

Well Name: HORN 22-27-34 FED COM	Well Location: T26S / R29E / SEC 15 / SESE / 32.037654 / -103.9669553	County or Parish/State: EDDY / NM
Well Number: 421H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM21767	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549835	Well Status: Drilling Well	Operator: WPX ENERGY PERMIAN LLC

LONG VO

Digitally signed by
LONG VO
Date: 2024.01.31
11:28:18 -06'00'

Notice of Intent

Sundry ID: 2772625

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/31/2024

Time Sundry Submitted: 07:01

Date proposed operation will begin: 01/31/2024

Procedure Description: Skid Sundry Attention Long Vo WPX Energy Permian, LLC respectfully request to skid over from the original permitted SHL location of 1038 FSL, 1194 FEL, SEC 15-26S-29E and re-drill the approved subject wellbore in a different SHL due to pressures and a 4-string casing design change. The new SHL will be 918 FSL, 1194 FEL, SEC 15-26S-29E. The new well name will be Horn 22-27-34 Fed Com 421H and have a separate API. We request the original well associated with API 30-015-49835 to have a well name change to Horn 22-27-34 Fed Com 421Y. Please see the attached new plat, drill plan, and directional.

NOI Attachments

Procedure Description

WA018382180_HORN_22_27_34_FED_COM_421H_WL_R3_20240131070118.pdf

HORN_22_27_34_FED_COM_421H_Directional_Plan_01_30_24_20240131070117.pdf

HORN_22_27_34_FED_COM_421H_20240131070117.pdf

Well Name: HORN-22-21-34	FED COM	Well Location: T26S / R29E / SEC 15 / SESE / 32.037654 / -103.9669553	County or Parish/State: EDDY / NM
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Lease Number: NMNM21767	Unit or CA Name:	Unit or CA Number:	
US Well Number: 3001549835	Well Status: Drilling Well	Operator: WPX ENERGY PERMIAN LLC	

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: CHELSEY GREEN Signed on: JAN 31, 2024 06:58 AM

Name: WPX ENERGY PERMIAN LLC

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City State: OK

Phone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: LEASE NO.: LOCATION: COUNTY:	WPX Energy Permian LLC NMNM21767 Section 15, T.26 S., R.29 E., NMPM <div style="border: 1px solid black; padding: 2px;">Eddy County, New Mexico ▼</div>
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WELL NAME & NO.: SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE ATS/API ID: APD ID: Sundry ID:	Horn 22-27-34 Fed Com 421H 918'/S & 1194'/E 50'/S & 1530'/E 3001549835 10400063814 2772625
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COA

H2S	No ▼		
Potash	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	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		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> 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 **375 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **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 5105' (742 sxs Class H/C+ additives)**.
- 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 270 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.

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 **5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **10-3/4** intermediate casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) 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.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted Choose an item. 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.

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.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 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 water basin (8 hours) or potash (24 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.

LVO 1/31/2024

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM21767

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

2. Name of Operator WPX ENERGY PERMIAN LLC

3a. Address 3500 One Williams Center, Tulsa, OK 74172 3b. Phone No. (include area code) (539) 573-0212

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 15/T26S/R29E/NMP

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

8. Well Name and No. HORN 22-27-34 FED COM/421H

9. API Well No. 30-015-54661

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

11. Country or Parish, State EDDY/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> 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 checked="" 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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or 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.)

Skid Sundry
Attention Long Vo

WPX Energy Permian, LLC respectfully request to skid over from the original permitted SHL location of 1038 FSL, 1194 FEL, SEC 15-26S-29E and re-drill the approved subject wellbore in a different SHL due to pressures and a 4-string casing design change. The new SHL will be 918 FSL, 1194 FEL, SEC 15-26S-29E. The new well name will be Horn 22-27-34 Fed Com 421H and have a separate API. We request the original well associated with API 30-015-49835 to have a well name change to Horn 22-27-34 Fed Com 421Y. Please see the attached new plat, drill plan, and directional.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) CHELSEY GREEN / Ph: (405) 228-8595

Title Regulatory Compliance Professional

Signature (Electronic Submission)

Date 01/31/2024

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: SESE / 1038 FSL / 1194 FEL / TWSP: 26S / RANGE: 29E / SECTION: 15 / LAT: 32.037654 / LONG: -103.9669553 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 100 FNL / 1860 FEL / TWSP: 26S / RANGE: 29E / SECTION: 22 / LAT: 32.0347426 / LONG: -103.969111 (TVD: 9765 feet, MD: 9900 feet)
PPP: NWSE / 2653 FNL / 1858 FEL / TWSP: 26S / RANGE: 29E / SECTION: 22 / LAT: 32.0275848 / LONG: -103.9691079 (TVD: 10289 feet, MD: 12783 feet)
PPP: NWNE / 0 FSL / 1860 FEL / TWSP: 26S / RANGE: 29E / SECTION: 27 / LAT: 32.0202669 / LONG: -103.9691048 (TVD: 10289 feet, MD: 15446 feet)
PPP: NWSE / 2644 FSL / 1858 FEL / TWSP: 26S / RANGE: 29E / SECTION: 27 / LAT: 32.0129907 / LONG: -103.9695117 (TVD: 10289 feet, MD: 18095 feet)
PPP: NWNE / 1322 FNL / 1860 FEL / TWSP: 26S / RANGE: 29E / SECTION: 27 / LAT: 32.0168228 / LONG: -103.9692915 (TVD: 10289 feet, MD: 16700 feet)
PPP: SWSE / 1322 FSL / 1861 FEL / TWSP: 26S / RANGE: 29E / SECTION: 27 / LAT: 32.0093561 / LONG: -103.9697206 (TVD: 10298 feet, MD: 19419 feet)
PPP: NWNE / 0 FNL / 1840 FEL / TWSP: 26S / RANGE: 29E / SECTION: 34 / LAT: 32.0025419 / LONG: -103.9698965 (TVD: 10298 feet, MD: 21900 feet)
BHL: LOT 11 / 50 FSL / 1830 FEL / TWSP: 26S / RANGE: 29E / SECTION: 34 / LAT: 32.0002381 / LONG: -103.9698551 (TVD: 10289 feet, MD: 22738 feet)

