

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Reports
03/02/2023

Well Name: CLAWHAMMER 33-28-21 Well Location: T26S / R30E / SEC 33 / County or Parish/State:

FED COM LOT L2 /

Well Number: 414H Type of Well: OTHER Allottee or Tribe Name:

Lease Number: NMNM0480904A Unit or CA Name: Unit or CA Number:

US Well Number: 3001549839 Well Status: Approved Application for Operator: WPX ENERGY

Permit to Drill PERMIAN LLC

Notice of Intent

Sundry ID: 2704676

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/01/2022 Time Sundry Submitted: 02:18

Date proposed operation will begin: 11/28/2022

Procedure Description: WPX Energy Permian, LLC respectfully requests to have a BHL revision on the subject well. Please see attached drilling plan, directional and break test variance. Permitted BHL: NWNE, 21-26S-30E, 230 FNL, 2380 FEL Proposed BHL: NWSE, 21-26S-30E, 2609 FSL, 1440 FEL

NOI Attachments

Procedure Description

CLAWHAMMER_33_28_21_FEDERAL_COM_414H_20221201141834.pdf

10.750_40.5lb_H40_20221129100314.pdf

2022020350_DEVON_ENERGY_CLAWHAMMER_33_28_21_FEDERAL_COM_414H_C_102_FINAL_SET_11 _16_2022_20221129100315.pdf

CLAWHAMMER_33_28_21_FEDERAL_COM_414H_Directional_Plan_11_22_22_20221129100314.pdf

break_test_variance_BOP_20221129100314.pdf

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FED COM

LOT L2 /

County or Parish/State: Page 2 of

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Conditions of Approval

Additional

33_26_30_2_Sundry_ID_2704676_Clawhammer_33_28_21_Fed_Com_414H_Eddy_NM0480904A_DEVON_ENERGY _PRODUCTION_COMPANY_LP_13_22d_12_20_2022_LV_20221220102433.pdf

Clawhammer_33_28_21_Fed_Com_414H_Sundry_ID_2704676_20221220102433.pdf

Operator

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

Operator Electronic Signature: JENNY HARMS Signed on: DEC 01, 2022 02:18 PM

Name: WPX ENERGY PERMIAN LLC

Title: Regulatory Compliance Professional **Street Address:** 333 West Sheridan Avenue

City: Oklahoma City State: OK

Phone: (405) 552-6560

Email address: jennifer.harms@dvn.com

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov

Disposition: Approved **Disposition Date:** 03/01/2023

Signature: Chris Walls

Page 2 of 2

District I

District III

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

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

X AMENDED REPORT

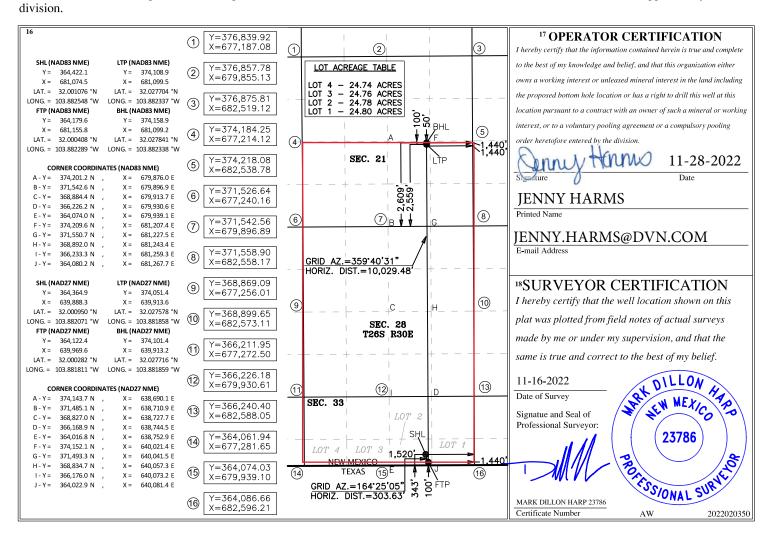
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 49839		98220 Pool Code	98220 ² Pool Code PURPLE SAGE; WOLFCAMP (GA			
⁴ Property Code 333164			operty Name 33-28-21 FEDERAL COM	⁶ Well Number 414H		
7 OGRID No.			perator Name	9 Elevation		
246289	WPX ENERGY PERMIAN, LLC 2,973'					

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	33	26 S	30 E		343	SOUTH	1,520	EAST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	21	26 S	30 E		2,609	SOUTH	1,440	EAST	EDDY
12 Dedicated Acres	s 13 Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.				

