U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: CLAWHAMMER 33-28-21 FEDERAL COM	Well Location: T26S / R30E / SEC 33 / LOT 2 / 32.001381 / -103.882545	County or Parish/State: EDDY / NM
Well Number: 330H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0480904A	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> WPX ENERGY PERMIAN LLC	

# **Notice of Intent**

Sundry ID: 2851628

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/07/2025

Date proposed operation will begin: 05/08/2025

Type of Action: APD Change Time Sundry Submitted: 10:56

**Procedure Description:** WPX Energy Permian, LLC respectfully requests a BHL move, and drill plan change for the subject well (API ID 10400098807). WPX also requests break test and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted BHL: UL: J, 2620 FSL, 1390 FEL, 21-26S-30E Proposed BHL: UL: K, 2620 FSL, 2310 FWL, 21-26S-30E

**NOI Attachments** 

#### **Procedure Description**

Offline\_Cementing\_\_\_Variance\_Request\_20250507105543.pdf

Break\_Test\_Variance\_Offline\_BOP\_2\_3\_2025\_20250507105526.pdf

5.5\_20lb\_P110\_ICY\_20250507105511.pdf

8.625\_32lb\_P110\_ICY\_20250507105455.pdf

10.75\_45.5lb\_J55\_BTC\_20250507105430.pdf

13.375\_54.5lb\_J55\_20250507105406.pdf

CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_Directional\_Plan\_04\_23\_25\_20250507105343.pdf

CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_4\_23\_20250507105331.pdf

WA022432389\_CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_WL\_R2\_SIGNED\_20250507105318.pdf

Received by OCD: 5/21/2025 2:46:18 PM Well Name: CLAWHAMMER 33-28-21 FEDERAL COM	Well Location: T26S / R30E / SEC 33 / LOT 2 / 32.001381 / -103.882545	County or Parish/State: EDBY? of a
Well Number: 330H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0480904A	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> WPX ENERGY PERMIAN LLC	
l		)

# **Conditions of Approval**

#### **Specialist Review**

Clawhammer\_33\_28\_21\_Federal\_Com\_330H\_Sundry\_ID\_2851628\_20250521123930.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

Name: WPX ENERGY PERMIAN LLCTitle: Regulatory ProfessionalStreet Address: 333 WEST SHERIDAN AVENUECity: OKLAHOMA CITYState: OK

State:

**Operator Electronic Signature: AMY BROWN** 

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name: Street Address: City: Phone: Email address:

# **BLM Point of Contact**

BLM POC Name: LONG VO BLM POC Phone: 5759885402 Disposition: Approved Signature: Long Vo Signed on: MAY 07, 2025 10:55 AM

BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV

Zip:

Disposition Date: 05/21/2025

### Received by OCD: 5/21/2025 2:46:18 PM

eceived by OCD: 5/21/2	25 2:46:18 PM	Page 3 of 61
Form 3160-5 UNITED STATES (June 2019) DEPARTMENT OF THE INTERIOR		FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
	BUREAU OF LAND MANAGEMENT	5. Lease Serial NO.
Do not use	RY NOTICES AND REPORTS ON WELLS his form for proposals to drill or to re-enter a ell. Use Form 3160-3 (APD) for such proposa	
SUBI	T IN TRIPLICATE - Other instructions on page 2	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	Gas Well Other	8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area c	ode) 10. Field and Pool or Exploratory Area
4. Location of Well (Footage, S	c., T.,R.,M., or Survey Description)	11. Country or Parish, State
1	CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATU	RE OF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION	-	TYPE OF ACTION
Notice of Intent	Acidize Deepen Alter Casing Hydraulic Fracturing	<ul> <li>Production (Start/Resume)</li> <li>Water Shut-Off</li> <li>Reclamation</li> <li>Well Integrity</li> </ul>
Subsequent Report	Casing Repair New Construction Change Plans Plug and Abandon	Recomplete   Other     Temporarily Abandon
Final Abandonment Not	Convert to Injection Plug Back	Water Disposal
the proposal is to deepen di the Bond under which the v completion of the involved	ctionally or recomplete horizontally, give subsurface locations an rk will be perfonned or provide the Bond No. on file with BLM/E berations. If the operation results in a multiple completion or reco	ated starting date of any proposed work and approximate duration thereof. If d measured and true vertical depths of all pertinent markers and zones. Attach 3IA. Required subsequent reports must be filed within 30 days following mpletion in a new interval, a Form 3160-4 must be filed once testing has been lamation, have been completed and the operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )		
	Title	
	2	
Signature	Date	
THE SPACE FOR FEDE	RAL OR STATE O	FICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lead which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		llfully to make to any department or agency of the United States

#### **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: LOT 2 / 453 FSL / 1520 FEL / TWSP: 26S / RANGE: 30E / SECTION: 33 / LAT: 32.001381 / LONG: -103.882545 ( TVD: 0 feet, MD: 0 feet ) PPP: LOT 2 / 100 FSL / 1390 FEL / TWSP: 26S / RANGE: 30E / SECTION: 33 / LAT: 32.00041 / LONG: -103.882128 ( TVD: 9223 feet, MD: 9257 feet ) PPP: SWSE / 119 FSL / 1393 FEL / TWSP: 26S / RANGE: 30E / SECTION: 21 / LAT: 32.0209979 / LONG: -103.8821621 ( TVD: 9875 feet, MD: 17200 feet ) PPP: SWSE / 137 FSL / 1394 FEL / TWSP: 26S / RANGE: 30E / SECTION: 28 / LAT: 32.0064286 / LONG: -103.8821319 ( TVD: 9875 feet, MD: 11900 feet ) PPP: SWNE / 2481 FNL / 1394 FEL / TWSP: 26S / RANGE: 30E / SECTION: 28 / LAT: 32.0138507 / LONG: -103.8821473 ( TVD: 9875 feet, MD: 14600 feet ) BHL: NWSE / 2620 FSL / 1390 FEL / TWSP: 26S / RANGE: 30E / SECTION: 21 / LAT: 32.027872 / LONG: -103.882176 ( TVD: 9875 feet, MD: 14701 feet )

#### **Offline Cementing**

#### Variance Request

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.

# Section 2 - Blowout Preventer Testing Procedure

## Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressurecontaining and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

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

Devon requests Break testing as stated above for 5K tests, not including production hole

Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole



#### Received by OCD: 5/21/2025 2:46:18 PM

Tenaris

TenarisHydril Wedge 461<sup>®</sup>



Coupling

Grade: P110-ICY Body: White 1st Band: Pale Green 2nd Band: -3rd Band: -

Printed on: 02 Roge of 61

Pipe Body
Grade: P110-ICY
1st Band: White
2nd Band: Pale Green
3rd Band: Pale Green
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	Туре	Casing
Connection OD Option	REGULAR				

#### Pipe Body Data

Geometry	
Nominal OD	5.500 in.
Nominal Weight	20.00 lb/ft
Drift	4.653 in.
Nominal ID	4.778 in.

Wall Thickness	0.361 in.
Plain End Weight	19.83 lb/ft
OD Tolerance	API

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

Porformanco

Maximum

#### **Connection Data**

Geometry	
Connection OD	6.300 in.
Coupling Length	7.714 in.
Connection ID	4.778 in.
Make-up Loss	3.775 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 ft
External Pressure Capacity	12,300 psi
Coupling Face Load	329,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb

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 interchonacoble. interchangeable

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

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### Released to Imaging: 5/28/2025 4:08:12 PM

#### Received by OCD: 5/21/2025 2:46:18 PM

Tenaris

# TenarisHy 441<sup>®</sup> - AD



90.00 %	Pipe Body Drift	Alternative Drift	Туре		Casing
8.625 in.	Wall Thickness	0.352 in.	Grade		P110-ICY
ydril Wedg )	e	Body:	nd: Pale Green and: -	Grade: P110-ICY 1st Band: White 2nd Band: Pale Green 3rd Band: Pale Green 4th Band: - 5th Band: - 6th Band: -	

Coupling

**Pipe Body Data** 

Geome

Nominal

Nominal

Nominal

Drift

**Outside Diameter** 

Min. Wall Thickness

**Connection OD Option** 

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

. e . .

REGULAR

#### Performance

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

Pipe Body

#### **Connection Data**

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

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

Make-Up Torques	
Minimum	23,000 ft-Ib
Optimum	24,000 ft-Ib
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	59,000 ft-Ib
Yield Torque	70,000 ft-Ib
Buck-On	
Minimum	27,000 ft-Ib
Maximum	29,000 ft-Ib

#### Notes

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

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<u>10-3/4"</u>	<u>45.50#</u>	<u>0.400"</u>	<u>J-55</u>	
Dimensions (	(Nominal)			
Outside Diameter Wall Inside Diameter Drift			10.750 0.400 9.950 9.875	in. in. in. in.
Weight, T&C Weight, PE			45.500 44.260	lbs/ft lbs/ft
Performance	<u>Properties</u>		2090	psi
Internal Yield Pres	sure at Minimum Yield			
	PE		3580	psi
	STC BTC		3580 3580	psi psi
Yield Strength, Pip	e Body		715	1000 lbs
Joint Strength				
_	STC		493	1000 lbs
	втс		796	1000 lbs
	BTC Special Clearance (	11.25" OD Cplg)	506	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.



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

# **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.

devon		1	County: Wellbore:	CLAWHAMI Eddy Permit Plan Permit Plan		21 FEDERAL C	COM 330H			Geode	Datum: Ellipsoid:	US State Plane 1983 North American Datum 1927 Clarke 1866 3001 - NM East (NAD83)
			MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
			(ft) 0.00 2000.00 2750.00 7943.93 8693.93	(°) 0.00 0.00 15.00 15.00	(°) 0.00 254.55 254.55 254.55	(ft) 0.00 2000.00 2741.46 7758.42 8499.88	(ft) 0.00 0.00 -26.00 -384.12	(ft) 0.00 -94.09 -1389.80 -1483.89	(ft) 0.00 0.00 -10.71 -158.27	(°/100ft) 0.00 0.00 2.00 0.00 2.00	SHL Start Tanger Hold Tanger Drop to Vert Hold Vertica	nt tical
			9419.10 10319.10 19784.04	0.00 0.00 90.00 90.00	254.55 359.62 359.62 359.62	9225.04 9798.00 9798.00	-410.12 -410.12 162.82 9627.56	-1483.89 -1483.89 -1487.69 -1550.46	-168.98 -168.98 397.28 9751.61	0.00 10.00 0.00	KOP Landing Poir BHL	
	0											
	2000											SECTION 21
l Depth (ft)	4000											
True Vertical Depth (ft)	6000 8000											SECTION 33
	10000											
	12000 -2	000	0		2000		400	D	60	00		8000 10000 1
			MD TVD				Vertical Section (ft)					
	Key D Rustle Salt Base c	r of Salt		(ft) 675.00 1506.00 3366.55	(ft) 675.00 1506.00 3337.00				MD (ft)	TVD (ft)	Lat (°)	Long Section Footages
	Brushy Bone S Bone S 3rd Bo	/ Canyon y Canyon Spring 1st Spring 2nd	e / Point of Pen		3337.00 4621.00 5611.00 8301.00 8929.00 9223.00		SHL KOP Point of Po Exit BHL	enetration	0.00 9419.10 9417.06 19704.04 19784.04	9223.00 9798.01	32.0004 32.0276	-103.8826 453' FSL, 1520' FEL of Sec 33 in T26S, R30 -103.8873 50' FSL, 2310' FWL of Sec 33 in T26S, R30 -103.8873 100' FSL, 2310' FWL of Sec 33 in T26S, R30 -103.8874 2540' FSL, 2310' FWL of Sec 21 in T26S, R30 -103.8875 2620' FSL, 2310' FWL of Sec 21 in T26S, R30
	exit			19704.04	9798.01				КОР	<b>Y</b> 364123	<b>X</b> 679591	<b>MD</b> 9419.10