CONFIDENTIAL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-54661	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 333166	⁵ Property Name HORN 22-27-34 FED COM	⁶ Well Number 421H
⁷ OGRID No. 246289	⁸ Operator Name WPX ENERGY PERMIAN, LLC	⁹ Elevation 2927.9

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	26 S	29 E		918	SOUTH	1194	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
11	34	26 S	29 E		50	SOUTH	1530	EAST	EDDY

¹² Dedicated Acres 761.71	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p>HORN 22-27-34 FED COM 421H EL. = 2927.9 GEODETIC COORDINATES NAD 83 NMSP EAST SURFACE LOCATION N. = 377510.35 E. = 654868.73 LAT. = 32.0373266°N LONG. = 103.9669420°W</p> <p>KICK OFF POINT CALLS 11ENL-1230-FEL N. = 376565 E. = 654329 LAT. = 32.0346 LONG. = 103.9688</p> <p>FIRST TAKE POINT (PPP 1) 100' FNL, 1730' FEL N. = 376514.89 E. = 654330.50 LAT. = 32.0345951°N LONG. = 103.9686899°W</p> <p>LAST TAKE POINT 100' FSL, 1530' FEL N. = 364066.11 E. = 654311.01 LAT. = 32.0003743°N LONG. = 103.9688882°W</p> <p>BOTTOM OF HOLE 50' FSL, 1530' FEL N. = 364016.12 E. = 654311.15 LAT. = 32.0002369°N LONG. = 103.9688883°W</p> <p>PPP 2 2656' FNL, 1742' FEL N. = 373957.56 E. = 654326.49 LAT. = 32.0275652°N LONG. = 103.9687306°W</p> <p>PPP 3 0' FSL, 1736' FEL N. = 371295.09 E. = 654322.32 LAT. = 32.0202463°N LONG. = 103.9687731°W</p> <p>PPP 4 1326' FNL, 1704' FEL N. = 369966.30 E. = 654320.24 LAT. = 32.0165936°N LONG. = 103.9687943°W</p> <p>PPP 5 2652' FNL, 1645' FEL N. = 368636.94 E. = 654318.16 LAT. = 32.0129392°N LONG. = 103.9688154°W</p> <p>PPP 6 1316' FSL, 1586' FEL N. = 367299.53 E. = 654316.06 LAT. = 32.0092628°N LONG. = 103.9688368°W</p> <p>PPP 7 0' FNL, 1529' FEL N. = 368978.33 E. = 654313.99 LAT. = 32.0056309°N LONG. = 103.9688578°W</p> <p>PPP 8 1271' FNL, 1527' FEL N. = 364702.35 E. = 654312.01 LAT. = 32.0021233°N LONG. = 103.9688781°W</p> <p>CORNER COORDINATES TABLE NAD 83 NMSP EAST A - N. = 381920.64 E. = 656056.84 B - N. = 381960.33 E. = 653363.46 C - N. = 376577.84 E. = 653340.92 D - N. = 371363.59 E. = 653380.99 E - N. = 366085.87 E. = 653175.89 F - N. = 363961.71 E. = 653181.94 G - N. = 363972.11 E. = 655840.95 H - N. = 365834.55 E. = 655835.64 I - N. = 368499.89 E. = 655958.09 J - N. = 371167.17 E. = 656080.31 K - N. = 373856.87 E. = 656068.31 L - N. = 376540.01 E. = 656060.05 M - N. = 379229.78 E. = 656066.87</p> <p>LEGEND --- SECTION LINE --- QUARTER LINE --- LEASE LINE --- WELL PATH</p>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Chelsey Green</i> 01/31/2024 Signature Date</p> <p>Chelsey Green Printed Name</p> <p>chelsey.green@dvn.com E-mail Address</p>
		<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JANUARY 29, 2024 Date of Survey</p> <p><i>Michael F. Jaramillo</i> Signature and Seal of Professional Surveyor: 12797</p> <p>Certificate Number: 12797 NO. 9867B</p>