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



Inten	t X	As Dril	led											
API #														
	015-					_								
	rator Na						perty N							Well Number
WP.	X ENEF	RGY PEF	RMIAN,	LLC		CC	AWH <i>A</i> M	MMM	IER 3	33-28	5-21 I	FEDE	ERAL	414H
Kick (Off Point	(KOD)												
UL	Section	1	Bango	Lot	Foot		From N	ı/c	Foot		Eron	n E/W	County	
UL	33	Township 26S	Range 30E	Lot	Feet 40 FSL		FIOIII	N/ 3	Feet		FIOII	I E/ VV	County	
Latitu		203	JUL		Longitu	ıde			1441	FLL			NAD	
32.00	0014936				_		37445						83	
													ı	
First ⁻	Take Poir	it (FTP)												
UL	Section 33	Township 26 S	Range 30 E	Lot 2	Feet 100		From N	•	Feet 1,4 4		Fron	n E/W	County EDDY	
Latitu		200	00 L		Longitu	ıde	000		1,-	10	L/ (C		NAD	
	000408	3°N			_		289°\	V					83	
UL J	Section 21	t (LTP) Township 26 S	Range 30 E	Lot	Feet 2,559		om N/S OUTH	Feet		From EAS		Count	•	
Latitu	ude	<u> </u>	I .	1	Longitu	ıde						NAD		
32.0	027704	l°N			103.8	882	337°\	N				83		
Is this	s well the	defining v	vell for th	e Hori:	zontal Sp	oacin	ng Unit?	' [N					
Is this	s well an	infill well?		Υ										
	ll is yes p ng Unit.	lease prov	ide API if	availak	ole, Opei	rator	Name	and v	well n	umbe	r for I	Definir	ng well fo	r Horizontal
API #) 15-498	332												
	rator Nai		1			Pro	perty N	lame	:					Well Number
WP:						CL	AWH <i>A</i> 0M #41	MM		33 28	21 F	FEDE	RAL	

KZ 06/29/2018

1. Geologic Formations

TVD of target	10704	Pilot hole depth	N/A
MD at TD:	20522	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1148		
Salt	1148		
Base of Salt	3388		
Delaware	3481		
Cherry Canyon	4621		
Brushy Canyon	5611		
1st Bone Spring Lime	7345		
Bone Spring 1st	8301		
Bone Spring 2nd	8929		
3rd Bone Spring Lime	9423		
Bone Spring 3rd	10173		
Wolfcamp	10563		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	40 1/2	H40	BTC	0	1173	0	1173
9 7/8	8 5/8	32	P110	TLW	0	10173	0	10173
7 7/8	5 1/2	17	P110	BTC	0	20522	0	10704

[•] All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program

Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	469	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1 (Conventional Job)	403	Surf	9	3.27	Lead: Class C Cement + additives
(Conventional 300)	238	8173	13.2	1.44	Tail: Class H / C + additives
Int 1 Top Out (Squeeze)	As Needed	Surf	13.2	1.44	Top Out (Squeeze) Lead: Class C Cement + additives
Int 1 (2 Stage Job)	276	Surf	9	3.27	2nd Stage Lead: Class C Cement + additives
Int 1 (2 Stage 100)	526	5636	13.2	1.44	Tail: Class H / C + additives
Production	117	8156	9	3.27	Lead: Class H/C + additives
Froduction	1372	10156	13.2	1.44	Tail: Class H / C + additives

^{*}Note*

Cementing Program (Primary Design)Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 8-5/8''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. If necessary, a top out consisting of 500 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld,12.91 ppg) will be executed as a contingency. 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 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
			An	Annular		50% of rated working pressure
Int 1	13-5/8"	5M	Blin	d Ram	X	
IIIt I	13-3/6	JIVI	Pipe	Ram		5M
			Doub	le Ram	X	JIVI
			Other*			
	13-5/8"	5M	Annul	lar (5M)	X	50% of rated working pressure
Production			Blind Ram		X	
Troduction		5141	Pipe Ram Double Ram			5M
					X	3111
			Other*			
			Annul			
			Blin	d Ram		
			Pipe Ram			
			Double Ram			
			Other*			
N A variance is requested for Y A variance is requested to	the use of	a diverter or	the surface	casing. See	attached for	schematic.
A variance is requested to run a 5 M annular on a 10M system						

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

Logging, Co	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							
X	Completion Report and shumitted 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.							

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5844
Abnormal temperature	No

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

Hydrogren S	Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations						
greater than	100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is						
encountered	encountered measured values and formations will be provided to the BLM.						
N	H2S is present						
Y	H2S plan attached.						

