Sundry Print Report

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

Well Name: TATER TOT 2-35 FED Well Location: T24S / R29E / SEC 2 / County or Parish/State:

COM SWSE /

Well Number: 332H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM103604 Unit or CA Name: Unit or CA Number:

US Well Number: 3001549054 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2765639

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/12/2023 Time Sundry Submitted: 02:25

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_332H_Slim_Hole_rev1_20231213091039.pdf

9.625_40_J55___SeAH_20231212142422.pdf

CDS_FXL_7_625_29_7_BMP_P110HSCY_95_RBW_Sep20_2023_20231212142422.pdf

5.50_20__VA_EP_P110_VAroughneck_6.051in_20231212142422.pdf

5.5_20_P110EC_SPRINT_SF___VST_20231212142422.pdf

Tater_Tot_2_35__Fed_Com_332H_Directional_Plan_12_12_23_20231212104453.pdf

eiyed by OCD: 12/13/2023 11:41:34 AM Well Name: TATER TOT 2-35 FED

COM

Well Location: T24S / R29E / SEC 2 /

SWSE /

Well Number: 332H

Type of Well: OIL WELL

Allottee or Tribe Name:

County or Parish/State:

Page 2 of

Lease Number: NMNM103604

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549054

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Tater Tot 2 35 Fed Com 332H Sundry ID 2765639 20231213110648.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 09:12 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

Page 2 of 2

Issued on: 08 Jul. 2020 by Wesley Ott



Connection Data Sheet

	1		İ	i	
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
	'				

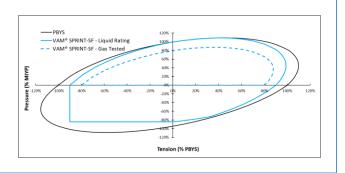
PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Cross Section Area	5.828	sqin.
Grade Type	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION P	ROPERTIES	
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

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.



canada@vamfieldservice.com

usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com Do you need help on this product? - Remember no one knows VAM^{\circledR} like VAM^{\circledR}

uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

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



^{* 87.5%} RBW

Metric

TECHNICAL DATA SHEET

Connection: VAroughneck

Size: 5 1/2 in X 20.00 lb/ft

Drift: standard
Bevel: standard

Grade: VA-EP-P110

Material:

 Yield Strength Min.
 125,000 psi
 862 Mpa

 Yield Strength Max.
 140,000 psi
 965 Mpa

 Tensile Strength Min.
 125,000 psi
 862 Mpa

US Customary

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
ID:	4.764 in	121.00 mm
Length:	8.976 in	228.00 mm

Threads per inch: 5 Threads

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			

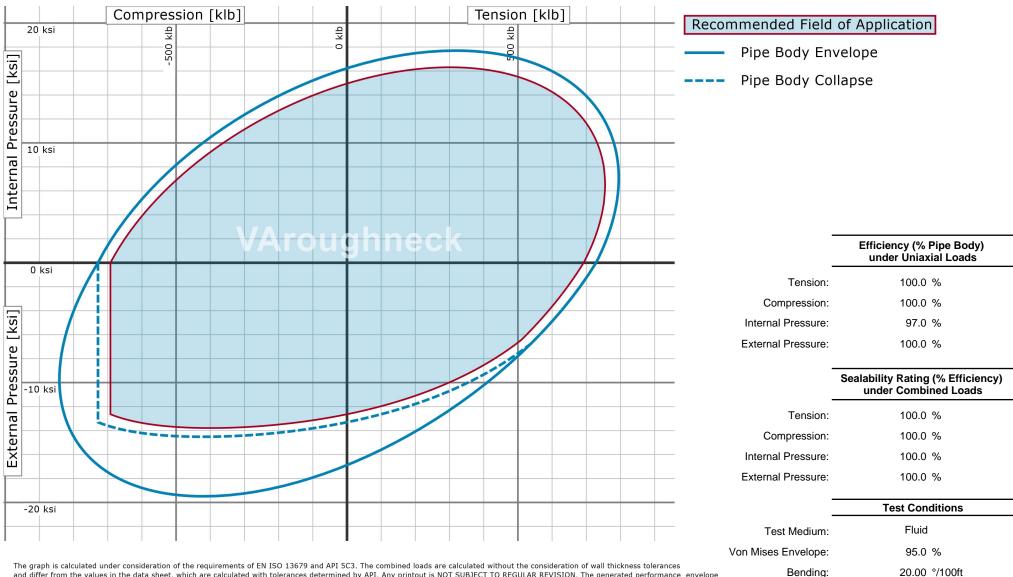
Field Make Up (Friction Factor = 1.0):

	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			

voestalpine

Min. Torque on Shoulder:

LOAD ENVELOPE



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/quaranty cases.





9.625" 40# .395" J-55

Dimensions (Nominal)

BTC

Outside Diame	eter	9.625	in.
Wall		0.395	in.
Inside Diamet	er	8.835	in.
Drift		8.750	in.
Dinic		0.750	
Weight, T&C		40.000	lbs./ft.
Weight, PE		38.970	lbs./ft.
110.6.1.0, 1.2		30.370	1031,111
D (D		
Pertorma	nce Properties		
Collapse, PE		2570	psi
Collapse, FL		2370	psi
Internal Yield	Pressure at Minimum Yield		
	PE	3950	psi
	LTC	3950	psi
			-
	ВТС	3950	psi
Yield Strength	, Pipe Body	630	1000 lbs.
Joint Strength			
	STC	452	1000 lbs.
	LTC	520	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.

714

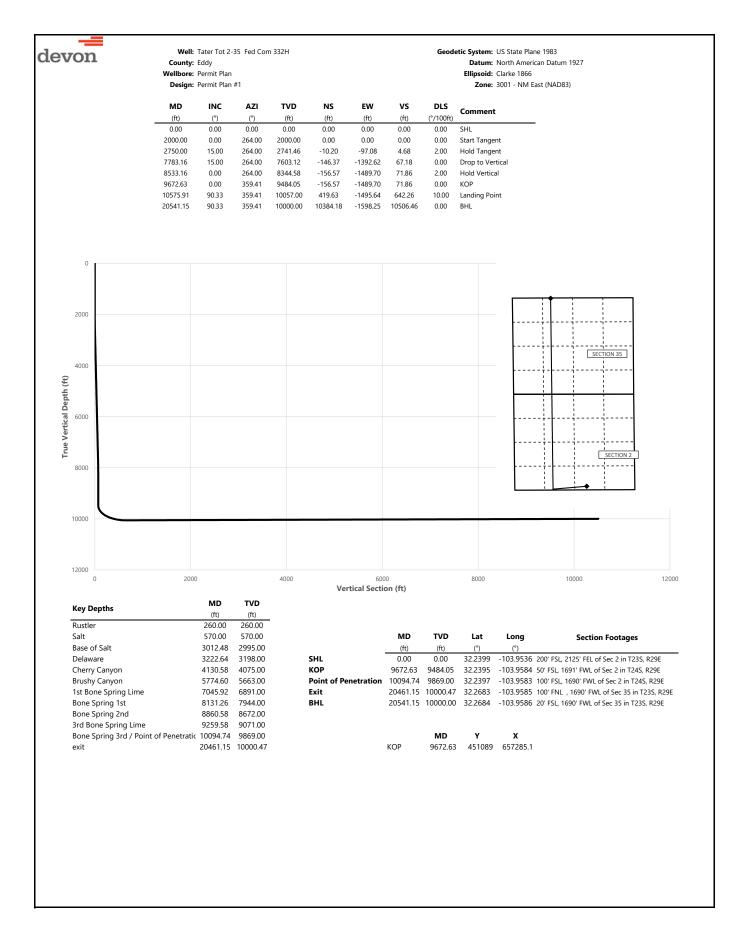
1000 lbs.

etal One Corp.	MO-FXL			MO-FXL 7-5/8 29.7		
	WIO-FAL		CDS#	P110HSCY		
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110HSC	Y MinYS125ksi	CD3#	MinYS125ksi		
	Min95%WT			Min95%WT		
	Connection Data	a Sheet	Date	20-Sep-23		
	Geometry	ıl	<u>S.I.</u>			
	Pine Rody	<u>Imperia</u>	_			
	Pipe Body Grade *	P110HSCY		P110HSCY		
	Pipe OD (D)	7 5/8	in	193.68	mm	
MO-FXL	Weight	29.70	lb/ft	44.25		
MO-I XL	Actual weight	29.70	ID/IL	43.26	kg/m	
	Wall Thickness (t)	0.375	in	9.53	kg/m	
	Pipe ID (d)	6.875	in	174.63	mm	
	/				mm	
	Pipe body cross section	8.541	in ²	5,510	mm ²	
	Drift Dia.	6.750	in	171.45	mm	
	Connection					
1	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	Box Critical Area	5.714	in ²	3686	mm ²	
	DOX CITICAL ALEA	_				
area	Joint load officionay	70				
Y	Joint load efficiency	70	% / 10 / 1	70	%	
Y	Thread Taper		/ 10 (1.	2" per ft)	%	
area d			/ 10 (1.		 %	
area d d	Thread Taper Number of Threads Performance	1	/ 10 (1.	2" per ft)	%	
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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 Shee is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safetyrelated 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.





