

Well Name: TATER TOT 2-35 FED COM	Well Location: T24S / R29E / SEC 2 / SWSE /	County or Parish/State:
Well Number: 712H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM103604	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549049	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2765641

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 12/12/2023	Time Sundry Submitted: 02:27
Date proposed operation will begin: 12/12/2023	

Procedure Description: Engineer Review only - DRILLING CHANGE: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the drilling plan with casing changes and cement loss plan. Please see attachments.

NOI Attachments

Procedure Description

- Tater_Tot_2_35__Fed_Com_712H_slim_hole_rev1_20231213091513.pdf
- 9.625_40_J55__SeAH_20231212142706.pdf
- 5.50_20__VA_EP_P110_VAroughneck_6.051in_20231212142707.pdf
- CDS_FXL_7_625_29_7_BMP_P110HSCY_95_RBW_Sep20_2023_20231212142706.pdf
- 5.5_20_P110EC_SPRINT_SF__VST_20231212142705.pdf
- Tater_Tot_2_35__Fed_Com_712H_Directional_Plan_12_12_23_20231212105018.pdf

Well Name: TATER TOT 2-35 FED COM	Well Location: T24S / R29E / SEC 2 / SWSE /	County or Parish/State:
Well Number: 712H	Type of Well: OIL WELL	Allottee or Tribe Name:
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Conditions of Approval

Specialist Review

Tater_Tot_2_35_Fed_Com_712H_Sundry_ID_2765641_20231213122249.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: SHAYDA OMOUMI	Signed on: DEC 13, 2023 09:15 AM
Name: DEVON ENERGY PRODUCTION COMPANY LP	
Title: Regulatory Compliance Associate 3	
Street Address: 333 W SHERIDAN AVE	
City: OKLAHOMA CITY	State: OK
Phone: (405) 235-3611	
Email address: SHAYDA.OMOUMI@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: 5759885402	BLM POC Email Address: LVO@BLM.GOV
Disposition: Approved	Disposition Date: 12/13/2023
Signature: Long Vo	

Issued on: 08 Jul. 2020 by Wesley Ott

VAM® SPRINT-SF

Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift:	Connection
5 1/2 in.	20.00 lb/ft	0.361 in.	P110EC	4.653 in.	VAM® SPRINT-SF

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Cross Section Area	5.828	sqin.
Grade Type	High Yield	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

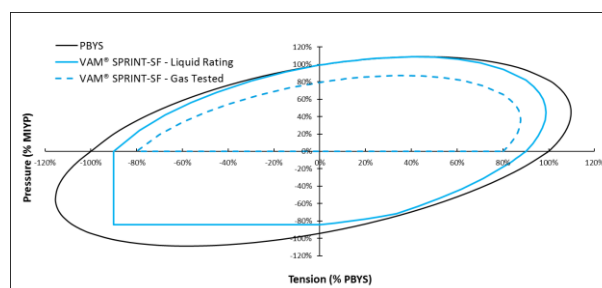
CONNECTION PROPERTIES		
Connection Type	Semi-Premium Integral Semi-Flush	
Connection OD (nom):	5.783	in.
Connection ID (nom):	4.717	in.
Make-Up Loss	5.965	in.
Critical Cross Section	5.244	sqin.
Tension Efficiency	90.0	% of pipe
Compression Efficiency	90.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	656	klb
Compression Resistance	656	klb
Internal Yield Pressure	14,360	psi
Collapse Resistance	12,080	psi
Max. Structural Bending	89	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft

TORQUE VALUES		
Min. Make-up torque	20,000	ft.lb
Opt. Make-up torque	22,500	ft.lb
Max. Make-up torque	25,000	ft.lb
Max. Torque with Sealability (MTS)	40,000	ft.lb

* 87.5% RBW

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



Do you need help on this product? - Remember no one knows VAM® like VAM®

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nigeria@vamfieldservice.com
angola@vamfieldservice.com

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

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



TECHNICAL DATA SHEET

Connection: **VAroughneck**Size: **5 1/2 in X 20.00 lb/ft**Drift: **standard**Bevel: **standard**Grade: **VA-EP-P110**Material:

	US Customary	Metric
Yield Strength Min.	125,000 psi	862 Mpa
Yield Strength Max.	140,000 psi	965 Mpa
Tensile Strength Min.	125,000 psi	862 Mpa

Pipe:

	US Customary	Metric		US Customary	Metric
Nominal OD:	5.500 in	139.70 mm	Wall Thickness:	0.361 in	9.17 mm
Nominal ID:	4.778 in	121.36 mm	Standard Drift:	4.653 in	118.19 mm
Nominal Weight:	20.00 lb/ft	30.07 kg/m	Pipe Body Yield Strength:	729 klb	3,243 kN
Pipe Cross Section:	5.828 in ²	3,759.99 mm ²			

Connection:

	US Customary	Metric	
OD:	6.051 in	153.70 mm	Threads per inch: 5 Threads
ID:	4.764 in	121.00 mm	
Length:	8.976 in	228.00 mm	

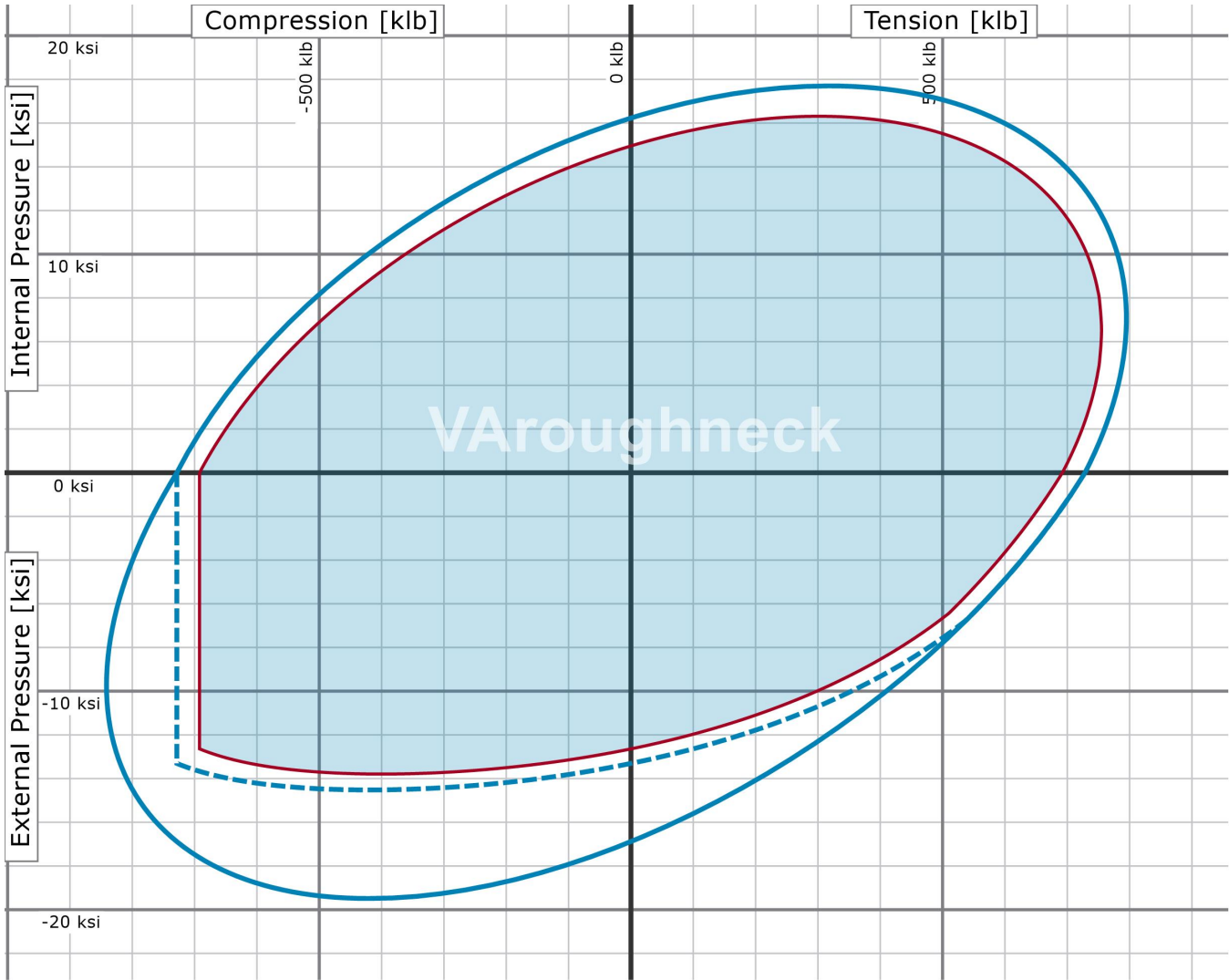
Connection Performance (Uniaxial Load):

	US Customary	Metric		US Customary	Metric
Joint Strength:	729 klb	3,243 kN	Tension Efficiency:	> 100.0 %	
Collapse Resistance:.	13,300 psi	91.70 Mpa	Displacement:	1.240 gal/ft	15.40 l/m
Internal Yield Pressure:	13,920 psi	96.00 Mpa	Production:	0.932 gal/ft	11.57 l/m
Load on Coupling Face:	411 klb	1,829 kN			

Field Make Up (Friction Factor = 1.0):

	US Customary	Metric		US Customary	Metric
Minimum Torque:	15,822 ft.lb	21,451 Nm	Make-Up Loss:	4.370 in	111.00 mm
Optimum Torque:	17,580 ft.lb	23,835 Nm	Yield Torque:	22,000 ft.lb	29,800 Nm
Maximum Torque:	19,338 ft.lb	26,218 Nm			
Min. Torque on Shoulder:	%				

LOAD ENVELOPE



Recommended Field of Application

- Pipe Body Envelope
- - - Pipe Body Collapse

Efficiency (% Pipe Body)
under Uniaxial Loads

Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	97.0 %
External Pressure:	100.0 %

Sealability Rating (% Efficiency)
under Combined Loads

Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	100.0 %
External Pressure:	100.0 %

Test Conditions

Test Medium:	Fluid
Von Mises Envelope:	95.0 %
Bending:	20.00 °/100ft

The graph is calculated under consideration of the requirements of EN ISO 13679 and API 5C3. The combined loads are calculated without the consideration of wall thickness tolerances and differ from the values in the data sheet, which are calculated with tolerances determined by API. Any printout is NOT SUBJECT TO REGULAR REVISION. The generated performance envelope shall solely be used as a tool to facilitate the comparison of performance properties under combined loads, of different grades, sizes and connections of voestalpine Tubulars products. Field-specific safety/design factors as well as other loads are not considered. Thus the results shall by no means be used to replace the own string design engineering or to justify any warranty/guaranty cases.