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levon		County: Wellbore:	Eddy Permit Plan		1 FEDERAL C	OM 330H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
		Design:	Permit Plan	#1					<b>Zone:</b> 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	254.55	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	254.55	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	254.55	300.00	0.00	0.00	0.00	0.00	
	400.00 500.00	0.00 0.00	254.55 254.55	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	600.00	0.00	254.55	600.00	0.00	0.00	0.00	0.00	
	675.00	0.00	254.55	675.00	0.00	0.00	0.00	0.00	Rustler
	700.00	0.00	254.55	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	254.55	800.00	0.00	0.00	0.00	0.00	
	900.00 1000.00	0.00 0.00	254.55 254.55	900.00 1000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1100.00	0.00	254.55	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	254.55	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	254.55	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	254.55	1400.00	0.00	0.00	0.00	0.00	
	1500.00 1506.00	0.00 0.00	254.55 254.55	1500.00 1506.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Salt
	1600.00	0.00	254.55 254.55	1506.00 1600.00	0.00	0.00	0.00	0.00	Salt
	1700.00	0.00	254.55	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	254.55	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	254.55	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	254.55	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00 2200.00	2.00 4.00	254.55 254.55	2099.98 2199.84	-0.46 -1.86	-1.68 -6.73	-0.19 -0.77	2.00 2.00	
	2300.00	6.00	254.55	2299.45	-4.18	-15.13	-1.72	2.00	
	2400.00	8.00	254.55	2398.70	-7.43	-26.87	-3.06	2.00	
	2500.00	10.00	254.55	2497.47	-11.59	-41.95	-4.78	2.00	
	2600.00	12.00	254.55	2595.62	-16.68	-60.34	-6.87	2.00	
	2700.00 2750.00	14.00 15.00	254.55 254.55	2693.06 2741.46	-22.67 -26.00	-82.02 -94.09	-9.34 -10.71	2.00 2.00	Hold Tangent
	2800.00	15.00	254.55	2789.76	-29.45	-106.56	-12.13	0.00	hold rangent
	2900.00	15.00	254.55	2886.35	-36.35	-131.51	-14.98	0.00	
	3000.00	15.00	254.55	2982.94	-43.24	-156.45	-17.82	0.00	
	3100.00	15.00	254.55	3079.54	-50.14	-181.40	-20.66	0.00	
	3200.00 3300.00	15.00 15.00	254.55 254.55	3176.13 3272.72	-57.03 -63.93	-206.35 -231.29	-23.50 -26.34	0.00 0.00	
	3366.55	15.00	254.55	3337.00	-68.52	-231.29	-28.23	0.00	Base of Salt, Delaware
	3400.00	15.00	254.55	3369.31	-70.82	-256.24	-29.18	0.00	
	3500.00	15.00	254.55	3465.91	-77.72	-281.19	-32.02	0.00	
	3600.00	15.00	254.55	3562.50	-84.61	-306.13	-34.86	0.00	
	3700.00	15.00	254.55	3659.09	-91.51	-331.08	-37.70	0.00	
	3800.00 3900.00	15.00 15.00	254.55 254.55	3755.68 3852.28	-98.40 -105.30	-356.03 -380.97	-40.54 -43.38	0.00 0.00	
	4000.00	15.00	254.55	3948.87	-112.19	-405.92	-46.22	0.00	
	4100.00	15.00	254.55	4045.46	-119.09	-430.87	-49.07	0.00	
	4200.00	15.00	254.55	4142.05	-125.98	-455.81	-51.91	0.00	
	4300.00 4400.00	15.00 15.00	254.55	4238.65	-132.88 -139.77	-480.76 -505.71	-54.75 -57.59	0.00 0.00	
	4400.00 4500.00	15.00 15.00	254.55 254.55	4335.24 4431.83	-139.77 -146.67	-505.71 -530.65	-57.59 -60.43	0.00	
	4600.00	15.00	254.55	4528.42	-153.56	-555.60	-63.27	0.00	
	4695.84	15.00	254.55	4621.00	-160.17	-579.51	-65.99	0.00	Cherry Canyon
	4700.00	15.00	254.55	4625.02	-160.46	-580.55	-66.11	0.00	
	4800.00	15.00	254.55	4721.61	-167.35 -174.25	-605.49	-68.95 71 79	0.00	
	4900.00 5000.00	15.00 15.00	254.55 254.55	4818.20 4914.80	-174.25 -181.14	-630.44 -655.39	-71.79 -74.63	0.00 0.00	
	5100.00	15.00	254.55	5011.39	-188.04	-680.33	-77.47	0.00	
	5200.00	15.00	254.55	5107.98	-194.93	-705.28	-80.31	0.00	
	5300.00	15.00	254.55	5204.57	-201.83	-730.23	-83.16	0.00	
	5400.00	15.00	254.55	5301.17	-208.72	-755.17	-86.00	0.00	
	5500.00 5600.00	15.00 15.00	254.55 254.55	5397.76 5494.35	-215.62 -222.51	-780.12 -805.07	-88.84 -91.68	0.00 0.00	
	5700.00	15.00	254.55	5494.55 5590.94	-222.51	-830.07	-94.52	0.00	
	5720.76	15.00	254.55	5611.00	-230.84	-835.19	-95.11	0.00	Brushy Canyon
	5800.00	15.00	254.55	5687.54	-236.30	-854.96	-97.36	0.00	-
	5900.00	15.00	254.55	5784.13	-243.20	-879.90	-100.20	0.00	
	6000.00	15.00	254.55	5880.72	-250.09	-904.85	-103.04	0.00	
	6100.00 6200.00	15.00 15.00	254.55 254.55	5977.31 6073.91	-256.99 -263.88	-929.80 -954.74	-105.88 -108.72	0.00 0.00	
	6300.00	15.00	254.55	6170.50	-270.78	-979.69	-111.56	0.00	

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devon				IMER 33-28-2	1 FEDERAL C	OM 330H				US State Plane 1983
aevon		County:								North American Datum 1927
			Permit Plar Permit Plar						•	Clarke 1866 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
-	6400.00	15.00	254.55	6267.09	-277.67	-1004.64	-114.40	0.00		
	6500.00 6600.00	15.00 15.00	254.55 254.55	6363.68 6460.28	-284.57 -291.46	-1029.58 -1054.53	-117.25 -120.09	0.00 0.00		
	6700.00	15.00	254.55	6556.87	-291.46	-1034.53	-120.09	0.00		
	6800.00	15.00	254.55	6653.46	-305.25	-1104.42	-125.77	0.00		
	6900.00	15.00	254.55	6750.05	-312.15	-1129.37	-128.61	0.00		
	7000.00	15.00	254.55	6846.65	-319.04	-1154.32	-131.45	0.00		
	7100.00 7200.00	15.00 15.00	254.55 254.55	6943.24 7039.83	-325.94 -332.83	-1179.26 -1204.21	-134.29 -137.13	0.00 0.00		
	7300.00	15.00	254.55	7136.42	-339.73	-1229.16	-139.97	0.00		
	7400.00	15.00	254.55	7233.02	-346.62	-1254.10	-142.81	0.00		
	7500.00	15.00	254.55	7329.61	-353.51	-1279.05	-145.65	0.00		
	7600.00 7700.00	15.00 15.00	254.55 254.55	7426.20 7522.80	-360.41 -367.30	-1304.00 -1328.94	-148.49 -151.34	0.00 0.00		
	7800.00	15.00	254.55	7619.39	-374.20	-1353.89	-154.18	0.00		
	7900.00	15.00	254.55	7715.98	-381.09	-1378.84	-157.02	0.00		
	7943.93	15.00	254.55	7758.42	-384.12	-1389.80	-158.27	0.00	Drop to Vertical	
	8000.00	13.88	254.55	7812.71	-387.84	-1403.27	-159.79	2.00		
	8100.00 8200.00	11.88 9.88	254.55 254.55	7910.19 8008.39	-393.78 -398.81	-1424.76 -1442.95	-162.24 -164.31	2.00 2.00		
	8300.00	7.88	254.55	8107.19	-402.92	-1457.82	-166.01	2.00		
	8400.00	5.88	254.55	8206.46	-406.11	-1469.36	-167.32	2.00		
	8494.89	3.98	254.55	8301.00	-408.28	-1477.22	-168.22	2.00	Bone Spring 1st	
	8500.00 8600.00	3.88 1.88	254.55 254.55	8306.09 8405.96	-408.38 -409.71	-1477.56 -1482.40	-168.25 -168.81	2.00 2.00		
	8693.93	0.00	254.55	8499.88	-409.71	-1482.40	-168.98	2.00	Hold Vertical	
	8700.00	0.00	359.62	8505.94	-410.12	-1483.89	-168.97	0.00		
	8800.00	0.00	359.62	8605.94	-410.12	-1483.89	-168.97	0.00		
	8900.00	0.00	359.62	8705.94	-410.12	-1483.89	-168.97	0.00		
	9000.00 9100.00	0.00 0.00	359.62 359.62	8805.94 8905.94	-410.12 -410.12	-1483.89 -1483.89	-168.97 -168.97	0.00 0.00		
	9123.06	0.00	359.62	8929.00	-410.12	-1483.89	-168.97	0.00	Bone Spring 2nd	
	9200.00	0.00	359.62	9005.94	-410.12	-1483.89	-168.97	0.00		
	9300.00	0.00	359.62	9105.94	-410.12	-1483.89	-168.97	0.00		
	9400.00 9417.06	0.00 0.00	359.62 359.62	9205.94 9223.00	-410.12 -410.12	-1483.89 -1483.89	-168.97 -168.97	0.00 0.00	3rd Bone Spring L	ime / Point of Penetration
	9419.10	0.00	359.62	9225.04	-410.12	-1483.89	-168.98	0.00	KOP	
	9500.00	8.09	359.62	9305.68	-404.42	-1483.92	-163.34	10.00		
	9600.00	18.09	359.62	9402.95	-381.80	-1484.07	-140.98	10.00		
	9700.00 9800.00	28.09 38.09	359.62 359.62	9494.83 9578.50	-342.63 -288.11	-1484.33 -1484.70	-102.27 -48.38	10.00 10.00		
	9900.00	48.09	359.62	9651.44	-219.88	-1485.15	19.05	10.00		
	10000.00	58.09	359.62	9711.42	-140.03	-1485.68	97.97	10.00		
	10100.00 10200.00	68.09	359.62	9756.62	-50.97	-1486.27	185.99	10.00		
	10200.00	78.09 88.09	359.62 359.62	9785.67 9797.68	44.58 143.73	-1486.90 -1487.56	280.43 378.42	10.00 10.00		
	10319.10	90.00	359.62	9798.00	162.82	-1487.69	397.28	10.00	Landing Point	
	10400.00	90.00	359.62	9798.00	243.72	-1488.22	477.24	0.00		
	10500.00	90.00	359.62	9798.00 9798.00	343.72	-1488.89 -1489.55	576.08	0.00		
	10600.00 10700.00	90.00 90.00	359.62 359.62	9798.00 9798.00	443.72 543.72	-1489.55 -1490.21	674.91 773.74	0.00 0.00		
	10800.00	90.00	359.62	9798.00	643.71	-1490.88	872.57	0.00		
	10900.00	90.00	359.62	9798.00	743.71	-1491.54	971.40	0.00		
	11000.00	90.00	359.62 359.62	9798.00	843.71	-1492.21	1070.23	0.00		
	11100.00 11200.00	90.00 90.00	359.62 359.62	9798.00 9798.00	943.71 1043.70	-1492.87 -1493.53	1169.06 1267.89	0.00 0.00		
	11300.00	90.00	359.62	9798.00	1143.70	-1494.20	1366.73	0.00		
	11400.00	90.00	359.62	9798.00	1243.70	-1494.86	1465.56	0.00		
	11500.00	90.00	359.62	9798.00	1343.70	-1495.52	1564.39	0.00		
	11600.00 11700.00	90.00 90.00	359.62 359.62	9798.00 9798.00	1443.70 1543.69	-1496.19 -1496.85	1663.22 1762.05	0.00 0.00		
	11800.00	90.00	359.62	9798.00	1643.69	-1497.52	1860.88	0.00		
	11900.00	90.00	359.62	9798.00	1743.69	-1498.18	1959.71	0.00		
	12000.00	90.00	359.62	9798.00	1843.69	-1498.84	2058.54	0.00		
	12100.00 12200.00	90.00 90.00	359.62 359.62	9798.00 9798.00	1943.69 2043.68	-1499.51 -1500.17	2157.38 2256.21	0.00 0.00		
	12300.00	90.00	359.62	9798.00 9798.00	2143.68	-1500.83	2355.04	0.00		
	12400.00	90.00	359.62	9798.00	2243.68	-1501.50	2453.87	0.00		
	12500.00	90.00	359.62	9798.00	2343.68	-1502.16	2552.70	0.00		
	12600.00	90.00	359.62	9798.00	2443.67	-1502.83	2651.53	0.00		

