U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 03/04/2025
Well Name: STEEL GUITAR 35-26 FED COM	Well Location: T26S / R29E / SEC 26 / NENE / 32.0184902 / -103.9489682	County or Parish/State: EDDY / NM
Well Number: 415H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM41646	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: WPX ENERGY PERMIAN LLC	

Notice of Intent

Sundry ID: 2837919

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/20/2025

Date proposed operation will begin: 02/20/2025

Type of Action: APD Change Time Sundry Submitted: 02:16

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to add a 4 string casing design as contingency to the drill plan for the Steel Guitar 35-26 Fed Com 415H (APD ID 10400093573). Please see attachments.

NOI Attachments

Procedure Description

5.5_20lb_P110EC_DWC_C_IS_PLUS_20250220141625.pdf

8.625_32lb_P110EC_SPRINT_FJ_VST_20250220141602.pdf

10.75_45.5lb_J55_BTC_20250220141541.pdf

13.375_54.5lb_J55_20250220141524.pdf

Steel_Guitar_35_26_Fed_Com_415H_Combined__20250220141426.pdf

Received by OCD: 3/5/2025 8:40:42 AM Well Name: STEEL GUITAR 35-26 FED COM	Well Location: T26S / R29E / SEC 26 / NENE / 32.0184902 / -103.9489682	County or Parish/State: EDB ?? of 4
Well Number: 415H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM41646	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: WPX ENERGY PERMIAN LLC	

Conditions of Approval

Specialist Review

Steel_Guitar_35_26_Fed_Com_415H_Sundry_ID_2837919_20250304081540.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 LLC Title: Regulatory Professional Street Address: 333 WEST SHERIDAN AVENUE

Operator Electronic Signature: AMY BROWN

City: OKLAHOMA CITY State: OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

State:

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: FEB 20, 2025 02:16 PM

BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 03/04/2025

Zip:



Connection Data Sheet

OD (in.)	WEIGHT (Ibs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES 729 klb Yield Strength Parting Load 787 klb **Compression Rating** 729 klb Min. Internal Yield 14,360 psi *High Collapse* 12,090 psi Maximum Uniaxial Bend Rating 104.2 °/100 ft Ref String Length w 1.4 Design Factor 26,040 ft

FIELD TORQUE VALUES		
Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
+Max Operational Torque	24,300	ft.lbs
†Maximum Torsional Value (MTV)	26,730	ft.lbs

+Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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05/23/2023 4:11 PM



VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234 VAM USA Sales E-mail: <u>VAMUSAsales@vam-usa.com</u> Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM [®] SPRINT-FJ
	Plain End: 31.13				

PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION PRO	PERTIES	
Connection Type	Semi-Premium Inte	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

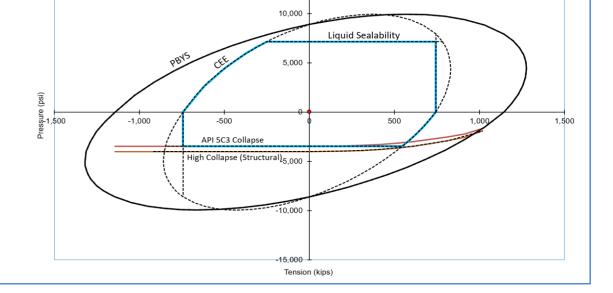
CONNECTION PERFORMANCES		
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Bending with Sealability	41	°/100ft
Max. Bending with Sealability	10	°/100ft

TORQUE VALUES		
Min. Make-up torque	15,000	ft.lb
Opt. Make-up torque	16,500	ft.lb
Max. Make-up torque	18,000	ft.lb
Max. Torque with Sealability (MTS)	TBD	ft.lb

* 87.5% RBW

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension

capacity are required for intermediate casing strings.



15,000

Do you need help on this product? - Remember no one knows VAM^{\circledast} like VAM^{\circledast}

- canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com
- uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com

china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance





<u>10-3/4"</u>	<u>45.50#</u>	<u>0.400"</u>	<u>J-55</u>					
Dimensions	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	e 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.