Intent ☒ As Drilled ☐

API #		
Operator Name: WPX ENERGY PERMIAN, LLC	Property Name: HORN 22-27-34 FED COM	Well Number 421H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	22	26S	29E		51	NORTH	1730	EAST	EDDY
Latitude 32.0346					Longitude -103.9688				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	22	26S	29E		100	NORTH	1730	EAST	EDDY
Latitude 32.0345951					Longitude 103.9686899				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	34	26S	29E	11	100	SOUTH	1530	EAST	EDDY
Latitude 32.0003743					Longitude 103.9688882				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

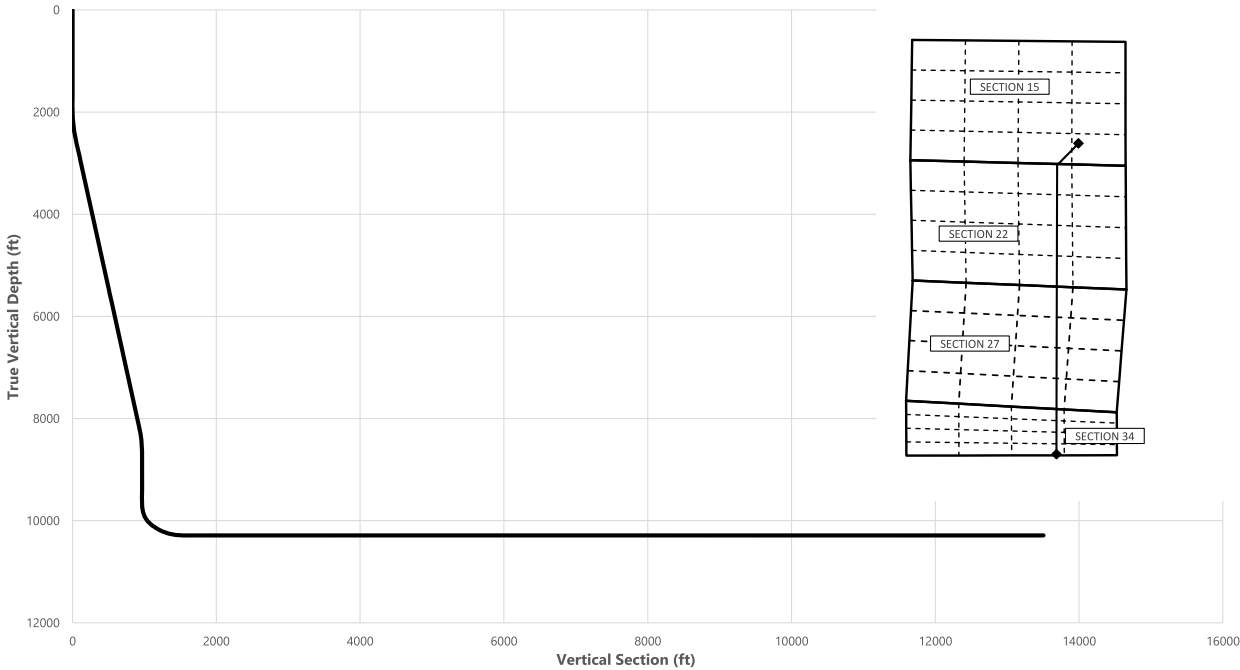
KZ 06/29/2018



Well: HORN 22-27-34 FED COM 421H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	209.75	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	209.75	2497.47	-37.79	-21.60	38.65	2.00	Hold Tangent
8266.29	10.00	209.75	8176.15	-907.12	-518.46	927.75	0.00	Drop to Vertical
8766.29	0.00	209.75	8673.62	-944.91	-540.06	966.40	2.00	Hold Vertical
9808.71	0.00	180.08	9716.04	-944.91	-540.06	966.40	0.00	KOP
10708.71	90.00	180.08	10289.00	-1517.86	-540.86	1538.90	10.00	Landing Point
22685.09	90.00	180.08	10289.00	-13494.23	-557.58	13505.74	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	600.00	600.00
Salt	1186.00	1186.00
Base of Salt	2985.92	2976.00
Delaware	2985.92	2976.00
Cherry Canyon	4041.96	4016.00
Brushy Canyon	5147.76	5105.00
1st Bone Spring Lime	6777.52	6710.00
Bone Spring 1st	6777.52	6710.00
Bone Spring 2nd	8350.21	8259.00
3rd Bone Spring Lime	8814.67	8722.00
Bone Spring 3rd	9628.67	9536.00
Wolfcamp / Point of Penetration	9968.74	9874.00
exit	22605.09	10289.02

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.0372	-103.9670	918' FSL, 1194' FWL of Sec 15 in T26S, R29E
9808.71	9716.04	32.0346	-103.9688	51' FNL, 1730' FEL of Sec 22 in T26S, R29E
9968.74	9874.00	32.0346	-103.9687	100' FNL, 1730' FEL of Sec 22 in T26S, R29E
22605.09	10289.02	32.0004	-103.9689	100' FSL, 1530' FEL of Sec 34 in T26S, R29E
22685.09	10289.00	32.0001	-103.9690	50' FSL, 1530' FEL of Sec 34 in T26S, R29E