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		Well	CLAWHAM	IMER 33-28-2	1 FEDERAL	OM 330H			Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
		Wellbore:	Permit Plar	ı					Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
-	12700.00	90.00	359.62	9798.00	2543.67	-1503.49	2750.36	0.00	
	12800.00	90.00	359.62	9798.00	2643.67	-1504.15	2849.20	0.00	
	12900.00 13000.00	90.00 90.00	359.62 359.62	9798.00 9798.00	2743.67 2843.67	-1504.82 -1505.48	2948.03 3046.86	0.00 0.00	
	13100.00	90.00	359.62	9798.00 9798.00	2943.66	-1506.14	3145.69	0.00	
	13200.00	90.00	359.62	9798.00	3043.66	-1506.81	3244.52	0.00	
	13300.00	90.00	359.62	9798.00	3143.66	-1507.47	3343.35	0.00	
	13400.00 13500.00	90.00 90.00	359.62 359.62	9798.00 9798.00	3243.66 3343.65	-1508.14 -1508.80	3442.18	0.00 0.00	
	13600.00	90.00	359.62	9798.00 9798.00	3343.65 3443.65	-1508.80	3541.01 3639.85	0.00	
	13700.00	90.00	359.62	9798.00	3543.65	-1510.13	3738.68	0.00	
	13800.00	90.00	359.62	9798.00	3643.65	-1510.79	3837.51	0.00	
	13900.00	90.00	359.62	9798.00	3743.65	-1511.45	3936.34	0.00	
	14000.00 14100.00	90.00 90.00	359.62 359.62	9798.00 9798.01	3843.64 3943.64	-1512.12 -1512.78	4035.17 4134.00	0.00 0.00	
	14200.00	90.00	359.62	9798.01	4043.64	-1513.45	4232.83	0.00	
	14300.00	90.00	359.62	9798.01	4143.64	-1514.11	4331.66	0.00	
	14400.00	90.00	359.62	9798.01	4243.63	-1514.77	4430.50	0.00	
	14500.00 14600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	4343.63 4443.63	-1515.44 -1516.10	4529.33 4628.16	0.00 0.00	
	14700.00	90.00	359.62	9798.01	4543.63	-1516.76	4726.99	0.00	
	14800.00	90.00	359.62	9798.01	4643.63	-1517.43	4825.82	0.00	
	14900.00	90.00	359.62	9798.01	4743.62	-1518.09	4924.65	0.00	
	15000.00 15100.00	90.00 90.00	359.62 359.62	9798.01 9798.01	4843.62 4943.62	-1518.76 -1519.42	5023.48 5122.31	0.00 0.00	
	15200.00	90.00	359.62	9798.01	4943.02 5043.62	-1520.08	5221.15	0.00	
	15300.00	90.00	359.62	9798.01	5143.61	-1520.75	5319.98	0.00	
	15400.00	90.00	359.62	9798.01	5243.61	-1521.41	5418.81	0.00	
	15500.00 15600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	5343.61 5443.61	-1522.07 -1522.74	5517.64 5616.47	0.00 0.00	
	15700.00	90.00	359.62	9798.01	5543.61	-1523.40	5715.30	0.00	
	15800.00	90.00	359.62	9798.01	5643.60	-1524.07	5814.13	0.00	
	15900.00	90.00	359.62	9798.01	5743.60	-1524.73	5912.96	0.00	
	16000.00 16100.00	90.00 90.00	359.62 359.62	9798.01 9798.01	5843.60 5943.60	-1525.39 -1526.06	6011.80 6110.63	0.00 0.00	
	16200.00	90.00	359.62	9798.01	6043.59	-1526.72	6209.46	0.00	
	16300.00	90.00	359.62	9798.01	6143.59	-1527.38	6308.29	0.00	
	16400.00	90.00	359.62	9798.01	6243.59	-1528.05	6407.12	0.00	
	16500.00 16600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	6343.59 6443.59	-1528.71 -1529.38	6505.95 6604.78	0.00 0.00	
	16700.00	90.00	359.62	9798.01	6543.58	-1530.04	6703.61	0.00	
	16800.00	90.00	359.62	9798.01	6643.58	-1530.70	6802.45	0.00	
	16900.00	90.00	359.62	9798.01	6743.58	-1531.37	6901.28	0.00	
	17000.00 17100.00	90.00 90.00	359.62 359.62	9798.01 9798.01	6843.58 6943.57	-1532.03 -1532.69	7000.11 7098.94	0.00 0.00	
	17200.00	90.00	359.62	9798.01	7043.57	-1533.36	7197.77	0.00	
	17300.00	90.00	359.62	9798.01	7143.57	-1534.02	7296.60	0.00	
	17400.00	90.00	359.62	9798.01	7243.57	-1534.69	7395.43	0.00	
	17500.00 17600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	7343.57 7443.56	-1535.35 -1536.01	7494.27 7593.10	0.00 0.00	
	17700.00	90.00	359.62	9798.01	7543.56	-1536.68	7691.93	0.00	
	17800.00	90.00	359.62	9798.01	7643.56	-1537.34	7790.76	0.00	
	17900.00	90.00	359.62	9798.01	7743.56	-1538.00	7889.59	0.00	
	18000.00 18100.00	90.00 90.00	359.62 359.62	9798.01 9798.01	7843.56 7943.55	-1538.67 -1539.33	7988.42 8087.25	0.00 0.00	
	18200.00	90.00	359.62	9798.01	8043.55	-1540.00	8186.08	0.00	
	18300.00	90.00	359.62	9798.01	8143.55	-1540.66	8284.92	0.00	
	18400.00	90.00	359.62	9798.01	8243.55	-1541.32	8383.75	0.00	
	18500.00 18600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	8343.54 8443.54	-1541.99 -1542.65	8482.58 8581.41	0.00 0.00	
	18600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	8443.54 8543.54	-1542.65 -1543.31	8581.41 8680.24	0.00	
	18800.00	90.00	359.62	9798.01	8643.54	-1543.98	8779.07	0.00	
	18900.00	90.00	359.62	9798.01	8743.54	-1544.64	8877.90	0.00	
	19000.00	90.00	359.62	9798.01	8843.53	-1545.31	8976.73	0.00	
	19100.00 19200.00	90.00 90.00	359.62 359.62	9798.01 9798.01	8943.53 9043.53	-1545.97 -1546.63	9075.57 9174.40	0.00 0.00	
	19300.00	90.00	359.62	9798.01	9143.53	-1547.30	9273.23	0.00	
	19400.00	90.00	359.62	9798.01	9243.52	-1547.96	9372.06	0.00	
	19500.00	90.00	359.62	9798.01 9798.01	9343.52	-1548.62	9470.89	0.00	
	19600.00	90.00	359.62	9798.01	9443.52	-1549.29	9569.72	0.00	

.

von		County: Wellbore:			1 FEDERAL C	COM 330H			Datum: Ellipsoid:	US State Plane 1983 North American Datum 1927 Clarke 1866 3001 - NM East (NAD83)
	MD (ft)	<b>INC</b> (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Comment	
	19700.00 19704.04 19784.04	90.00 90.00 90.00	359.62 359.62 359.62	9798.01 9798.01 9798.00	9543.52 9547.56 9627.56	-1549.95 -1549.98 -1550.46	9668.55 9672.55 9751.61	0.00 0.00 0.00	exit BHL	

•

#### 1. Geologic Formations

TVD of target	9798	Pilot hole depth	N/A
MD at TD:	19784	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	675		
Salt	1506		
Base of Salt	3337		
Delaware	3337		
Cherry Canyon	4621		
Brushy Canyon	5611		
Bone Spring 1st	8301		
Bone Spring 2nd	8929		
3rd Bone Spring Lime	9223		

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

2. Casing Pr	rogram							
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	700 MD	0	700 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0	3390 MD	0	3390 TVD
9 7/8	8 5/8	32.0	P110-ICY	441	0	9319	0	9319
7 7/8	5 1/2	20.0	P110-ICY	461	0	19784 MD	0	9798 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 (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	544	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	215	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	101	2890	13.2	1.4	Tail: Class H / C + additives
Int 1	230	Surf	9.0	3.3	Lead: Class C Cement + additives
Int I	432	5611	13.2	1.4	Tail: Class H / C + additives
Int 1	230	Surf	0.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	230	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	432	5611	13.2	1.4	Tail: Class H / C + additives
Production	119	7419	9.0	3.3	Lead: Class H /C + additives
FIGUUCUOII	1372	9419	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%

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:			
			An	nular	Х	50% of rated working pressure			
Int	13-5/8"	5M	Bline	d Ram	Х				
Int	15-5/0	5111		e Ram		5M			
			Doub	le Ram	X	5101			
			Other*						
	13-5/8"		An	nular	х	50% of rated working pressure			
Int 1		5M	5M	5M	5M	5M	Bline	d Ram	Х
Int I	13-3/8			e Ram		5M			
			Double Ram		X	JIVI			
			Other*						
			Annul	ar (5M)	Х	50% of rated working			
			Blind Ram Pipe Ram Double Ram			pressure			
Production	13-5/8"	5M			Х				
	15-5/6					5M			
					Х				
			Other*	1					

#### 4. Pressure Control Equipment (Four String Design)

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#### 5. Mud Program (Four String Design)

Section	Туре	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

#### 6. Logging and Testing Procedures

Logging, C	Logging, Coring and Testing									
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the									
Х	Completion Report and sbumitted 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.									