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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

	Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Command
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	264.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	264.00	200.00	0.00	0.00	0.00	0.00	D. other
260.00 300.00	0.00	264.00 264.00	260.00 300.00	0.00	0.00	0.00	0.00	Rustler
400.00	0.00	264.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	264.00	500.00	0.00	0.00	0.00	0.00	
570.00	0.00	264.00	570.00	0.00	0.00	0.00	0.00	Salt
600.00	0.00	264.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	264.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	264.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	264.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	264.00	1000.00	0.00	0.00	0.00	0.00	
1100.00 1200.00	0.00	264.00 264.00	1100.00 1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	264.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	264.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	264.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	264.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	264.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	264.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	264.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	264.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	264.00	2099.98	-0.18	-1.74	0.08	2.00	
2200.00 2300.00	4.00 6.00	264.00 264.00	2199.84 2299.45	-0.73 -1.64	-6.94 -15.61	0.33 0.75	2.00 2.00	
2400.00	8.00	264.00	2398.70	-1.04	-13.01	1.34	2.00	
2500.00	10.00	264.00	2497.47	-4.55	-43.28	2.09	2.00	
2600.00	12.00	264.00	2595.62	-6.54	-62.26	3.00	2.00	
2700.00	14.00	264.00	2693.06	-8.90	-84.63	4.08	2.00	
2750.00	15.00	264.00	2741.46	-10.20	-97.08	4.68	2.00	Hold Tangent
2800.00	15.00	264.00	2789.76	-11.56	-109.95	5.30	0.00	
2900.00	15.00	264.00	2886.35	-14.26	-135.69	6.55	0.00	
3000.00	15.00	264.00	2982.94	-16.97	-161.43	7.79	0.00	Dans of Calk
3012.48 3100.00	15.00 15.00	264.00 264.00	2995.00 3079.54	-17.31 -19.67	-164.64 -187.17	7.94 9.03	0.00	Base of Salt
3200.00	15.00	264.00	3176.13	-22.38	-212.91	10.27	0.00	
3222.64	15.00	264.00	3198.00	-22.99	-218.74	10.55	0.00	Delaware
3300.00	15.00	264.00	3272.72	-25.08	-238.65	11.51	0.00	
3400.00	15.00	264.00	3369.31	-27.79	-264.39	12.75	0.00	
3500.00	15.00	264.00	3465.91	-30.49	-290.13	14.00	0.00	
3600.00	15.00	264.00	3562.50	-33.20	-315.87	15.24	0.00	
3700.00	15.00	264.00	3659.09	-35.91	-341.61	16.48	0.00	
3800.00	15.00	264.00	3755.68	-38.61	-367.35	17.72	0.00	
3900.00 4000.00	15.00 15.00	264.00 264.00	3852.28 3948.87	-41.32 -44.02	-393.09 -418.83	18.96 20.20	0.00	
4100.00	15.00	264.00	4045.46	-44.02 -46.73	-416.63 -444.57	21.45	0.00	
4130.58	15.00	264.00	4075.00	-47.56	-452.44	21.82	0.00	Cherry Canyon
4200.00	15.00	264.00	4142.05	-49.43	-470.31	22.69	0.00	•
4300.00	15.00	264.00	4238.65	-52.14	-496.05	23.93	0.00	
4400.00	15.00	264.00	4335.24	-54.84	-521.79	25.17	0.00	
4500.00	15.00	264.00	4431.83	-57.55	-547.53	26.41	0.00	
4600.00	15.00	264.00	4528.42	-60.26	-573.27	27.65	0.00	
4700.00 4800.00	15.00 15.00	264.00 264.00	4625.02 4721.61	-62.96 -65.67	-599.01 -624.75	28.89 30.14	0.00	
4900.00	15.00	264.00	4818.20	-65.67 -68.37	-624.75 -650.49	31.38	0.00	
5000.00	15.00	264.00	4914.80	-71.08	-676.23	32.62	0.00	
5100.00	15.00	264.00	5011.39	-73.78	-701.97	33.86	0.00	
5200.00	15.00	264.00	5107.98	-76.49	-727.71	35.10	0.00	
5300.00	15.00	264.00	5204.57	-79.19	-753.45	36.34	0.00	
5400.00	15.00	264.00	5301.17	-81.90	-779.19	37.59	0.00	
5500.00	15.00	264.00	5397.76	-84.60	-804.93	38.83	0.00	
5600.00	15.00	264.00	5494.35	-87.31	-830.67	40.07	0.00	
5700.00 5774.60	15.00 15.00	264.00 264.00	5590.94 5663.00	-90.02 -92.03	-856.41 -875.61	41.31 42.24	0.00	Rruchy Canyon
5800.00	15.00	264.00	5687.54	-92.03 -92.72	-882.15	42.55	0.00	Brushy Canyon
5900.00	15.00	264.00	5784.13	-95.43	-907.89	43.79	0.00	
6000.00	15.00	264.00	5880.72	-98.13	-933.63	45.04	0.00	
6100.00	15.00	264.00	5977.31	-100.84	-959.37	46.28	0.00	
6200.00	15.00	264.00	6073.91	-103.54	-985.11	47.52	0.00	



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

Geodetic System: US State Plane 1983

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MD	INC	AZI	TVD	NS	EW	vs	DLS			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment		
6300.00	15.00	264.00	6170.50	-106.25	-1010.85	48.76	0.00			
6400.00	15.00	264.00	6267.09	-108.95	-1036.59	50.00	0.00			
6500.00	15.00	264.00	6363.68	-111.66	-1062.33	51.24	0.00			
6600.00	15.00	264.00	6460.28	-114.37	-1088.07	52.49	0.00			
6700.00	15.00	264.00	6556.87	-117.07	-1113.81	53.73	0.00			
6800.00	15.00	264.00	6653.46	-119.78	-1139.55	54.97	0.00			
6900.00	15.00	264.00	6750.05	-122.48	-1165.29	56.21	0.00			
7000.00	15.00	264.00	6846.65	-125.19	-1191.03	57.45	0.00			
7045.92	15.00	264.00	6891.00	-126.43	-1202.85	58.02	0.00	1st Bone Spring Lime		
7100.00	15.00	264.00	6943.24	-127.89	-1216.77	58.69	0.00			
7200.00	15.00	264.00	7039.83	-130.60	-1242.51	59.94	0.00			
7300.00	15.00	264.00	7136.42	-133.30	-1268.25	61.18	0.00			
7400.00	15.00	264.00	7233.02	-136.01	-1293.99	62.42	0.00			
7500.00	15.00	264.00	7329.61	-138.71	-1319.73	63.66	0.00			
7600.00	15.00	264.00	7426.20	-141.42	-1345.47	64.90	0.00			
7700.00	15.00	264.00	7522.80	-144.13	-1371.21	66.14	0.00			
7783.16	15.00	264.00	7603.12	-146.37	-1392.62	67.18	0.00	Drop to Vertical		
7800.00	14.66	264.00	7619.40	-146.82	-1396.91	67.39	2.00			
7900.00	12.66	264.00	7716.57	-149.29	-1420.40	68.52	2.00			
8000.00	10.66	264.00	7814.50	-151.40	-1440.50	69.49	2.00			
8100.00	8.66	264.00	7913.07	-153.16	-1457.20	70.30	2.00	Page Coving 1st		
8131.26 8200.00	8.04 6.66	264.00 264.00	7944.00 8012.17	-153.63 -154.55	-1461.71 -1470.46	70.51 70.94	2.00 2.00	Bone Spring 1st		
8300.00	4.66	264.00	8111.68	-155.58	-1470.46	70.94	2.00			
8400.00	2.66	264.00	8211.47	-156.25	-1486.62	71.72	2.00			
8500.00	0.66	264.00	8311.42	-156.55	-1489.51	71.72	2.00			
8533.16	0.00	264.00	8344.58	-156.57	-1489.70	71.86	2.00	Hold Vertical		
8600.00	0.00	359.41	8411.42	-156.57	-1489.70	71.86	0.00	Tiold Vertical		
8700.00	0.00	359.41	8511.42	-156.57	-1489.70	71.86	0.00			
8800.00	0.00	359.41	8611.42	-156.57	-1489.70	71.86	0.00			
8860.58	0.00	359.41	8672.00	-156.57	-1489.70	71.86	0.00	Bone Spring 2nd		
8900.00	0.00	359.41	8711.42	-156.57	-1489.70	71.86	0.00			
9000.00	0.00	359.41	8811.42	-156.57	-1489.70	71.86	0.00			
9100.00	0.00	359.41	8911.42	-156.57	-1489.70	71.86	0.00			
9200.00	0.00	359.41	9011.42	-156.57	-1489.70	71.86	0.00			
9259.58	0.00	359.41	9071.00	-156.57	-1489.70	71.86	0.00	3rd Bone Spring Lime		
9300.00	0.00	359.41	9111.42	-156.57	-1489.70	71.86	0.00	· -		
9400.00	0.00	359.41	9211.42	-156.57	-1489.70	71.86	0.00			
9500.00	0.00	359.41	9311.42	-156.57	-1489.70	71.86	0.00			
9600.00	0.00	359.41	9411.42	-156.57	-1489.70	71.86	0.00			
9672.63	0.00	359.41	9484.05	-156.57	-1489.70	71.86	0.00	KOP		
9700.00	2.74	359.41	9511.41	-155.92	-1489.71	72.51	10.00			
9800.00	12.74	359.41	9610.38	-142.48	-1489.85	85.82	10.00			
9900.00	22.74	359.41	9705.50	-112.05	-1490.16	115.94	10.00			
10000.00	32.74	359.41	9793.90	-65.57	-1490.64	161.95	10.00			
10094.74	42.21	359.41	9869.00	-8.00	-1491.23	218.94	10.00	Bone Spring 3rd / Point of Penetration		
10100.00	42.74	359.41	9872.88	-4.45	-1491.27	222.46	10.00			
10200.00	52.74	359.41	9940.05	69.46	-1492.03	295.62	10.00			
10300.00	62.74	359.41	9993.36	153.91	-1492.90	379.22	10.00			
10400.00	72.74	359.41	10031.20	246.33	-1493.85	470.71	10.00			
10500.00	82.74	359.41	10052.41	343.92	-1494.86	567.32	10.00	Landing Daint		
10575.91	90.33	359.41	10057.00	419.63	-1495.64	642.26	10.00	Landing Point		
10600.00	90.33	359.41	10056.86	443.72	-1495.88	666.12	0.00			
10700.00	90.33	359.41	10056.29	543.72 642.71	-1496.91	765.10	0.00			
10800.00 10900.00	90.33 90.33	359.41 359.41	10055.72 10055.15	643.71 743.70	-1497.94 -1498.97	864.09 963.07	0.00			
11000.00	90.33	359.41	10055.15	743.70 843.70	-1498.97 -1500.00	1062.06	0.00			
11100.00	90.33	359.41	10054.00	943.69	-1501.03	1161.05	0.00			
11200.00	90.33	359.41	10054.00	1043.68	-1501.03	1260.03	0.00			
11300.00	90.33	359.41	10055.45	1143.68	-1502.06	1359.02	0.00			
11400.00	90.33	359.41	10052.86	1243.67	-1503.10	1458.00	0.00			
11500.00	90.33	359.41	10052.29	1343.66	-1504.15	1556.99	0.00			
11600.00	90.33	359.41	10051.72	1443.65	-1506.19	1655.98	0.00			
11700.00	90.33	359.41	10051.14	1543.65	-1507.22	1754.96	0.00			
11700.00	90.33	359.41	10050.57	1643.64	-1507.22	1853.95	0.00			
11900.00	90.33	359.41	10030.00	1743.63	-1509.28	1952.93	0.00			
12000.00	90.33	359.41	10043.43	1843.63	-1510.31	2051.92	0.00			
12100.00	90.33	359.41	10048.28	1943.62	-1511.34	2150.91	0.00			
12200.00	90.33	359.41	10047.71	2043.61	-1512.37	2249.89	0.00			
12300.00	90.33	359.41	10047.14	2143.61	-1513.40	2348.88	0.00			



