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

Sundry Print Report

06/12/2023

Well Name: CLAWHAMMER 33-28-21 FED COM

Well Location: T26S / R30E / SEC 33 / LOT L3 / 32.00107 / -103.88719

County or Parish/State: EDDY / NM

Well Number: 423H

Type of Well: OTHER

Allottee or Tribe Name:

Lease Number:

Unit or CA Name:

Unit or CA Number:

US Well Number: 300154984300X1

Well Status: Drilling Well

Operator: WPX ENERGY PERMIAN LLC

Notice of Intent

Sundry ID: 2734163

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/05/2023

Time Sundry Submitted: 07:23

Date proposed operation will begin: 06/05/2023

Procedure Description: ENGINEERING ONLY - Devon Energy Production Co., L.P. (Devon) respectfully requests to change the intermediate set depth from 10173' to 10800'. An additional connection has also been added. Please see the attached documentation.

NOI Attachments

Procedure Description

CDS_FXL_7_625_29_7_BMP_P110HC_Mar10_2021_20230605072312.pdf

Clawhammer_33_28_21_Fed_Com_413H_423H_Slim_Hole_rev1_20230605072312.pdf

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Conditions of Approval

Specialist Review

Clawhammer_33_28_21_Fed_Com_423H_Sundry_ID_2734163_20230607081114.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: CHELSEY GREEN

Signed on: JUN 05, 2023 07:23 AM

Name: WPX ENERGY PERMIAN LLC

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City **State:** OK

Phone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 06/07/2023

Signature: Long Vo

1. Geologic Formations

TVD of target	10839	Pilot hole depth	N/A
MD at TD:	20715	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
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)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54.5	J55	BTC	0	1173	0	1173
8 3/4	7 5/8	29.7	P110	VAM SPRINT FJ	0	10173	0	10173
8 3/4	7 5/8	29.7	P110	MO-FXL	10173	10800	10173	10670
6 3/4	5 1/2	20	P110	DWC/C IS & VAM SPRINT SF	0	20715	0	10839

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

Variance Approval -

*5-1/2" Production Casing will include Vam Sprint Semi-Flush Joint connection (5.783") from base of curve and 500ft into 7-5/8" casing shoe
*All other 5-1/2" Production Casing will run DWC/C IS (6.05")

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	887	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1 (2 Stage Job)	380	Surf	9	3.27	2nd Stage Lead: Class C Cement + additives
	490	5611	13.2	1.44	Tail: Class H / C + additives
Production	70	8351	9	3.27	Lead: Class H /C + additives
	662	10352	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 7-5/8''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.

2. Casing Program (Contingency Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J55	BTC	0	1173	0	1173
12 1/4	9 5/8	40.0	J55	BTC	0	3481	0	3481
8 3/4	7 5/8	29.7	P110	VAM SPRINT FJ	0	10173	0	10173
8 3/4	7 5/8	29.7	P110	MO-FXL	10173	10800	10173	10670
6 3/4	5 1/2	20.0	P110	DWC/C IS & VAM SPRINT SF	0	20715	0	10839

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

Variance Approval -

*5-1/2" Production Casing will include Vam Sprint Semi-Flush Joint connection (5.783") from base of curve and 500ft into 7-5/8" casing shoe

*All other 5-1/2" Production Casing will run DWC/C IS (6.05")

3. Cementing Program (Contingency Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	887	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	360	Surf	9.0	3.3	Lead: Class C Cement + additives
	154	500' above	13.2	1.4	Tail: Class H / C + additives
Int 1 (2 stage)	184	Surf	9.0	3.3	2nd Stage Lead: Class C Cement + additives
	490	5611	13.2	1.4	Tail: Class H / C + additives
Production	70	8351	9.0	3.3	Lead: Class H /C + additives
	662	KOP	13.2	1.4	Tail: Class H / C + additives

Note

Cementing Program (Contingency Design)Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 7-5/8''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	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

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

4. Pressure Control Equipment (Four String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	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, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Rpeort 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.

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5918
Abnormal temperature	No

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

Hydrogren 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 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

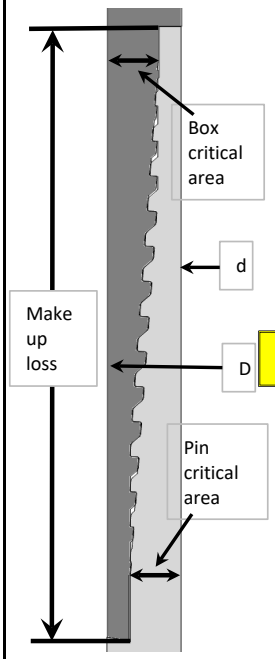
X Directional Plan

_____ Other, describe

Metal One Corp.	MO-FXL Pipe Body: BMP P110HC MinYS110ksi Connection Data Sheet	CDS#	MO-FXL 7-5/8 29.7 P110HC MinYS110ksi
		Date	10-Mar-21

Geometry

MO-FXL



Pipe Body

Grade *	P110HC		P110HC	
Pipe OD (D)	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.25	kg/m
Actual weight	29.04		43.26	kg/m
Wall Thickness (t)	0.375	in	9.53	mm
Pipe ID (d)	6.875	in	174.63	mm
Pipe body cross section	8.537	in^2	5,508	mm^2
Drift Dia.	6.750	in	171.45	mm

Connection

Box OD (W)	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Make up Loss	4.219	in	107.16	mm
Box Critical Area	5.714	in^2	3686	mm^2
Joint load efficiency	70	%	70	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S. *	939	kips	4,177	kN
M.I.Y.P. *	9,470	psi	65.31	MPa
Collapse Strength *	7,050	psi	48.62	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

* BMP P110HC: MinYS110ksi, Collapse 7,050psi
Performance Data Sheet: SOP-12-F05 Rev.1, dated 9/6/2018

Performance Properties for Connection

Tensile Yield load	657 kips (70% of S.M.Y.S.)
Min. Compression Yield	657 kips (70% of S.M.Y.S.)
Internal Pressure	7,580 psi (80% of M.I.Y.P.)
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	27

Recommended Torque

Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

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
District IV
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 226316

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 226316
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	If a bradenhead squeeze is used, then a CBL is required to verify the integrity of the cement. All other COA's still apply.	10/20/2023