Additiona	al logs planned	Interval
	Resistivity	
	Density	
Х	CBL	Production casing
	Mud log	KOP to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4585
Abnormal temperature	No

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

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

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.

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

Attachments

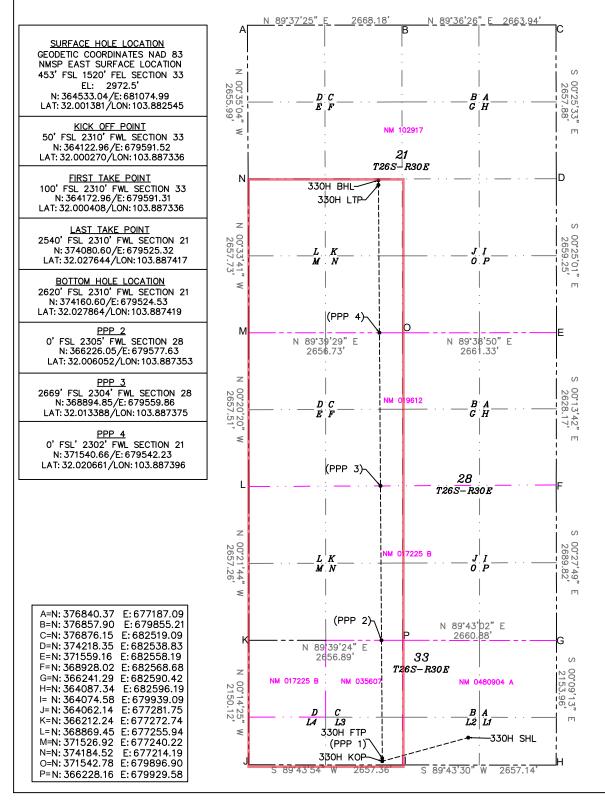
X Directional Plan Other, describe

Submit I	Hectronically				ls & Nati	ural	ew Mexico Resources Depa ION DIVISI			Rev	rised July, 2024	
Submit Electronically Via OCD Permitting								Submittal	X Initial Submittal			
								Type:	Amended Repor	t		
										As Drilled		
				W	ELL LOCA	ATIC	ON INFORMATIO	N				
API N	lumber		Pool Cod				ool Name					
				97863			WILDCA	T G-03 S2	63016K;	BONE SPRING		
Prope	erty Code		Property	Property Name			-28-21 FFDFRAI	СОМ		Well Number 330H	Well Number	
	6137		Operator			Ground Le					Elevation	
Sumfo		□State □	  Foo □Twil			(DICO				ee □Tribal XFederal		
Suria	ce owner:		ree 🗆 I m	Dal Alfee	ierai		mineral owner:			Iribai Arederai		
					S	Surfa	ce Location					
UL	Section	Township	Range	Lot	Ft. from	N/S	Ft. from E/W	Latitude		Longitude	County	
	33	26-S	30-E	2	453'	$\mathbf{S}$	1520'E	32.001	381	103.882545	EDDY	
					Bo	ttom	Hole Location					
UL	Section	Township	Range	Lot	Ft. from		1	Latitude		Longitude	County	
Κ	21	26-S	30-E		2620'		2310' W	32.027	864	103.887419	EDDY	
										1001001110		
Dedicat	ted Acres	Infill or Def	ining Well	Defining	Well API (	)verla	apping Spacing Uni	t (Y/N)	Consolio	dation Code		
	9.58		_	SUBJEC								
	9.38 Numbers	DEFIN		SOBJEC.		W-11 -	<u>N</u> setbacks are under	. C	01			
order	Numbers	PENDIN	IG NSP			a en s	setbacks are under	common	Owners	nip: gites ⊡No		
					Kick	Off	Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from	N/S	Ft. from E/W	Latitude		Longitude	County	
	33	26-S	30-E	3	50' \$	5	2310' W	32.000	270	103.887336	EDDY	
					T2/4	- m - 1						
UL	Section	Township	Range	Lot	First Ft. from		te Point (FTP) Ft. from E/W	Latitude		Longitude	County	
0L	33	26-S	30-E	3	100'		2310' W	32.000		103.887336	EDDY	
	00	20 5	90 B	Ŭ				52.000	400	100.007000	EDD1	
							te Point (LTP)					
	Section	Township	Range	Lot	Ft. from			Latitude		Longitude	County	
K	21	26-S	30-E		2540'	S	2310' W	32.027	644	103.887417	EDDY	
Unitize	ed Area or Ai	rea of Uniform	Interest		Spaci	ng U	Unit Type Horizontal Vertical Ground Floor Elev			vation:		
		Y					X			N/A		
OPERA	TOR CERTI	FICATIONS				S	SURVEYOR CERTIFIC	ATIONS				
		e information con belief, and, if the					I hereby certify that the we	ell location she	own on this	plat was plotted from fiel	ld notes	
organiza	tion either own	ns a working inte	rest or unlease	ed mineral in	terest in the lan	nd 🤇	of actual surveys made by		upervision,			
		bottom hole loc contract with an o				6	correct to the best of my be	ener.		TR. L	DEL	
	interest, or to a	voluntary pooli				ler				BER	DEHOLOS	
	re entered by t	he division.								T EN MEX	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		If this well is a horizontal well, I further certify that this organization has received the									$ \setminus $ $   $	
heretofo If this w				consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's								
heretofo If this we consent	of at least one	lessee or owner	of a working in		part of the wel	15					1 1 1 ~ 1	
heretofo If this we consent interest in complete	of at least one in each tract (ir ed interval will	lessee or owner	of a working in or formation) i	n which any						PR Alles	14,5 /	
heretofo If this we consent i complete division.	of at least one in each tract (ir ed interval will	lessee or owner the target pool be located or ob	of a working in or formation) i otained a comp	n which any ulsory poolii							A BO	
heretofo If this we consent of interest in complete division.	of at least one in each tract (ir ed interval will W.A.	lessee or owner on the target pool	of a working in or formation) i otained a comp	n which any		he	ignature and Seal	of Profe	ssional	ROTO	SUR TO	
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heretofo If this w consent interest i complete division. Signa Amy Print amy	of at least one in each tract (ir ed interval will yure Brown	lessee or owner of a the target pool be located or of Brown	of a working in or formation) i otained a comp 05/06	n which any ulsory poolii		he			Survey	ROTO	S SH	

#### 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.



<i>Cerved by UCD: \$/21/2025 2:46:18 PM</i> U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: CLAWHAMMER 33-28-21 FEDERAL COM	Well Location: T26S / R30E / SEC 33 / LOT 2 / 32.001381 / -103.882545	County or Parish/State: EDDY / NM
Well Number: 330H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0480904A	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> WPX ENERGY PERMIAN LLC	

# **Notice of Intent**

Sundry ID: 2851628

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/07/2025

Date proposed operation will begin: 05/08/2025

Type of Action: APD Change Time Sundry Submitted: 10:56

**Procedure Description:** WPX Energy Permian, LLC respectfully requests a BHL move, and drill plan change for the subject well (API ID 10400098807). WPX also requests break test and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted BHL: UL: J, 2620 FSL, 1390 FEL, 21-26S-30E Proposed BHL: UL: K, 2620 FSL, 2310 FWL, 21-26S-30E

**NOI Attachments** 

#### **Procedure Description**

Offline\_Cementing\_\_\_Variance\_Request\_20250507105543.pdf

Break\_Test\_Variance\_Offline\_BOP\_2\_3\_2025\_20250507105526.pdf

5.5\_20lb\_P110\_ICY\_20250507105511.pdf

8.625\_32lb\_P110\_ICY\_20250507105455.pdf

10.75\_45.5lb\_J55\_BTC\_20250507105430.pdf

13.375\_54.5lb\_J55\_20250507105406.pdf

CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_Directional\_Plan\_04\_23\_25\_20250507105343.pdf

CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_4\_23\_20250507105331.pdf

WA022432389\_CLAWHAMMER\_33\_28\_21\_FEDERAL\_COM\_330H\_WL\_R2\_SIGNED\_20250507105318.pdf

Received by OCD: 5/21/2025 2:46:18 PM Well Name: CLAWHAMMER 33-28-21 FEDERAL COM	Well Location: T26S / R30E / SEC 33 / LOT 2 / 32.001381 / -103.882545	County or Parish/State: EBB? of NM
Well Number: 330H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0480904A	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> 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: AMY BROWN** 

Signed on: MAY 07, 2025 10:55 AM

Name: WPX ENERGY PERMIAN LLC

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

# Field

Representative Name: Street Address: City: Phone: Email address:

State:

State: OK

Zip:

APPROVED by Long Vo

Petroleum Engineer Carlsbad Field Office 575-988-50402 LVO@BLM.GOV

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	WPX Energy Permian LLC	•
	Section 33, T.26 S., R.30 E., NMPM	
COUNTY:	Eddy County, New Mexico	•

WELL NAME & NO.:	Clawhammer 33-28-21 Federal Com 330H
ATS/API ID:	ATS-24-1761
APD ID:	10400098807
Sundry ID:	2851628

# COA

H2S	No		
Potash	None	None	
Cave/Karst Potential	Medium 🔻		
Cave/Karst Potential	Critical		
Variance	○ None	• Flex Hose	O Other
Wellhead	Conventional and Multibowl	▼	
Other	✓4 String □5 String	Capitan Reef None	WIPP
Other	Pilot Hole None	Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 2	Primary Cement Squeeze None
Special Requirements	Water Disposal/Injection	COM	🗌 Unit
Special Requirements	Batch Sundry	Waste Prevention None	
Special Requirements Variance	<ul><li>☑ BOPE Break Testing</li><li>☑ Offline BOPE Testing</li></ul>	Offline Cementing	Casing Clearance

# A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

# **B.** CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately **700 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 <u>8</u> <u>hours</u> 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 5611'.
- 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 230 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. <u>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 <u>BH to verify TOC.</u></u>

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 <u>Medium Cave/Karst Areas</u> 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.