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MD	INC	AZI	TVD	NS	EW	vs	DLS	_	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
2400.00	90.33	359.41	10046.57	2243.60	-1514.43	2447.86	0.00		
2500.00	90.33	359.41	10046.00	2343.59	-1515.46	2546.85	0.00		
2600.00	90.33	359.41	10045.43	2443.58	-1516.49	2645.84	0.00		
12700.00	90.33	359.41	10044.85	2543.58	-1517.52	2744.82	0.00		
12800.00	90.33	359.41	10044.28	2643.57	-1518.55	2843.81	0.00		
12900.00	90.33	359.41	10043.71	2743.56	-1519.58	2942.79	0.00		
13000.00	90.33	359.41	10043.14	2843.56	-1520.61	3041.78	0.00		
13100.00	90.33	359.41	10042.57	2943.55	-1521.64	3140.77	0.00		
13200.00	90.33	359.41	10041.99	3043.54	-1522.67	3239.75	0.00		
13300.00	90.33	359.41	10041.42	3143.54	-1523.70	3338.74	0.00		
13400.00	90.33	359.41	10040.85	3243.53	-1524.73	3437.73	0.00		
13500.00	90.33	359.41	10040.28	3343.52	-1525.76	3536.71	0.00		
13600.00	90.33	359.41	10039.71	3443.52	-1526.79	3635.70	0.00		
13700.00	90.33	359.41	10039.13	3543.51	-1527.82	3734.68	0.00		
13800.00	90.33	359.41	10038.56	3643.50	-1528.85	3833.67	0.00		
13900.00	90.33	359.41	10037.99	3743.49	-1529.88	3932.66	0.00		
14000.00	90.33	359.41	10037.42	3843.49	-1530.91	4031.64	0.00		
4100.00	90.33	359.41	10036.85	3943.48	-1531.94	4130.63	0.00		
4200.00	90.33	359.41	10036.28	4043.47	-1532.97	4229.61	0.00		
14300.00	90.33	359.41	10035.70	4143.47	-1534.00	4328.60	0.00		
14400.00	90.33	359.41	10035.13	4243.46	-1535.03	4427.59	0.00		
14500.00	90.33	359.41	10034.56	4343.45	-1536.06	4526.57	0.00		
14600.00	90.33	359.41	10033.99	4443.45	-1537.09	4625.56	0.00		
14700.00	90.33	359.41	10033.42	4543.44	-1538.12	4724.54	0.00		
14800.00 14900.00	90.33	359.41	10032.84	4643.43	-1539.15	4823.53	0.00		
15000.00	90.33	359.41	10032.27 10031.70	4743.43	-1540.18	4922.52 5021.50	0.00		
	90.33 90.33	359.41 359.41	10031.70	4843.42	-1541.21 -1542.24		0.00		
15100.00 15200.00	90.33	359.41	10031.13	4943.41 5043.40	-1542.24	5120.49 5219.47	0.00		
15300.00	90.33	359.41	10030.30	5143.40	-1544.30	5318.46	0.00		
15400.00	90.33	359.41	10029.33	5243.39	-1545.33	5417.45	0.00		
15500.00	90.33	359.41	10023.41	5343.38	-1546.37	5516.43	0.00		
15600.00	90.33	359.41	10028.27	5443.38	-1547.40	5615.42	0.00		
15700.00	90.33	359.41	10020.27	5543.37	-1548.43	5714.40	0.00		
15800.00	90.33	359.41	10027.13	5643.36	-1549.46	5813.39	0.00		
15900.00	90.33	359.41	10026.55	5743.36	-1550.49	5912.38	0.00		
16000.00	90.33	359.41	10025.98	5843.35	-1551.52	6011.36	0.00		
16100.00	90.33	359.41	10025.41	5943.34	-1552.55	6110.35	0.00		
16200.00	90.33	359.41	10024.84	6043.34	-1553.58	6209.33	0.00		
16300.00	90.33	359.41	10024.27	6143.33	-1554.61	6308.32	0.00		
16400.00	90.33	359.41	10023.69	6243.32	-1555.64	6407.31	0.00		
16500.00	90.33	359.41	10023.12	6343.31	-1556.67	6506.29	0.00		
16600.00	90.33	359.41	10022.55	6443.31	-1557.70	6605.28	0.00		
16700.00	90.33	359.41	10021.98	6543.30	-1558.73	6704.26	0.00		
16800.00	90.33	359.41	10021.41	6643.29	-1559.76	6803.25	0.00		
16900.00	90.33	359.41	10020.84	6743.29	-1560.79	6902.24	0.00		
17000.00	90.33	359.41	10020.26	6843.28	-1561.82	7001.22	0.00		
17100.00	90.33	359.41	10019.69	6943.27	-1562.85	7100.21	0.00		
17200.00	90.33	359.41	10019.12	7043.27	-1563.88	7199.19	0.00		
17300.00	90.33	359.41	10018.55	7143.26	-1564.91	7298.18	0.00		
17400.00	90.33	359.41	10017.98	7243.25	-1565.94	7397.17	0.00		
17500.00	90.33	359.41	10017.40	7343.24	-1566.97	7496.15	0.00		
17600.00	90.33	359.41	10016.83	7443.24	-1568.00	7595.14	0.00		
17700.00	90.33	359.41	10016.26	7543.23	-1569.03	7694.12	0.00		
17800.00	90.33	359.41	10015.69	7643.22	-1570.06	7793.11	0.00		
17900.00	90.33	359.41	10015.12	7743.22	-1571.09	7892.10	0.00		
18000.00	90.33	359.41	10014.54	7843.21	-1572.12	7991.08	0.00		
18100.00	90.33	359.41	10013.97	7943.20	-1573.15	8090.07	0.00		
18200.00	90.33	359.41	10013.40	8043.20	-1574.18	8189.05	0.00		
18300.00	90.33	359.41	10012.83	8143.19	-1575.21	8288.04	0.00		
18400.00	90.33	359.41	10012.26	8243.18	-1576.24	8387.03	0.00		
18500.00	90.33	359.41	10011.69	8343.18	-1577.27	8486.01	0.00		
18600.00	90.33	359.41	10011.11	8443.17	-1578.30	8585.00	0.00		
	90.33	359.41	10010.54	8543.16	-1579.33	8683.98	0.00		
18700.00		250 41	10009.97	8643.15	-1580.36	8782.97	0.00		
18800.00	90.33	359.41				8881.96	0.00		
18800.00 18900.00	90.33 90.33	359.41	10009.40	8743.15	-1581.39				
18800.00 18900.00 19000.00	90.33 90.33 90.33	359.41 359.41	10009.40 10008.83	8843.14	-1582.42	8980.94	0.00		
18800.00 18900.00 19000.00 19100.00	90.33 90.33 90.33 90.33	359.41 359.41 359.41	10009.40 10008.83 10008.25	8843.14 8943.13	-1582.42 -1583.45	8980.94 9079.93	0.00 0.00		
18800.00 18900.00 19000.00	90.33 90.33 90.33	359.41 359.41	10009.40 10008.83	8843.14	-1582.42	8980.94	0.00		