1. Geologic Formations

TVD of target	10097	Pilot hole depth	N/A
MD at TD:	16985	Deepest expected fresh water	

Basin

Dusin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	247		
Salt	1152		
Base of Salt	2981		
Delaware	2981		
Cherry Canyon	4037		
Brushy Canyon	4972		
1st Bone Spring Lime	6699		
Bone Spring 1st	7622		
Bone Spring 2nd	8227		
3rd Bone Spring Lime	8693		
Bone Spring 3rd	9512		
Wolfcamp	9853		

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

		Wt		Grade Conn		Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade			To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	40 1/2	H40	BTC	0	272	0	272
9 7/8	8 5/8	32	P110	TLW	0	9612	0	9612
7 7/8	5 1/2	17	P110	BTC	0	16985	0	10097

2. Casing Program (Primary Design)

• 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 (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	182	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	248	Surf	9	3.27	Lead: Class C Cement + additives
Int I	538	4972	13.2	1.44	Tail: Class H / C + additives
Int 1	563	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	248	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	538	4972	13.2	1.44	Tail: Class H / C + additives
Production	117	7622	9	3.27	Lead: Class H /C + additives
Production	974	9622	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 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. 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%

2	Cocina	Drogrom	(Secondary	Docian)
4.	Casing	ргодгаш	(Secondary	Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J-55	BTC	0.0	800 MD	0	800 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	3150 MD	0	3150 TVD
9 7/8	8 5/8	32.0	P110	Sprint FJ	0	9522 MD	0	9522 TVD
7 7/8	5 1/2	20.0	P110	DWC / C-IS+	0	16985 MD	0	10097 TVD

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

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	617	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	200	Surf	9	3.27	Lead: Class C Cement + additives
III	101	2650	13.2	1.44	Tail: Class H / C + additives
Int 1	200	Surf	9	3.27	Lead: Class C Cement + additives
Int I	528	4972	13.2	1.44	Tail: Class H / C + additives
Int 1	454	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	200	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	528	4972	13.2	1.44	Tail: Class H / C + additives
Production	117	7622	9	3.27	Lead: Class H /C + additives
FIOUCTION	974	9622	13.2	1.44	Tail: Class H / C + additives

3. Cementing Program (Secondary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing String	% Excess
Surface	50%
Intermediate and Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

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.

Steel Guitar 35-26 Fed Com 415H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:												
				Annular		50% of rated working pressure												
Int 1	13-5/8"	5M	Bline	d Ram	Х													
	13-3/8	5101	Pipe	Ram		5M												
			Doub	le Ram	Х	J1VI												
			Other*															
			Annular (5M)		X	50% of rated working pressure												
Due due die u	13-5/8"	514	Blind Ram		Х													
Production		13-3/8	13-3/8	13-3/8	5M	JIVI	31 VI	5101	5101	5101	JM	JIVI	5111	5111	Pipe	Ram		5M
			Other*															
			Annular (5M)															
			Blind Ram															
			Pipe Ram			1												
			Double Ram															
			Other*															
N A variance is requested for	the use of a	diverter or	the surface	casing. See	attached for s	chematic.												
Y A variance is requested to r	un a 5 M ai	nnular on a	10M system															

.

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	T <u>;</u>	уре	~	Tested to:					
			An	nular	Х	50% of rated working pressure					
Int	13-5/8"	5M	Bline	d Ram	Х						
IIIt	15-5/8	5111	Pipe	Annular X 50% of rated worl pressure Blind Ram X Pipe Ram 5M Double Ram X Other* 100% of rated worl pressure Blind Ram X Pipe Ram 5M Double Ram X Pipe Ram 5M Double Ram X Pipe Ram 5M Double Ram X Pipe Ram 5M Manular (5M) X Iloo% of rated worl pressure Blind Ram X Yher* 100% of rated worl pressure Blind Ram X Pipe Ram 5M							
			Double Ram X								
			Other*								
			Annul	ar (5M)	X	100% of rated working pressure					
Int 1	13-5/8"	514	5M Blind Ram X								
Int I	15-5/8	5M	514								
	Double Ram Other*	le Ram	Х	5101							
				l .					Other*		
			Annul	ar (5M)	Х	100% of rated working pressure					
Production	13-5/8"	5M Blind Ram	Х								
rioduction	15-5/8	5111	Pipe	Ram		5M					
			Doub	le Ram	Х						
			Other*								
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.										
N A variance is requested to	A variance is requested to run a 5 M annular on a 10M system										