8. Other facets of operation

Is this a walking operation? Potentially

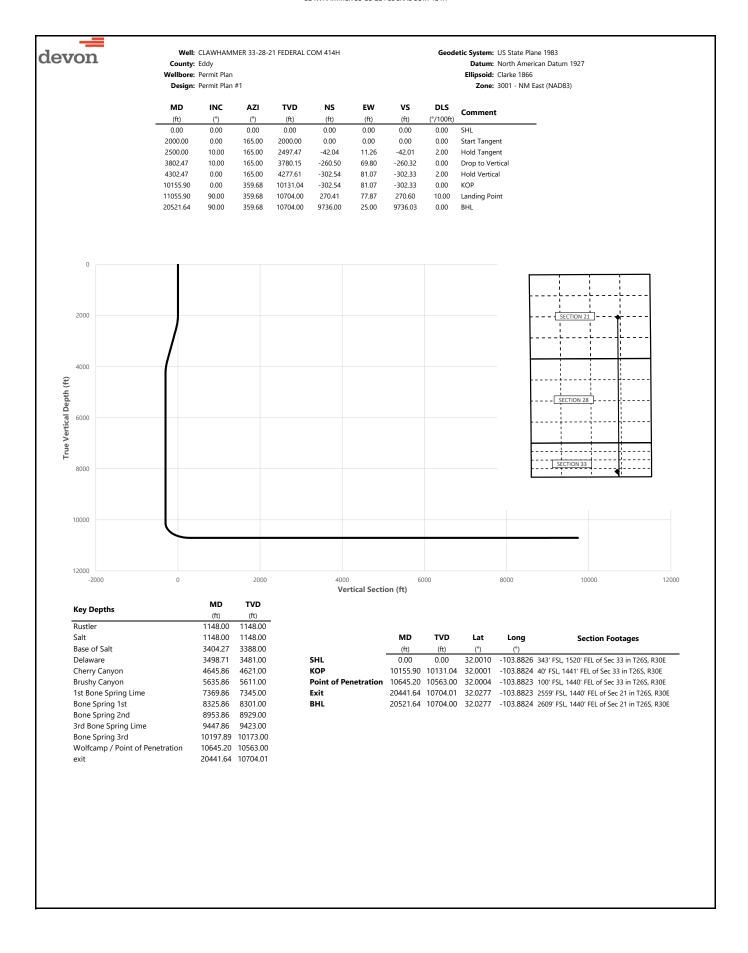
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- ³ The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be 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	3
X	Directional Plan
	Other, describe





County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

	Design:	Permit Plan	#1					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	165.00	100.00	0.00	0.00	0.00	0.00	SILE
200.00	0.00	165.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	165.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	165.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	165.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	165.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	165.00	700.00	0.00	0.00	0.00	0.00	
800.00 900.00	0.00	165.00 165.00	800.00 900.00	0.00 0.00	0.00	0.00	0.00	
1000.00	0.00	165.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	165.00	1100.00	0.00	0.00	0.00	0.00	
1148.00	0.00	165.00	1148.00	0.00	0.00	0.00	0.00	Rustler, Salt
1200.00	0.00	165.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	165.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	165.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	165.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	165.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	165.00	1700.00	0.00	0.00	0.00	0.00	
1800.00 1900.00	0.00	165.00 165.00	1800.00 1900.00	0.00 0.00	0.00	0.00	0.00	
2000.00	0.00	165.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	165.00	2099.98	-1.69	0.45	-1.68	2.00	Start rangem
2200.00	4.00	165.00	2199.84	-6.74	1.81	-6.74	2.00	
2300.00	6.00	165.00	2299.45	-15.16	4.06	-15.15	2.00	
2400.00	8.00	165.00	2398.70	-26.93	7.22	-26.91	2.00	
2500.00	10.00	165.00	2497.47	-42.04	11.26	-42.01	2.00	Hold Tangent
2600.00	10.00	165.00	2595.95	-58.81	15.76	-58.77	0.00	
2700.00	10.00	165.00	2694.43	-75.59	20.25	-75.53	0.00	
2800.00 2900.00	10.00	165.00	2792.91	-92.36	24.75	-92.30 -109.06	0.00	
3000.00	10.00 10.00	165.00 165.00	2891.39 2989.87	-109.13 -125.91	29.24 33.74	-109.06	0.00	
3100.00	10.00	165.00	3088.35	-142.68	38.23	-142.58	0.00	