# 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. Annular which shall be tested to 2100 (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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

# **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 (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.

# **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 **Intermediate(s) interval**.

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 2<sup>nd</sup> 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.

- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>8 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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
- 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) 5/21/2025

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ecenter by OCD. 3/21/2023 2.40.10 1 M				1 uge 50 0j (
June 2019)     UNITED STATES       DEPARTMENT OF THE INTERIOR       BUREAU OF LAND MANAGEMENT		ON	RM APPROVED 1B No. 1004-0137 es: 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.			6. If Indian, Allottee or Tribe Na	ime
	IN TRIPLICATE - Other inst	ructions on page 2	7. If Unit of CA/Agreement, Na	me and/or No.
1. Type of 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 Explorator	ry Area	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)			11. Country or Parish, State	
12. 0	CHECK THE APPROPRIATE I	BOX(ES) TO INDICATE NATURE (	DF NOTICE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION		TYPE	E OF ACTION	
Notice of Intent	Acidize	Deepen [ Hydraulic Fracturing ]	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Recomplete Temporarily Abandon	Other
Final Abandonment Notice	Convert to Injectio	n Plug Back	Water Disposal	
the proposal is to deepen direct the Bond under which the work completion of the involved ope	ionally or recomplete horizonta will be perfonned or provide t rations. If the operation results	Ily, give subsurface locations and me he Bond No. on file with BLM/BIA. I in a multiple completion or recomple	asured and true vertical depths of Required subsequent reports must tion in a new interval, a Form 316	and approximate duration thereof. If all pertinent markers and zones. Attach be filed within 30 days following 50-4 must be filed once testing has been e operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )		
1	Fitle	
Signatura	Date	
Signature		
THE SPACE FOR FEDE	RAL OR STATE OF	FICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject least which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		llfully to make to any department or agency of the United States

(Instructions on page 2)

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: LOT 2 / 453 FSL / 1520 FEL / TWSP: 26S / RANGE: 30E / SECTION: 33 / LAT: 32.001381 / LONG: -103.882545 ( TVD: 0 feet, MD: 0 feet ) PPP: LOT 2 / 100 FSL / 1390 FEL / TWSP: 26S / RANGE: 30E / SECTION: 33 / LAT: 32.00041 / LONG: -103.882128 ( TVD: 9223 feet, MD: 9257 feet ) PPP: SWSE / 119 FSL / 1393 FEL / TWSP: 26S / RANGE: 30E / SECTION: 21 / LAT: 32.0209979 / LONG: -103.8821621 ( TVD: 9875 feet, MD: 17200 feet ) PPP: SWSE / 137 FSL / 1394 FEL / TWSP: 26S / RANGE: 30E / SECTION: 28 / LAT: 32.0064286 / LONG: -103.8821319 ( TVD: 9875 feet, MD: 11900 feet ) PPP: SWNE / 2481 FNL / 1394 FEL / TWSP: 26S / RANGE: 30E / SECTION: 28 / LAT: 32.0138507 / LONG: -103.8821473 ( TVD: 9875 feet, MD: 14600 feet ) BHL: NWSE / 2620 FSL / 1390 FEL / TWSP: 26S / RANGE: 30E / SECTION: 21 / LAT: 32.027872 / LONG: -103.882176 ( TVD: 9875 feet, MD: 14701 feet )

#### **Offline Cementing**

#### Variance Request

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.

## Section 2 - Blowout Preventer Testing Procedure

## Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressurecontaining and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

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

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 form 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 complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole



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Tenaris

TenarisHydril Wedge 461<sup>®</sup>



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729 x1000 lb

23,100 ft-lb

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

Coupling

Grade: P110-ICY Body: White 1st Band: Pale Green

2nd Band: -3rd Band: -

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

#### Pipe Body Data

Geometry	
Nominal OD	5.500 in.
Nominal Weight	20.00 lb/ft
Drift	4.653 in.
Nominal ID	4.778 in.

Wall Thickness	0.361 in.
Plain End Weight	19.83 lb/fi
OD Tolerance	API

# **Body Yield Strength** Min Internal Vield Press

Performance

Maximum

Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

#### **Connection Data**

Geometry	
Connection OD	6.300 in.
Coupling Length	7.714 in.
Connection ID	4.778 in.
Make-up Loss	3.775 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 ft
External Pressure Capacity	12,300 psi
Coupling Face Load	329,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-Ib
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-Ib
Buck-On	
Minimum	21,600 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 interchonacoble. interchangeable

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

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#### Received by OCD: 5/21/2025 2:46:18 PM

Tenaris

# TenarisHydril Wedge 441<sup>®</sup> - AD



	Tipe body
Y	Grade: P110-ICY
ř	
	1st Band: White
Green	2nd Band: Pale Green
	3rd Band: Pale Green
	4th Band: -
	5th Band: -
	6th Band: -

Pine Rody

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

#### **Pipe Body Data**

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

# Performance

Coupling

Grade: P110-IC) Body: White 1st Band: Pale ( 2nd Band: -3rd Band: -

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

#### **Connection Data**

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

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

Make-Up Torques	
Minimum	23,000 ft-Ib
Optimum	24,000 ft-Ib
Maximum	27,000 ft-Ib
Operation Limit Torques	
Operating Torque	59,000 ft-Ib
Yield Torque	70,000 ft-Ib
Buck-On	
Minimum	27,000 ft-Ib
Maximum	29,000 ft-Ib

#### Notes

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

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<u>10-3/4"</u>	<u>45.50#</u>	<u>0.400"</u>	<u>J-55</u>	
<b>Dimensions</b>	(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
<u>Performance</u>	Properties			
Collapse			2090	psi
Internal Yield Pres	sure at Minimum Yield			
	PE		3580	psi
	STC		3580	psi
	ВТС		3580	psi
Yield Strength, Pip	e Body		715	1000 lbs
Joint Strength				
	STC		493	1000 lbs
	BTC		796	1000 lbs
	BTC Special Clearance (	11.25" OD Cplg)	506	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.



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

# **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.

ev	on	1	County: Wellbore:	CLAWHAMI Eddy Permit Plan Permit Plan		21 FEDERAL (	COM 330H			Geode	Datum: Ellipsoid:	US State Plane 1983 North American Datum 1927 Clarke 1866 3001 - NM East (NAD83)
			MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
			(ft) 0.00 2000.00 2750.00 7943.93	(°) 0.00 0.00 15.00 15.00	(°) 0.00 254.55 254.55 254.55	(ft) 0.00 2000.00 2741.46 7758.42	(ft) 0.00 0.00 -26.00 -384.12	(ft) 0.00 0.00 -94.09 -1389.80	(ft) 0.00 0.00 -10.71 -158.27	(°/100ft) 0.00 0.00 2.00 0.00	SHL Start Tanger Hold Tanger Drop to Vert	nt
			8693.93 9419.10 10319.10 19784.04	0.00 0.00 90.00 90.00	254.55 359.62 359.62 359.62	8499.88 9225.04 9798.00 9798.00	-410.12 -410.12 162.82 9627.56	-1483.89 -1483.89 -1487.69 -1550.46	-168.98 -168.98 397.28 9751.61	2.00 0.00 10.00 0.00	Hold Vertica KOP Landing Poin BHL	
	0											
	2000											
epth (ft)	4000											SECTION 28
True Vertical Depth (ft)	6000 8000											SECTION 33
	10000											
	12000	000	0		2000		400	0		00		8000 10000 1
	-		Ū					rtical Section				
	Key D Rustle Salt Base c			MD (ft) 675.00 1506.00 3366.55	TVD (ft) 675.00 1506.00 3337.00				MD (ft)	TVD (ft)	Lat (°)	Long Section Footages
	Delaw Cherry Brushy Bone S Bone S 3rd Bo	are / Canyon y Canyon Spring 1st Spring 2nd	e / Point of Pen	3366.55 4695.84 5720.76 8494.89 9123.06 9417.06	3337.00 4621.00 5611.00 8301.00 8929.00 9223.00		SHL KOP Point of P Exit BHL	enetration	0.00 9419.10 9417.06 19704.04 19784.04	0.00 9225.04 9223.00 9798.01	32.0013 4 32.0002 32.0004 32.0276	
	exit			19704.04	9798.01				КОР	<b>Y</b> 364123	<b>X</b> 679591	<b>MD</b> 9419.10