4. Pressure Control Equipment (Four String Design)

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5. Mud Program

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
what will be used to monitor the loss of gain of fluid?	r v 1/r ason/ v isual wonitoring

6. Logging and Testing Procedures

Logging, Co	oring 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 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
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5513
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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is				
encountered	encountered measured values and formations will be provided to the BLM.				
Ν	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

Received by UCD: 3/5/2025 8:40:42 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: STEEL GUITAR 35-26 FED COM	Well Location: T26S / R29E / SEC 26 / NENE / 32.0184902 / -103.9489682	County or Parish/State: EDDY / NM
Well Number: 415H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM41646	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: WPX ENERGY PERMIAN LLC	

Notice of Intent

Sundry ID: 2837919

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/20/2025

Date proposed operation will begin: 02/20/2025

Type of Action: APD Change Time Sundry Submitted: 02:16

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to add a 4 string casing design as contingency to the drill plan for the Steel Guitar 35-26 Fed Com 415H (APD ID 10400093573). Please see attachments.

NOI Attachments

Procedure Description

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Lease Number: NMNM41646	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: WPX ENERGY PERMIAN LLC	

Operator

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

Operator Electronic Signature: AMY BROWN

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: OK

State:

Zip:

Signed on: FEB 20, 2025 02:16 PM

APPROVED by Long Vo Petroleum Engineer Carlsbad Field Office 575-988-50402 LVO@BLM.GOV

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	WPX Energy Permian LLC	•
LOCATION:	Section 26, T.26 S., R.29 E., NMPM	
COUNTY:	Eddy County, New Mexico	-
	•	
WELL NAME & NO.:	Steel Guitar 35-26 Fed Com 415H	
ATS/API ID:	ATS-23-2051	
APD ID:	10400093573	
Sundry ID:	2837919	

COA

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Primary Design	n:		
H2S	Yes 🔽		
Potash	None 🔻	None	
Cave/Karst Potential	Medium 💌		
Cave/Karst Potential			
Variance	🖸 None	C Flex Hose	Other
Wellhead	Conventional and Multibow	/I	
Other	4 String 5 String	Capitan Reef	WIPP
		None 🔻	
Other	Pilot Hole	Open Annulus	
	None 🔻		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None 🔻	Int 1	Squeeze
		P	None 🚽
Special	Water	COM	Unit Unit
Requirements	Disposal/Injection		
Special	Batch Sundry	Waste Prevention	
Requirements		None 🔻	
Special	BOPE Break Testing	✓ Offline	Casing
Requirements	□ Offline BOPE Testing	Cementing	Clearance
Variance			

Primary Design:

•

Alternate Design:

Potash	None 💌	None	
Cave/Karst Potential	Medium 🔻		
Cave/Karst Potential			
Other	✓4 String □5 String	Capitan Reef None	WIPP
Other	Pilot Hole None	Open Annulus	
Cementing	Contingency Squeeze	Echo-Meter Int 2	Primary Cement Squeeze None

A. HYDROGEN SULFIDE

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

Primary Design

B. CASING

- 1. The 10-3/4 inch surface casing shall be set at approximately 411 feet (a minimum of 70 feet (Eddy County) 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 14 3/4 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.

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 4972'.
- 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 563 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 BH to verify TOC.</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.
- 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.

Alternate Design

C. CASING

- 4. The 13-3/8 inch surface casing shall be set at approximately 411 feet (a minimum of 70 feet (Eddy County) 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.
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 5. 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.

6. 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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 4972'.
- d. 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 454 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.
- 7. 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.

D. 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 10-3/4 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** intermediate casing shoe shall be **5000 (5M)** psi.

Option 2:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 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 3:

- a. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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.