	Y	X	MD
KOP	376565	654329	9808.71

HORN 22-27-34 FED COM 421H



Well: HORN 22-27-34 FED COM 421H
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	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	209.75	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	209.75	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	209.75	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	209.75	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	209.75	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	209.75	600.00	0.00	0.00	0.00	0.00	Rustler,
700.00	0.00	209.75	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	209.75	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	209.75	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	209.75	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	209.75	1100.00	0.00	0.00	0.00	0.00	
1186.00	0.00	209.75	1186.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	209.75	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	209.75	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	209.75	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	209.75	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	209.75	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	209.75	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	209.75	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	209.75	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	209.75	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	209.75	2099.98	-1.52	-0.87	1.55	2.00	
2200.00	4.00	209.75	2199.84	-6.06	-3.46	6.20	2.00	
2300.00	6.00	209.75	2299.45	-13.63	-7.79	13.94	2.00	
2400.00	8.00	209.75	2398.70	-24.21	-13.83	24.76	2.00	
2500.00	10.00	209.75	2497.47	-37.79	-21.60	38.65	2.00	Hold Tangent
2600.00	10.00	209.75	2595.95	-52.86	-30.21	54.06	0.00	
2700.00	10.00	209.75	2694.43	-67.94	-38.83	69.48	0.00	
2800.00	10.00	209.75	2792.91	-83.01	-47.45	84.90	0.00	
2900.00	10.00	209.75	2891.39	-98.09	-56.06	100.32	0.00	
2985.92	10.00	209.75	2976.00	-111.04	-63.47	113.57	0.00	Base of Salt, Delaware
3000.00	10.00	209.75	2989.87	-113.17	-64.68	115.74	0.00	
3100.00	10.00	209.75	3088.35	-128.24	-73.30	131.16	0.00	
3200.00	10.00	209.75	3186.83	-143.32	-81.91	146.58	0.00	
3300.00	10.00	209.75	3285.31	-158.40	-90.53	162.00	0.00	
3400.00	10.00	209.75	3383.79	-173.47	-99.15	177.42	0.00	
3500.00	10.00	209.75	3482.27	-188.55	-107.76	192.84	0.00	
3600.00	10.00	209.75	3580.75	-203.62	-116.38	208.25	0.00	
3700.00	10.00	209.75	3679.23	-218.70	-125.00	223.67	0.00	
3800.00	10.00	209.75	3777.72	-233.78	-133.61	239.09	0.00	
3900.00	10.00	209.75	3876.20	-248.85	-142.23	254.51	0.00	
4000.00	10.00	209.75	3974.68	-263.93	-150.85	269.93	0.00	
4041.96	10.00	209.75	4016.00	-270.25	-154.46	276.40	0.00	Cherry Canyon
4100.00	10.00	209.75	4073.16	-279.00	-159.46	285.35	0.00	
4200.00	10.00	209.75	4171.64	-294.08	-168.08	300.77	0.00	
4300.00	10.00	209.75	4270.12	-309.16	-176.70	316.19	0.00	
4400.00	10.00	209.75	4368.60	-324.23	-185.31	331.61	0.00	
4500.00	10.00	209.75	4467.08	-339.31	-193.93	347.03	0.00	
4600.00	10.00	209.75	4565.56	-354.38	-202.55	362.45	0.00	
4700.00	10.00	209.75	4664.04	-369.46	-211.16	377.86	0.00	
4800.00	10.00	209.75	4762.52	-384.54	-219.78	393.28	0.00	
4900.00	10.00	209.75	4861.00	-399.61	-228.40	408.70	0.00	
5000.00	10.00	209.75	4959.48	-414.69	-237.01	424.12	0.00	
5100.00	10.00	209.75	5057.97	-429.77	-245.63	439.54	0.00	
5147.76	10.00	209.75	5105.00	-436.97	-249.74	446.90	0.00	Brushy Canyon
5200.00	10.00	209.75	5156.45	-444.84	-254.25	454.96	0.00	
5300.00	10.00	209.75	5254.93	-459.92	-262.86	470.38	0.00	
5400.00	10.00	209.75	5353.41	-474.99	-271.48	485.80	0.00	
5500.00	10.00	209.75	5451.89	-490.07	-280.10	501.22	0.00	
5600.00	10.00	209.75	5550.37	-505.15	-288.71	516.64	0.00	
5700.00	10.00	209.75	5648.85	-520.22	-297.33	532.05	0.00	
5800.00	10.00	209.75	5747.33	-535.30	-305.95	547.47	0.00	
5900.00	10.00	209.75	5845.81	-550.37	-314.56	562.89	0.00	
6000.00	10.00	209.75	5944.29	-565.45	-323.18	578.31	0.00	
6100.00	10.00	209.75	6042.77	-580.53	-331.80	593.73	0.00	
6200.00	10.00	209.75	6141.25	-595.60	-340.41	609.15	0.00	
6300.00	10.00	209.75	6239.73	-610.68	-349.03	624.57	0.00	
6400.00	10.00	209.75	6338.22	-625.76	-357.65	639.99	0.00	
6500.00	10.00	209.75	6436.70	-640.83	-366.26	655.41	0.00	