9.625" 40# .395" J-55

Dimensions (Nominal)

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.

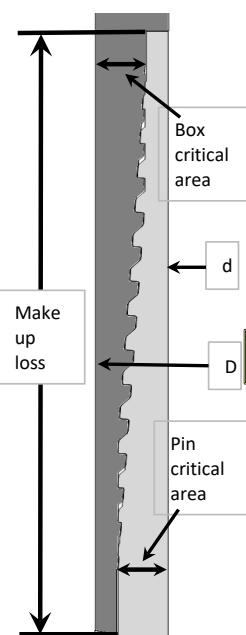
Performance Properties

Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
BTC	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.
BTC	714	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.

Metal One Corp. Metal One	MO-FXL *1 Pipe Body: BMP P110HSCY MinYS125ksi Min95%WT Connection Data Sheet	CDS# Date	MO-FXL 7-5/8 29.7 P110HSCY MinYS125ksi Min95%WT 20-Sep-23
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MO-FXL



Geometry	Imperial		S.I.	
Pipe Body				
Grade *	P110HSCY		P110HSCY	
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	8.541	in ²	5,510	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. *1	1,068	klps	4,749	kN
M.I.Y.P. *1	11,680	psi	80.55	MPa
Collapse Strength *1	7,200	psi	49.66	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 P110HSCY: MinYS125ksi, Min95%WT, Collapse Strength 7,200psi Performance Data Sheet: 7.625" 29.7lb/ft P110HSCY Rev3, dated 9/19/2023				
Performance Properties for Connection				
Tensile Yield load	747 klps (70% of S.M.Y.S.)			
Min. Compression Yield	747 klps (70% of S.M.Y.S.)			
Internal Pressure	9,340 psi (80% of M.I.Y.P.)			
External Pressure	100% of Collapse Strength			
Max. DLS (deg. /100ft)	30			

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				

Legal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/ images/top/WebsiteTerms_Active_2033287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

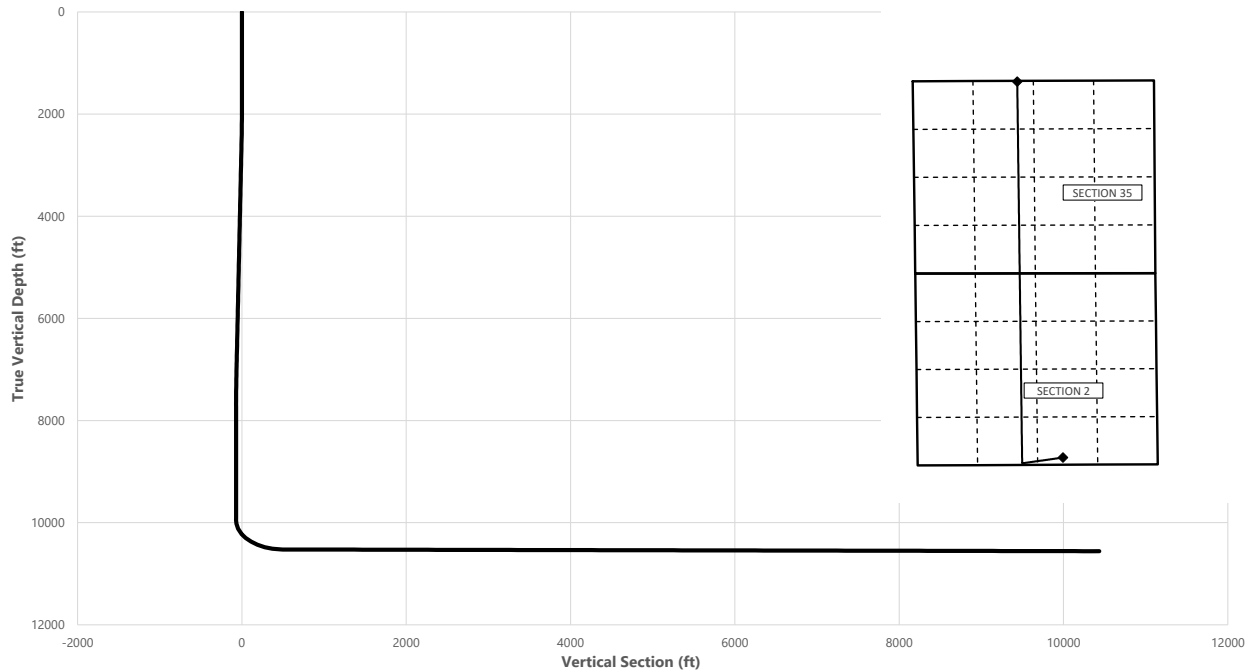
Tater Tot 2-35 Fed Com 712H



Well: Tater Tot 2-35 Fed Com 712H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	260.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	260.00	2497.47	-7.56	-42.86	-3.38	2.00	Hold Tangent
7260.33	10.00	260.00	7185.48	-151.10	-856.93	-67.59	0.00	Drop to Vertical
7760.33	0.00	260.00	7682.94	-158.66	-899.79	-70.97	2.00	Hold Vertical
10029.43	0.00	359.41	9952.05	-158.66	-899.79	-70.97	0.00	KOP
10927.54	89.81	359.41	10525.00	412.38	-905.67	497.96	10.00	Landing Point
20902.34	89.81	359.41	10558.00	10386.59	-1008.38	10435.42	0.00	BHL

**Key Depths**

	MD (ft)	TVD (ft)
Rustler	260.00	260.00
Salt	570.00	570.00
Base of Salt	3005.21	2995.00
Delaware	3211.34	3198.00
Cherry Canyon	4101.87	4075.00
Brushy Canyon	5714.37	5663.00
1st Bone Spring Lime	6961.31	6891.00
Bone Spring 1st	8021.39	7944.00
Bone Spring 2nd	8749.39	8672.00
3rd Bone Spring Lime	9148.39	9071.00
Bone Spring 3rd	9946.39	9869.00
Wolfcamp / Point of Penetration	10303.75	10216.00
exit	20822.34	10557.75

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.2399	-103.9535	200' FSL, 2095' FEL of Sec 2 in T23S, R29E
10029.43	9952.05	32.2395	-103.9564	45' FSL, 2310' FWL of Sec 2 in T24S, R29E
10303.75	10216.00	32.2397	-103.9563	100' FSL, 2310' FWL of Sec 2 in T24S, R29E
20822.34	10557.75	32.2683	-103.9565	100' FNL, 2310' FWL of Sec 35 in T23S, R29E
20902.34	10558.00	32.2684	-103.9566	20' FNL, 2310' FWL of Sec 35 in T23S, R29E

MD	Y	X
KOP	10029.43	451087
		657905

Tater Tot 2-35 Fed Com 712H



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Wellbore: Permit Plan

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Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	260.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	260.00	200.00	0.00	0.00	0.00	0.00	
260.00	0.00	260.00	260.00	0.00	0.00	0.00	0.00	Rustler
300.00	0.00	260.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	260.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	260.00	500.00	0.00	0.00	0.00	0.00	
570.00	0.00	260.00	570.00	0.00	0.00	0.00	0.00	Salt
600.00	0.00	260.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	260.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	260.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	260.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	260.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	260.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	260.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	260.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	260.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	260.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	260.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	260.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	260.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	260.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	260.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	260.00	2099.98	-0.30	-1.72	-0.14	2.00	
2200.00	4.00	260.00	2199.84	-1.21	-6.87	-0.54	2.00	
2300.00	6.00	260.00	2299.45	-2.73	-15.46	-1.22	2.00	
2400.00	8.00	260.00	2398.70	-4.84	-27.46	-2.17	2.00	
2500.00	10.00	260.00	2497.47	-7.56	-42.86	-3.38	2.00	Hold Tangent
2600.00	10.00	260.00	2595.95	-10.57	-59.96	-4.73	0.00	
2700.00	10.00	260.00	2694.43	-13.59	-77.06	-6.08	0.00	
2800.00	10.00	260.00	2792.91	-16.60	-94.16	-7.43	0.00	
2900.00	10.00	260.00	2891.39	-19.62	-111.27	-8.78	0.00	
3000.00	10.00	260.00	2989.87	-22.63	-128.37	-10.12	0.00	
3005.21	10.00	260.00	2995.00	-22.79	-129.26	-10.19	0.00	Base of Salt
3100.00	10.00	260.00	3088.35	-25.65	-145.47	-11.47	0.00	
3200.00	10.00	260.00	3186.83	-28.67	-162.57	-12.82	0.00	
3211.34	10.00	260.00	3198.00	-29.01	-164.51	-12.98	0.00	Delaware
3300.00	10.00	260.00	3285.31	-31.68	-179.67	-14.17	0.00	
3400.00	10.00	260.00	3383.79	-34.70	-196.77	-15.52	0.00	
3500.00	10.00	260.00	3482.27	-37.71	-213.87	-16.87	0.00	
3600.00	10.00	260.00	3580.75	-40.73	-230.97	-18.22	0.00	
3700.00	10.00	260.00	3679.23	-43.74	-248.07	-19.57	0.00	
3800.00	10.00	260.00	3777.72	-46.76	-265.17	-20.92	0.00	
3900.00	10.00	260.00	3876.20	-49.77	-282.28	-22.26	0.00	
4000.00	10.00	260.00	3974.68	-52.79	-299.38	-23.61	0.00	
4100.00	10.00	260.00	4073.16	-55.80	-316.48	-24.96	0.00	
4101.87	10.00	260.00	4075.00	-55.86	-316.80	-24.99	0.00	Cherry Canyon
4200.00	10.00	260.00	4171.64	-58.82	-333.58	-26.31	0.00	
4300.00	10.00	260.00	4270.12	-61.84	-350.68	-27.66	0.00	
4400.00	10.00	260.00	4368.60	-64.85	-367.78	-29.01	0.00	
4500.00	10.00	260.00	4467.08	-67.87	-384.88	-30.36	0.00	
4600.00	10.00	260.00	4565.56	-70.88	-401.98	-31.71	0.00	
4700.00	10.00	260.00	4664.04	-73.90	-419.08	-33.05	0.00	
4800.00	10.00	260.00	4762.52	-76.91	-436.18	-34.40	0.00	
4900.00	10.00	260.00	4861.00	-79.93	-453.28	-35.75	0.00	
5000.00	10.00	260.00	4959.48	-82.94	-470.39	-37.10	0.00	
5100.00	10.00	260.00	5057.97	-85.96	-487.49	-38.45	0.00	
5200.00	10.00	260.00	5156.45	-88.97	-504.59	-39.80	0.00	
5300.00	10.00	260.00	5254.93	-91.99	-521.69	-41.15	0.00	
5400.00	10.00	260.00	5353.41	-95.01	-538.79	-42.50	0.00	
5500.00	10.00	260.00	5451.89	-98.02	-555.89	-43.85	0.00	
5600.00	10.00	260.00	5550.37	-101.04	-572.99	-45.19	0.00	
5700.00	10.00	260.00	5648.85	-104.05	-590.09	-46.54	0.00	
5714.37	10.00	260.00	5663.00	-104.48	-592.55	-46.74	0.00	Brushy Canyon
5800.00	10.00	260.00	5747.33	-107.07	-607.19	-47.89	0.00	
5900.00	10.00	260.00	5845.81	-110.08	-624.29	-49.24	0.00	
6000.00	10.00	260.00	5944.29	-113.10	-641.40	-50.59	0.00	
6100.00	10.00	260.00	6042.77	-116.11	-658.50	-51.94	0.00	
6200.00	10.00	260.00	6141.25	-119.13	-675.60	-53.29	0.00	
6300.00	10.00	260.00	6239.73	-122.14	-692.70	-54.64	0.00	