E. 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.

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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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- <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) 3/4/2025

Received by OCD: 3/5/2025 8:40:42 AM

Form 3160-5 (June 2019)		UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT		FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.	
	ot use this f		ORTS ON WELLS to drill or to re-enter an PD) for such proposals.	6. If Indian, Allottee or Tribe N	ame
	SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2	7. If Unit of CA/Agreement, N	ame and/or No.
1. Type of Well	l 🗌 Gas V	Vell 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 Explorate	ory Area
4. Location of Well (Fe	ootage, Sec., T.,F	R.,M., or Survey Description))	11. Country or Parish, State	
	12. CHE	CK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE (J DF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUB	MISSION		TYPE	E OF ACTION	
Notice of Intent		Acidize	Deepen [Hydraulic Fracturing [Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Rep	ort	Casing Repair Change Plans	New Construction [Plug and Abandon [Recomplete Temporarily Abandon	Other
Final Abandonn	nent Notice	Convert to Injection	Plug Back	Water Disposal	
the proposal is to d the Bond under wh completion of the i	eepen directiona ich the work wil nvolved operation bandonment No	lly or recomplete horizontal l be perfonned or provide thons. If the operation results in	ly, give subsurface locations and me e Bond No. on file with BLM/BIA. I n a multiple completion or recomple	asured and true vertical depths of Required subsequent reports mus tion in a new interval, a Form 31	k and approximate duration thereof. If f all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been he operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)			
	Fitle		
Signature	Date		
THE SPACE FOR FEDE	RAL OR STATE OI	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 lease 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 d	epartment 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: NENE / 455 FNL / 1000 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0184902 / LONG: -103.9489682 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 100 FNL / 510 FEL / TWSP: 26S / RANGE: 29E / SECTION: 26 / LAT: 32.0194 / LONG: -103.9473 (TVD: 9853 feet, MD: 9919 feet) BHL: LOT 12 / 1768 FNL / 510 FEL / TWSP: 26S / RANGE: 29E / SECTION: 35 / LAT: 32.0002 / LONG: -103.9489 (TVD: 10096 feet, MD: 16985 feet)



Connection Data Sheet

OD (in.)	WEIGHT (Ibs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES 729 klb Yield Strength Parting Load 787 klb **Compression Rating** 729 klb Min. Internal Yield 14,360 psi *High Collapse* 12,090 psi Maximum Uniaxial Bend Rating 104.2 °/100 ft Ref String Length w 1.4 Design Factor 26,040 ft

FIELD TORQUE VALUES		
Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
+Max Operational Torque	24,300	ft.lbs
+Maximum Torsional Value (MTV)	26,730	ft.lbs

+Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM [®] SPRINT-FJ
	Plain End: 31.13				•

PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION PROP	PERTIES	
Connection Type	Semi-Premium Inte	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

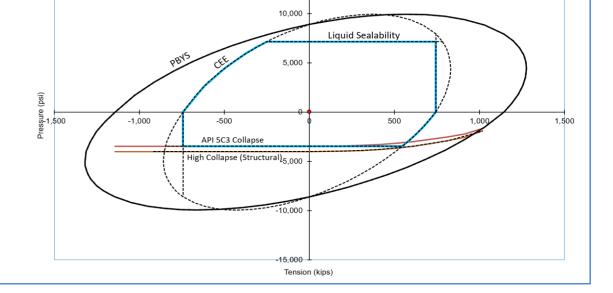
CONNECTION PERFORMANCES		
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Bending with Sealability	41	°/100ft
Max. Bending with Sealability	10	°/100ft

TORQUE VALUES		
Min. Make-up torque	15,000	ft.lb
Opt. Make-up torque	16,500	ft.lb
Max. Make-up torque	18,000	ft.lb
Max. Torque with Sealability (MTS)	TBD	ft.lb

* 87.5% RBW

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension

capacity are required for intermediate casing strings.