HORN 22-27-34 FED COM 421H



Well: HORN 22-27-34 FED COM 421H
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
6600.00	10.00	209.75	6535.18	-655.91	-374.88	670.83	0.00	
6700.00	10.00	209.75	6633.66	-670.98	-383.50	686.24	0.00	
6777.52	10.00	209.75	6710.00	-682.67	-390.18	698.20	0.00	1st Bone Spring Lime, Bone Spring 1st
6800.00	10.00	209.75	6732.14	-686.06	-392.11	701.66	0.00	
6900.00	10.00	209.75	6830.62	-701.14	-400.73	717.08	0.00	
7000.00	10.00	209.75	6929.10	-716.21	-409.35	732.50	0.00	
7100.00	10.00	209.75	7027.58	-731.29	-417.96	747.92	0.00	
7200.00	10.00	209.75	7126.06	-746.36	-426.58	763.34	0.00	
7300.00	10.00	209.75	7224.54	-761.44	-435.20	778.76	0.00	
7400.00	10.00	209.75	7323.02	-776.52	-443.81	794.18	0.00	
7500.00	10.00	209.75	7421.50	-791.59	-452.43	809.60	0.00	
7600.00	10.00	209.75	7519.99	-806.67	-461.05	825.02	0.00	
7700.00	10.00	209.75	7618.47	-821.74	-469.66	840.43	0.00	
7800.00	10.00	209.75	7716.95	-836.82	-478.28	855.85	0.00	
7900.00	10.00	209.75	7815.43	-851.90	-486.90	871.27	0.00	
8000.00	10.00	209.75	7913.91	-866.97	-495.51	886.69	0.00	
8100.00	10.00	209.75	8012.39	-882.05	-504.13	902.11	0.00	
8200.00	10.00	209.75	8110.87	-897.13	-512.75	917.53	0.00	
8266.29	10.00	209.75	8176.15	-907.12	-518.46	927.75	0.00	Drop to Vertical
8300.00	9.33	209.75	8209.38	-912.03	-521.27	932.77	2.00	
8350.21	8.32	209.75	8259.00	-918.72	-525.09	939.61	2.00	Bone Spring 2nd
8400.00	7.33	209.75	8308.33	-924.60	-528.45	945.63	2.00	
8500.00	5.33	209.75	8407.71	-934.17	-533.92	955.41	2.00	
8600.00	3.33	209.75	8507.42	-940.72	-537.66	962.11	2.00	
8700.00	1.33	209.75	8607.33	-944.24	-539.68	965.72	2.00	
8766.29	0.00	209.75	8673.62	-944.91	-540.06	966.40	2.00	Hold Vertical
8800.00	0.00	180.08	8707.33	-944.91	-540.06	966.40	0.00	
8814.67	0.00	180.08	8722.00	-944.91	-540.06	966.40	0.00	3rd Bone Spring Lime
8900.00	0.00	180.08	8807.33	-944.91	-540.06	966.40	0.00	
9000.00	0.00	180.08	8907.33	-944.91	-540.06	966.40	0.00	
9100.00	0.00	180.08	9007.33	-944.91	-540.06	966.40	0.00	
9200.00	0.00	180.08	9107.33	-944.91	-540.06	966.40	0.00	
9300.00	0.00	180.08	9207.33	-944.91	-540.06	966.40	0.00	
9400.00	0.00	180.08	9307.33	-944.91	-540.06	966.40	0.00	
9500.00	0.00	180.08	9407.33	-944.91	-540.06	966.40	0.00	
9600.00	0.00	180.08	9507.33	-944.91	-540.06	966.40	0.00	
9628.67	0.00	180.08	9536.00	-944.91	-540.06	966.40	0.00	Bone Spring 3rd
9700.00	0.00	180.08	9607.33	-944.91	-540.06	966.40	0.00	
9800.00	0.00	180.08	9707.33	-944.91	-540.06	966.40	0.00	
9808.71	0.00	180.08	9716.04	-944.91	-540.06	966.40	0.00	KOP
9900.00	9.13	180.08	9806.94	-952.16	-540.07	973.65	10.00	
9968.74	16.00	180.08	9874.00	-967.11	-540.09	988.58	10.00	Wolfcamp / Point of Penetration
10000.00	19.13	180.08	9903.79	-976.54	-540.10	998.01	10.00	
10100.00	29.13	180.08	9994.94	-1017.37	-540.16	1038.80	10.00	
10200.00	39.13	180.08	10077.61	-1073.40	-540.24	1094.79	10.00	
10300.00	49.13	180.08	10149.30	-1142.94	-540.33	1164.27	10.00	
10400.00	59.13	180.08	10207.82	-1223.87	-540.45	1245.14	10.00	
10500.00	69.13	180.08	10251.40	-1313.73	-540.57	1334.93	10.00	
10600.00	79.13	180.08	10278.72	-1409.80	-540.71	1430.92	10.00	
10700.00	89.13	180.08	10288.93	-1509.15	-540.84	1530.19	10.00	
10708.71	90.00	180.08	10289.00	-1517.86	-540.86	1538.90	10.00	Landing Point
10800.00	90.00	180.08	10289.00	-1609.15	-540.99	1630.11	0.00	
10900.00	90.00	180.08	10289.00	-1709.15	-541.12	1730.03	0.00	
11000.00	90.00	180.08	10289.00	-1809.15	-541.26	1829.95	0.00	
11100.00	90.00	180.08	10289.00	-1909.15	-541.40	1929.87	0.00	
11200.00	90.00	180.08	10289.00	-2009.15	-541.54	2029.79	0.00	
11300.00	90.00	180.08	10289.00	-2109.15	-541.68	2129.71	0.00	
11400.00	90.00	180.08	10289.00	-2209.15	-541.82	2229.63	0.00	
11500.00	90.00	180.08	10289.00	-2309.15	-541.96	2329.55	0.00	
11600.00	90.00	180.08	10289.00	-2409.15	-542.10	2429.47	0.00	
11700.00	90.00	180.08	10289.00	-2509.15	-542.24	2529.40	0.00	
11800.00	90.00	180.08	10289.00	-2609.15	-542.38	2629.32	0.00	
11900.00	90.00	180.08	10289.00	-2709.15	-542.52	2729.24	0.00	
12000.00	90.00	180.08	10289.00	-2809.15	-542.66	2829.16	0.00	
12100.00	90.00	180.08	10289.00	-2909.15	-542.80	2929.08	0.00	
12200.00	90.00	180.08	10289.00	-3009.15	-542.94	3029.00	0.00	
12300.00	90.00	180.08	10289.00	-3109.15	-543.08	3128.92	0.00	
12400.00	90.00	180.08	10289.00	-3209.15	-543.21	3228.84	0.00	
12500.00	90.00	180.08	10289.00	-3309.15	-543.35	3328.76	0.00	
12600.00	90.00	180.08	10289.00	-3409.15	-543.49	3428.68	0.00	