3200.00	10.00	165.00	3186.83	-159.45	42.73	-159.34	0.00	
3300.00	10.00	165.00	3285.31	-176.22	47.22	-176.10	0.00	
3400.00	10.00	165.00	3383.79	-193.00	51.71	-192.86	0.00	
3404.27	10.00	165.00	3388.00	-193.71	51.91	-193.58	0.00	Base of Salt
3498.71	10.00	165.00	3481.00	-209.55	56.15	-209.41	0.00	Delaware
3500.00	10.00	165.00	3482.27	-209.77	56.21	-209.63	0.00	
3600.00	10.00	165.00	3580.75	-226.54	60.70	-226.39	0.00	
3700.00 3800.00	10.00 10.00	165.00 165.00	3679.23 3777.72	-243.32 -260.09	65.20 69.69	-243.15 -259.91	0.00	
3802.47	10.00	165.00	3780.15	-260.50	69.80	-260.32	0.00	Drop to Vertical
3900.00	8.05	165.00	3876.47	-275.28	73.76	-275.09	2.00	brop to vertical
4000.00	6.05	165.00	3975.71	-287.13	76.94	-286.94	2.00	
4100.00	4.05	165.00	4075.31	-295.64	79.22	-295.43	2.00	
4200.00	2.05	165.00	4175.17	-300.77	80.59	-300.57	2.00	
4300.00	0.05	165.00	4275.14	-302.54	81.07	-302.33	2.00	
4302.47	0.00	165.00	4277.61	-302.54	81.07	-302.33	2.00	Hold Vertical
4400.00 4500.00	0.00	359.68	4375.14	-302.54	81.07	-302.33	0.00	
4500.00 4600.00	0.00	359.68 359.68	4475.14 4575.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	
4645.86	0.00	359.68	4621.00	-302.54	81.07	-302.33	0.00	Cherry Canyon
4700.00	0.00	359.68	4675.14	-302.54	81.07	-302.33	0.00	- · · · · · · · · · · · · · · · · · · ·
4800.00	0.00	359.68	4775.14	-302.54	81.07	-302.33	0.00	
4900.00	0.00	359.68	4875.14	-302.54	81.07	-302.33	0.00	
5000.00	0.00	359.68	4975.14	-302.54	81.07	-302.33	0.00	
5100.00	0.00	359.68	5075.14	-302.54	81.07	-302.33	0.00	
5200.00	0.00	359.68	5175.14	-302.54	81.07	-302.33	0.00	
5300.00	0.00	359.68	5275.14	-302.54	81.07	-302.33	0.00	
5400.00 5500.00	0.00	359.68 359.68	5375.14 5475.14	-302.54	81.07	-302.33	0.00	
5600.00	0.00	359.68	5475.14 5575.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	
5635.86	0.00	359.68	5611.00	-302.54	81.07	-302.33	0.00	Brushy Canyon
5700.00	0.00	359.68	5675.14	-302.54	81.07	-302.33	0.00	<i>y</i> · <i>y</i> ·
5800.00	0.00	359.68	5775.14	-302.54	81.07	-302.33	0.00	
5900.00	0.00	359.68	5875.14	-302.54	81.07	-302.33	0.00	
6000.00	0.00	359.68	5975.14	-302.54	81.07	-302.33	0.00	
6100.00	0.00	359.68	6075.14	-302.54	81.07	-302.33	0.00	
6200.00	0.00	359.68	6175.14	-302.54	81.07	-302.33	0.00	