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Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	10.00	260.00	6338.22	-125.16	-709.80	-55.98	0.00	
6500.00	10.00	260.00	6436.70	-128.17	-726.90	-57.33	0.00	
6600.00	10.00	260.00	6535.18	-131.19	-744.00	-58.68	0.00	
6700.00	10.00	260.00	6633.66	-134.21	-761.10	-60.03	0.00	
6800.00	10.00	260.00	6732.14	-137.22	-778.20	-61.38	0.00	
6900.00	10.00	260.00	6830.62	-140.24	-795.30	-62.73	0.00	
6961.31	10.00	260.00	6891.00	-142.09	-805.79	-63.56	0.00	1st Bone Spring Lime
7000.00	10.00	260.00	6929.10	-143.25	-812.41	-64.08	0.00	
7100.00	10.00	260.00	7027.58	-146.27	-829.51	-65.43	0.00	
7200.00	10.00	260.00	7126.06	-149.28	-846.61	-66.78	0.00	
7260.33	10.00	260.00	7185.48	-151.10	-856.93	-67.59	0.00	Drop to Vertical
7300.00	9.21	260.00	7224.59	-152.25	-863.44	-68.10	2.00	
7400.00	7.21	260.00	7323.56	-154.73	-877.50	-69.21	2.00	
7500.00	5.21	260.00	7422.97	-156.60	-888.15	-70.05	2.00	
7600.00	3.21	260.00	7522.69	-157.88	-895.37	-70.62	2.00	
7700.00	1.21	260.00	7622.62	-158.55	-899.16	-70.92	2.00	
7760.33	0.00	260.00	7682.94	-158.66	-899.79	-70.97	2.00	Hold Vertical
7800.00	0.00	359.41	7722.61	-158.66	-899.79	-70.97	0.00	
7900.00	0.00	359.41	7822.61	-158.66	-899.79	-70.97	0.00	
8000.00	0.00	359.41	7922.61	-158.66	-899.79	-70.97	0.00	
8021.39	0.00	359.41	7944.00	-158.66	-899.79	-70.97	0.00	Bone Spring 1st
8100.00	0.00	359.41	8022.61	-158.66	-899.79	-70.97	0.00	
8200.00	0.00	359.41	8122.61	-158.66	-899.79	-70.97	0.00	
8300.00	0.00	359.41	8222.61	-158.66	-899.79	-70.97	0.00	
8400.00	0.00	359.41	8322.61	-158.66	-899.79	-70.97	0.00	
8500.00	0.00	359.41	8422.61	-158.66	-899.79	-70.97	0.00	
8600.00	0.00	359.41	8522.61	-158.66	-899.79	-70.97	0.00	
8700.00	0.00	359.41	8622.61	-158.66	-899.79	-70.97	0.00	
8749.39	0.00	359.41	8672.00	-158.66	-899.79	-70.97	0.00	Bone Spring 2nd
8800.00	0.00	359.41	8722.61	-158.66	-899.79	-70.97	0.00	
8900.00	0.00	359.41	8822.61	-158.66	-899.79	-70.97	0.00	
9000.00	0.00	359.41	8922.61	-158.66	-899.79	-70.97	0.00	
9100.00	0.00	359.41	9022.61	-158.66	-899.79	-70.97	0.00	
9148.39	0.00	359.41	9071.00	-158.66	-899.79	-70.97	0.00	3rd Bone Spring Lime
9200.00	0.00	359.41	9122.61	-158.66	-899.79	-70.97	0.00	
9300.00	0.00	359.41	9222.61	-158.66	-899.79	-70.97	0.00	
9400.00	0.00	359.41	9322.61	-158.66	-899.79	-70.97	0.00	
9500.00	0.00	359.41	9422.61	-158.66	-899.79	-70.97	0.00	
9600.00	0.00	359.41	9522.61	-158.66	-899.79	-70.97	0.00	
9700.00	0.00	359.41	9622.61	-158.66	-899.79	-70.97	0.00	
9800.00	0.00	359.41	9722.61	-158.66	-899.79	-70.97	0.00	
9900.00	0.00	359.41	9822.61	-158.66	-899.79	-70.97	0.00	
9946.39	0.00	359.41	9869.00	-158.66	-899.79	-70.97	0.00	Bone Spring 3rd
10000.00	0.00	359.41	9922.61	-158.66	-899.79	-70.97	0.00	
10029.43	0.00	359.41	9952.05	-158.66	-899.79	-70.97	0.00	KOP
10100.00	7.06	359.41	10022.43	-154.32	-899.83	-66.64	10.00	
10200.00	17.06	359.41	10120.10	-133.46	-900.05	-45.86	10.00	
10300.00	27.06	359.41	10212.67	-95.95	-900.43	-8.50	10.00	
10303.75	27.43	359.41	10216.00	-94.24	-900.45	-6.78	10.00	Wolfcamp / Point of Penetration
10400.00	37.06	359.41	10297.31	-42.95	-900.98	44.32	10.00	
10500.00	47.06	359.41	10371.47	23.95	-901.67	110.97	10.00	
10600.00	57.06	359.41	10432.88	102.71	-902.48	189.43	10.00	
10700.00	67.06	359.41	10479.68	190.93	-903.39	277.33	10.00	
10800.00	77.06	359.41	10510.45	285.94	-904.37	371.99	10.00	
10900.00	87.06	359.41	10524.25	384.85	-905.39	470.54	10.00	
10927.54	89.81	359.41	10525.00	412.38	-905.67	497.96	10.00	Landing Point
11000.00	89.81	359.41	10525.24	484.83	-906.41	570.15	0.00	
11100.00	89.81	359.41	10525.57	584.83	-907.44	669.78	0.00	
11200.00	89.81	359.41	10525.90	684.82	-908.47	769.40	0.00	
11300.00	89.81	359.41	10526.23	784.81	-909.50	869.03	0.00	
11400.00	89.81	359.41	10526.56	884.81	-910.54	968.65	0.00	
11500.00	89.81	359.41	10526.89	984.80	-911.57	1068.28	0.00	
11600.00	89.81	359.41	10527.23	1084.80	-912.60	1167.91	0.00	
11700.00	89.81	359.41	10527.56	1184.79	-913.63	1267.53	0.00	
11800.00	89.81	359.41	10527.89	1284.79	-914.66	1367.16	0.00	
11900.00	89.81	359.41	10528.22	1384.78	-915.69	1466.78	0.00	
12000.00	89.81	359.41	10528.55	1484.77	-916.72	1566.41	0.00	
12100.00	89.81	359.41	10528.88	1584.77	-917.75	1666.03	0.00	
12200.00	89.81	359.41	10529.21	1684.76	-918.78	1765.66	0.00	
12300.00	89.81	359.41	10529.54	1784.76	-919.81	1865.29	0.00	