15,000

Do you need help on this product? - Remember no one knows VAM^{\circledast} like VAM^{\circledast}

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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance







<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 Weight, T&C Weight, PE			10.750 0.400 9.950 9.875 45.500 44.260	in. in. in. Ibs/ft Ibs/ft
<u>Performance</u>	e 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

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1. Geologic Formations

TVD of target	10097	Pilot hole depth	N/A
MD at TD:	16985	Deepest expected fresh water	

Basin

Dusin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	247		
Salt	1152		
Base of Salt	2981		
Delaware	2981		
Cherry Canyon	4037		
Brushy Canyon	4972		
1st Bone Spring Lime	6699		
Bone Spring 1st	7622		
Bone Spring 2nd	8227		
3rd Bone Spring Lime	8693		
Bone Spring 3rd	9512		
Wolfcamp	9853		

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

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	e Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	40 1/2	H40	BTC	0	272	0	272
9 7/8	8 5/8	32	P110	TLW	0	9612	0	9612
7 7/8	5 1/2	17	P110	BTC	0	16985	0	10097

2. Casing Program (Primary Design)

• 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 (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	182	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	248	Surf	9	3.27	Lead: Class C Cement + additives
Int I	538	4972	13.2	1.44	Tail: Class H / C + additives
Int 1	563	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	248	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	538	4972	13.2	1.44	Tail: Class H / C + additives
Production	117	7622	9	3.27	Lead: Class H /C + additives
Production	974	9622	13.2	1.44	Tail: Class H / C + additives

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the 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. 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%

20		Duegue	(Casani	lame T) and any)
4. U	asing	Program	(Second	іагу і	Jesign)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
17 1/2	13 3/8	54.5	J-55	BTC	0.0	800 MD	0	800 TVD
12 1/4	10 3/4	45.5	J-55	BTC SCC	0.0	3150 MD	0	3150 TVD
9 7/8	8 5/8	32.0	P110	Sprint FJ	0	9522 MD	0	9522 TVD
7 7/8	5 1/2	20.0	P110	DWC / C-IS+	0	16985 MD	0	10097 TVD

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

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	617	Surf	13.2	1.44	Lead: Class C Cement + additives
Int	200	Surf	9	3.27	Lead: Class C Cement + additives
IIIt	101	2650	13.2	1.44	Tail: Class H / C + additives
Int 1	200	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	528	4972	13.2	1.44	Tail: Class H / C + additives
Int 1	454	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	200	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	528	4972	13.2	1.44	Tail: Class H / C + additives
	117	7622	9	3.27	Lead: Class H /C + additives
Production	974	9622	13.2	1.44	Tail: Class H / C + additives

3. Cementing Program (Secondary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing String	% Excess
Surface	50%
Intermediate and Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

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.

Steel Guitar 35-26 Fed Com 415H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	ype	~	Tested to:													
			Anr	nular	Х	50% of rated working pressure													
Int 1	13-5/8"	5M	Blind	l Ram	Х														
	13-3/8	5101	Pipe	Ram		5M													
			Doubl	le Ram	X	JIVI													
			Other*																
	13-5/8"		Annular (5M)		X	50% of rated working pressure													
Due du stiere		514	Blind Ram		X	- 5M													
Production		21/1	5M Pipe Ram																
																[Doubl	le Ram	X
	Other*																		
			Annular (5M)																
			Blind Ram																
			Pipe Ram																
			Double Ram			1													
			Other*																
N A variance is requested for	the use of a	diverter or	the surface	casing. See a	attached for s	chematic.													
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system																		

.

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		*	Tested to:								
			Annular		Х	50% of rated working pressure								
Int	13-5/8"	5M	Bline	d Ram	Х									
Int	15-5/8	5101	Pipe	e Ram		5M								
			Doub	le Ram	Х	5101								
			Other*											
	13-5/8"		Annul	ar (5M)	Х	100% of rated working pressure								
Int 1		5M	Blind Ram		Х									
IIIt I		13-3/8 31	13-3/8	13-5/0 SIVI	Pipe Ram			5M						
													Doub	le Ram
			Other*											
				ar (5M)	X	100% of rated working pressure								
Production	13-5/8"	5M	Bline	d Ram	Х									
	13-3/8	5141		Ram		- 5M								
			Doub	le Ram	Х	5101								
			Other*											
	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.													
N A variance is requested to	A variance is requested to run a 5 M annular on a 10M system													

4. Pressure Control Equipment (Four String Design)

5. Mud Program

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
what will be used to monitor the loss of gain of fluid?	r v 1/r ason/ v isual wonitoring

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 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
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5513
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	measured values and formations will be provided to the BLM.
Ν	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