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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19400.00	90.33	359.41	10006.54	9243.11	-1586.54	9376.89	0.00	
19500.00	90.33	359.41	10005.97	9343.11	-1587.57	9475.87	0.00	
19600.00	90.33	359.41	10005.40	9443.10	-1588.60	9574.86	0.00	
19700.00	90.33	359.41	10004.82	9543.09	-1589.64	9673.85	0.00	
19800.00	90.33	359.41	10004.25	9643.09	-1590.67	9772.83	0.00	
19900.00	90.33	359.41	10003.68	9743.08	-1591.70	9871.82	0.00	
20000.00	90.33	359.41	10003.11	9843.07	-1592.73	9970.80	0.00	
20100.00	90.33	359.41	10002.54	9943.06	-1593.76	10069.79	0.00	
20200.00	90.33	359.41	10001.96	10043.06	-1594.79	10168.78	0.00	
20300.00	90.33	359.41	10001.39	10143.05	-1595.82	10267.76	0.00	
20400.00	90.33	359.41	10000.82	10243.04	-1596.85	10366.75	0.00	
20461.15	90.33	359.41	10000.47	10304.19	-1597.48	10427.28	0.00	exit
20500.00	90.33	359.41	10000.25	10343.04	-1597.88	10465.73	0.00	
20541.15	90.33	359.41	10000.00	10384.18	-1598.25	10506.46	0.00	BHL

Tater Tot 2-35 Fed Com 332H

1. Geologic Formations

TVD of target	10000	Pilot hole depth	N/A
MD at TD:	20541	Deepest expected fresh water	

Basin

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

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

2. Casing Program (Primary Design)

					Casing	Interval	Casing Interval	
Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	ВТС	0	340	0	340
8 3/4	7 5/8	29.7	P-110HSCY	MOFXL	0	9572	0	9572
6 3/4	5 1/2	20	P-110EC	Sprint FJ &Varn	0	20541	0	10000

[•] 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	325	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int 1	352	5774	13.2	1.44	Tail: Class H / C + additives
Production	62	7673	9	3.27	Lead: Class H /C + additives
Froduction	693	9673	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:		
			An	Annular		50% of rated working pressure		
Int 1	13-5/8"	5M	Bline	d Ram	X			
III I	13-3/0	3111	Pipe	Ram		5M		
			Doub	le Ram	X	JIVI		
			Other*					
			Annular (5M)		X	50% of rated working pressure		
D 1 .:	13-5/8"	73.4	Blind Ram		X			
Production		5M	Pipe Ram			7) f		
			Double Ram		X	5M		
			Other*					
			Annular (5M) Blind Ram Pipe Ram Double Ram					
			Other*					
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schema	atic.		
Y A variance is requested to a	A variance is requested to run a 5 M annular on a 10M system							

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5460
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attach	ments
X	Directional Plan
	Other, describe

Sundry Print Report

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

Well Name: TATER TOT 2-35 FED

COM

Well Location: T24S / R29E / SEC 2 /

SWSE /

Well Number: 332H Type of Well: OIL WELL County or Parish/State:

Allottee or Tribe Name:

Lease Number: NMNM103604

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549054

Well Status: Approved Application for

Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2765639

Type of Action: APD Change Type of Submission: Notice of Intent Date Sundry Submitted: 12/12/2023 Time Sundry Submitted: 02:25

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_332H_Slim_Hole_rev1_20231213091039.pdf

9.625_40_J55___SeAH_20231212142422.pdf

CDS_FXL_7_625_29_7_BMP_P110HSCY_95_RBW_Sep20_2023_20231212142422.pdf

5.50_20_VA_EP_P110_VAroughneck_6.051in_20231212142422.pdf

5.5_20_P110EC_SPRINT_SF___VST_20231212142422.pdf

Tater_Tot_2_35__Fed_Com_332H_Directional_Plan_12_12_23_20231212104453.pdf

Received by OCD: NEW WARD STATES THE FED

Well Location: T24S / R29E / SEC 2 / SWSE /

Type of Well: OIL WELL

County or Parish/State:

Allottee or Tribe Name:

Page 19 of 49

Lease Number: NMNM103604

Well Number: 332H

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001549054

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 09:12 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:

Page 2 of 2

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 332H

SURFACE HOLE FOOTAGE: 200'/S & 2125'/E **BOTTOM HOLE FOOTAGE** 20'/N & 1690'/W

ATS/API ID: 3001549054 APD ID: 10400073916 Sundry ID: 2765639

COA

H2S	No 🔻		
Potash	Secretary -		
Cave/Karst Potential	Medium 🔽		
Cave/Karst	☐ Critical		
Potential			
Variance	☐ None	☑ Flex Hose	C Other
Wellhead	Conventional and Multibov	/I <u> </u>	
Other	□4 String	Capitan Reef	□WIPP
		None	
Other	Pilot Hole	☐ Open Annulus	
	None 🔻		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None	Int 1	Squeeze
			None +
Special	□ Water	☑ COM	□ Unit
Requirements	Disposal/Injection		
Special	☐ Batch Sundry		
Requirements			
Special	▼ Break Testing	□ Offline	
Requirements		Cementing	Clearance
Variance			

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' (352 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 325 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 <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 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)

(575) 361-2822

- Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV
- 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 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

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

DEI	ANTIMENT OF THE INTERIOR				
BUR	EAU OF LAND MANAGEMEN	Γ		5. Lease Serial No.	IMNM103604
Do not use this t	IOTICES AND REPORTS ON form for proposals to drill or Use Form 3160-3 (APD) for su	6. If Indian, Allottee or Tribe Name			
SUBMIT IN	TRIPLICATE - Other instructions on pa	nge 2		7. If Unit of CA/Agre	ement, Name and/or No.
1. Type of Well	_			8 Well Name and No	
Oil Well Gas V	_			8. Well Name and No	TATER TOT 2-35 FED COM/332H
2. Name of Operator DEVON ENERG				9. API Well No. 3001	
3a. Address 333 WEST SHERIDAN	AVE, OKLAHOMA CITY, 3b. Phone No. (405) 235-3	o. (include area codo 611	e)	10. Field and Pool or CEDAR CANYON	•
4. Location of Well (Footage, Sec., T.,I SEC 2/T24S/R29E/NMP	2.,M., or Survey Description)			11. Country or Parish, EDDY/NM	, State
12. CHE	CK THE APPROPRIATE BOX(ES) TO II	NDICATE NATURE	E OF NOTI	CE, REPORT OR OTI	HER DATA
TYPE OF SUBMISSION		TY	PE OF AC	ΓΙΟΝ	
Notice of Intent		epen draulic Fracturing	=	uction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report		w Construction g and Abandon	=	omplete porarily Abandon	Other
Final Abandonment Notice	Convert to Injection Plu	ig Back	Wate	r Disposal	
respectfully requests to chang	ING CHANGE: Devon Energy Product e the drilling plan with casing changes			se see attachments.	
14. I hereby certify that the foregoing is SHAYDA OMOUMI / Ph: (405) 235	true and correct. Name (Printed/Typed) 3-3611	Regulator Title	y Complia	nce Associate 3	
Signature (Electronic Submission	on)	Date		12/13/2	023
	THE SPACE FOR FEI	DERAL OR ST	ATE OF	ICE USE	
Approved by		T: 1			D .
	hed. Approval of this notice does not warra equitable title to those rights in the subject duct operations thereon.			ŀ	Date
	3 U.S.C Section 1212, make it a crime for ents or representations as to any matter wi		gly and will	fully to make to any do	epartment or agency of the United States

(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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWSE / 200 FSL / 2125 FEL / TWSP: 24S / RANGE: 29E / SECTION: 2 / LAT: 32.2399799 / LONG: -103.9534973 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 100 FSL / 2310 FWL / TWSP: 24S / RANGE: 29E / SECTION: 2 / LAT: 32.2396996 / LONG: -103.9563165 (TVD: 9869 feet, MD: 9986 feet)

BHL: NENW / 20 FNL / 1690 FWL / TWSP: 23S / RANGE: 29E / SECTION: 35 / LAT: 32.2566437 / LONG: -103.9564433 (TVD: 10001 feet, MD: 16106 feet)



Tater Tot 2-35 Fed Com 332H

1. Geologic Formations

TVD of target	10000	Pilot hole depth	N/A
MD at TD:	20541	Deepest expected fresh water	

Basin

Dasiii	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
1 0.1	from KB	Zone?	1111241 4 5
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		
_			

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

2. Casing Program (Primary Design)

		Wt			Casing Interval		Interval	Casing Interval		
Hole Size	Csg. Size	(PPF)	Grade	Conn	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	9572	0	9572		
6 3/4	5 1/2	20	P-110EC	Sprint FJ &Varn	0	20541	0	10000		

[•] 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	325	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIIt I	352	5774	13.2	1.44	Tail: Class H / C + additives
Draduation	62	7673	9	3.27	Lead: Class H /C + additives
Production	693	9673	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:		
			Annular		X	50% of rated working pressure		
Int 1	13-5/8"	5M	Blind	l Ram	X			
IIIt I	13-3/6	5101	Pipe	Ram		5M		
			Doub	le Ram	X	J1 V1		
			Other*					
	13-5/8"	5M	Annular (5M)		X	50% of rated working		
						pressure		
Production			Blind Ram		X			
Troduction			Pipe Ram			5M		
			Double Ram		X			
			Other*					
			Annular (5M)					
			Blind Ram					
			Pipe Ram Double Ram					
			Other*					
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.							
Y A variance is requested to 1	A variance is requested to run a 5 M annular on a 10M system							

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5460
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

2

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

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

Will be pre-setting casing? Potentially

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

Attachm	ents
X	Directional Plan
	Other, describe



9.625" 40# .395" J-55

Dimensions (Nominal)

BTC

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
ВТС	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	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.