Tater Tot 2-35 Fed Com 712H



Well: Tater Tot 2-35 Fed Com 712H

County: Eddy

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12400.00	89.81	359.41	10529.87	1884.75	-920.84	1964.91	0.00	
12500.00	89.81	359.41	10530.20	1984.74	-921.87	2064.54	0.00	
12600.00	89.81	359.41	10530.54	2084.74	-922.90	2164.16	0.00	
12700.00	89.81	359.41	10530.87	2184.73	-923.93	2263.79	0.00	
12800.00	89.81	359.41	10531.20	2284.73	-924.96	2363.42	0.00	
12900.00	89.81	359.41	10531.53	2384.72	-925.99	2463.04	0.00	
13000.00	89.81	359.41	10531.86	2484.72	-927.02	2562.67	0.00	
13100.00	89.81	359.41	10532.19	2584.71	-928.05	2662.29	0.00	
13200.00	89.81	359.41	10532.52	2684.70	-929.08	2761.92	0.00	
13300.00	89.81	359.41	10532.85	2784.70	-930.11	2861.54	0.00	
13400.00	89.81	359.41	10533.18	2884.69	-931.14	2961.17	0.00	
13500.00	89.81	359.41	10533.51	2984.69	-932.17	3060.80	0.00	
13600.00	89.81	359.41	10533.84	3084.68	-933.20	3160.42	0.00	
13700.00	89.81	359.41	10534.18	3184.67	-934.23	3260.05	0.00	
13800.00	89.81	359.41	10534.51	3284.67	-935.26	3359.67	0.00	
13900.00	89.81	359.41	10534.84	3384.66	-936.29	3459.30	0.00	
14000.00	89.81	359.41	10535.17	3484.66	-937.32	3558.92	0.00	
14100.00	89.81	359.41	10535.50	3584.65	-938.35	3658.55	0.00	
14200.00	89.81	359.41	10535.83	3684.64	-939.38	3758.18	0.00	
14300.00	89.81	359.41	10536.16	3784.64	-940.41	3857.80	0.00	
14400.00	89.81	359.41	10536.49	3884.63	-941.44	3957.43	0.00	
14500.00	89.81	359.41	10536.82	3984.63	-942.47	4057.05	0.00	
14600.00	89.81	359.41	10537.15	4084.62	-943.50	4156.68	0.00	
14700.00	89.81	359.41	10537.49	4184.62	-944.53	4256.30	0.00	
14800.00	89.81	359.41	10537.82	4284.61	-945.56	4355.93	0.00	
14900.00	89.81	359.41	10538.15	4384.60	-946.59	4455.56	0.00	
15000.00	89.81	359.41	10538.48	4484.60	-947.62	4555.18	0.00	
15100.00	89.81	359.41	10538.81	4584.59	-948.65	4654.81	0.00	
15200.00	89.81	359.41	10539.14	4684.59	-949.68	4754.43	0.00	
15300.00	89.81	359.41	10539.47	4784.58	-950.71	4854.06	0.00	
15400.00	89.81	359.41	10539.80	4884.57	-951.75	4953.68	0.00	
15500.00	89.81	359.41	10540.13	4984.57	-952.78	5053.31	0.00	
15600.00	89.81	359.41	10540.46	5084.56	-953.81	5152.94	0.00	
15700.00	89.81	359.41	10540.80	5184.56	-954.84	5252.56	0.00	
15800.00	89.81	359.41	10541.13	5284.55	-955.87	5352.19	0.00	
15900.00	89.81	359.41	10541.46	5384.55	-956.90	5451.81	0.00	
16000.00	89.81	359.41	10541.79	5484.54	-957.93	5551.44	0.00	
16100.00	89.81	359.41	10542.12	5584.53	-958.96	5651.06	0.00	
16200.00	89.81	359.41	10542.45	5684.53	-959.99	5750.69	0.00	
16300.00	89.81	359.41	10542.78	5784.52	-961.02	5850.32	0.00	
16400.00	89.81	359.41	10543.11	5884.52	-962.05	5949.94	0.00	
16500.00	89.81	359.41	10543.44	5984.51	-963.08	6049.57	0.00	
16600.00	89.81	359.41	10543.77	6084.50	-964.11	6149.19	0.00	
16700.00	89.81	359.41	10544.10	6184.50	-965.14	6248.82	0.00	
16800.00	89.81	359.41	10544.44	6284.49	-966.17	6348.45	0.00	
16900.00	89.81	359.41	10544.77	6384.49	-967.20	6448.07	0.00	
17000.00	89.81	359.41	10545.10	6484.48	-968.23	6547.70	0.00	
17100.00	89.81	359.41	10545.43	6584.48	-969.26	6647.32	0.00	
17200.00	89.81	359.41	10545.76	6684.47	-970.29	6746.95	0.00	
17300.00	89.81	359.41	10546.09	6784.46	-971.32	6846.57	0.00	
17400.00	89.81	359.41	10546.42	6884.46	-972.35	6946.20	0.00	
17500.00	89.81	359.41	10546.75	6984.45	-973.38	7045.83	0.00	
17600.00	89.81	359.41	10547.08	7084.45	-974.41	7145.45	0.00	
17700.00	89.81	359.41	10547.41	7184.44	-975.44	7245.08	0.00	
17800.00	89.81	359.41	10547.75	7284.43	-976.47	7344.70	0.00	
17900.00	89.81	359.41	10548.08	7384.43	-977.50	7444.33	0.00	
18000.00	89.81	359.41	10548.41	7484.42	-978.53	7543.95	0.00	
18100.00	89.81	359.41	10548.74	7584.42	-979.56	7643.58	0.00	
18200.00	89.81	359.41	10549.07	7684.41	-980.59	7743.21	0.00	
18300.00	89.81	359.41	10549.40	7784.40	-981.62	7842.83	0.00	
18400.00	89.81	359.41	10549.73	7884.40	-982.65	7942.46	0.00	
18500.00	89.81	359.41	10550.06	7984.39	-983.68	8042.08	0.00	
18600.00	89.81	359.41	10550.39	8084.39	-984.71	8141.71	0.00	
18700.00	89.81	359.41	10550.72	8184.38	-985.74	8241.33	0.00	
18800.00	89.81	359.41	10551.06	8284.38	-986.77	8340.96	0.00	
18900.00	89.81	359.41	10551.39	8384.37	-987.80	8440.59	0.00	
19000.00	89.81	359.41	10551.72	8484.36	-988.83	8540.21	0.00	
19100.00	89.81	359.41	10552.05	8584.36	-989.86	8639.84	0.00	
19200.00	89.81	359.41	10552.38	8684.35	-990.89	8739.46	0.00	
19300.00	89.81	359.41	10552.71	8784.35	-991.92	8839.09	0.00	

Tater Tot 2-35 Fed Com 712H

**Well:** Tater Tot 2-35 Fed Com 712H**County:** Eddy**Wellbore:** Permit Plan**Design:** Permit Plan #1**Geodetic System:** US State Plane 1983**Datum:** North American Datum 1927**Ellipsoid:** Clarke 1866**Zone:** 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19400.00	89.81	359.41	10553.04	8884.34	-992.96	8938.71	0.00	
19500.00	89.81	359.41	10553.37	8984.33	-993.99	9038.34	0.00	
19600.00	89.81	359.41	10553.70	9084.33	-995.02	9137.97	0.00	
19700.00	89.81	359.41	10554.03	9184.32	-996.05	9237.59	0.00	
19800.00	89.81	359.41	10554.36	9284.32	-997.08	9337.22	0.00	
19900.00	89.81	359.41	10554.70	9384.31	-998.11	9436.84	0.00	
20000.00	89.81	359.41	10555.03	9484.31	-999.14	9536.47	0.00	
20100.00	89.81	359.41	10555.36	9584.30	-1000.17	9636.09	0.00	
20200.00	89.81	359.41	10555.69	9684.29	-1001.20	9735.72	0.00	
20300.00	89.81	359.41	10556.02	9784.29	-1002.23	9835.35	0.00	
20400.00	89.81	359.41	10556.35	9884.28	-1003.26	9934.97	0.00	
20500.00	89.81	359.41	10556.68	9984.28	-1004.29	10034.60	0.00	
20600.00	89.81	359.41	10557.01	10084.27	-1005.32	10134.22	0.00	
20700.00	89.81	359.41	10557.34	10184.26	-1006.35	10233.85	0.00	
20800.00	89.81	359.41	10557.67	10284.26	-1007.38	10333.48	0.00	
20822.34	89.81	359.41	10557.75	10306.59	-1007.61	10355.73	0.00	exit
20900.00	89.81	359.41	10558.01	10384.25	-1008.41	10433.10	0.00	
20902.34	89.81	359.41	10558.00	10386.59	-1008.38	10435.42	0.00	BHL

Tater Tot 2-35 Fed Com 712H

1. Geologic Formations

TVD of target	10558	Pilot hole depth	N/A
MD at TD:	20902	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	260		
Salt	570		
Base of Salt	2995		
Delaware	3198		
Cherry Canyon	4075		
Brushy Canyon	5663		
1st Bone Spring Lime	6891		
Bone Spring 1st	7944		
Bone Spring 2nd	8672		
3rd Bone Spring Lime	9071		
Bone Spring 3rd	9869		
Wolfcamp	10216		

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

Tater Tot 2-35 Fed Com 712H

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)
13 1/2	9 5/8	40	J-55	BTC	0	340	0	340
8 3/4	7 5/8	29.7	P-110HSCY	MOFXL	0	9979	0	9979
6 3/4	5 1/2	20	P-110EC	Sprint FJ & Varn	0	20902	0	10558

• 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 -

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

3. Cementing Program (Primary 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	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	192	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	321	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	394	5714	13.2	1.44	Tail: Class H / C + additives
Production	62	8029	9	3.27	Lead: Class H / C + additives
	694	10029	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

Tater Tot 2-35 Fed Com 712H

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						

Tater Tot 2-35 Fed Com 712H

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	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
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

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

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5765
Abnormal temperature	No

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S plan attached.

Tater Tot 2-35 Fed Com 712H

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. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

Well Name: TATER TOT 2-35 FED COM	Well Location: T24S / R29E / SEC 2 / SWSE /	County or Parish/State:
Well Number: 712H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM103604	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549049	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2765641

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/12/2023

Time Sundry Submitted: 02:27

Date proposed operation will begin: 12/12/2023

Procedure Description: Engineer Review only - DRILLING CHANGE: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the drilling plan with casing changes and cement loss plan. Please see attachments.

NOI Attachments

Procedure Description

Tater_Tot_2_35__Fed_Com_712H_slim_hole_rev1_20231213091513.pdf

9.625_40_J55__SeAH_20231212142706.pdf

5.50_20__VA_EP_P110_VAroughneck_6.051in_20231212142707.pdf

CDS_FXL_7_625_29_7_BMP_P110HSCY_95_RBW_Sep20_2023_20231212142706.pdf

5.5_20_P110EC_SPRINT_SF__VST_20231212142705.pdf

Tater_Tot_2_35__Fed_Com_712H_Directional_Plan_12_12_23_20231212105018.pdf

Well Name: T24S / R29E / SEC 2 / SWSE / COM	Well Location: T24S / R29E / SEC 2 / SWSE /	County or Parish/State:
Well Number: 712H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM103604	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001549049	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

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: SHAYDA OMOUMI

Signed on: DEC 13, 2023 09:15 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Associate 3

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (405) 235-3611

Email address: SHAYDA.OMOUMI@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LEASE NO.:	NMNM103604
LOCATION:	Section 2, T.24 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Tater Tot 2-35 Fed Com 712H
SURFACE HOLE FOOTAGE:	200'/S & 2095'/E
BOTTOM HOLE FOOTAGE:	20'/N & 2310'/E
ATS/API ID:	3001549049
APD ID:	10400073920
Sundry ID:	2765641

COA

H2S	No		
Potash	Secretary		
Cave/Karst Potential	Medium		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl		
Other	<input type="checkbox"/> 4 String	Capitan Reef None	<input type="checkbox"/> WIPP
Other	Pilot Hole None	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **285 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **13 1/2** inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** 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 5663'** (**394 sxs Class H/C+ additives**).

b. Second stage:

- Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **(Squeeze 321 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 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

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

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

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

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

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

- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7-5/8** inch intermediate casing shoe shall be **5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **9-5/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance (Approved)

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

Casing Clearance:

Operator casing variance is approved for the utilization of 5-1/2 inch Sprint Flush Joint **from** base of curve and a minimum of 500 feet or the minimum tie-back back requirement above whichever is greater into the previous casing shoe. **All** other 5-1/2 inch casing will run Varn.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are less than 0.5 micron before cementing.