County: Eddy

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.68	6275.14	-302.54	81.07	-302.33	0.00	
6400.00	0.00	359.68	6375.14	-302.54	81.07	-302.33	0.00	
6500.00	0.00	359.68	6475.14	-302.54	81.07	-302.33	0.00	
6600.00	0.00	359.68	6575.14	-302.54	81.07	-302.33	0.00	
6700.00 6800.00	0.00	359.68 359.68	6675.14 6775.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	
6900.00	0.00	359.68	6875.14	-302.54	81.07	-302.33	0.00	
7000.00	0.00	359.68	6975.14	-302.54	81.07	-302.33	0.00	
7100.00	0.00	359.68	7075.14	-302.54	81.07	-302.33	0.00	
7200.00	0.00	359.68	7175.14	-302.54	81.07	-302.33	0.00	
7300.00	0.00	359.68	7275.14	-302.54	81.07	-302.33	0.00	
7369.86	0.00	359.68	7345.00	-302.54	81.07	-302.33	0.00	1st Bone Spring Lime
7400.00	0.00	359.68	7375.14	-302.54	81.07	-302.33	0.00	
7500.00 7600.00	0.00	359.68 359.68	7475.14 7575.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	
7700.00	0.00	359.68	7675.14	-302.54	81.07	-302.33	0.00	
7800.00	0.00	359.68	7775.14	-302.54	81.07	-302.33	0.00	
7900.00	0.00	359.68	7875.14	-302.54	81.07	-302.33	0.00	
8000.00	0.00	359.68	7975.14	-302.54	81.07	-302.33	0.00	
8100.00	0.00	359.68	8075.14	-302.54	81.07	-302.33	0.00	
8200.00	0.00	359.68	8175.14	-302.54	81.07	-302.33	0.00	
8300.00	0.00	359.68	8275.14	-302.54	81.07	-302.33	0.00	Paris Co. 200 Aut
8325.86 8400.00	0.00	359.68 359.68	8301.00 8375.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	Bone Spring 1st
8500.00	0.00	359.68	8475.14	-302.54	81.07	-302.33	0.00	
8600.00	0.00	359.68	8575.14	-302.54	81.07	-302.33	0.00	
8700.00	0.00	359.68	8675.14	-302.54	81.07	-302.33	0.00	
8800.00	0.00	359.68	8775.14	-302.54	81.07	-302.33	0.00	
8900.00	0.00	359.68	8875.14	-302.54	81.07	-302.33	0.00	
8953.86	0.00	359.68	8929.00	-302.54	81.07	-302.33	0.00	Bone Spring 2nd
9000.00	0.00	359.68	8975.14	-302.54	81.07	-302.33	0.00	
9100.00 9200.00	0.00	359.68 359.68	9075.14 9175.14	-302.54 -302.54	81.07	-302.33 -302.33	0.00	
9300.00	0.00	359.68	9275.14	-302.54	81.07 81.07	-302.33	0.00	
9400.00	0.00	359.68	9375.14	-302.54	81.07	-302.33	0.00	
9447.86	0.00	359.68	9423.00	-302.54	81.07	-302.33	0.00	3rd Bone Spring Lime
9500.00	0.00	359.68	9475.14	-302.54	81.07	-302.33	0.00	· -
9600.00	0.00	359.68	9575.14	-302.54	81.07	-302.33	0.00	
9700.00	0.00	359.68	9675.14	-302.54	81.07	-302.33	0.00	
9800.00	0.00	359.68	9775.14	-302.54	81.07	-302.33	0.00	
9900.00 10000.00	0.00	359.68 359.68	9875.14 9975.14	-302.54 -302.54	81.07 81.07	-302.33 -302.33	0.00	
10100.00	0.00	359.68	10075.14	-302.54	81.07	-302.33	0.00	
10155.90	0.00	359.68	10131.04	-302.54	81.07	-302.33	0.00	KOP
10197.89	4.20	359.68	10173.00	-301.01	81.06	-300.80	10.00	Bone Spring 3rd
10200.00	4.41	359.68	10175.10	-300.85	81.06	-300.64	10.00	
10300.00	14.41	359.68	10273.63	-284.52	80.97	-284.31	10.00	
10400.00	24.41	359.68	10367.83	-251.33	80.78	-251.12	10.00	
10500.00 10600.00	34.41 44.41	359.68 359.68	10454.83 10531.99	-202.29 -138.88	80.51 80.15	-202.08 -138.67	10.00 10.00	
10600.00	48.93	359.68	10531.99	-136.66	80.15 79.97	-138.67	10.00	Wolfcamp / Point of Penetration
10700.00	54.41	359.68	10596.97	-63.04	79.73	-62.83	10.00	
10800.00	64.41	359.68	10647.80	22.93	79.25	23.14	10.00	
10900.00	74.41	359.68	10682.92	116.43	78.72	116.63	10.00	
11000.00	84.41	359.68	10701.28	214.60	78.18	214.80	10.00	
11055.90	90.00	359.68	10704.00	270.41	77.87	270.60	10.00	Landing Point
11100.00 11200.00	90.00 90.00	359.68 359.68	10704.00 10704.00	314.51 414.51	77.62 77.06	314.71 414.70	0.00	
11200.00	90.00	359.68	10704.00	514.50	76.50	514.70	0.00	
11400.00	90.00	359.68	10704.00	614.50	75.94	614.70	0.00	
11500.00	90.00	359.68	10704.00	714.50	75.38	714.69	0.00	
11600.00	90.00	359.68	10704.00	814.50	74.82	814.69	0.00	
11700.00	90.00	359.68	10704.00	914.50	74.27	914.69	0.00	
11800.00	90.00	359.68	10704.00	1014.50	73.71	1014.68	0.00	
11900.00	90.00	359.68	10704.00	1114.49	73.15	1114.68	0.00	
12000.00 12100.00	90.00 90.00	359.68 359.68	10704.00 10704.00	1214.49 1314.49	72.59 72.03	1214.68 1314.67	0.00	
12200.00	90.00	359.68	10704.00	1414.49	72.03	1414.67	0.00	
12300.00	90.00	359.68	10704.00	1514.49	70.91	1514.67	0.00	
12400.00	90.00	359.68	10704.00	1614.49	70.35	1614.66	0.00	