714

1000 lbs.

letal One Corp.	MO-FXL		MO-FXL 7-5/8 29.7 P110HSCY		
Metal One	*1 Pipe Body: BMP P110HS0	CDS#	MinYS1		
Metat One	Min95%WT	-	Min95		
	Connection Dat	a Sheet	Date	20-Se	
	Geometry	<u>Imperia</u>	ıl	<u>S.I.</u>	
	Pipe Body		_		
	Grade *	P110HSCY		P110HSCY	
	Pipe OD (D)	7 5/8	in	193.68	mm
MO-FXL	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
		0.700		17 1.10	
A	Connection				
	Box OD (W)	7.625	in	193.68	mm
	PIN ID	6.875	in	174.63	mm
Box	Make up Loss	4.219	in	107.16	mm
critical	Box Critical Area	5.714	in ²	3686	mm^2
Y I				70	0/
area	Joint load efficiency	70	%	70	%
Y	Thread Taper		/ 10 (1.	2" per ft)	%
area d	Thread Taper Number of Threads		/ 10 (1.		70
area d	Thread Taper Number of Threads Performance	1	/ 10 (1.	2" per ft)	70
area d d d d d D	Thread Taper Number of Threads	for Pipe Body	/ 10 (1. 5	2" per ft)	kN
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area Make up loss Pin critical	Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Speci M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.62 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft)	for Pipe Body 1,068 11,680 7,200 fied Minimum YIE tum Internal Yiele si, Min95%WT, Col 5" 29.7lb/ft P110H5 for Connectio 747 kips 747 kips	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% 80% 100% c	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa dy
area Make up loss Pin critical	Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Speci M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ke Performance Data Sheet: 7.62 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque	for Pipe Body 1,068 11,680 7,200 fied Minimum YIE num Internal Yield si, Min95%WT, Col 5" 29.7lb/ft P110H3 for Connectio 747 kips 747 kips 9,340 psi	kips psi psi ELD Street Pressur lapse Street CY Rev3 n (70% 70% 80% 100% c 3	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.) of Collapse St	kN MPa MPa dy
area Make up loss Pin critical	Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S. = Speci M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.62 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	for Pipe Body 1,068 11,680 7,200 fied Minimum YIE num Internal Yield si, Min95%WT, Col 5" 29.7lb/ft P110H3 for Connectio 747 kips 747 kips 9,340 psi	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% 3 ft-lb	4,749 80.55 49.66 ngth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	kN MPa MPa dy 3
Make up loss D	Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Speci M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.62 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	for Pipe Body 1,068 11,680 7,200 fied Minimum YIE num Internal Yield si, Min95%WT, Col 5" 29.7lb/ft P110H3 for Connectio 747 kips 747 kips 9,340 psi	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% (80% 100% c 3	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	kN MPa MPa dy 3
area Make up loss Pin critical	Thread Taper Number of Threads Performance Performance Properties S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S. = Speci M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.62 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	for Pipe Body 1,068 11,680 7,200 fied Minimum YIE num Internal Yield si, Min95%WT, Col 5" 29.7lb/ft P110H3 for Connectio 747 kips 747 kips 9,340 psi	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% 3 ft-lb	4,749 80.55 49.66 ngth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	kN MPa MPa dy 3

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 Shee is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safetyrelated 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.

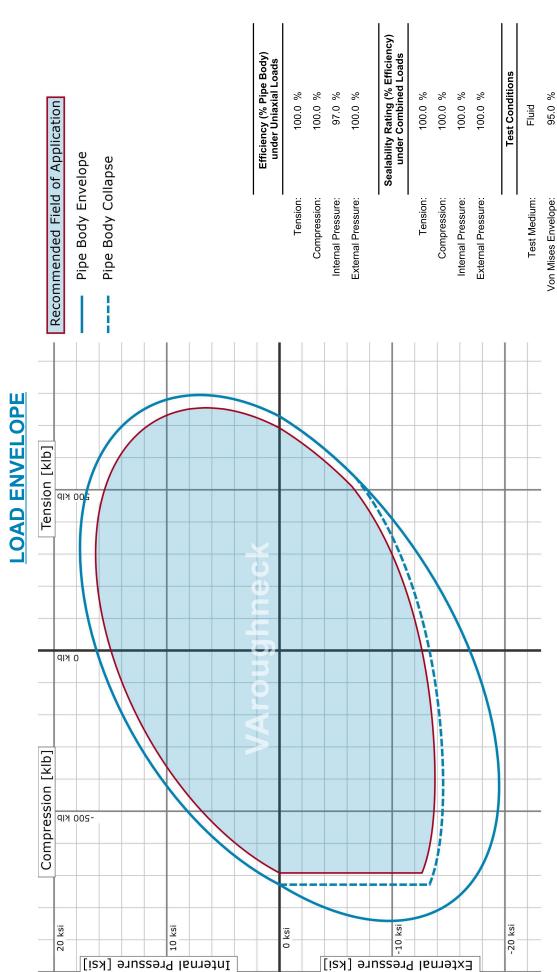
Created on 01.12.2021

TECHNICAL DATA SHEET

111.00 mm 965 Mpa 862 Mpa 9.17 mm 118.19 mm 29,800 Nm 862 Mpa 15.40 l/m 11.57 l/m 3,243 kN Metric Metric Metric Metric 5 Threads 1.240 gal/ft 0.932 gal/ft 22,000 ft.lb 140,000 psi 125,000 psi 729 klb **US Customary** 4.370 in 125,000 psi **US Customary** 0.361 in 4.653 in **US Customary** > 100.0 % **US Customary** Make-Up Loss: Yield Torque: Pipe Body Yield Strength: Threads per inch: Wall Thickness: Standard Drift: Tension Efficiency: Displacement: Production: Yield Strength Min. Yield Strength Max. Tensile Strength Min. Grade: VA-EP-P110 Material: 30.07 kg/m 96.00 Mpa 3,759.99 mm² 91.70 Mpa 23,835 Nm 26,218 Nm 139.70 mm 121.36 mm 153.70 mm 121.00 mm 21,451 Nm 228.00 mm 3,243 kN 1,829 kN Metric Metric Metric Connection Performance (Uniaxial Load): 15,822 ft.lb 17,580 ft.lb 19,338 ft.lb 13,920 psi 411 klb 20.00 lb/ft 13,300 psi 5.828 in² **US Customary US Customary** 4.778 in **US Customary US Customary** 729 klb 5.500 in 6.051 in 4.764 in 8.976 in Field Make Up (Friction Factor = 1.0): Connection: VAroughneck Size: 5 1/2 in X 20.00 lb/ft Nominal Weight: ≘ Length: Optimum Torque: Maximum Torque: Min. Torque on Shoulder: 0D: Minimum Torque: Pipe Cross Section: Joint Strength: Internal Yield Pressure: Load on Coupling Face: Nominal ID: Collapse Resistance:. Nominal OD: Drift: standard Bevel: standard Connection Pipe:

ONE STEP AHEAD. voestalpine





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 advantage and different grades. TO REGULAR REVISION. The generated performance envelope and differ from the values in the data sheet, which are calculated with tolerances determined by API. Any princulus is NOT SUBJECT TO REGULAR REVISION. The generated performance envelope shall soll by the use 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.