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

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR**

part 3170 Subpart 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 12/13/2023

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	NMNM103604
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. TATER TOT 2-35 FED COM/712H
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		9. API Well No. 3001549049
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY,	3b. Phone No. (include area code) (405) 235-3611	10. Field and Pool or Exploratory Area PIERCE CROSSING/WOLFCAMP
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 2/T24S/R29E/NMP		11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Engineer Review only - DRILLING CHANGE: Devon Energy Production Co., L.P. (Devon)
respectfully requests to change the drilling plan with casing changes and cement loss plan. Please see attachments.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) SHAYDA OMOUMI / Ph: (405) 235-3611	Title Regulatory Compliance Associate 3
Signature (Electronic Submission)	Date 12/13/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 200 FSL / 2095 FEL / TWSP: 24S / RANGE: 29E / SECTION: 2 / LAT: 32.2399804 / LONG: -103.9533032 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1650 FEL / TWSP: 24S / RANGE: 29E / SECTION: 2 / LAT: 32.239709 / LONG: -103.9519587 (TVD: 10216 feet, MD: 10257 feet)

BHL: NENW / 20 FNL / 2310 FWL / TWSP: 23S / RANGE: 29E / SECTION: 35 / LAT: 32.2611736 / LONG: -103.9520898 (TVD: 10558 feet, MD: 18168 feet)

CONFIDENTIAL

Tater Tot 2-35 Fed Com 712H

1. Geologic Formations

TVD of target	10558	Pilot hole depth	N/A
MD at TD:	20902	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	260		
Salt	570		
Base of Salt	2995		
Delaware	3198		
Cherry Canyon	4075		
Brushy Canyon	5663		
1st Bone Spring Lime	6891		
Bone Spring 1st	7944		
Bone Spring 2nd	8672		
3rd Bone Spring Lime	9071		
Bone Spring 3rd	9869		
Wolfcamp	10216		

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

Tater Tot 2-35 Fed Com 712H

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)
13 1/2	9 5/8	40	J-55	BTC	0	340	0	340
8 3/4	7 5/8	29.7	P-110HSCY	MOFXL	0	9979	0	9979
6 3/4	5 1/2	20	P-110EC	Sprint FJ & Varn	0	20902	0	10558

• 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 -

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

3. Cementing Program (Primary 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	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	192	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	321	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
	394	5714	13.2	1.44	Tail: Class H / C + additives
Production	62	8029	9	3.27	Lead: Class H / C + additives
	694	10029	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

Tater Tot 2-35 Fed Com 712H

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					

Tater Tot 2-35 Fed Com 712H

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	10-10.5

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

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

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

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

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	5765
Abnormal temperature	No

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

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S plan attached.

Tater Tot 2-35 Fed Com 712H

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. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe



9.625" 40# .395" J-55

Dimensions (Nominal)

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.

Performance Properties

Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
BTC	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.
BTC	714	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.

TECHNICAL DATA SHEET

Connection: **V**Aroughneck
Size: 5 1/2 in X 20.00 lb/ft
Drift: standard
Bevel: standard

Grade: VA-EP-P110

Material:		US Customary		Metric	
Yield Strength Min.	Yield Strength Max.	Tensile Strength Min.	125,000 psi	862 Mpa	
			140,000 psi	965 Mpa	
			125,000 psi	862 Mpa	

Pipe:

US Customary		Metric		US Customary		Metric	
Nominal OD:		139.70 mm		Wall Thickness:		0.361 in	
Nominal ID:		121.36 mm		Standard Drift:		4.653 in	
Nominal Weight:		30.07 kg/m		Pipe Body Yield Strength:		729 klb	
Pipe Cross Section:		3,759.99 mm²				3,243 kN	

Connection:

US Customary		Metric		US Customary		Metric	
OD:		153.70 mm		Threads per inch:		5 Threads	
ID:		121.00 mm					
Length:		228.00 mm					

Connection Performance (Uniaxial Load):

US Customary		Metric		US Customary		Metric	
Joint Strength:		3,243 kN		Tension Efficiency:		> 100.0 %	
Collapse Resistance:		91.70 Mpa		Displacement:		1.240 gal/ft	
Internal Yield Pressure:		96.00 Mpa		Production:		0.932 gal/ft	
Load on Coupling Face:		1,829 kN				15.40 l/m	
						11.57 l/m	

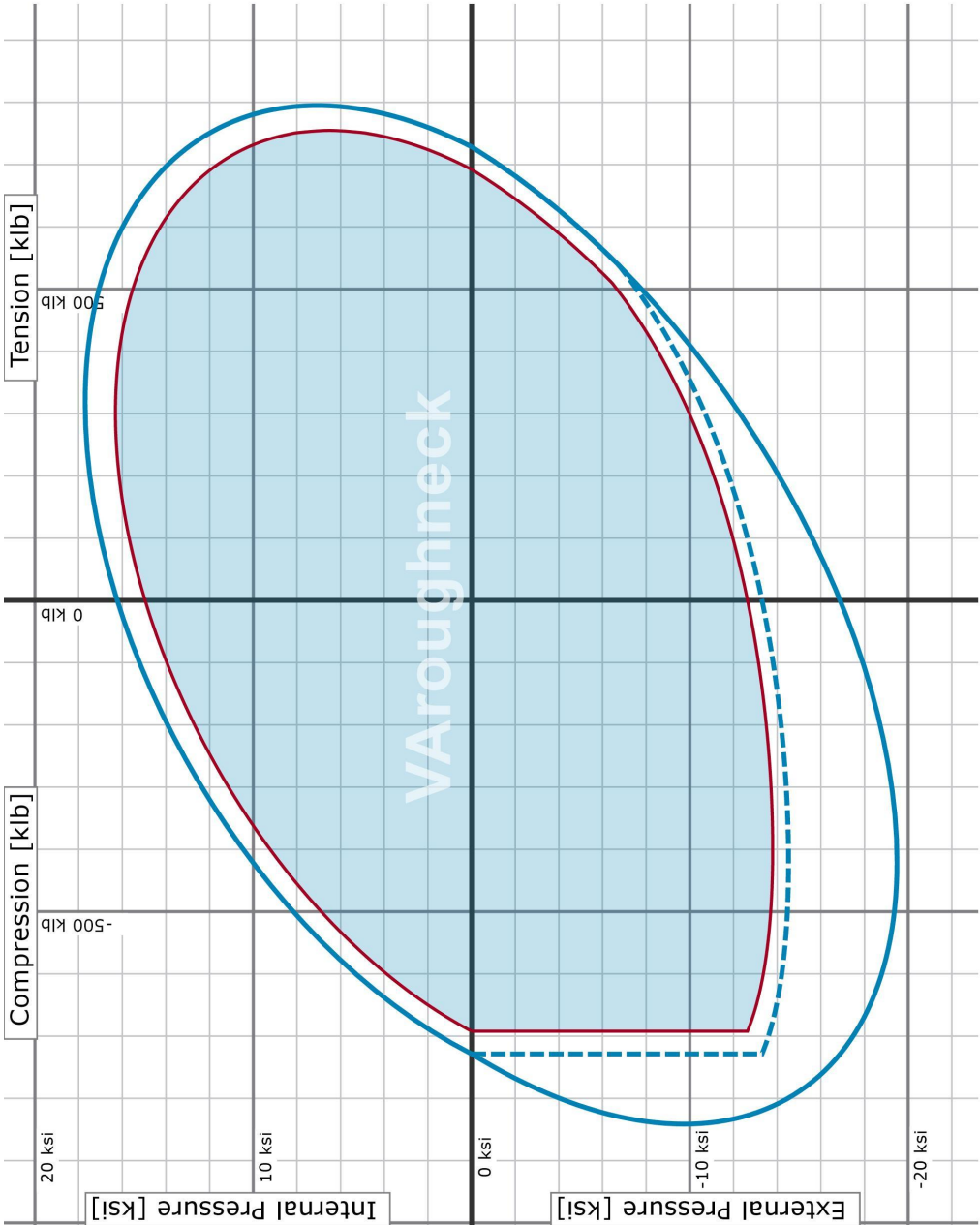
Field Make Up (Friction Factor = 1.0):

US Customary		Metric		US Customary		Metric	
Minimum Torque:	15,822 ft.lb		21,451 Nm	Make-Up Loss:	4.370 in		111.00 mm
Optimum Torque:	17,580 ft.lb		23,835 Nm	Yield Torque:	22,000 ft.lb		29,800 Nm
Maximum Torque:	19,338 ft.lb		26,218 Nm				
Min. Torque on Shoulder:	%						

Created on 01.12.2021

voestalpine Tubulars GmbH & Co KG

LOAD ENVELOPE



Recommended Field of Application


- Pipe Body Envelope
- - - Pipe Body Collapse

Efficiency (% Pipe Body) under Uniaxial Loads	
Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	97.0 %
External Pressure:	100.0 %

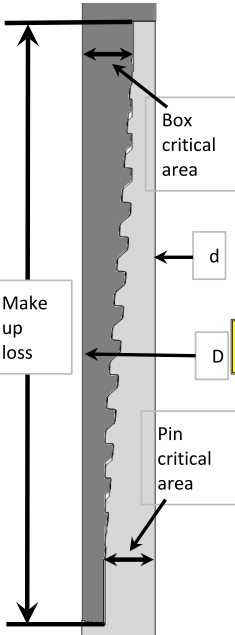
Sealability Rating (% Efficiency) under Combined Loads	
Tension:	100.0 %
Compression:	100.0 %
Internal Pressure:	100.0 %
External Pressure:	100.0 %

Test Conditions	
Test Medium:	Fluid
Von Mises Envelope:	95.0 %
Bending:	20.00 °/100ft

The graph is calculated under consideration of the requirements of EN ISO 13679 and API 5C3. The combined loads are calculated without the consideration of wall thickness tolerances and differ from the values in the data sheet, which are calculated with tolerances determined by API. Any printout is NOT SUBJECT TO REGULAR REVISION. The generated performance envelope shall solely be used as a tool to facilitate the comparison of performance properties under combined loads, of different grades, sizes and connections of voestalpine Tubulars products. Field-specific safety/design factors as well as other loads are not considered. Thus the results shall by no means be used to replace the own string design engineering or to justify any warranty/guaranty cases.