County: Eddy Wellbore: Permit Plan Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)				
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment			
12500.00	90.00	359.68	10704.00	1714.48	69.79	1714.66	0.00				
12600.00	90.00	359.68	10704.00	1814.48	69.23	1814.66	0.00				
12700.00	90.00	359.68	10704.00	1914.48	68.68	1914.65	0.00				
12800.00	90.00	359.68	10704.00	2014.48	68.12	2014.65	0.00				
12900.00	90.00	359.68	10704.00	2114.48	67.56	2114.65	0.00				
13000.00	90.00	359.68	10704.00	2214.48	67.00	2214.64	0.00				
13100.00	90.00	359.68	10704.00	2314.48	66.44	2314.64	0.00				
13200.00	90.00	359.68	10704.00	2414.47	65.88	2414.64	0.00				
13300.00	90.00	359.68	10704.00	2514.47	65.32	2514.63	0.00				
13400.00	90.00	359.68	10704.00	2614.47	64.76	2614.63	0.00				
13500.00	90.00	359.68	10704.00	2714.47	64.20	2714.63	0.00				
13600.00 13700.00	90.00	359.68	10704.00	2814.47	63.64	2814.62	0.00				
	90.00	359.68	10704.00	2914.47	63.08	2914.62	0.00				
13800.00	90.00	359.68	10704.00	3014.46	62.53	3014.62 3114.61	0.00				
13900.00 14000.00	90.00	359.68 359.68	10704.00 10704.00	3114.46 3214.46	61.97	3214.61	0.00				
14100.00	90.00 90.00	359.68	10704.00	3314.46	61.41	3314.61	0.00				
14200.00	90.00	359.68	10704.00	3414.46	60.85 60.29	3414.60	0.00				
14300.00	90.00	359.68	10704.00	3514.46	59.73	3514.60	0.00				
14400.00	90.00	359.68	10704.00	3614.46	59.17	3614.60	0.00				
14500.00	90.00	359.68	10704.00	3714.45	58.61	3714.59	0.00				
14600.00	90.00	359.68	10704.00	3814.45	58.05	3814.59	0.00				
14700.00	90.00	359.68	10704.00	3914.45	57.49	3914.59	0.00				
14800.00	90.00	359.68	10704.00	4014.45	56.94	4014.58	0.00				
14900.00	90.00	359.68	10704.00	4114.45	56.38	4114.58	0.00				
15000.00	90.00	359.68	10704.00	4214.45	55.82	4214.58	0.00				
15100.00	90.00	359.68	10704.00	4314.44	55.26	4314.57	0.00				
15200.00	90.00	359.68	10704.00	4414.44	54.70	4414.57	0.00				
15300.00	90.00	359.68	10704.00	4514.44	54.14	4514.57	0.00				
15400.00	90.00	359.68	10704.01	4614.44	53.58	4614.56	0.00				
15500.00	90.00	359.68	10704.01	4714.44	53.02	4714.56	0.00				
15600.00	90.00	359.68	10704.01	4814.44	52.46	4814.56	0.00				
15700.00	90.00	359.68	10704.01	4914.43	51.90	4914.55	0.00				
15800.00	90.00	359.68	10704.01	5014.43	51.35	5014.55	0.00				
15900.00	90.00	359.68	10704.01	5114.43	50.79	5114.55	0.00				
16000.00	90.00	359.68	10704.01	5214.43	50.23	5214.54	0.00				
16100.00	90.00	359.68	10704.01	5314.43	49.67	5314.54	0.00				
16200.00	90.00	359.68	10704.01	5414.43	49.11	5414.54	0.00				
16300.00	90.00	359.68	10704.01	5514.43	48.55	5514.53	0.00				
16400.00	90.00	359.68	10704.01	5614.42	47.99	5614.53	0.00				
16500.00	90.00	359.68	10704.01	5714.42	47.43	5714.53	0.00				
16600.00	90.00	359.68	10704.01	5814.42	46.87	5814.52	0.00				
16700.00 16800.00	90.00 90.00	359.68 359.68	10704.01 10704.01	5914.42 6014.42	46.31	5914.52 6014.52	0.00				
16900.00	90.00	359.68	10704.01	6114.42	45.75 45.20	6114.51	0.00				
17000.00	90.00	359.68	10704.01	6214.41	44.64	6214.51	0.00				
17100.00	90.00	359.68	10704.01	6314.41	44.08	6314.51	0.00				
17100.00	90.00	359.68	10704.01		43.52	6414.50	0.00				
17300.00	90.00	359.68	10704.01	6514.41	42.96	6514.50	0.00				
17400.00	90.00	359.68	10704.01	6614.41	42.40	6614.50	0.00				
17500.00	90.00	359.68	10704.01	6714.41	41.84	6714.49	0.00				
17600.00	90.00	359.68	10704.01	6814.41	41.28	6814.49	0.00				
17700.00	90.00	359.68	10704.01	6914.40	40.72	6914.49	0.00				
17800.00	90.00	359.68	10704.01	7014.40	40.16	7014.48	0.00				
17900.00	90.00	359.68	10704.01	7114.40	39.61	7114.48	0.00				
18000.00	90.00	359.68	10704.01	7214.40	39.05	7214.48	0.00				
18100.00	90.00	359.68	10704.01	7314.40	38.49	7314.47	0.00				
18200.00	90.00	359.68	10704.01	7414.40	37.93	7414.47	0.00				
18300.00	90.00	359.68	10704.01	7514.39	37.37	7514.47	0.00				
18400.00	90.00	359.68	10704.01	7614.39	36.81	7614.46	0.00				
18500.00	90.00	359.68	10704.01	7714.39	36.25	7714.46	0.00				
18600.00	90.00	359.68	10704.01	7814.39	35.69	7814.46	0.00				
18700.00	90.00	359.68	10704.01	7914.39	35.13	7914.45	0.00				
18800.00	90.00	359.68	10704.01	8014.39	34.57	8014.45	0.00				
18900.00	90.00	359.68	10704.01	8114.38	34.02	8114.45	0.00				
19000.00	90.00	359.68	10704.01	8214.38	33.46	8214.44	0.00				
19100.00	90.00	359.68	10704.01	8314.38	32.90	8314.44	0.00				
19200.00	90.00	359.68	10704.01	8414.38	32.34	8414.44	0.00				
19300.00	90.00	359.68	10704.01	8514.38	31.78	8514.43	0.00				
19400.00	90.00	359.68	10704.01	8614.38	31.22	8614.43	0.00				