Steel Guitar 26-35 Fed Com 415H

13 3/8	su	rface csg in a	17 1/2	inch hole.		Design I	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50		j 55	btc	38.09	5.88	1.59	411	15	2.66	11.11	22,400
"B"				btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test p	osig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	411				22,400
Comparison o	f Proposed to N	linimum Required Ceme	nt Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	617	888	285	211	9.00	1025	2M				1.56
10.274			40.0/0			Desimu				1		
10 3/4	cas	ing inside the	13 3/8			Design I	-actors			Int 1		

Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50		j 55	btc scc	3.53	1.22	0.69	3,150	2	1.16	2.04	143,325
"B"								0				0
	w/8.4#/	/g mud, 30min Sfc Csg Test ps	ig: 1,131				Totals:	3,150				143,325
		The cement vol	ume(s) are intende	d to achieve a top of	0	ft from su	rface or a	411				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.1882	301	799	613	30	10.50	3099	5M				0.50
D V Tool(s):							sum of sx	<u>Σ</u> CuFt				Σ%excess
by stage % :		#VALUE!	#VALUE!				301	799				30
Class 'C' tail cm	nt yld > 1.35											

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.14, b, c, d All > 0.70, OK.

8 5/8	casing	g inside the	10 3/4	<u> </u>		Design Fa	<u>ctors</u>			Int 2		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	32.00	ł	p 110	vam sprint fj	2.44	0.77	1.3	9,522	1	2.18	1.29	304,70
"B"								0				0
"C"								0				0
"D"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test psig	g: 850				Totals:	9,522				304,70
		The cement volu	ime(s) are intend	ded to achieve a top of	0	ft from su	rface or a	3150				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
	0.4004	728	1414	1227	15	10.50	3286	5M				0.61
9 7/8	0.1261											
9 7/8		ng Depths for D V Tool(s)): 4972				sum of sx	<u>Σ</u> CuFt				Σ%exce
% exces	Settins cmt by stage:): 4972 0				<u>sum of sx</u> 1182	<u>Σ CuFt</u> 2068				<u>Σ%exce</u> 69
% excess lass 'C' tail cm Tail cmt	Settin s cmt by stage: t yld > 1.35	ng Depths for D V Tool(s) 146	0			Design	1182			Prod 1		<u>Σ%exces</u> 69
% excess lass 'C' tail cmt Tail cmt 5 1/2	Settin s cmt by stage: t yld > 1.35 casing	ng Depths for D V Tool(s) 146 g inside the		Coupling	Joint	Design I Collapse	1182 Factors	2068	B@s	Prod 1	a-C	69
% excess lass 'C' tail cmt Tail cmt 5 1/2 Segment	Settin s cmt by stage: t yld > 1.35 casing #/ft	ng Depths for D V Tool(s) 146 g inside the Grade	0 8 5/8	Coupling dwc/c is+	Joint 3.61	Collapse	1182 Factors Burst	2068 Length	B@s 3	a-B	a-C 3.68	69 Weigh
% excess lass 'C' tail cmt Tail cmt 5 1/2	Settin s cmt by stage: t yld > 1.35 casing	ng Depths for D V Tool(s) 146 g inside the Grade	0	Coupling dwc/c is+	Joint 3.61		1182 Factors	2068 Length 16,985	B@s 3		a-C 3.68	69
% excess lass 'C' tail cm Tail cmt 5 1/2 Segment "A"	Setti s cmt by stage: t yld > 1.35 casing #/ft 20.00	ng Depths for D V Tool(s) 146 g inside the Grade	0 8 5/8 p 110			Collapse	1182 Factors Burst 2.61	2068 Length 16,985 0	<u> </u>	a-B		69 Weigh 339,70
% excess lass 'C' tail cm Tail cmt 5 1/2 Segment "A"	Setti s cmt by stage: t yld > 1.35 casing #/ft 20.00	ng Depths for D V Tool(s) 146 g inside the Grade	0 8 5/8 p 110 g: 2,221			Collapse	1182 Factors Burst 2.61 Totals:	2068 Length 16,985	<u> </u>	a-B	3.68	69 Weigh 339,70 0
% excess lass 'C' tail cm Tail cmt 5 1/2 Segment "A"	Setti s cmt by stage: t yld > 1.35 casing #/ft 20.00	ng Depths for D V Tool(s) 146 g inside the Grade	0 8 5/8 p 110 g: 2,221	dwc/c is+	3.61	Collapse 2.2	1182 Factors Burst 2.61 Totals:	2068 Length 16,985 0 16,985 200	<u> </u>	a-B	3.68	69 Weigh 339,70 0 339,70 overlap.
% excess lass 'C' tail cm Tail cmt 5 1/2 Segment "A" "B"	Setti s cmt by stage: t yld > 1.35 casing #/ft 20.00 w/8.4#/g	ng Depths for D V Tool(s) 146 g inside the Grade mud, 30min Sfc Csg Test psig The cement volu	0 8 5/8 p 110 g: 2,221 ume(s) are intend	dwc/c is+	3.61 9322	Collapse 2.2 ft from su	1182 Factors Burst 2.61 Totals: rface or a	2068 Length 16,985 0 16,985	<u> </u>	a-B	3.68	69 Weigh 339,70 0 339,70
% excess lass 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole	Setti s cmt by stage: t yld > 1.35 casing #/ft 20.00 w/8.4#/g Annular	ng Depths for D V Tool(s) 146 g inside the Grade mud, 30min Sfc Csg Test psig The cement volu 1 Stage	0 8 5/8 p 110 g: 2,221 ime(s) are intend 1 Stage	dwc/c is+ ded to achieve a top of Min	3.61 9322 1 Stage	Collapse 2.2 ft from su Drilling	Tatals: Totals: rface or a Calc	2068 Length 16,985 0 16,985 200 Req'd	<u> </u>	a-B	3.68	69 Weigh 339,70 0 339,70 overlap. Min Dis