HORN 22-27-34 FED COM 421H



Well: HORN 22-27-34 FED COM 421H
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
12700.00	90.00	180.08	10289.00	-3509.15	-543.63	3528.60	0.00	
12800.00	90.00	180.08	10289.00	-3609.15	-543.77	3628.52	0.00	
12900.00	90.00	180.08	10289.00	-3709.15	-543.91	3728.44	0.00	
13000.00	90.00	180.08	10289.00	-3809.15	-544.05	3828.36	0.00	
13100.00	90.00	180.08	10289.00	-3909.15	-544.19	3928.28	0.00	
13200.00	90.00	180.08	10289.00	-4009.15	-544.33	4028.20	0.00	
13300.00	90.00	180.08	10289.00	-4109.15	-544.47	4128.12	0.00	
13400.00	90.00	180.08	10289.00	-4209.15	-544.61	4228.04	0.00	
13500.00	90.00	180.08	10289.00	-4309.15	-544.75	4327.96	0.00	
13600.00	90.00	180.08	10289.00	-4409.15	-544.89	4427.88	0.00	
13700.00	90.00	180.08	10289.00	-4509.15	-545.03	4527.80	0.00	
13800.00	90.00	180.08	10289.00	-4609.15	-545.17	4627.72	0.00	
13900.00	90.00	180.08	10289.00	-4709.15	-545.31	4727.64	0.00	
14000.00	90.00	180.08	10289.00	-4809.15	-545.44	4827.56	0.00	
14100.00	90.00	180.08	10289.00	-4909.15	-545.58	4927.48	0.00	
14200.00	90.00	180.08	10289.00	-5009.15	-545.72	5027.40	0.00	
14300.00	90.00	180.08	10289.00	-5109.15	-545.86	5127.33	0.00	
14400.00	90.00	180.08	10289.00	-5209.15	-546.00	5227.25	0.00	
14500.00	90.00	180.08	10289.01	-5309.14	-546.14	5327.17	0.00	
14600.00	90.00	180.08	10289.01	-5409.14	-546.28	5427.09	0.00	
14700.00	90.00	180.08	10289.01	-5509.14	-546.42	5527.01	0.00	
14800.00	90.00	180.08	10289.01	-5609.14	-546.56	5626.93	0.00	
14900.00	90.00	180.08	10289.01	-5709.14	-546.70	5726.85	0.00	
15000.00	90.00	180.08	10289.01	-5809.14	-546.84	5826.77	0.00	
15100.00	90.00	180.08	10289.01	-5909.14	-546.98	5926.69	0.00	
15200.00	90.00	180.08	10289.01	-6009.14	-547.12	6026.61	0.00	
15300.00	90.00	180.08	10289.01	-6109.14	-547.26	6126.53	0.00	
15400.00	90.00	180.08	10289.01	-6209.14	-547.40	6226.45	0.00	
15500.00	90.00	180.08	10289.01	-6309.14	-547.54	6326.37	0.00	
15600.00	90.00	180.08	10289.01	-6409.14	-547.67	6426.29	0.00	
15700.00	90.00	180.08	10289.01	-6509.14	-547.81	6526.21	0.00	
15800.00	90.00	180.08	10289.01	-6609.14	-547.95	6626.13	0.00	
15900.00	90.00	180.08	10289.01	-6709.14	-548.09	6726.05	0.00	
16000.00	90.00	180.08	10289.01	-6809.14	-548.23	6825.97	0.00	
16100.00	90.00	180.08	10289.01	-6909.14	-548.37	6925.89	0.00	
16200.00	90.00	180.08	10289.01	-7009.14	-548.51	7025.81	0.00	
16300.00	90.00	180.08	10289.01	-7109.14	-548.65	7125.73	0.00	
16400.00	90.00	180.08	10289.01	-7209.14	-548.79	7225.65	0.00	
16500.00	90.00	180.08	10289.01	-7309.14	-548.93	7325.57	0.00	
16600.00	90.00	180.08	10289.01	-7409.14	-549.07	7425.49	0.00	
16700.00	90.00	180.08	10289.01	-7509.14	-549.21	7525.41	0.00	
16800.00	90.00	180.08	10289.01	-7609.14	-549.35	7625.34	0.00	
16900.00	90.00	180.08	10289.01	-7709.14	-549.49	7725.26	0.00	
17000.00	90.00	180.08	10289.01	-7809.14	-549.63	7825.18	0.00	
17100.00	90.00	180.08	10289.01	-7909.14	-549.76	7925.10	0.00	
17200.00	90.00	180.08	10289.01	-8009.14	-549.90	8025.02	0.00	
17300.00	90.00	180.08	10289.01	-8109.14	-550.04	8124.94	0.00	
17400.00	90.00	180.08	10289.01	-8209.14	-550.18	8224.86	0.00	
17500.00	90.00	180.08	10289.01	-8309.14	-550.32	8324.78	0.00	
17600.00	90.00	180.08	10289.01	-8409.14	-550.46	8424.70	0.00	
17700.00	90.00	180.08	10289.01	-8509.14	-550.60	8524.62	0.00	
17800.00	90.00	180.08	10289.01	-8609.14	-550.74	8624.54	0.00	
17900.00	90.00	180.08	10289.01	-8709.14	-550.88	8724.46	0.00	
18000.00	90.00	180.08	10289.01	-8809.14	-551.02	8824.38	0.00	
18100.00	90.00	180.08	10289.01	-8909.14	-551.16	8924.30	0.00	
18200.00	90.00	180.08	10289.01	-9009.14	-551.30	9024.22	0.00	
18300.00	90.00	180.08	10289.01	-9109.14	-551.44	9124.14	0.00	
18400.00	90.00	180.08	10289.01	-9209.14	-551.58	9224.06	0.00	
18500.00	90.00	180.08	10289.01	-9309.14	-551.72	9323.98	0.00	
18600.00	90.00	180.08	10289.01	-9409.14	-551.86	9423.90	0.00	
18700.00	90.00	180.08	10289.01	-9509.14	-551.99	9523.82	0.00	
18800.00	90.00	180.08	10289.01	-9609.14	-552.13	9623.74	0.00	
18900.00	90.00	180.08	10289.01	-9709.14	-552.27	9723.66	0.00	
19000.00	90.00	180.08	10289.01	-9809.14	-552.41	9823.58	0.00	
19100.00	90.00	180.08	10289.01	-9909.14	-552.55	9923.50	0.00	
19200.00	90.00	180.08	10289.01	-10009.14	-552.69	10023.42	0.00	
19300.00	90.00	180.08	10289.01	-10109.14	-552.83	10123.35	0.00	
19400.00	90.00	180.08	10289.01	-10209.14	-552.97	10223.27	0.00	
19500.00	90.00	180.08	10289.01	-10309.14	-553.11	10323.19	0.00	
19600.00	90.00	180.08	10289.01	-10409.14	-553.25	10423.11	0.00	