Metal One Corp. 	MO-FXL *1 Pipe Body: BMP P110HSCY MinYS125ksi Min95%WT Connection Data Sheet	CDS# Date	MO-FXL 7-5/8 29.7 P110HSCY MinYS125ksi Min95%WT 20-Sep-23
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MO-FXL



Geometry	Imperial		S.I.	
Pipe Body				
Grade *	P110HSCY		P110HSCY	
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	8.541	in ²	5,510	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. *1	1,068	kips	4,749	kN
M.I.Y.P. *1	11,680	psi	80.55	MPa
Collapse Strength *1	7,200	psi	49.66	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 P110HSCY: MinYS125ksi, Min95%WT, Collapse Strength 7,200psi Performance Data Sheet: 7.625" 29.7lb/ft P110HSCY Rev3, dated 9/19/2023				
Performance Properties for Connection				
Tensile Yield load	747 kips (70% of S.M.Y.S.)			
Min. Compression Yield	747 kips (70% of S.M.Y.S.)			
Internal Pressure	9,340 psi (80% of M.I.Y.P.)			
External Pressure	100% of Collapse Strength			
Max. DLS (deg. /100ft)	30			

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				

Legal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/ images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

Issued on: 08 Jul. 2020 by Wesley Ott

VAM® SPRINT-SF

Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift:	Connection
5 1/2 in.	20.00 lb/ft	0.361 in.	P110EC	4.653 in.	VAM® SPRINT-SF

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Cross Section Area	5.828	sqin.
Grade Type	High Yield	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

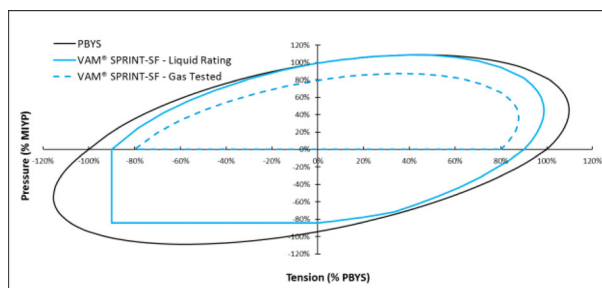
CONNECTION PROPERTIES		
Connection Type	Semi-Premium Integral Semi-Flush	
Connection OD (nom):	5.783	in.
Connection ID (nom):	4.717	in.
Make-Up Loss	5.965	in.
Critical Cross Section	5.244	sqin.
Tension Efficiency	90.0	% of pipe
Compression Efficiency	90.0	% of pipe
Internal Pressure Efficiency	100	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	656	klb
Compression Resistance	656	klb
Internal Yield Pressure	14,360	psi
Collapse Resistance	12,080	psi
Max. Structural Bending	89	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft

TORQUE VALUES		
Min. Make-up torque	20,000	ft.lb
Opt. Make-up torque	22,500	ft.lb
Max. Make-up torque	25,000	ft.lb
Max. Torque with Sealability (MTS)	40,000	ft.lb

* 87.5% RBW

VAM® SPRINT-SF is a semi-flush connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections and tight clearance requirements.



Do you need help on this product? - Remember no one knows VAM® like VAM®

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singapore@vamfieldservice.com
australia@vamfieldservice.com

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



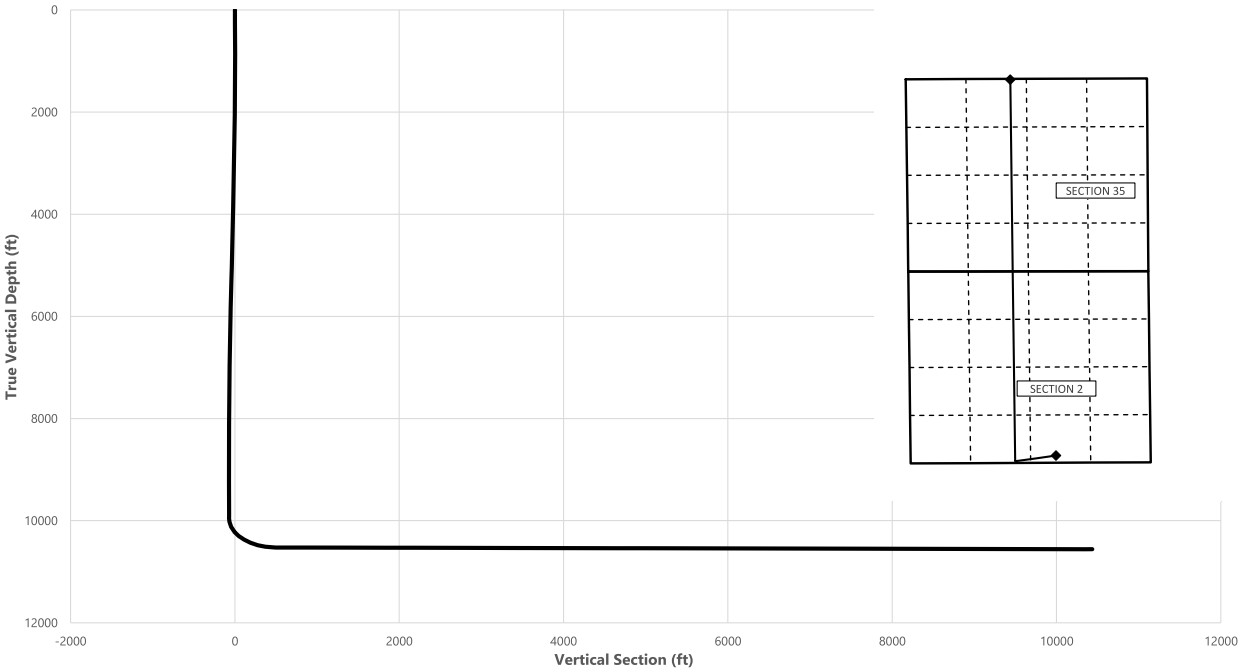
Tater Tot 2-35 Fed Com 712H



Well: Tater Tot 2-35 Fed Com 712H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD (ft)	INC (")	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	260.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	260.00	2497.47	-7.56	-42.86	-3.38	2.00	Hold Tangent
7260.33	10.00	260.00	7185.48	-151.10	-856.93	-67.59	0.00	Drop to Vertical
7760.33	0.00	260.00	7682.94	-158.66	-899.79	-70.97	2.00	Hold Vertical
10029.43	0.00	359.41	9952.05	-158.66	-899.79	-70.97	0.00	KOP
10927.54	89.81	359.41	10525.00	412.38	-905.67	497.96	10.00	Landing Point
20902.34	89.81	359.41	10558.00	10386.59	-1008.38	10435.42	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	260.00	260.00
Salt	570.00	570.00
Base of Salt	3005.21	2995.00
Delaware	3211.34	3198.00
Cherry Canyon	4101.87	4075.00
Brushy Canyon	5714.37	5663.00
1st Bone Spring Lime	6961.31	6891.00
Bone Spring 1st	8021.39	7944.00
Bone Spring 2nd	8749.39	8672.00
3rd Bone Spring Lime	9148.39	9071.00
Bone Spring 3rd	9946.39	9869.00
Wolfcamp / Point of Penetration	10303.75	10216.00
exit	20822.34	10557.75

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.2399	-103.9535	200' FSL, 2095' FEL of Sec 2 in T23S, R29E
10029.43	9952.05	32.2395	-103.9564	45' FSL, 2310' FWL of Sec 2 in T24S, R29E
10303.75	10216.00	32.2397	-103.9563	100' FSL, 2310' FWL of Sec 2 in T24S, R29E
20822.34	10557.75	32.2683	-103.9565	100' FNL, 2310' FWL of Sec 35 in T23S, R29E
20902.34	10558.00	32.2684	-103.9566	20' FNL, 2310' FWL of Sec 35 in T23S, R29E