.

171

28

Weight

16,646

0 16,646

Min Dist

Hole-Cplg

2.00

1.35 307,584

Weight

0 307,584 overlap. Min Dist

Hole-Cplg

0.44

Σ%excess

96

a-C

a-C

13.66

26-26-29-A Sundry ID 2837919 Steel Guitar 26-35 Fed Com 415H Eddy NM41646 WPX ENERGY PERMIAN LLC 13-22g 1-30-2024 LV

10 3/4	SI	rface csg in a	14 3/4	inch hole.		Design	Factors			Surface
Segment	#/ft	Grade	,	Coupling	Joint	Collapse	Burst	Length	B@s	a-B
"A"	40.50		h 40	btc	27.45	7.23	0.43	411	13	0.73
"B"				btc				0		
	w/8.4	#/g mud, 30min Sfc Csg Test p	sig: 1,417	Tail Cmt	does not	circ to sfc.	Totals:	411		
Comparison o	of Proposed to I	Minimum Required Cemer	t Volumes							
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE		
14 3/4	0.5563	182	262	229	15	9.00	3128	5M		
Burst Frac Grac	dient(s) for Segm	ent(s) A, B = , b All > 0.7(), OK.		Site plat (pip	e racks S or E) a	as per 0.0.1.I	ll.D.4.i. not fo		
Burst Frac Grac 8 5/8		ing inside the), ОК. 103/4		Site plat (pip	e racks S or E) : Design	s per 0.0.1.1 Factors	II.D.4.i. not fo		Int 1
				Coupling	Site plat (pip	Design Collapse	is per 0.0.11 Factors Burst	LD.4.1. not fo	und. B@s	Int 1 a-B
8 5/8	cas	ing inside the		Coupling tlw	Site plat (pip Joint 3.50			Length 9,612	und. B@s 2	
8 5/8 Segment	cas #/ft	ing inside the	10 3/4			Collapse	Burst	•	-	a-B
8 5/8 Segment "A"	cas #/ft 32.00	ing inside the	10 3/4 p 110			Collapse	Burst	9,612	-	a-B
8 5/8 Segment "A"	cas #/ft 32.00	ing inside the Grade #/g mud, 30min Sfc Csg Test p	10 3/4 p 110 sig: 2,115			Collapse	Burst 1.62 Totals:	9,612 0	-	a-B
8 5/8 Segment "A"	cas #/ft 32.00	ing inside the Grade #/g mud, 30min Sfc Csg Test p	10 3/4 p 110 sig: 2,115	tiw	3.50	Collapse 0.81	Burst 1.62 Totals:	9,612 0 9,612	-	a-B
8 5/8 Segment "A" "B" Hole Size	cas #/ft 32.00 w/8.4 Annular Volume	ing inside the Grade #/g mud, 30min Sfc Csg Test p The cement vo 1 Stage Cmt Sx	10 3/4 p 110 sig: 2,115 lume(s) are inter 1 Stage CuFt Cmt	thw ded to achieve a top of Min Cu Ft	3.50 0 1 Stage % Excess	Collapse 0.81 ft from su	Burst 1.62 Totals: Irface or a	9,612 0 9,612 411	-	a-B
8 5/8 Segment "A" "B" Hole	cas #/ft 32.00 w/8.4 Annular	ing inside the Grade #/g mud, 30min Sfc Csg Test p The cement vo 1 Stage	10 3/4 p 110 sig: 2,115 lume(s) are inter 1 Stage	tlw ded to achieve a top of Min	3.50 0 1 Stage	Collapse 0.81 ft from su Drilling	Burst 1.62 Totals: Inface or a Calc	9,612 0 9,612 411 Req'd	-	a-B