County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	90.00	359.68	10704.01	8714.38	30.66	8714.43	0.00	
19600.00	90.00	359.68	10704.01	8814.37	30.10	8814.42	0.00	
19700.00	90.00	359.68	10704.01	8914.37	29.54	8914.42	0.00	
19800.00	90.00	359.68	10704.01	9014.37	28.98	9014.42	0.00	
19900.00	90.00	359.68	10704.01	9114.37	28.42	9114.41	0.00	
20000.00	90.00	359.68	10704.01	9214.37	27.87	9214.41	0.00	
20100.00	90.00	359.68	10704.01	9314.37	27.31	9314.41	0.00	
20200.00	90.00	359.68	10704.01	9414.36	26.75	9414.40	0.00	
20300.00	90.00	359.68	10704.01	9514.36	26.19	9514.40	0.00	
20400.00	90.00	359.68	10704.01	9614.36	25.63	9614.40	0.00	
20441.64	90.00	359.68	10704.01	9656.00	25.40	9656.03	0.00	exit
20500.00	90.00	359.68	10704.01	9714.36	25.07	9714.39	0.00	
20521.64	90.00	359.68	10704.00	9736.00	25.00	9736.03	0.00	BHL

Well: CLAWHAMMER 33-28-21 FEDERAL COM 414H

County: Eddy
Datum: North American Datum 1927

Wellbore: Permit Plan
Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD INC AZI TVD NS EW ٧S DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (°/100ft)

MECHANICAL PROPERTIES

Minimum Yield Strength

Maximum Yield Strength

DIMENSIONS

Outside Diameter

Wall Thickness

Inside Diameter

Standard Drift

Minimum Tensile Strength

U. S. Steel Tubular Products 10.750" 40.50lb/ft (0.350" Wall) H40

Pipe

40,000

80,000

60,000

Pipe

10.750

0.350

10.050

9.894

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Alternate Drift					in.	
Nominal Linear Weight, T&C	40.50				lb/ft	
Plain End Weight	38.91				lb/ft	
PERFORMANCE	Pipe	втс	LTC	STC		
Minimum Collapse Pressure	1,390	1,390	1,390	1,390	psi	
Minimum Internal Yield Pressure	2,280	2,280	2,280	2,280	psi	
Minimum Pipe Body Yield Strength	457				1,000 lbs	
Joint Strength				314	1,000 lbs	
Reference Length				5,164	ft	
MAKE-UP DATA	Pipe	втс	LTC	STC		
Make-Up Loss				3.50	in.	
Minimum Make-Up Torque				2,360	ft-lb	
Minimum Make-Up Torque Maximum Make-Up Torque				2,360 3,930	ft-lb ft-lb	

втс

BTC

0.000

9.894

LTC

LTC

0.000

9.894

Notes

Legal Notice

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

STC

STC

11.750

10.050

9.894

psi

psi

psi

in.

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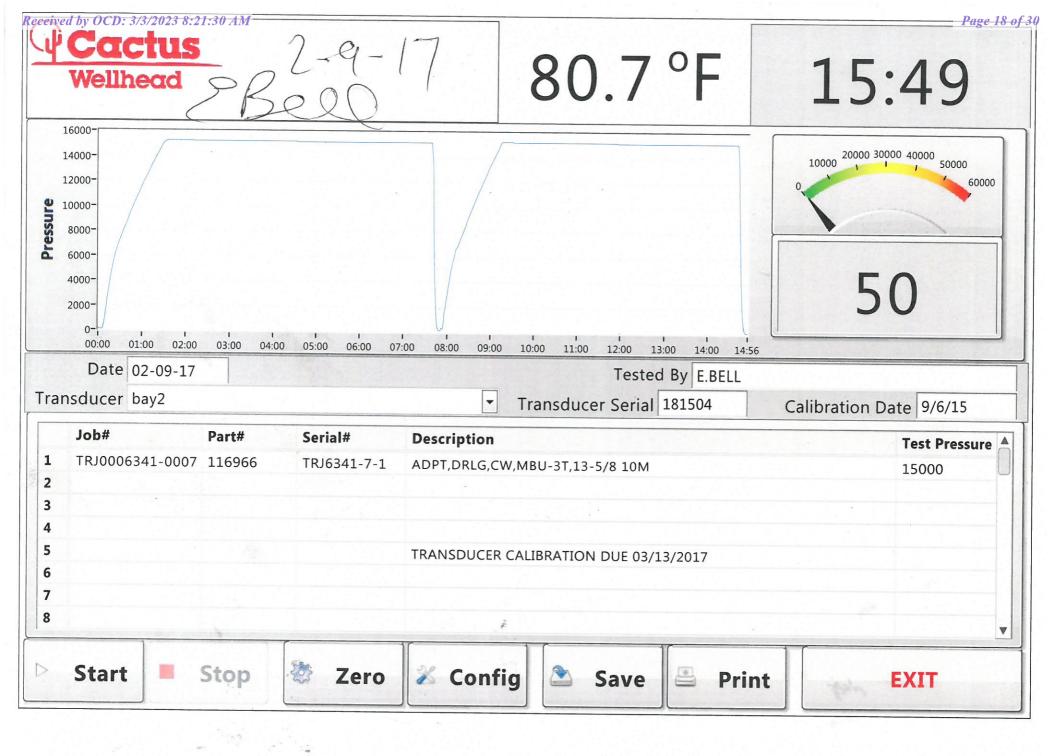
in.