MD	Y	X
KOP	10029.43	451087

Tater Tot 2-35 Fed Com 712H



Well: Tater Tot 2-35 Fed Com 712H

County: Eddy

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	260.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	260.00	200.00	0.00	0.00	0.00	0.00	
260.00	0.00	260.00	260.00	0.00	0.00	0.00	0.00	Rustler
300.00	0.00	260.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	260.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	260.00	500.00	0.00	0.00	0.00	0.00	
570.00	0.00	260.00	570.00	0.00	0.00	0.00	0.00	Salt
600.00	0.00	260.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	260.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	260.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	260.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	260.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	260.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	260.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	260.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	260.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	260.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	260.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	260.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	260.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	260.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	260.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	260.00	2099.98	-0.30	-1.72	-0.14	2.00	
2200.00	4.00	260.00	2199.84	-1.21	-6.87	-0.54	2.00	
2300.00	6.00	260.00	2299.45	-2.73	-15.46	-1.22	2.00	
2400.00	8.00	260.00	2398.70	-4.84	-27.46	-2.17	2.00	
2500.00	10.00	260.00	2497.47	-7.56	-42.86	-3.38	2.00	Hold Tangent
2600.00	10.00	260.00	2595.95	-10.57	-59.96	-4.73	0.00	
2700.00	10.00	260.00	2694.43	-13.59	-77.06	-6.08	0.00	
2800.00	10.00	260.00	2792.91	-16.60	-94.16	-7.43	0.00	
2900.00	10.00	260.00	2891.39	-19.62	-111.27	-8.78	0.00	
3000.00	10.00	260.00	2989.87	-22.63	-128.37	-10.12	0.00	
3005.21	10.00	260.00	2995.00	-22.79	-129.26	-10.19	0.00	Base of Salt
3100.00	10.00	260.00	3088.35	-25.65	-145.47	-11.47	0.00	
3200.00	10.00	260.00	3186.83	-28.67	-162.57	-12.82	0.00	
3211.34	10.00	260.00	3198.00	-29.01	-164.51	-12.98	0.00	Delaware
3300.00	10.00	260.00	3285.31	-31.68	-179.67	-14.17	0.00	
3400.00	10.00	260.00	3383.79	-34.70	-196.77	-15.52	0.00	
3500.00	10.00	260.00	3482.27	-37.71	-213.87	-16.87	0.00	
3600.00	10.00	260.00	3580.75	-40.73	-230.97	-18.22	0.00	
3700.00	10.00	260.00	3679.23	-43.74	-248.07	-19.57	0.00	
3800.00	10.00	260.00	3777.72	-46.76	-265.17	-20.92	0.00	
3900.00	10.00	260.00	3876.20	-49.77	-282.28	-22.26	0.00	
4000.00	10.00	260.00	3974.68	-52.79	-299.38	-23.61	0.00	
4100.00	10.00	260.00	4073.16	-55.80	-316.48	-24.96	0.00	
4101.87	10.00	260.00	4075.00	-55.86	-316.80	-24.99	0.00	Cherry Canyon
4200.00	10.00	260.00	4171.64	-58.82	-333.58	-26.31	0.00	
4300.00	10.00	260.00	4270.12	-61.84	-350.68	-27.66	0.00	
4400.00	10.00	260.00	4368.60	-64.85	-367.78	-29.01	0.00	
4500.00	10.00	260.00	4467.08	-67.87	-384.88	-30.36	0.00	
4600.00	10.00	260.00	4565.56	-70.88	-401.98	-31.71	0.00	
4700.00	10.00	260.00	4664.04	-73.90	-419.08	-33.05	0.00	
4800.00	10.00	260.00	4762.52	-76.91	-436.18	-34.40	0.00	
4900.00	10.00	260.00	4861.00	-79.93	-453.28	-35.75	0.00	
5000.00	10.00	260.00	4959.48	-82.94	-470.39	-37.10	0.00	
5100.00	10.00	260.00	5057.97	-85.96	-487.49	-38.45	0.00	
5200.00	10.00	260.00	5156.45	-88.97	-504.59	-39.80	0.00	
5300.00	10.00	260.00	5254.93	-91.99	-521.69	-41.15	0.00	
5400.00	10.00	260.00	5353.41	-95.01	-538.79	-42.50	0.00	
5500.00	10.00	260.00	5451.89	-98.02	-555.89	-43.85	0.00	
5600.00	10.00	260.00	5550.37	-101.04	-572.99	-45.19	0.00	
5700.00	10.00	260.00	5648.85	-104.05	-590.09	-46.54	0.00	
5714.37	10.00	260.00	5663.00	-104.48	-592.55	-46.74	0.00	Brushy Canyon
5800.00	10.00	260.00	5747.33	-107.07	-607.19	-47.89	0.00	
5900.00	10.00	260.00	5845.81	-110.08	-624.29	-49.24	0.00	
6000.00	10.00	260.00	5944.29	-113.10	-641.40	-50.59	0.00	
6100.00	10.00	260.00	6042.77	-116.11	-658.50	-51.94	0.00	
6200.00	10.00	260.00	6141.25	-119.13	-675.60	-53.29	0.00	
6300.00	10.00	260.00	6239.73	-122.14	-692.70	-54.64	0.00	

Tater Tot 2-35 Fed Com 712H



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Wellbore: Permit Plan

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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	10.00	260.00	6338.22	-125.16	-709.80	-55.98	0.00	
6500.00	10.00	260.00	6436.70	-128.17	-726.90	-57.33	0.00	
6600.00	10.00	260.00	6535.18	-131.19	-744.00	-58.68	0.00	
6700.00	10.00	260.00	6633.66	-134.21	-761.10	-60.03	0.00	
6800.00	10.00	260.00	6732.14	-137.22	-778.20	-61.38	0.00	
6900.00	10.00	260.00	6830.62	-140.24	-795.30	-62.73	0.00	
6961.31	10.00	260.00	6891.00	-142.09	-805.79	-63.56	0.00	1st Bone Spring Lime
7000.00	10.00	260.00	6929.10	-143.25	-812.41	-64.08	0.00	
7100.00	10.00	260.00	7027.58	-146.27	-829.51	-65.43	0.00	
7200.00	10.00	260.00	7126.06	-149.28	-846.61	-66.78	0.00	
7260.33	10.00	260.00	7185.48	-151.10	-856.93	-67.59	0.00	Drop to Vertical
7300.00	9.21	260.00	7224.59	-152.25	-863.44	-68.10	2.00	
7400.00	7.21	260.00	7323.56	-154.73	-877.50	-69.21	2.00	
7500.00	5.21	260.00	7422.97	-156.60	-888.15	-70.05	2.00	
7600.00	3.21	260.00	7522.69	-157.88	-895.37	-70.62	2.00	
7700.00	1.21	260.00	7622.62	-158.55	-899.16	-70.92	2.00	
7760.33	0.00	260.00	7682.94	-158.66	-899.79	-70.97	2.00	Hold Vertical
7800.00	0.00	359.41	7722.61	-158.66	-899.79	-70.97	0.00	
7900.00	0.00	359.41	7822.61	-158.66	-899.79	-70.97	0.00	
8000.00	0.00	359.41	7922.61	-158.66	-899.79	-70.97	0.00	
8021.39	0.00	359.41	7944.00	-158.66	-899.79	-70.97	0.00	Bone Spring 1st
8100.00	0.00	359.41	8022.61	-158.66	-899.79	-70.97	0.00	
8200.00	0.00	359.41	8122.61	-158.66	-899.79	-70.97	0.00	
8300.00	0.00	359.41	8222.61	-158.66	-899.79	-70.97	0.00	
8400.00	0.00	359.41	8322.61	-158.66	-899.79	-70.97	0.00	
8500.00	0.00	359.41	8422.61	-158.66	-899.79	-70.97	0.00	
8600.00	0.00	359.41	8522.61	-158.66	-899.79	-70.97	0.00	
8700.00	0.00	359.41	8622.61	-158.66	-899.79	-70.97	0.00	
8749.39	0.00	359.41	8672.00	-158.66	-899.79	-70.97	0.00	Bone Spring 2nd
8800.00	0.00	359.41	8722.61	-158.66	-899.79	-70.97	0.00	
8900.00	0.00	359.41	8822.61	-158.66	-899.79	-70.97	0.00	
9000.00	0.00	359.41	8922.61	-158.66	-899.79	-70.97	0.00	
9100.00	0.00	359.41	9022.61	-158.66	-899.79	-70.97	0.00	
9148.39	0.00	359.41	9071.00	-158.66	-899.79	-70.97	0.00	3rd Bone Spring Lime
9200.00	0.00	359.41	9122.61	-158.66	-899.79	-70.97	0.00	
9300.00	0.00	359.41	9222.61	-158.66	-899.79	-70.97	0.00	
9400.00	0.00	359.41	9322.61	-158.66	-899.79	-70.97	0.00	
9500.00	0.00	359.41	9422.61	-158.66	-899.79	-70.97	0.00	
9600.00	0.00	359.41	9522.61	-158.66	-899.79	-70.97	0.00	
9700.00	0.00	359.41	9622.61	-158.66	-899.79	-70.97	0.00	
9800.00	0.00	359.41	9722.61	-158.66	-899.79	-70.97	0.00	
9900.00	0.00	359.41	9822.61	-158.66	-899.79	-70.97	0.00	
9946.39	0.00	359.41	9869.00	-158.66	-899.79	-70.97	0.00	Bone Spring 3rd
10000.00	0.00	359.41	9922.61	-158.66	-899.79	-70.97	0.00	
10029.43	0.00	359.41	9952.05	-158.66	-899.79	-70.97	0.00	KOP
10100.00	7.06	359.41	10022.43	-154.32	-899.83	-66.64	10.00	
10200.00	17.06	359.41	10120.10	-133.46	-900.05	-45.86	10.00	
10300.00	27.06	359.41	10212.67	-95.95	-900.43	-8.50	10.00	
10303.75	27.43	359.41	10216.00	-94.24	-900.45	-6.78	10.00	Wolfcamp / Point of Penetration
10400.00	37.06	359.41	10297.31	-42.95	-900.98	44.32	10.00	
10500.00	47.06	359.41	10371.47	23.95	-901.67	110.97	10.00	
10600.00	57.06	359.41	10432.88	102.71	-902.48	189.43	10.00	
10700.00	67.06	359.41	10479.68	190.93	-903.39	277.33	10.00	
10800.00	77.06	359.41	10510.45	285.94	-904.37	371.99	10.00	
10900.00	87.06	359.41	10524.25	384.85	-905.39	470.54	10.00	
10927.54	89.81	359.41	10525.00	412.38	-905.67	497.96	10.00	Landing Point
11000.00	89.81	359.41	10525.24	484.83	-906.41	570.15	0.00	
11100.00	89.81	359.41	10525.57	584.83	-907.44	669.78	0.00	
11200.00	89.81	359.41	10525.90	684.82	-908.47	769.40	0.00	
11300.00	89.81	359.41	10526.23	784.81	-909.50	869.03	0.00	
11400.00	89.81	359.41	10526.56	884.81	-910.54	968.65	0.00	
11500.00	89.81	359.41	10526.89	984.80	-911.57	1068.28	0.00	
11600.00	89.81	359.41	10527.23	1084.80	-912.60	1167.91	0.00	
11700.00	89.81	359.41	10527.56	1184.79	-913.63	1267.53	0.00	
11800.00	89.81	359.41	10527.89	1284.79	-914.66	1367.16	0.00	
11900.00	89.81	359.41	10528.22	1384.78	-915.69	1466.78	0.00	
12000.00	89.81	359.41	10528.55	1484.77	-916.72	1566.41	0.00	
12100.00	89.81	359.41	10528.88	1584.77	-917.75	1666.03	0.00	
12200.00	89.81	359.41	10529.21	1684.76	-918.78	1765.66	0.00	
12300.00	89.81	359.41	10529.54	1784.76	-919.81	1865.29	0.00	