Voestalpine

20.00 °/100ft

Bending:

Issued on: 08 Jul. 2020 by Wesley Ott



Connection Data Sheet

	1		ı .		
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	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION P	ROPERTIES	
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

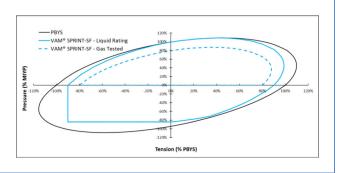
CONNECTION PERFORMANCES								
Tensile Yield Strength	656	klb						
Compression Resistance	656	klb						
Internal Yield Pressure	14,360	psi						
Collapse Resistance	12,080	psi						
Max. Structural Bending	89	°/100ft						
Max. Bending with ISO/API Sealability	30	°/100ft						

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

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.

canada@vamfieldservice.com

usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com



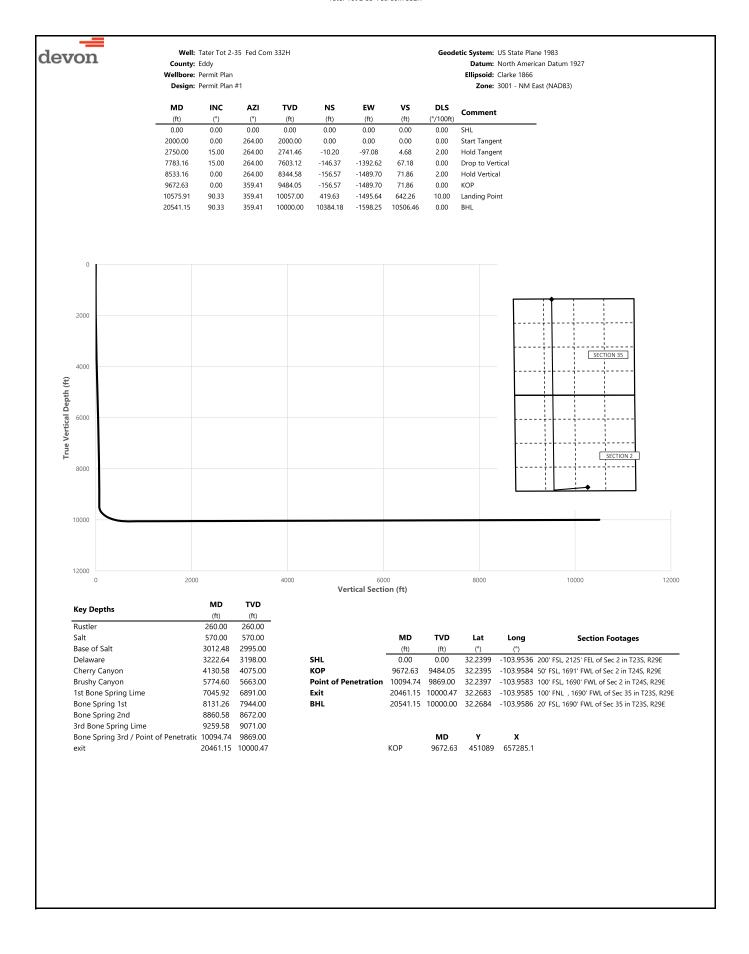
Do you need help on this product? - Remember no one knows VAM® like VAM®

uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

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



^{* 87.5%} RBW





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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Design: Permit Plan #1					Design: Permit Plan #1 Zone: 3001 - NM East (NAD83)						
MD	INC	AZI	TVD	NS	EW	vs	DLS				
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL			
100.00	0.00	264.00	100.00	0.00	0.00	0.00	0.00				
200.00	0.00	264.00	200.00	0.00	0.00	0.00	0.00				
260.00	0.00	264.00	260.00	0.00	0.00	0.00	0.00	Rustler			
300.00	0.00	264.00	300.00	0.00	0.00	0.00	0.00				
400.00	0.00	264.00	400.00	0.00	0.00	0.00	0.00				
500.00	0.00	264.00	500.00	0.00	0.00	0.00	0.00				
570.00	0.00	264.00	570.00	0.00	0.00	0.00	0.00	Salt			
600.00	0.00	264.00	600.00	0.00	0.00	0.00	0.00				
700.00	0.00	264.00	700.00	0.00	0.00	0.00	0.00				
800.00	0.00	264.00	800.00	0.00	0.00	0.00	0.00				
900.00	0.00	264.00	900.00	0.00	0.00	0.00	0.00				
1000.00	0.00	264.00	1000.00	0.00	0.00	0.00	0.00				
1100.00	0.00	264.00	1100.00	0.00	0.00	0.00	0.00				
1200.00	0.00	264.00	1200.00	0.00	0.00	0.00	0.00				
1300.00	0.00	264.00	1300.00	0.00	0.00	0.00	0.00				
1400.00	0.00	264.00	1400.00	0.00	0.00	0.00	0.00				
1500.00	0.00	264.00	1500.00	0.00	0.00	0.00	0.00				
1600.00	0.00	264.00	1600.00	0.00	0.00	0.00	0.00				
1700.00	0.00	264.00	1700.00	0.00	0.00	0.00	0.00				
1800.00	0.00	264.00	1800.00	0.00	0.00	0.00	0.00				
1900.00	0.00	264.00	1900.00	0.00	0.00	0.00	0.00	Charl Toward			
2000.00	0.00	264.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent			
2100.00	2.00	264.00	2099.98	-0.18	-1.74	0.08	2.00				
2200.00	4.00	264.00	2199.84	-0.73	-6.94	0.33	2.00				
2300.00 2400.00	6.00 8.00	264.00	2299.45 2398.70	-1.64	-15.61	0.75	2.00 2.00				
2500.00		264.00 264.00	2398.70	-2.91 -4.55	-27.73	1.34 2.09					
2600.00	10.00 12.00	264.00	2595.62	-4.55 -6.54	-43.28 -62.26	3.00	2.00 2.00				
2700.00	14.00	264.00	2693.06	-8.90	-84.63	4.08	2.00				
2750.00	15.00	264.00	2741.46	-10.20	-97.08	4.68	2.00	Hold Tangent			
2800.00	15.00	264.00	2789.76	-11.56	-109.95	5.30	0.00	riold rangent			
2900.00	15.00	264.00	2886.35	-14.26	-135.69	6.55	0.00				
3000.00	15.00	264.00	2982.94	-16.97	-161.43	7.79	0.00				
3012.48	15.00	264.00	2995.00	-17.31	-164.64	7.94	0.00	Base of Salt			
3100.00	15.00	264.00	3079.54	-19.67	-187.17	9.03	0.00				
3200.00	15.00	264.00	3176.13	-22.38	-212.91	10.27	0.00				
3222.64	15.00	264.00	3198.00	-22.99	-218.74	10.55	0.00	Delaware			
3300.00	15.00	264.00	3272.72	-25.08	-238.65	11.51	0.00				
3400.00	15.00	264.00	3369.31	-27.79	-264.39	12.75	0.00				
3500.00	15.00	264.00	3465.91	-30.49	-290.13	14.00	0.00				
3600.00	15.00	264.00	3562.50	-33.20	-315.87	15.24	0.00				
3700.00	15.00	264.00	3659.09	-35.91	-341.61	16.48	0.00				
3800.00	15.00	264.00	3755.68	-38.61	-367.35	17.72	0.00				
3900.00	15.00	264.00	3852.28	-41.32	-393.09	18.96	0.00				
4000.00	15.00	264.00	3948.87	-44.02	-418.83	20.20	0.00				
4100.00	15.00	264.00	4045.46	-46.73	-444.57	21.45	0.00				
4130.58	15.00	264.00	4075.00	-47.56	-452.44	21.82	0.00	Cherry Canyon			
4200.00	15.00	264.00	4142.05	-49.43	-470.31	22.69	0.00				
4300.00	15.00	264.00	4238.65	-52.14	-496.05	23.93	0.00				
4400.00	15.00	264.00	4335.24	-54.84	-521.79	25.17	0.00				
4500.00	15.00	264.00	4431.83	-57.55	-547.53	26.41	0.00				
4600.00	15.00	264.00	4528.42	-60.26	-573.27	27.65	0.00				
4700.00	15.00	264.00	4625.02	-62.96	-599.01	28.89	0.00				
4800.00	15.00	264.00	4721.61	-65.67	-624.75	30.14	0.00				
4900.00	15.00	264.00	4818.20	-68.37	-650.49	31.38	0.00				
5000.00	15.00	264.00	4914.80	-71.08	-676.23	32.62	0.00				
5100.00	15.00	264.00	5011.39	-73.78	-701.97	33.86	0.00				
5200.00	15.00	264.00	5107.98	-76.49	-727.71	35.10	0.00				
5300.00	15.00	264.00	5204.57	-79.19	-753.45	36.34	0.00				
5400.00	15.00	264.00	5301.17	-81.90	-779.19	37.59	0.00				
5500.00	15.00	264.00	5397.76	-84.60	-804.93	38.83	0.00				
5600.00	15.00	264.00	5494.35	-87.31	-830.67	40.07	0.00				
5700.00	15.00	264.00	5590.94	-90.02	-856.41	41.31	0.00	Persola Commun			
5774.60	15.00	264.00	5663.00	-92.03	-875.61	42.24	0.00	Brushy Canyon			
5800.00	15.00	264.00	5687.54	-92.72	-882.15	42.55	0.00				
5900.00	15.00	264.00	5784.13	-95.43	-907.89	43.79	0.00				
6000.00	15.00	264.00	5880.72	-98.13	-933.63	45.04	0.00				
6100.00	15.00	264.00	5977.31	-100.84	-959.37	46.28	0.00				
6200.00	15.00	264.00	6073.91	-103.54	-985.11	47.52	0.00				