Well: HORN 22-27-34 FED COM 421H

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Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19700.00	90.00	180.08	10289.01	-10509.14	-553.39	10523.03	0.00	
19800.00	90.00	180.08	10289.01	-10609.14	-553.53	10622.95	0.00	
19900.00	90.00	180.08	10289.01	-10709.14	-553.67	10722.87	0.00	
20000.00	90.00	180.08	10289.01	-10809.14	-553.81	10822.79	0.00	
20100.00	90.00	180.08	10289.01	-10909.14	-553.95	10922.71	0.00	
20200.00	90.00	180.08	10289.01	-11009.14	-554.08	11022.63	0.00	
20300.00	90.00	180.08	10289.01	-11109.14	-554.22	11122.55	0.00	
20400.00	90.00	180.08	10289.01	-11209.14	-554.36	11222.47	0.00	
20500.00	90.00	180.08	10289.01	-11309.14	-554.50	11322.39	0.00	
20600.00	90.00	180.08	10289.01	-11409.14	-554.64	11422.31	0.00	
20700.00	90.00	180.08	10289.01	-11509.14	-554.78	11522.23	0.00	
20800.00	90.00	180.08	10289.01	-11609.14	-554.92	11622.15	0.00	
20900.00	90.00	180.08	10289.01	-11709.14	-555.06	11722.07	0.00	
21000.00	90.00	180.08	10289.01	-11809.14	-555.20	11821.99	0.00	
21100.00	90.00	180.08	10289.01	-11909.14	-555.34	11921.91	0.00	
21200.00	90.00	180.08	10289.01	-12009.14	-555.48	12021.83	0.00	
21300.00	90.00	180.08	10289.01	-12109.14	-555.62	12121.75	0.00	
21400.00	90.00	180.08	10289.01	-12209.14	-555.76	12221.67	0.00	
21500.00	90.00	180.08	10289.01	-12309.14	-555.90	12321.59	0.00	
21600.00	90.00	180.08	10289.01	-12409.14	-556.04	12421.51	0.00	
21700.00	90.00	180.08	10289.01	-12509.14	-556.18	12521.43	0.00	
21800.00	90.00	180.08	10289.01	-12609.14	-556.31	12621.35	0.00	
21900.00	90.00	180.08	10289.01	-12709.14	-556.45	12721.28	0.00	
22000.00	90.00	180.08	10289.01	-12809.14	-556.59	12821.20	0.00	
22100.00	90.00	180.08	10289.02	-12909.14	-556.73	12921.12	0.00	
22200.00	90.00	180.08	10289.02	-13009.14	-556.87	13021.04	0.00	
22300.00	90.00	180.08	10289.02	-13109.14	-557.01	13120.96	0.00	
22400.00	90.00	180.08	10289.02	-13209.14	-557.15	13220.88	0.00	
22500.00	90.00	180.08	10289.02	-13309.14	-557.29	13320.80	0.00	
22600.00	90.00	180.08	10289.02	-13409.14	-557.43	13420.72	0.00	
22605.09	90.00	180.08	10289.02	-13414.23	-557.44	13425.81	0.00	exit
22685.09	90.00	180.08	10289.00	-13494.23	-557.58	13505.74	0.00	BHL