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. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. 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 and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. 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. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

- 1. Well Control Response:
- 1. Primary barrier remains fluid
- 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: WPX Energy Permian LLC
LEASE NO.: NMNM0480904A
LOCATION: Section 33, T.26 S., R.30 E., NMPM
COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Clawhammer 33-28-21 Federal Com 414H
SURFACE HOLE FOOTAGE: 343'/S & 1520'/E
BOTTOM HOLE FOOTAGE 2609'/S & 1440'/E
ATS/API ID: 30001549839
APD ID: Sundry ID: 2704676

COA

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

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 Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 10-3/4 inch surface casing shall be set at approximately 460 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the 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' (526 sxs Class H/C+ additives).
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 277 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.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.

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

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

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 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 OOGO2.III.A.2.i 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 Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance

- 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 14-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - ☑ Eddy CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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 OOGO2.III.A.2.i 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 when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 12/20/2022

33-26-30-2 Sundry ID 2704676 Clawhammer 33-28-21 Fed Com 414H Eddy NM0480904A DEVON ENERGY PRODUCTION COMPANY LP 13-22d 12-20-2022 LV.xlsm

Clawhammer 33-28-21 Fed Com 414H

10 3/4	sur	face csg in a	13 1/2	inch hole.		Design	Factors			Surface	e	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50		h 40	btc	24.53	6.46	0.41	460	11	0.69	12.21	18,630
"B"				btc				0				0
	w/8.4#,	/g mud, 30min Sfc Csg Test	psig: 1,395	Tail Cmt	does not	circ to sfc.	Totals:	460	_			18,630
Comparison o	f Proposed to M	linimum Required Cem	ent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
13 1/2	0.3637	469	675	167	304	9.00	3311	5M				1.38
Burst Frac Grad	dient(s) for Segm	ent(s) A, B = , b All >	0.70, OK.		Site plat (pip	e racks S or E)	as per O.O.1.	III.D.4.i. not	found.			
8 5/8	casi	ng inside the	10 3/4			Design	Factors		-	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	32.00		p 110	tlw	3.31	0.76	1.53	10,173	2	2.56	1.28	
"B"			'					0				Ó
	w/8.4#,	/g mud, 30min Sfc Csg Test	psig: 2,238				Totals:	10,173				325,53
				ended to achieve a top of	0	ft from su	rface or a	460				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
9 7/8	0.1261	526	757	1292	-41	10.50	3484	5M				0.44
D V Tool(s):			5611				sum of sx	Σ CuFt				Σ%exces
by stage %:		32	26				802	1660				28
Class 'C' tail cm	it yld > 1.35											
Tail cmt									-			
5 1/2	casi	ng inside the	8 5/8			Design Fa	ctors		-	Prod 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	17.00		p 110	btc	3.00	1.28	1.82	20,522	2	3.05	2.15	348,87
"B"								0				0
	w/8.4#,	g mud, 30min Sfc Csg Test					Totals:	20,522				348,87
		The cement	volume(s) are inte	ended to achieve a top of	9973	ft from su	ırface or a	200				overlap.
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-Cp
7 7/8	0.1733	1489	2358	1828	29	10.50						0.91
Class 'C' tail cm	it yld > 1.35											
#N/A						<u>-</u>			a			
0			5 1/2	<u> </u>	*****	Design				Choose Ca		
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"				0.00				0				0
"R"				0.00				0				0

#N/A 0	5 1/2				Design Factors				<choose casing=""></choose>			
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
	w/8.4#/	g mud, 30min Sfc Csg Test p	sig:				Totals:	0				0
		Cmt vol ca	lc below includes thi	s csg, TOC intended	#N/A	ft from su	rface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef est t	op XXXX.								

Carlsbad Field Office 12/20/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 192829

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	192829
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created I	y Condition	Condition Date
kpickfo	• NSL Will require an administrative order for non-standard location prior to placing the well on production.	3/10/2023
kpickfo	Adhere to previous NMOCD Conditions of Approval	3/10/2023