class 'C' tail cmt yld > 1.35												

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	2.78	2.06	2.35	18,377	2	4.44	3.90	367,540
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,533								Totals:	18,377			367,540
<p>The cement volume(s) are intended to achieve a top of 10701 ft from surface or a 200 overlap.</p>												
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	1095	1759	1331	32	9.00						0.91
Class 'H' tail cmt yld > 1.20												
Capitan Reef est top XXXX.												

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 543230

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 543230
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	2/9/2026