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on		County:		MER 33-28-2	1 FEDERAL C	OM 330H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
			Permit Plar						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	254.55	100.00	0.00	0.00	0.00	0.00	0.12
	200.00	0.00	254.55	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	254.55	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	254.55	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	254.55	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	254.55	600.00	0.00	0.00	0.00	0.00	
	675.00	0.00	254.55	675.00	0.00	0.00	0.00	0.00	Rustler
	700.00	0.00	254.55	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	254.55	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	254.55	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	254.55	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	254.55	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	254.55	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	254.55	1300.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	254.55	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	254.55	1500.00	0.00	0.00	0.00	0.00	
	1506.00	0.00	254.55	1506.00	0.00	0.00	0.00	0.00	Salt
	1600.00	0.00	254.55	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	254.55	1700.00	0.00	0.00	0.00	0.00	
	1800.00 1900.00	0.00	254.55 254.55	1800.00 1900.00	0.00	0.00	0.00 0.00	0.00 0.00	
	1900.00 2000.00	0.00 0.00	254.55 254.55	1900.00 2000.00	0.00 0.00	0.00 0.00	0.00	0.00	Start Tangent
	2000.00	2.00	254.55	2000.00	-0.46	-1.68	-0.19	2.00	Start rangent
	2200.00	4.00	254.55	2099.98	-0.46	-6.73	-0.19	2.00	
	2300.00	6.00	254.55	2299.45	-4.18	-15.13	-1.72	2.00	
	2400.00	8.00	254.55	2398.70	-4.18	-26.87	-3.06	2.00	
	2500.00	10.00	254.55	2497.47	-11.59	-41.95	-4.78	2.00	
	2600.00	12.00	254.55	2595.62	-16.68	-60.34	-6.87	2.00	
	2700.00	14.00	254.55	2693.06	-22.67	-82.02	-9.34	2.00	
	2750.00	15.00	254.55	2741.46	-26.00	-94.09	-10.71	2.00	Hold Tangent
	2800.00	15.00	254.55	2789.76	-29.45	-106.56	-12.13	0.00	Tota rangent
	2900.00	15.00	254.55	2886.35	-36.35	-131.51	-14.98	0.00	
	3000.00	15.00	254.55	2982.94	-43.24	-156.45	-17.82	0.00	
	3100.00	15.00	254.55	3079.54	-50.14	-181.40	-20.66	0.00	
	3200.00	15.00	254.55	3176.13	-57.03	-206.35	-23.50	0.00	
	3300.00	15.00	254.55	3272.72	-63.93	-231.29	-26.34	0.00	
	3366.55	15.00	254.55	3337.00	-68.52	-247.89	-28.23	0.00	Base of Salt, Delaware
	3400.00	15.00	254.55	3369.31	-70.82	-256.24	-29.18	0.00	
	3500.00	15.00	254.55	3465.91	-77.72	-281.19	-32.02	0.00	
	3600.00	15.00	254.55	3562.50	-84.61	-306.13	-34.86	0.00	
	3700.00	15.00	254.55	3659.09	-91.51	-331.08	-37.70	0.00	
	3800.00	15.00	254.55	3755.68	-98.40	-356.03	-40.54	0.00	
	3900.00	15.00	254.55	3852.28	-105.30	-380.97	-43.38	0.00	
	4000.00	15.00	254.55	3948.87	-112.19	-405.92	-46.22	0.00	
	4100.00	15.00	254.55	4045.46	-119.09	-430.87	-49.07	0.00	
	4200.00	15.00	254.55	4142.05	-125.98	-455.81	-51.91	0.00	
	4300.00	15.00	254.55	4238.65	-132.88	-480.76	-54.75	0.00	
	4400.00	15.00	254.55	4335.24	-139.77	-505.71	-57.59	0.00	
	4500.00	15.00	254.55	4431.83	-146.67	-530.65	-60.43	0.00	
	4600.00	15.00	254.55	4528.42	-153.56	-555.60	-63.27	0.00	
	4695.84	15.00	254.55	4621.00	-160.17	-579.51	-65.99	0.00	Cherry Canyon
	4700.00	15.00	254.55	4625.02	-160.46	-580.55	-66.11	0.00	
	4800.00	15.00	254.55	4721.61	-167.35	-605.49	-68.95	0.00	
	4900.00	15.00	254.55	4818.20	-174.25	-630.44	-71.79	0.00	
	5000.00	15.00	254.55	4914.80	-181.14	-655.39	-74.63	0.00	
	5100.00	15.00	254.55	5011.39	-188.04	-680.33	-77.47	0.00	
	5200.00	15.00	254.55	5107.98	-194.93	-705.28	-80.31	0.00	
	5300.00	15.00	254.55	5204.57	-201.83	-730.23	-83.16	0.00	
	5400.00	15.00	254.55	5301.17	-208.72	-755.17	-86.00	0.00	
	5500.00	15.00	254.55	5397.76	-215.62	-780.12	-88.84	0.00	
	5600.00 5700.00	15.00 15.00	254.55	5494.35 5590 94	-222.51	-805.07 -830.01	-91.68	0.00	
	5700.00 5720.76	15.00 15.00	254.55	5590.94 5611.00	-229.41 -230.84	-830.01 -835.19	-94.52 -95 11	0.00	Brushy Capyon
	5720.76 5800.00	15.00 15.00	254.55 254.55	5611.00 5687.54	-230.84 -236.30	-835.19 -854.96	-95.11 -97.36	0.00 0.00	Brushy Canyon
	5900.00	15.00	254.55 254.55	5784.13	-236.30	-854.96 -879.90	-97.36	0.00	
	6000.00	15.00	254.55	5880.72	-243.20	-879.90	-100.20	0.00	
	6100.00	15.00	254.55 254.55	5860.72 5977.31	-250.09	-904.85 -929.80	-103.04	0.00	
	6200.00	15.00	254.55	6073.91	-263.88	-929.80 -954.74	-103.88	0.00	
						224.14	100.12	0.00	

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damen		Well:	CLAWHAM	MER 33-28-2	1 FEDERAL C	OM 330H			Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
		Wellbore:	Permit Plar	ı					Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
-	6400.00	15.00	254.55	6267.09	-277.67	-1004.64	-114.40	0.00	<u> </u>
	6500.00	15.00	254.55	6363.68	-284.57	-1029.58	-117.25	0.00	
	6600.00	15.00	254.55	6460.28	-291.46	-1054.53	-120.09	0.00	
	6700.00	15.00	254.55	6556.87	-298.36	-1079.48	-122.93	0.00	
	6800.00	15.00	254.55	6653.46	-305.25	-1104.42	-125.77	0.00	
	6900.00 7000.00	15.00 15.00	254.55 254.55	6750.05 6846.65	-312.15 -319.04	-1129.37 -1154.32	-128.61 -131.45	0.00 0.00	
	7000.00	15.00	254.55	6943.24	-325.94	-1154.52	-131.45	0.00	
	7200.00	15.00	254.55	7039.83	-332.83	-1204.21	-137.13	0.00	
	7300.00	15.00	254.55	7136.42	-339.73	-1229.16	-139.97	0.00	
	7400.00	15.00	254.55	7233.02	-346.62	-1254.10	-142.81	0.00	
	7500.00	15.00	254.55	7329.61	-353.51	-1279.05	-145.65	0.00	
	7600.00	15.00	254.55	7426.20	-360.41	-1304.00	-148.49	0.00	
	7700.00	15.00	254.55	7522.80	-367.30	-1328.94	-151.34	0.00	
	7800.00 7900.00	15.00 15.00	254.55 254.55	7619.39 7715.98	-374.20 -381.09	-1353.89 -1378.84	-154.18 -157.02	0.00 0.00	
	7900.00	15.00	254.55	7758.42	-384.12	-1378.84	-157.02	0.00	Drop to Vertical
	8000.00	13.88	254.55	7812.71	-387.84	-1403.27	-159.79	2.00	- p
	8100.00	11.88	254.55	7910.19	-393.78	-1424.76	-162.24	2.00	
	8200.00	9.88	254.55	8008.39	-398.81	-1442.95	-164.31	2.00	
	8300.00	7.88	254.55	8107.19	-402.92	-1457.82	-166.01	2.00	
	8400.00	5.88	254.55	8206.46	-406.11	-1469.36	-167.32	2.00	
	8494.89 8500.00	3.98	254.55 254.55	8301.00 8306.09	-408.28 -408.38	-1477.22 -1477.56	-168.22 -168.25	2.00 2.00	Bone Spring 1st
	8600.00	3.88 1.88	254.55	8306.09 8405.96	-408.38	-1477.56	-168.81	2.00	
	8693.93	0.00	254.55	8499.88	-410.12	-1483.89	-168.98	2.00	Hold Vertical
	8700.00	0.00	359.62	8505.94	-410.12	-1483.89	-168.97	0.00	
	8800.00	0.00	359.62	8605.94	-410.12	-1483.89	-168.97	0.00	
	8900.00	0.00	359.62	8705.94	-410.12	-1483.89	-168.97	0.00	
	9000.00	0.00	359.62	8805.94	-410.12	-1483.89	-168.97	0.00	
	9100.00 9123.06	0.00	359.62 359.62	8905.94 8929.00	-410.12 -410.12	-1483.89 -1483.89	-168.97	0.00 0.00	Pope Spring and
	9123.06 9200.00	0.00 0.00	359.62	9005.94	-410.12	-1483.89	-168.97 -168.97	0.00	Bone Spring 2nd
	9300.00	0.00	359.62	9105.94	-410.12	-1483.89	-168.97	0.00	
	9400.00	0.00	359.62	9205.94	-410.12	-1483.89	-168.97	0.00	
	9417.06	0.00	359.62	9223.00	-410.12	-1483.89	-168.97	0.00	3rd Bone Spring Lime / Point of Penetration
	9419.10	0.00	359.62	9225.04	-410.12	-1483.89	-168.98	0.00	КОР
	9500.00	8.09	359.62	9305.68	-404.42	-1483.92	-163.34	10.00	
	9600.00 9700.00	18.09 28.09	359.62 359.62	9402.95 9494.83	-381.80 -342.63	-1484.07 -1484.33	-140.98 -102.27	10.00 10.00	
	9700.00 9800.00	38.09	359.62	9494.85 9578.50	-288.11	-1484.55	-48.38	10.00	
	9900.00	48.09	359.62	9651.44	-219.88	-1485.15	19.05	10.00	
	10000.00	58.09	359.62	9711.42	-140.03	-1485.68	97.97	10.00	
	10100.00	68.09	359.62	9756.62	-50.97	-1486.27	185.99	10.00	
	10200.00	78.09	359.62	9785.67	44.58	-1486.90	280.43	10.00	
	10300.00	88.09	359.62	9797.68	143.73	-1487.56	378.42	10.00	Landian Drint
	10319.10 10400.00	90.00 90.00	359.62 359.62	9798.00 9798.00	162.82 243.72	-1487.69 -1488.22	397.28 477.24	10.00 0.00	Landing Point
	10400.00	90.00	359.62	9798.00 9798.00	343.72	-1488.89	576.08	0.00	
	10600.00	90.00	359.62	9798.00	443.72	-1489.55	674.91	0.00	
	10700.00	90.00	359.62	9798.00	543.72	-1490.21	773.74	0.00	
	10800.00	90.00	359.62	9798.00	643.71	-1490.88	872.57	0.00	
	10900.00	90.00	359.62	9798.00	743.71	-1491.54	971.40	0.00	
	11000.00	90.00	359.62	9798.00	843.71	-1492.21	1070.23	0.00	
	11100.00 11200.00	90.00 90.00	359.62 359.62	9798.00 9798.00	943.71 1043.70	-1492.87 -1493.53	1169.06 1267.89	0.00 0.00	
	11300.00	90.00	359.62	9798.00	1143.70	-1494.20	1366.73	0.00	
	11400.00	90.00	359.62	9798.00	1243.70	-1494.86	1465.56	0.00	
	11500.00	90.00	359.62	9798.00	1343.70	-1495.52	1564.39	0.00	
	11600.00	90.00	359.62	9798.00	1443.70	-1496.19	1663.22	0.00	
	11700.00	90.00	359.62	9798.00	1543.69	-1496.85	1762.05	0.00	
	11800.00	90.00	359.62	9798.00	1643.69	-1497.52	1860.88	0.00	
	11900.00 12000.00	90.00 90.00	359.62 359.62	9798.00 9798.00	1743.69 1843.69	-1498.18 -1498.84	1959.71 2058 54	0.00	
	12000.00	90.00 90.00	359.62	9798.00 9798.00	1843.69 1943.69	-1498.84 -1499.51	2058.54 2157.38	0.00 0.00	
	12200.00	90.00	359.62	9798.00	2043.68	-1500.17	2256.21	0.00	
	12300.00	90.00	359.62	9798.00	2143.68	-1500.83	2355.04	0.00	
	12400.00	90.00	359.62	9798.00	2243.68	-1501.50	2453.87	0.00	
	12500.00	90.00	359.62	9798.00	2343.68	-1502.16	2552.70	0.00	
	12600.00	90.00	359.62	9798.00	2443.67	-1502.83	2651.53	0.00	
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0770-0		Well:	CLAWHAM	MER 33-28-2	1 FEDERAL C	OM 330H			Geodetic System: US State Plane 1983
evon		County:	Eddy						Datum: North American Datum 1927
			Permit Plan						Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					<b>Zone:</b> 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	)
	12700.00 12800.00	90.00 90.00	359.62 359.62	9798.00 9798.00	2543.67 2643.67	-1503.49 -1504.15	2750.36 2849.20	0.00 0.00	
	12900.00	90.00	359.62	9798.00	2743.67	-1504.82	2948.03	0.00	
	13000.00	90.00	359.62	9798.00	2843.67	-1505.48	3046.86	0.00	
	13100.00	90.00	359.62	9798.00	2943.66	-1506.14	3145.69	0.00	
	13200.00	90.00	359.62	9798.00	3043.66	-1506.81	3244.52	0.00	
	13300.00 13400.00	90.00 90.00	359.62 359.62	9798.00 9798.00	3143.66 3243.66	-1507.47 -1508.14	3343.35 3442.18	0.00 0.00	
	13500.00	90.00	359.62	9798.00	3343.65	-1508.80	3541.01	0.00	
	13600.00	90.00	359.62	9798.00	3443.65	-1509.46	3639.85	0.00	
	13700.00	90.00	359.62	9798.00	3543.65	-1510.13	3738.68	0.00	
	13800.00	90.00	359.62	9798.00	3643.65	-1510.79	3837.51	0.00	
	13900.00 14000.00	90.00 90.00	359.62 359.62	9798.00 9798.00	3743.65 3843.64	-1511.45 -1512.12	3936.34 4035.17	0.00 0.00	
	14100.00	90.00	359.62	9798.01	3943.64	-1512.78	4134.00	0.00	
	14200.00	90.00	359.62	9798.01	4043.64	-1513.45	4232.83	0.00	
	14300.00	90.00	359.62	9798.01	4143.64	-1514.11	4331.66	0.00	
	14400.00	90.00	359.62	9798.01	4243.63	-1514.77	4430.50	0.00	
	14500.00 14600.00	90.00 90.00	359.62 359.62	9798.01 9798.01	4343.63 4443.63	-1515.44 -1516.10	4529.33 4628.16	0.00 0.00	
	14700.00	90.00	359.62	9798.01 9798.01	4543.63	-1516.76	4726.99	0.00	
	14800.00	90.00	359.62	9798.01	4643.63	-1517.43	4825.82	0.00	
	14900.00	90.00	359.62	9798.01	4743.62	-1518.09	4924.65	0.00	
	15000.00	90.00	359.62	9798.01	4843.62	-1518.76	5023.48	0.00	
	15100.00 15200.00	90.00 90.00	359.62 359.62	9798.01 9798.01	4943.62 5043.62	-1519.42 -1520.08	5122.31 5221.15	0.00 0.00	
	15300.00	90.00	359.62	9798.01	5143.61	-1520.75	5319.98	0.00	
	15400.00	90.00	359.62	9798.01	5243.61	-1521.41	5418.81	0.00	
	15500.00	90.00	359.62	9798.01	5343.61	-1522.07	5517.64	0.00	
	15600.00 15700.00	90.00 90.00	359.62 359.62	9798.01 9798.01	5443.61 5543.61	-1522.74 -1523.40	5616.47 5715.30	0.00 0.00	
	15800.00	90.00	359.62	9798.01 9798.01	5643.60	-1523.40	5715.50	0.00	
	15900.00	90.00	359.62	9798.01	5743.60	-1524.73	5912.96	0.00	
	16000.00	90.00	359.62	9798.01	5843.60	-1525.39	6011.80	0.00	
	16100.00	90.00	359.62	9798.01	5943.60	-1526.06	6110.63	0.00	
	16200.00 16300.00	90.00 90.00	359.62 359.62	9798.01 9798.01	6043.59 6143.59	-1526.72 -1527.38	6209.46 6308.29	0.00 0.00	
	16400.00	90.00	359.62	9798.01	6243.59	-1528.05	6407.12	0.00	
	16500.00	90.00	359.62	9798.01	6343.59	-1528.71	6505.95	0.00	
	16600.00	90.00	359.62	9798.01	6443.59	-1529.38	6604.78	0.00	
	16700.00	90.00	359.62	9798.01	6543.58	-1530.04	6703.61	0.00	
	16800.00 16900.00	90.00 90.00	359.62 359.62	9798.01 9798.01	6643.58 6743.58	-1530.70 -1531.37	6802.45 6901.28	0.00 0.00	
	17000.00	90.00	359.62	9798.01	6843.58	-1532.03	7000.11	0.00	
	17100.00	90.00	359.62	9798.01	6943.57	-1532.69	7098.94	0.00	
	17200.00	90.00	359.62	9798.01	7043.57	-1533.36	7197.77	0.00	
	17300.00	90.00	359.62	9798.01	7143.57	-1534.02	7296.60	0.00	
	17400.00 17500.00	90.00 90.00	359.62 359.62	9798.01 9798.01	7243.57 7343.57	-1534.69 -1535.35	7395.43 7494.27	0.00 0.00	
	17600.00	90.00	359.62	9798.01 9798.01	7443.56	-1536.01	7593.10	0.00	
	17700.00	90.00	359.62	9798.01	7543.56	-1536.68	7691.93	0.00	
	17800.00	90.00	359.62	9798.01	7643.56	-1537.34	7790.76	0.00	
	17900.00	90.00	359.62	9798.01	7743.56	-1538.00	7889.59	0.00	
	18000.00 18100.00	90.00 90.00	359.62 359.62	9798.01 9798.01	7843.56 7943.55	-1538.67 -1539.33	7988.42 8087.25	0.00 0.00	
	18200.00	90.00	359.62	9798.01 9798.01	8043.55	-1540.00	8186.08	0.00	
	18300.00	90.00	359.62	9798.01	8143.55	-1540.66	8284.92	0.00	
	18400.00	90.00	359.62	9798.01	8243.55	-1541.32	8383.75	0.00	
	18500.00	90.00	359.62	9798.01	8343.54	-1541.99	8482.58	0.00	
	18600.00 18700.00	90.00 90.00	359.62 359.62	9798.01 9798.01	8443.54 8543.54	-1542.65 -1543.31	8581.41 8680.24	0.00 0.00	
	18800.00	90.00	359.62	9798.01 9798.01	8643.54	-1543.98	8779.07	0.00	
	18900.00	90.00	359.62	9798.01	8743.54	-1544.64	8877.90	0.00	
	19000.00	90.00	359.62	9798.01	8843.53	-1545.31	8976.73	0.00	
	19100.00	90.00	359.62	9798.01	8943.53	-1545.97	9075.57	0.00	
	19200.00 19300.00	90.00 90.00	359.62 359.62	9798.01 9798.01	9043.53 9143.53	-1546.63 -1547.30	9174.40 9273.23	0.00 0.00	
	19300.00	90.00	359.62	9798.01 9798.01	9143.55 9243.52	-1547.50	9273.23 9372.06	0.00	
	19500.00	90.00	359.62	9798.01	9343.52	-1548.62	9470.89	0.00	
	19600.00	90.00	359.62	9798.01	9443.52	-1549.29	9569.72	0.00	