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

Geodetic System: US State Plane 1983 **Datum:** North American Datum 1927

Ellipsoid: Clarke 1866

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)			
MD	INC	AZI	TVD	NS	EW	vs	DLS			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment		
6300.00	15.00	264.00	6170.50	-106.25	-1010.85	48.76	0.00			
6400.00	15.00	264.00	6267.09	-108.95	-1036.59	50.00	0.00			
6500.00	15.00	264.00	6363.68	-111.66	-1062.33	51.24	0.00			
6600.00	15.00	264.00	6460.28	-114.37	-1088.07	52.49	0.00			
6700.00	15.00	264.00	6556.87	-117.07	-1113.81	53.73	0.00			
6800.00	15.00	264.00	6653.46	-119.78	-1139.55	54.97	0.00			
6900.00	15.00	264.00	6750.05	-122.48	-1165.29	56.21	0.00			
7000.00	15.00	264.00	6846.65	-125.19	-1191.03	57.45	0.00			
7045.92	15.00	264.00	6891.00	-126.43	-1202.85	58.02	0.00	1st Bone Spring Lime		
7100.00	15.00	264.00	6943.24	-127.89	-1216.77	58.69	0.00			
7200.00	15.00	264.00	7039.83	-130.60	-1242.51	59.94	0.00			
7300.00	15.00	264.00	7136.42	-133.30	-1268.25	61.18	0.00			
7400.00	15.00	264.00	7233.02	-136.01	-1293.99	62.42	0.00			
7500.00 7600.00	15.00 15.00	264.00 264.00	7329.61 7426.20	-138.71 -141.42	-1319.73 -1345.47	63.66 64.90	0.00 0.00			
7700.00	15.00	264.00	7522.80	-141.42	-1343.47	66.14	0.00			
7783.16	15.00	264.00	7603.12	-144.13	-1371.21	67.18	0.00	Drop to Vertical		
7800.00	14.66	264.00	7619.40	-146.82	-1396.91	67.18	2.00	blop to Vertical		
7900.00	12.66	264.00	7716.57	-149.29	-1420.40	68.52	2.00			
8000.00	10.66	264.00	7814.50	-149.29	-1440.50	69.49	2.00			
8100.00	8.66	264.00	7913.07	-151.40	-1457.20	70.30	2.00			
8131.26	8.04	264.00	7944.00	-153.63	-1461.71	70.51	2.00	Bone Spring 1st		
8200.00	6.66	264.00	8012.17	-154.55	-1470.46	70.94	2.00			
8300.00	4.66	264.00	8111.68	-155.58	-1480.27	71.41	2.00			
8400.00	2.66	264.00	8211.47	-156.25	-1486.62	71.72	2.00			
8500.00	0.66	264.00	8311.42	-156.55	-1489.51	71.85	2.00			
8533.16	0.00	264.00	8344.58	-156.57	-1489.70	71.86	2.00	Hold Vertical		
8600.00	0.00	359.41	8411.42	-156.57	-1489.70	71.86	0.00			
8700.00	0.00	359.41	8511.42	-156.57	-1489.70	71.86	0.00			
8800.00	0.00	359.41	8611.42	-156.57	-1489.70	71.86	0.00			
8860.58	0.00	359.41	8672.00	-156.57	-1489.70	71.86	0.00	Bone Spring 2nd		
8900.00	0.00	359.41	8711.42	-156.57	-1489.70	71.86	0.00			
9000.00	0.00	359.41	8811.42	-156.57	-1489.70	71.86	0.00			
9100.00	0.00	359.41	8911.42	-156.57	-1489.70	71.86	0.00			
9200.00	0.00	359.41	9011.42	-156.57	-1489.70	71.86	0.00			
9259.58	0.00	359.41	9071.00	-156.57	-1489.70	71.86	0.00	3rd Bone Spring Lime		
9300.00	0.00	359.41	9111.42	-156.57	-1489.70	71.86	0.00			
9400.00	0.00	359.41	9211.42	-156.57	-1489.70	71.86	0.00			
9500.00	0.00	359.41	9311.42	-156.57	-1489.70	71.86	0.00			
9600.00	0.00	359.41	9411.42	-156.57	-1489.70	71.86	0.00	KOB		
9672.63 9700.00	0.00 2.74	359.41 359.41	9484.05 9511.41	-156.57 -155.92	-1489.70 -1489.71	71.86 72.51	0.00 10.00	KOP		
9800.00	12.74	359.41	9610.38	-142.48	-1489.85	85.82	10.00			
9900.00	22.74	359.41	9705.50	-112.05	-1490.16	115.94	10.00			
10000.00	32.74	359.41	9793.90	-65.57	-1490.64	161.95	10.00			
10094.74	42.21	359.41	9869.00	-8.00	-1491.23	218.94	10.00	Bone Spring 3rd / Point of Penetration		
10100.00	42.74	359.41	9872.88	-4.45	-1491.27	222.46	10.00			
10200.00	52.74	359.41	9940.05	69.46	-1492.03	295.62	10.00			
10300.00	62.74	359.41	9993.36	153.91	-1492.90	379.22	10.00			
10400.00	72.74	359.41	10031.20	246.33	-1493.85	470.71	10.00			
10500.00	82.74	359.41	10052.41	343.92	-1494.86	567.32	10.00			
10575.91	90.33	359.41	10057.00	419.63	-1495.64	642.26	10.00	Landing Point		
10600.00	90.33	359.41	10056.86	443.72	-1495.88	666.12	0.00			
10700.00	90.33	359.41	10056.29	543.72	-1496.91	765.10	0.00			
10800.00	90.33	359.41	10055.72	643.71	-1497.94	864.09	0.00			
10900.00	90.33	359.41	10055.15	743.70	-1498.97	963.07	0.00			
11000.00	90.33	359.41	10054.57	843.70	-1500.00	1062.06	0.00			
11100.00	90.33	359.41	10054.00	943.69	-1501.03	1161.05	0.00			
11200.00	90.33	359.41	10053.43	1043.68	-1502.06	1260.03	0.00			
11300.00	90.33	359.41	10052.86	1143.68	-1503.10	1359.02	0.00			
11400.00	90.33	359.41	10052.29	1243.67	-1504.13	1458.00	0.00			
11500.00	90.33	359.41	10051.72	1343.66	-1505.16	1556.99	0.00			
11600.00	90.33	359.41	10051.14	1443.65	-1506.19	1655.98	0.00			
11700.00	90.33	359.41	10050.57	1543.65	-1507.22	1754.96	0.00			
11800.00	90.33	359.41	10050.00	1643.64	-1508.25	1853.95	0.00			
11900.00 12000.00	90.33	359.41	10049.43	1743.63	-1509.28 -1510.31	1952.93	0.00			
12000.00	90.33 90.33	359.41 359.41	10048.86 10048.28	1843.63 1943.62	-1510.31 -1511.34	2051.92 2150.91	0.00 0.00			
12100.00	90.33	359.41	10048.28	2043.62	-1511.34	2150.91	0.00			
12300.00	90.33	359.41	10047.71	2143.61	-1512.37	2348.88	0.00			
.2300.00	50.55	555.71	.00 17.1-1	25.01	.5.5.40	25 .0.00	5.00			