1349

2396

Steel Guitar 26-35 Fed Com 415H

r D V Tool(s): t by stage % :

Class 'C' tail cmt yld > 1.35

51/2	casin	g inside the	8 5/8	_		Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00		p 110	btc	3.18	1.36	1.93	16,985	2	3.24	2.28	288,745
"B"								0				0
"C"								0				0
"D"								0				0
	w/8.4#/§	g mud, 30min Sfc Csg Test	psig: 2,221				Totals:	16,985				288,74
		The cement	volume(s) are inten	ded to achieve a top of	9412	ft from su	rface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
C:	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
Size	volume	••••••										
7 7/8	0.1733	1091	1785	1313	36	10.50						0.91
	0.1733		1785	1313	36	10.50						0.91
7 7/8 Class 'C' tail cmt	0.1733		1785	1313	36	10.50 <u>Design I</u>	actors		<0	hoose Ca	sing>	0.91
7 7/8 lass 'C' tail cmt #N/A 0	0.1733			1313	36		F <u>actors</u> Burst	Length	<c B@s</c 	hoose Ca a-B	sing> a-C	
7 7/8 lass 'C' tail cmt #N/A 0	0.1733 t yld > 1.35	1091				Design I		Length 0			0	0.91
7 7/8 lass 'C' tail cmt #N/A 0 Segment	0.1733 t yld > 1.35	1091		Coupling		Design I		-			0	
7 7/8 Class 'C' tail cmt #N/A 0 Segment "A"	0.1733 t yld > 1.35 #/ft	1091	5 1/2	Coupling 0.00		Design I		0			0	Weigh 0
7 7/8 lass 'C' tail cmt #N/A 0 Segment "A"	0.1733 t yld > 1.35 #/ft	1091 Grade g mud, 30min Sfc Csg Test	5 1/2	Coupling 0.00		Design I	Burst Totals:	0 0			a-C	Weigh 0 0
7 7/8 lass 'C' tail cmt #N/A 0 Segment "A"	0.1733 t yld > 1.35 #/ft	1091 Grade g mud, 30min Sfc Csg Test	5 1/2	Coupling 0.00 0.00	#N/A	<u>Design I</u> Collapse	Burst Totals:	0 0 0			a-C	Weigh 0 0 0
7 7/8 lass 'C' tail cmt #N/A 0 Segment "A" "B"	0.1733 tyld > 1.35 #/ft w/8.4#/g	1091 Grade ; mud, 30min Sfc Csg Test Cmt vol ca	5 1/2	Coupling 0.00 0.00 this csg, TOC intended	#N/A #N/A	<u>Design I</u> Collapse ft from su	Burst Totals: rface or a	0 0 0 #N/A			a-C	Weigh 0 0 0 overlap.

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	439082
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

	Created By		Condition Date
F	matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	4/4/2025

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