.

levon		County: Wellbore:			1 FEDERAL C	COM 330H			Datum: Ellipsoid:	US State Plane 1983 North American Datum 1927 Clarke 1866 3001 - NM East (NAD83)
	MD (ft)	INC (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Comment	
	19700.00 19704.04 19784.04	90.00 90.00 90.00	359.62 359.62 359.62	9798.01 9798.01 9798.00	9543.52 9547.56 9627.56	-1549.95 -1549.98 -1550.46	9668.55 9672.55 9751.61	0.00 0.00 0.00	exit BHL	

•

#### 1. Geologic Formations

TVD of target	9798	Pilot hole depth	N/A
MD at TD:	19784	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	675		
Salt	1506		
Base of Salt	3337		
Delaware	3337		
Cherry Canyon	4621		
Brushy Canyon	5611		
Bone Spring 1st	8301		
Bone Spring 2nd	8929		
3rd Bone Spring Lime	9223		

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

2. Casing Pr	rogram							
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	700 MD	0	700 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0	3390 MD	0	3390 TVD
9 7/8	8 5/8	32.0	P110-ICY	441	0	9319	0	9319
7 7/8	5 1/2	20.0	P110-ICY	461	0	19784 MD	0	9798 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 (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	544	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	215	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	101	2890	13.2	1.4	Tail: Class H / C + additives
Int 1	230	Surf	9.0	3.3	Lead: Class C Cement + additives
Int I	432	5611	13.2	1.4	Tail: Class H / C + additives
Int 1	230	Surf	0.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	230	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	432	5611	13.2	1.4	Tail: Class H / C + additives
Production	119	7419	9.0	3.3	Lead: Class H /C + additives
FIGUUCUON	1372	9419	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%

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:
			Annular		Х	50% of rated working pressure
Int	13-5/8"	5M	Bline	d Ram	Х	
Int	13-3/8	5111	1	e Ram		5M
			Doub	Double Ram		5111
			Other*			
		5M	An	Annular		50% of rated working pressure
Int 1	13-5/8"		Blind Ram		Х	5M
Int 1	13-3/8		Pipe Ram			
			Double Ram		Х	
			Other*			
			Annular (5M)		Х	50% of rated working
						pressure
Production	13-5/8"	5M	Blind Ram		Х	
	22 0/0		Pipe Ram			5M
				le Ram	Х	
			Other*			

#### 4. Pressure Control Equipment (Four String Design)

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#### 5. Mud Program (Four String Design)

Section	Туре	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
---	-----------------------------

#### 6. Logging and Testing Procedures

Logging, C	Coring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion Report and sbumitted 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.