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Wellbore: Permit Plan

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Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12400.00	89.81	359.41	10529.87	1884.75	-920.84	1964.91	0.00	
12500.00	89.81	359.41	10530.20	1984.74	-921.87	2064.54	0.00	
12600.00	89.81	359.41	10530.54	2084.74	-922.90	2164.16	0.00	
12700.00	89.81	359.41	10530.87	2184.73	-923.93	2263.79	0.00	
12800.00	89.81	359.41	10531.20	2284.73	-924.96	2363.42	0.00	
12900.00	89.81	359.41	10531.53	2384.72	-925.99	2463.04	0.00	
13000.00	89.81	359.41	10531.86	2484.72	-927.02	2562.67	0.00	
13100.00	89.81	359.41	10532.19	2584.71	-928.05	2662.29	0.00	
13200.00	89.81	359.41	10532.52	2684.70	-929.08	2761.92	0.00	
13300.00	89.81	359.41	10532.85	2784.70	-930.11	2861.54	0.00	
13400.00	89.81	359.41	10533.18	2884.69	-931.14	2961.17	0.00	
13500.00	89.81	359.41	10533.51	2984.69	-932.17	3060.80	0.00	
13600.00	89.81	359.41	10533.84	3084.68	-933.20	3160.42	0.00	
13700.00	89.81	359.41	10534.18	3184.67	-934.23	3260.05	0.00	
13800.00	89.81	359.41	10534.51	3284.67	-935.26	3359.67	0.00	
13900.00	89.81	359.41	10534.84	3384.66	-936.29	3459.30	0.00	
14000.00	89.81	359.41	10535.17	3484.66	-937.32	3558.92	0.00	
14100.00	89.81	359.41	10535.50	3584.65	-938.35	3658.55	0.00	
14200.00	89.81	359.41	10535.83	3684.64	-939.38	3758.18	0.00	
14300.00	89.81	359.41	10536.16	3784.64	-940.41	3857.80	0.00	
14400.00	89.81	359.41	10536.49	3884.63	-941.44	3957.43	0.00	
14500.00	89.81	359.41	10536.82	3984.63	-942.47	4057.05	0.00	
14600.00	89.81	359.41	10537.15	4084.62	-943.50	4156.68	0.00	
14700.00	89.81	359.41	10537.49	4184.62	-944.53	4256.30	0.00	
14800.00	89.81	359.41	10537.82	4284.61	-945.56	4355.93	0.00	
14900.00	89.81	359.41	10538.15	4384.60	-946.59	4455.56	0.00	
15000.00	89.81	359.41	10538.48	4484.60	-947.62	4555.18	0.00	
15100.00	89.81	359.41	10538.81	4584.59	-948.65	4654.81	0.00	
15200.00	89.81	359.41	10539.14	4684.59	-949.68	4754.43	0.00	
15300.00	89.81	359.41	10539.47	4784.58	-950.71	4854.06	0.00	
15400.00	89.81	359.41	10539.80	4884.57	-951.75	4953.68	0.00	
15500.00	89.81	359.41	10540.13	4984.57	-952.78	5053.31	0.00	
15600.00	89.81	359.41	10540.46	5084.56	-953.81	5152.94	0.00	
15700.00	89.81	359.41	10540.80	5184.56	-954.84	5252.56	0.00	
15800.00	89.81	359.41	10541.13	5284.55	-955.87	5352.19	0.00	
15900.00	89.81	359.41	10541.46	5384.55	-956.90	5451.81	0.00	
16000.00	89.81	359.41	10541.79	5484.54	-957.93	5551.44	0.00	
16100.00	89.81	359.41	10542.12	5584.53	-958.96	5651.06	0.00	
16200.00	89.81	359.41	10542.45	5684.53	-959.99	5750.69	0.00	
16300.00	89.81	359.41	10542.78	5784.52	-961.02	5850.32	0.00	
16400.00	89.81	359.41	10543.11	5884.52	-962.05	5949.94	0.00	
16500.00	89.81	359.41	10543.44	5984.51	-963.08	6049.57	0.00	
16600.00	89.81	359.41	10543.77	6084.50	-964.11	6149.19	0.00	
16700.00	89.81	359.41	10544.10	6184.50	-965.14	6248.82	0.00	
16800.00	89.81	359.41	10544.44	6284.49	-966.17	6348.45	0.00	
16900.00	89.81	359.41	10544.77	6384.49	-967.20	6448.07	0.00	
17000.00	89.81	359.41	10545.10	6484.48	-968.23	6547.70	0.00	
17100.00	89.81	359.41	10545.43	6584.48	-969.26	6647.32	0.00	
17200.00	89.81	359.41	10545.76	6684.47	-970.29	6746.95	0.00	
17300.00	89.81	359.41	10546.09	6784.46	-971.32	6846.57	0.00	
17400.00	89.81	359.41	10546.42	6884.46	-972.35	6946.20	0.00	
17500.00	89.81	359.41	10546.75	6984.45	-973.38	7045.83	0.00	
17600.00	89.81	359.41	10547.08	7084.45	-974.41	7145.45	0.00	
17700.00	89.81	359.41	10547.41	7184.44	-975.44	7245.08	0.00	
17800.00	89.81	359.41	10547.75	7284.43	-976.47	7344.70	0.00	
17900.00	89.81	359.41	10548.08	7384.43	-977.50	7444.33	0.00	
18000.00	89.81	359.41	10548.41	7484.42	-978.53	7543.95	0.00	
18100.00	89.81	359.41	10548.74	7584.42	-979.56	7643.58	0.00	
18200.00	89.81	359.41	10549.07	7684.41	-980.59	7743.21	0.00	
18300.00	89.81	359.41	10549.40	7784.40	-981.62	7842.83	0.00	
18400.00	89.81	359.41	10549.73	7884.40	-982.65	7942.46	0.00	
18500.00	89.81	359.41	10550.06	7984.39	-983.68	8042.08	0.00	
18600.00	89.81	359.41	10550.39	8084.39	-984.71	8141.71	0.00	
18700.00	89.81	359.41	10550.72	8184.38	-985.74	8241.33	0.00	
18800.00	89.81	359.41	10551.06	8284.38	-986.77	8340.96	0.00	
18900.00	89.81	359.41	10551.39	8384.37	-987.80	8440.59	0.00	
19000.00	89.81	359.41	10551.72	8484.36	-988.83	8540.21	0.00	
19100.00	89.81	359.41	10552.05	8584.36	-989.86	8639.84	0.00	
19200.00	89.81	359.41	10552.38	8684.35	-990.89	8739.46	0.00	
19300.00	89.81	359.41	10552.71	8784.35	-991.92	8839.09	0.00	

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Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19400.00	89.81	359.41	10553.04	8884.34	-992.96	8938.71	0.00	
19500.00	89.81	359.41	10553.37	8984.33	-993.99	9038.34	0.00	
19600.00	89.81	359.41	10553.70	9084.33	-995.02	9137.97	0.00	
19700.00	89.81	359.41	10554.03	9184.32	-996.05	9237.59	0.00	
19800.00	89.81	359.41	10554.36	9284.32	-997.08	9337.22	0.00	
19900.00	89.81	359.41	10554.70	9384.31	-998.11	9436.84	0.00	
20000.00	89.81	359.41	10555.03	9484.31	-999.14	9536.47	0.00	
20100.00	89.81	359.41	10555.36	9584.30	-1000.17	9636.09	0.00	
20200.00	89.81	359.41	10555.69	9684.29	-1001.20	9735.72	0.00	
20300.00	89.81	359.41	10556.02	9784.29	-1002.23	9835.35	0.00	
20400.00	89.81	359.41	10556.35	9884.28	-1003.26	9934.97	0.00	
20500.00	89.81	359.41	10556.68	9984.28	-1004.29	10034.60	0.00	
20600.00	89.81	359.41	10557.01	10084.27	-1005.32	10134.22	0.00	
20700.00	89.81	359.41	10557.34	10184.26	-1006.35	10233.85	0.00	
20800.00	89.81	359.41	10557.67	10284.26	-1007.38	10333.48	0.00	
20822.34	89.81	359.41	10557.75	10306.59	-1007.61	10355.73	0.00	exit
20900.00	89.81	359.41	10558.01	10384.25	-1008.41	10433.10	0.00	
20902.34	89.81	359.41	10558.00	10386.59	-1008.38	10435.42	0.00	BHL

Tater Tot 2-35 Fed Com 712H

Tater Tot 2-35 Fed Com 712H

9 5/8		surface csg in a		13 1/2		inch hole.		Design Factors				Surface	
Segment	#/ft	Grade		Coupling		Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00			j 55	btc sc	55.26	19.29	0.73	285	31	1.22	36.43	11,400
"B"					btc sc				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500													
				Tail Cmt	does not	circ to sfc.	Totals:	285					11,400
Comparison of Proposed to Minimum Required Cement Volumes													
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd					Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE					Hole-Cplg
13 1/2	0.4887	192	276	139	98	9.00	3248	5M					1.94
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.													
Site plot (pipe racks 3 or 4) as per D.O.D. (D 4) not found													

7 5/8		casing inside the		9 5/8		Design Factors				Int 1			
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	29.70			p 110	MO-FXL	2.22	1.3	1.32	9,979	1	2.21	2.17	296,376
"B"									0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 952								Totals:	9,979				296,376
The cement volume(s) are intended to achieve a top of								0	ft from surface or a		285	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg				
8 3/4	0.1005	394	567	1005	-44	10.50	3436	5M	0.56				
r D V Tool(s):		5663		sum of sx				Σ CuFt	Σ%excess				
t by stage % :		31	84					715	1617	61			
Class 'C' tail cmt yld > 1.35													

Tail cmt												
5 1/2		casing inside the		7 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	Varn	3.45	2.57	2.42	9,479	2	4.05	4.31	189,580
"B"	20.00		p 110	vam sprint sf	29.71	2.10	2.49	1,079	2	4.18	3.52	21,580
"C"	20.00		p 110	Varn	∞	2.31	2.42	10,344	2	4.05	3.87	206,880
"D"				0				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,085								Totals:	20,902	418,040		
The cement volume(s) are intended to achieve a top of						9479	ft from surface or a		500	overlap.		
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg			
6 3/4	0.0835	756	1202	959	25	10.50			0.35			
Class 'C' tail cmt yld > 1.35												

#N/A											
0	5 1/2										
Design Factors											
<Choose Casing>											
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@S	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	0	0		
Cmt vol calc below includes this csg, TOC intended							#N/A	ft from surface or a	#N/A	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg		
0		#N/A	#N/A	0	#N/A						
#N/A											
Capitan Reef est top XXXX.											

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

CONDITIONS

Action 294215

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 294215
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/13/2023