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

Geodetic System: US State Plane 1983 **Datum:** North American Datum 1927

Ellipsoid: Clarke 1866

	Design:	Permit Plar	1#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
12400.00	90.33	359.41	10046.57	2243.60	-1514.43	2447.86	0.00	
12500.00	90.33	359.41	10046.00	2343.59	-1515.46	2546.85	0.00	
12600.00	90.33	359.41	10045.43	2443.58	-1516.49	2645.84	0.00	
12700.00	90.33	359.41	10044.85	2543.58	-1517.52	2744.82	0.00	
12800.00	90.33	359.41	10044.28	2643.57	-1518.55	2843.81	0.00	
12900.00	90.33	359.41	10043.71	2743.56	-1519.58	2942.79	0.00	
13000.00	90.33	359.41	10043.14	2843.56	-1520.61	3041.78	0.00	
13100.00	90.33	359.41	10042.57	2943.55	-1521.64	3140.77	0.00	
13200.00	90.33	359.41	10041.99	3043.54	-1522.67	3239.75	0.00	
13300.00	90.33	359.41	10041.42	3143.54	-1523.70	3338.74	0.00	
13400.00	90.33	359.41	10040.85	3243.53	-1524.73	3437.73	0.00	
13500.00	90.33	359.41	10040.28	3343.52	-1525.76	3536.71	0.00	
13600.00	90.33	359.41	10039.71	3443.52	-1526.79	3635.70	0.00	
13700.00	90.33	359.41	10039.13	3543.51	-1527.82	3734.68	0.00	
13800.00	90.33	359.41	10038.56	3643.50	-1528.85	3833.67	0.00	
13900.00	90.33	359.41	10037.99	3743.49	-1529.88	3932.66	0.00	
14000.00	90.33	359.41	10037.42	3843.49	-1530.91	4031.64	0.00	
14100.00	90.33	359.41	10036.85	3943.48	-1531.94	4130.63	0.00	
14200.00	90.33	359.41	10036.28	4043.47	-1532.97	4229.61	0.00	
14300.00	90.33	359.41	10035.70	4143.47	-1534.00	4328.60	0.00	
14400.00	90.33	359.41	10035.13	4243.46	-1535.03	4427.59	0.00	
14500.00	90.33	359.41	10034.56	4343.45	-1536.06	4526.57	0.00	
14600.00	90.33	359.41	10033.99	4443.45	-1537.09	4625.56	0.00	
14700.00	90.33	359.41	10033.42	4543.44	-1538.12	4724.54	0.00	
14800.00	90.33	359.41	10032.84	4643.43	-1539.15	4823.53	0.00	
14900.00 15000.00	90.33	359.41	10032.27	4743.43	-1540.18	4922.52	0.00	
	90.33	359.41 359.41	10031.70	4843.42	-1541.21	5021.50 5120.49	0.00	
15100.00 15200.00	90.33 90.33	359.41	10031.13 10030.56	4943.41 5043.40	-1542.24 -1543.27	5219.47	0.00	
15300.00	90.33	359.41	10030.30	5143.40	-1544.30	5318.46	0.00	
15400.00	90.33	359.41	10029.99	5243.39	-1545.33	5417.45	0.00	
15500.00	90.33	359.41	10023.41	5343.38	-1546.37	5516.43	0.00	
15600.00	90.33	359.41	10028.27	5443.38	-1547.40	5615.42	0.00	
15700.00	90.33	359.41	10020.27	5543.37	-1548.43	5714.40	0.00	
15800.00	90.33	359.41	10027.13	5643.36	-1549.46	5813.39	0.00	
15900.00	90.33	359.41	10026.55	5743.36	-1550.49	5912.38	0.00	
16000.00	90.33	359.41	10025.98	5843.35	-1551.52	6011.36	0.00	
16100.00	90.33	359.41	10025.41	5943.34	-1552.55	6110.35	0.00	
16200.00	90.33	359.41	10024.84	6043.34	-1553.58	6209.33	0.00	
16300.00	90.33	359.41	10024.27	6143.33	-1554.61	6308.32	0.00	
16400.00	90.33	359.41	10023.69	6243.32	-1555.64	6407.31	0.00	
16500.00	90.33	359.41	10023.12	6343.31	-1556.67	6506.29	0.00	
16600.00	90.33	359.41	10022.55	6443.31	-1557.70	6605.28	0.00	
16700.00	90.33	359.41	10021.98	6543.30	-1558.73	6704.26	0.00	
16800.00	90.33	359.41	10021.41	6643.29	-1559.76	6803.25	0.00	
16900.00	90.33	359.41	10020.84	6743.29	-1560.79	6902.24	0.00	
17000.00	90.33	359.41	10020.26	6843.28	-1561.82	7001.22	0.00	
17100.00	90.33	359.41	10019.69	6943.27	-1562.85	7100.21	0.00	
17200.00	90.33	359.41	10019.12	7043.27	-1563.88	7199.19	0.00	
17300.00	90.33	359.41	10018.55	7143.26	-1564.91	7298.18	0.00	
17400.00	90.33	359.41	10017.98	7243.25	-1565.94	7397.17	0.00	
17500.00	90.33	359.41	10017.40	7343.24	-1566.97	7496.15	0.00	
17600.00	90.33	359.41	10016.83	7443.24	-1568.00	7595.14	0.00	
17700.00	90.33	359.41	10016.26	7543.23	-1569.03	7694.12	0.00	
17800.00	90.33	359.41	10015.69	7643.22	-1570.06	7793.11	0.00	
17900.00	90.33	359.41	10015.12	7743.22	-1571.09	7892.10	0.00	
18000.00	90.33	359.41	10014.54	7843.21	-1572.12	7991.08	0.00	
18100.00	90.33	359.41	10013.97	7943.20	-1573.15	8090.07	0.00	
18200.00	90.33	359.41	10013.40	8043.20	-1574.18	8189.05	0.00	
18300.00	90.33	359.41	10012.83	8143.19	-1575.21	8288.04	0.00	
18400.00	90.33	359.41	10012.26	8243.18	-1576.24	8387.03	0.00	
18500.00	90.33	359.41	10011.69	8343.18	-1577.27	8486.01	0.00	
18600.00	90.33	359.41	10011.11	8443.17	-1578.30	8585.00	0.00	
18700.00	90.33	359.41	10010.54	8543.16	-1579.33	8683.98	0.00	
18800.00	90.33	359.41	10009.97	8643.15	-1580.36	8782.97	0.00	
18900.00	90.33	359.41	10009.40	8743.15	-1581.39	8881.96	0.00	
19000.00	90.33	359.41	10008.83	8843.14	-1582.42	8980.94	0.00	
19100.00	90.33	359.41	10008.25 10007.68	8943.13 9043.13	-1583.45 -1584.48	9079.93 9178.92	0.00	
10200 00								
19200.00 19300.00	90.33 90.33	359.41 359.41	10007.08	9143.12	-1585.51	9277.90	0.00	



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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19400.00	90.33	359.41	10006.54	9243.11	-1586.54	9376.89	0.00	
19500.00	90.33	359.41	10005.97	9343.11	-1587.57	9475.87	0.00	
19600.00	90.33	359.41	10005.40	9443.10	-1588.60	9574.86	0.00	
19700.00	90.33	359.41	10004.82	9543.09	-1589.64	9673.85	0.00	
19800.00	90.33	359.41	10004.25	9643.09	-1590.67	9772.83	0.00	
19900.00	90.33	359.41	10003.68	9743.08	-1591.70	9871.82	0.00	
20000.00	90.33	359.41	10003.11	9843.07	-1592.73	9970.80	0.00	
20100.00	90.33	359.41	10002.54	9943.06	-1593.76	10069.79	0.00	
20200.00	90.33	359.41	10001.96	10043.06	-1594.79	10168.78	0.00	
20300.00	90.33	359.41	10001.39	10143.05	-1595.82	10267.76	0.00	
20400.00	90.33	359.41	10000.82	10243.04	-1596.85	10366.75	0.00	
20461.15	90.33	359.41	10000.47	10304.19	-1597.48	10427.28	0.00	exit
20500.00	90.33	359.41	10000.25	10343.04	-1597.88	10465.73	0.00	
20541.15	90.33	359.41	10000.00	10384.18	-1598.25	10506.46	0.00	BHL

				Tater Tot 2-35 Sta	te Fed Com	332H						
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	Weigh
"A"	40.00		j 55	btc sc	55.26	19.29	0.76	285	31	1.27	36.43	11,400
"B"				btc sc				0				0
	V	v/8.4#/g mud, 30min Sfc Csg Test	psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	285				11,400
Comparison o		to Minimum Required Ceme										,
Hole	Annular		1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
13 1/2	0.4887	192	276	139	98	9.00	3115	5M				1.94
	l: ./.).c. c		70.04									
aurst Frac Grac	aient(s) for S	segment(s) A, B = , b All > 0.	70, OK.		Site plat (pip	e racks S or E)	as per U.U.1.I	II.D.4.I. not for				
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	Weigh
"A"	29.70	O. aao	p 110	MO-FXL	2.31	1.35	1.39	9,572	1	2.33	2.26	
"B"	23.10		P 110	WO-I AL	2.01	1.00	1.00	0	•	2.00	2.20	0
		v/8.4#/g mud, 30min Sfc Csg Test	ncia: 1 120				Totals:	9,572				284,28
	٧			ded to achieve a top of	0	ft from cu	urface or a	285				overlap.
Hole	Annular			Min		Drilling	Calc					Min Dis
			1 Stage		1 Stage	U		Req'd				
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
8 3/4	0.1005	352	507	964	-47	10.50	3255	5M				0.56
D V Tool(s):			5663				sum of sx	<u>Σ CuFt</u>				Σ%exces
by stage % :		29	86				677	1570				63
Tail cmt										Dural 4		
5 1/2	ше	casing inside the	7 5/8		1 - 1 - 4	Design Fa		1	DO-	Prod 1	- 0	VA/ - 1 l
Segment	#/ft	Grade	440	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	20.00		p 110	Varn	3.65	2.69	2.55	9,072	3	4.28	4.50	- /
"B"	20.00		p 110	vam sprint sf	34.54	2.21	2.63	928	3	4.41	3.71	18,560
"C"	20.00		p 110	Varn	∞	2.44	2.55	10,541	3	4.28	4.09	
"D"				0				0				0
	٧	v/8.4#/g mud, 30min Sfc Csg Test	psig: 1,996				Totals:	20,541				410,82
		The cement v	olume(s) are intend	ded to achieve a top of	9072	ft from su	urface or a	500				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
6 3/4	0.0835	755	1201	962	25	10.50						0.35
Class 'C' tail cm												
#N/A			5 1/2			Design	Factors		٠.	hoose Casi	ng>	
Segment	#/ft	Grade	3 1, 2	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	#/IL	Grade		0.00	TIVE.	Conapse	Duist	0	ചധ്യാ	a-D	a-0	0
"B"				0.00				-				0
В		/a au /		0.00			m . '	0				
	٧	v/8.4#/g mud, 30min Sfc Csg Test			//b1/a		Totals:	0				.0
				his csg, TOC intended	#N/A	ft from su		#N/A				overlap.
Hole	Annular	•	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef es	st top XXXX.								

Carlsbad Field Office 12/13/2023

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

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

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

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

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

CONDITIONS

Action 294171

CONDITIONS

	CODID
Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	294171
	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