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1. Geologic Formations

TVD of target	10289	Pilot hole depth	N/A
MD at TD:	22685	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	600		
Salt	1186		
Base of Salt	2976		
Delaware	2976		
Cherry Canyon	4016		
Brushy Canyon	5105		
1st Bone Spring Lime	6710		
Bone Spring 1st	6710		
Bone Spring 2nd	8259		
3rd Bone Spring Lime	8722		
Bone Spring 3rd	9536		
Wolfcamp	9874		

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

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2. Casing Program (Primary Design)

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	0.0	625 MD	0	625 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	3001 MD	0	3001 TVD
9 7/8	8 5/8	32.0	P110	MOFXL	0	9708 MD	0	9708 TVD
7 7/8	5 1/2	20.0	P110HP	CDC+HTQ	0	22685 MD	0	10289 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 (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	491	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	188	Surf	9	3.27	Lead: Class C Cement + additives
	101	2501	13.2	1.44	Tail: Class H / C + additives
Int 1	208	Surf	9	3.27	Lead: Class C Cement + additives
	534	5105	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	270	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
	208	Surf	9	3.27	Lead: Class C Cement + additives
	534	5105	13.2	1.44	Tail: Class H / C + additives
Production	117	7809	9	3.27	Lead: Class H / C + additives
	1704	9809	13.2	1.44	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%
Intermediate 1 (Two Stage)	25%
Prod	10%

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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 (5M)		X	100% 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.					
N	A variance is requested to run a 5 M annular on a 10M system					

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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	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
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5618
Abnormal temperature	No

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S 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 pa.
- 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. A 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

X Directional Plan
 Other, describe

15-26-29-P Sundry ID 2772625 Horn 22-27-34 Fed Com 421H Eddy NM21767 DEVON ENERGY PRODUCTION COMPANY LP 13-22g 1-30 2024 LV

Horn 22-27-34 Fed Com 421H

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		41.75	6.45	1.67	375	16	2.80	12.17	20,438
"B"					btc					0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500														
				Tail Cmt	does not	circ to sfc.		Totals:		375				
Comparison of Proposed to Minimum Required Cement Volumes														
Hole	Annular	1 Stage		1 Stage	Min	1 Stage	Drilling	Calc	Req'd			Min Dist		
Size	Volume	Cmt Sx		CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE			Hole-Cplg		
17 1/2	0.6946	491		707	260	171	9.00	977	2M			1.56		
Site plot (pipe racks 3 or 4) as per D.D. 1.30 (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 sc	3.71	1.28	0.79	3,001	2	1.49	2.14	136,546
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,196								Totals:	3,001			136,546
The cement volume(s) are intended to achieve a top of								0	ft from surface or a		375	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.1882	289	760	583	30	10.50	2403	3M				0.50
D V Tool(s):						sum of sx		Σ CuFt				Σ%excess
by stage %:						#VALUE!		#VALUE!				
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	mo-fox	2.54	0.95	1.11	9,708	1	1.87	1.79	310,656
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 139								Totals:		9,708		310,656
		The cement volume(s) are intended to achieve a top of				2801	ft from surface or a		200			overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	742	1449	873	66	9.00	3349	5M				0.63
Setting Depths for D V Tool(s):			5105	sum of sx			Σ CuFt					Σ%excess
% excess cmt by stage:		150	33	1012				1838			111	
Class 'C' tail cmt yld > 1.35												

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	cdc-htq	3.11	2.17	2.25	22,685	2	3.77	3.64	453,700
"B"								0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,264								Totals:	22,685			453,700	
The cement volume(s) are intended to achieve a top of						9508	ft from surface or a		200			overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist	
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg	
7 7/8	0.1733	1821	2836	2284	24	10.50						0.79	
Class 'H' tail cmt yld > 1.20													
Capitan Reef est top XXXX.													

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

CONDITIONS

Action 309885

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 309885
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	1/31/2024