Additiona	al logs planned	Interval
	Resistivity	
	Density	
Х	CBL	Production casing
	Mud log	KOP to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4585
Abnormal temperature	No

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

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

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

1 Spudder rig will move in and batch drill surface hole.

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

Attachments

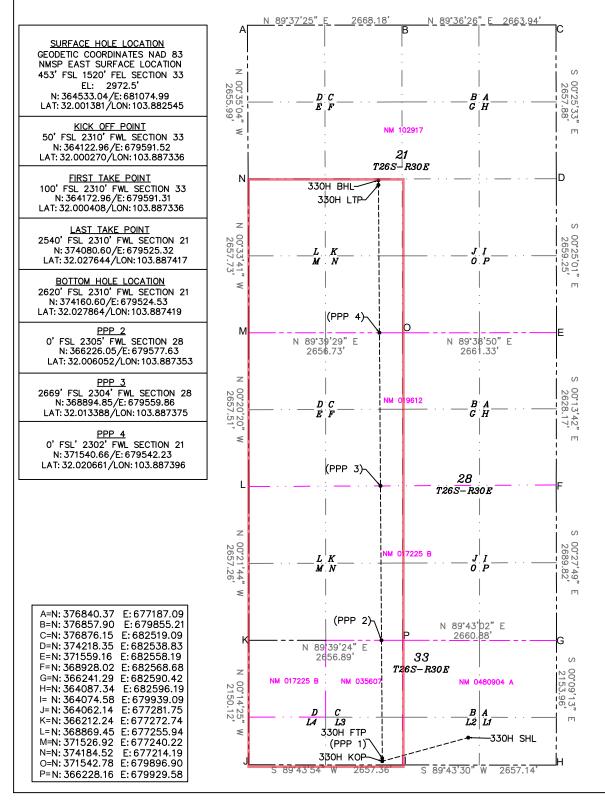
X Directional Plan Other, describe

Colorie Electore i cello			State of Energy, Minerals & Natura OIL CONSERVAT				New Mexico l Resources Depa ION DIVISI		ised July, 2024					
	Electronically D Permitting								a	Initial Submittal				
, in o eD i ennining									Submittal Type:	Amended Report				
									- ) [ - ]	As Drilled				
				W	FLLLOC		ON INFORMATIO	N						
APL N	umber		Pool Cod				Pool Name	11						
	amoor			97863		WILDCAT G-03 S263016K: BONE SPRIN								
Property Code Property Nam				Name	WHAMME	ER 3:	3-28-21 FEDERAI			Well Number 330H				
6137			Operator	Name	WPX E	ENER	GY PERMIAN, LLC	•		Ground Level Elevation 2972.5'				
Surfa	ce Owner:	□State □	Fee □Tribal X]Federal				Mineral Owner:	□State	□Fee □1	fribal 🛛 Federal				
			_				ace Location							
UL	Section	Township	Range	Lot	Ft. fron			Latitude		Longitude	County			
	33	26-S	30-E	2	453'	$\mathbf{S}$	1520'E	32.001	381	103.882545	EDDY			
					Be	otton	n Hole Location			1				
UL	Section	Township	Range	Lot	Ft. fron	n N/	S Ft. from E/W	Latitude		Longitude	County			
Κ	21	26-S	30-E		2620'	$\mathbf{S}$	2310'W	32.027	864	103.887419	EDDY			
Dedicat	ted Acres	Infill or Def	ining Well	Defining	Well API	0ver1	apping Spacing Uni	t (Y/N)	Consolid	ation Code				
600	9.58	DEED		SUBJEC	E WELL									
		DEFIN		SUBJEC		W. 11	N setbacks are under	0	01					
Uraer	Numbers	PENDIN	IG NSP			well	setbacks are under	Common	Ownersh	ip: Mares ⊡No				
					Kiel	k Off	Point (KOP)							
UL	Section	Township	Range	Lot	Ft. from		· · ·	Latitude		Longitude	County			
	33	26-S	30-E	3	50'		2310' W	32.000		103.887336	EDDY			
				0						1000000000				
		m 1 ·	D	<b>.</b>	1		ke Point (FTP)	7 1.1 1		<b>T 1 1</b>	0 1			
UL	Section	Township	Range	Lot 3	Ft. fron			Latitude		Longitude	County			
	33	26-S	30-E	3	100'	5	<b>2310' W 32.000</b> 4		408	103.887336	EDDY			
					Las	st Ta	ke Point (LTP)							
$\mathbf{U}\mathbf{L}$	Section	Township	Range	Lot	Ft. fron		S Ft. from E/W	Latitude		Longitude	County			
Κ	21	26-S	30-E		2540'	$\mathbf{S}$	2310' W	32.027	644	103.887417	EDDY			
Unitize	ed Area or A	rea of Uniform	Interest		Spac	ing (	Unit Type Horizon	tal Verti	cal G	Fround Floor Ele	vation:			
		Y					Х		N/A					
<b>OPERATOR CERTIFICATIONS</b> I hereby certify that the information contained herein is true and complet of my knowledge and belief, and, if the well is a vertical or directional v organization either owns a working interest or unleased mineral interest including the proposed bottom hole location or has a right to drill this w location pursuant to a contract with an owner of a working interest or un			onal well, that terest in the la this well at thi	e best t this and	SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field not of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief.									
mineral i heretofo	interest, or to a re entered by t	ı voluntary pooli	ng agreement o	or a compuls	ory pooling o					R REK MEX	DEHOLOS CO			
	of at least one	lessee or owner on the target pool	of a working in	terest or unl n which any	eased mineral part of the we	l ell's				PR Alles	affred a			
consent o interest i complete division.	ed interval will	-		Amy A. Brown 05/06/2025					Signature and Seal of Professional Surveyor JONAL SUR					
consent of interest i complete division.	ed interval will $\mathcal{U} \mathcal{A}$ .	-	2 05/06 Date	5/2025			Signature and Seal	of Profes	ssional S		SURAY			
consent of interest i complete division. Signa	ed interval will U A. Vure	-		5/2025			Signature and Seal	of Profes	ssional S		SURVE			
consent of interest i complete division. Signa Amy	ed interval will yure y Brown	-		5/2025				I			SURIE			
consent of interest i complete division. Signa Amy Print	ed interval will Yure / Brown ed Name	Brown		5/2025			Signature and Seal Certificate Number				SURIE			
consent of interest i complete division. Signa Amy Print amy	ed interval will yure y Brown	Brown		5/2025				I	Survey		SUR			

#### 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.



#### Received by OCD: 5/21/2025 2:46:18 PM

Page 60 of 61 33-26-30-2 Sundry ID 2851628 Clawhammer 33-28-21 Federal Com 330H Eddy NM0480904A WPX ENERGY PERMIAN LLC 13-22g 2-27-2024 LV.xlsm

#### Clawhammer 33-28-21 Federal Com 330H

13 3/8	surfa	ace csg in a	17 1/2 i	nch 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	22.37	3.45	1.48	700	9	2.47	6.52	38,150
"B"				btc				0				0
	w/8.4#/g	g mud, 30min Sfc Csg Tes	t psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	700				38,150
comparison o	f Proposed to Mir	nimum Required Cer	nent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
17 1/2	0.6946	544	762	486	57	9.00	1103	2M				1.56
		· — · — · — · — · — · — · — · — · — · —										
10 3/4		g inside the	13 3/8	•••••	1 - 1 - 4	Design				Int 1	•	\A/-:
Segment	#/ft	Grade	: ==	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A" "B"	45.50		j 55	btc scc	3.28	1.13	0.82	3,390	2	1.55	1.89	154,24
B			1 0 2 7					0				0
	w/8.4#/g	g mud, 30min Sfc Csg Tes			•	ft from su	Totals:	3,390				154,24
11-1-	A			ed to achieve a top of	0			700				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc MASP	Req'd				Min Dis
Size	Volume 0.1882	Cmt Sx 316	CuFt Cmt 851	Cu Ft	% Excess 27	Mud Wt		BOPE				Hole-Cpl 0.50
12 1/4	0.1002	310	100	673	21	10.50	2307	3M				0.50 Σ%exces
D V Tool(s):							sum of sx	<u>Σ CuFt</u>				2%exces 27
by stage % :		#VALUE!	#VALUE!				316	851				21
lass 'C' tail cm												
urst Frac Grac	lient(s) for Segmen	it(s): A, B, C, D = 1.06,	b, c, d All > 0.70, O	K.								
85/8	casin	g inside the	10 3/4			Design Fa	ctors			Int 2		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	wedge 441	3.12	0.92	2	9,319	2	3.79	1.73	298,20
"B"			F				-	0	-	00		0
"C"								0				0
"ח"								Õ				Ň

								0				0
"C"								0				0
"D"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,050				Totals:	9,319				298,20
		The cement vo	olume(s) are intend	led to achieve a top of	0	ft from su	rface or a	3390				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Di
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
9 7/8	0.1261	662	1364	1203	13	9.00	2425	3M				0.49
	Settin	g Depths for D V Too	l(s): 5611				sum of sx	<u>Σ CuFt</u>				<u>Σ%exce</u>
% exces	s cmt by stage:	192	3				892	2123				76
ass 'C' tail cm	it yld > 1.35											
Tail cmt	·	inside the	85/8			Design	Factors			Prod 1		
Tail cmt 5 1/2	casing	inside the Grade	8 5/8	Coupling	Joint	<u>Design I</u> Collapse			B@s	Prod 1 a-B		
Tail cmt 5 1/2 Segment	casing #/ft	inside the Grade		Coupling wedge 461	Joint 3 27	Collapse	Burst	Length	B@s	a-B	a-C	Weig
Tail cmt 5 1/2 Segment "A"	casing		<b>8 5/8</b> p 110	Coupling wedge 461	Joint 3.27			19,784	<b>B@s</b> 3			<b>Weig</b> 395,6
Tail cmt 5 1/2 Segment	casing #/ft 20.00	Grade	p 110			Collapse	Burst 2.76	19,784 <b>0</b>	-	a-B	a-C	Weig 395,6 0
Tail cmt 5 1/2 Segment "A"	casing #/ft 20.00	Grade mud, 30min Sfc Csg Test	p 110 psig: 2,156	wedge 461	3.27	Collapse 2.43	Burst 2.76 Totals:	19,784 <b>0</b> 19,784	-	a-B	<b>a-C</b> 4.58	Weig 395,6 0 395,6
Tail cmt 5 1/2 Segment "A" "B"	casing #/ft 20.00 w/8.4#/g	Grade mud, 30min Sfc Csg Test The cement vo	p 110 <sub>psig:</sub> 2,156 olume(s) are intend	wedge 461 led to achieve a top of	3.27 9119	Collapse 2.43 ft from su	Burst 2.76 Totals: rface or a	19,784 0 19,784 <b>200</b>	-	a-B	<b>a-C</b> 4.58	Weig 395,6 0 395,6 overlap.
Tail cmt 5 1/2 Segment "A" "B" Hole	casing #/ft 20.00 w/8.4#/g Annular	Grade mud, 30min Sfc Csg Test The cement vo 1 Stage	p 110 <sub>psig:</sub> 2,156 olume(s) are intend 1 Stage	wedge 461 led to achieve a top of Min	3.27 9119 1 Stage	Collapse 2.43 ft from su Drilling	Burst 2.76 Totals: rface or a Calc	19,784 0 19,784 200 Req'd	-	a-B	<b>a-C</b> 4.58	Weig 395,6 0 395,6 overlap. Min D
5 1/2 Segment "A" "B"	casing #/ft 20.00 w/8.4#/g	Grade mud, 30min Sfc Csg Test The cement vo	p 110 <sub>psig:</sub> 2,156 olume(s) are intend	wedge 461 led to achieve a top of	3.27 9119	Collapse 2.43 ft from su	Burst 2.76 Totals: rface or a	19,784 0 19,784 <b>200</b>	-	a-B	<b>a-C</b> 4.58	<b>Weig</b> 395,6

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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

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	465981
	Action Type:
	[C-103] NOI Change of Plans (C-103A)
CONDITIONS	

CONDITIONS	
Created By	Condition

ward.rikala Any previous COA's not addressed within the updated COA's still apply.

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Action 465981

Condition Date

5/28/2025