Received by UCD. 5/29/2023 5:32:44 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reportso
Well Name: ALEUTIAN 10-3 FED COM	Well Location: T23S / R31E / SEC 10 / SWSW / 32.3127695 / -103.771772	County or Parish/State: EDDY / NM
Well Number: 811H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77046	Unit or CA Name:	Unit or CA Number:
<b>US Well Number:</b> 3001547404	Well Status: Approved Application for Permit to Drill	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP

### **Notice of Intent**

Sundry ID: 2751942

Type of Submission: Notice of Intent

Date Sundry Submitted: 09/18/2023

Date proposed operation will begin: 09/18/2023

Type of Action: APD Change Time Sundry Submitted: 07:57

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name and BHL on the subject well. Please see attached revised C102, drill plan (break test variance included), and directional plan. Permitted Well name: ALEUTIAN 10-3 FED COM 711H Proposed Well name: ALEUTIAN 10-3 FED COM 811H Permitted BHL: LOT 4, 20 FNL, 990 FWL, 3-23S-31E Proposed BHL: LOT 4, 20 FNL, 660 FWL, 3-23S-31E No new leases have been added since approved APD.

**NOI Attachments** 

### **Procedure Description**

5.5in\_x\_20.00lb\_P110EC\_DWC\_C\_IS\_PLUS\_\_\_5\_23\_2023\_20230919112813.pdf

ALEUTIAN\_10\_3\_FED\_COM\_811H\_\_Directional\_Plan\_09\_19\_23\_20230919112813.pdf

ALEUTIAN\_10\_3\_FED\_COM\_811H\_\_20230919112813.pdf

7.625\_29.7lb\_P110EC\_SPRINT\_FJ\_20230919112813.pdf

9.625\_40lb\_J55\_SeAH\_20230919112813.pdf

WA017989761\_ALEUTIAN\_10\_3\_FED\_COM\_811H\_WL\_R1\_20230918195637.pdf

break\_test\_variance\_BOP\_20230918195634.pdf

ŀ	Received by OCD: 9/29/2023 5:32:44-4M Well Name: ALEUTIAN 10-3 FED COM	Well Location: T23S / R31E / SEC 10 / SWSW / 32.3127695 / -103.771772	County or Parish/State: EDDY? of S
	Well Number: 811H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM77046	Unit or CA Name:	Unit or CA Number:
	<b>US Well Number:</b> 3001547404	Well Status: Approved Application for Permit to Drill	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP

### **Conditions of Approval**

### **Specialist Review**

Aleutian\_10\_3\_Fed\_Com\_811H\_Sundry\_ID\_2751942\_20230929052133.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** Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Associate 3

**City: OKLAHOMA CITY** State: OK

Phone: (405) 235-3611

Email address: SHAYDA.OMOUMI@DVN.COM

**Field** 

**Representative Name:** Street Address: City: Phone: Email address:

### **BLM Point of Contact**

BLM POC Name: LONG VO BLM POC Phone: 5752345972 **Disposition:** Approved Signature: Long Vo

BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 09/29/2023

Street Address: 333 W SHERIDAN AVE

State:

Released to Imaging: 10/18/2023 10:07:35 AM

Signed on: SEP 19, 2023 11:29 AM

Zip:

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

	W	ELL LO	DCATIO	N AND ACR	EAGE DEDIC	CATION PLA	T			
PI Number	r		<sup>2</sup> Pool Code	ode <sup>3</sup> Pool Name						
15-4740	04		98123		WC-015	G-08 S2331	02C;WOI	LFCAMP		
ode				<sup>5</sup> Property	Name			<sup>6</sup> Well Number		
3		ALEUTIAN 10-3 FED COM								
GRID No. <sup>8</sup> Operator Name										
		DEV	ON ENEF	RGY PRODUC	CTION COMPA	NY, L.P.		3384.5		
				<sup>10</sup> Surfac	e Location					
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County		
10	23 S	31 E		375	SOUTH	760	WEST	r <b>EDDY</b>		
		пJ	Bottom H	ole Location	If Different Fr	om Surface		÷		
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County		
3	23 S	31 E		20	NORTH	660	WEST	EDDY		
<sup>13</sup> Joint	or Infill <sup>14</sup>	Consolidatio	n Code	le <sup>15</sup> Order No.						
	)15-474( code 3 No. Section 10 Section 3	Section         Township           10         23 S           Section         Township           3         23 S	Section         Township         Range           3         3         3           No.         DEV         3           Section         Township         Range           10         23 S         31 E           I           Section         Township           3         23 S         31 E	XPI Number <sup>2</sup> Pool Code       015-47404     98123       Sode     3       No.     Al       Section     Township       Range     Lot Idn       10     23 S       3     23 S       Section     Township       Section     Township       Section     Township       3     23 S       31 E	API Number         2 Pool Code           015-47404         98123           Sode         5 Property           3         ALEUTIAN 10-3           No.         8 Operator           DEVON ENERGY PRODUC         98123           Section         Township         Range           10         23 S         31 E           Bottom Hole Location         375           Bottom Hole Location         Section           Section         Township         Range           10         23 S         31 E	API Number <sup>2</sup> Pool Code       WC-015         015-47404       98123       WC-015         Sode <sup>5</sup> Property Name         3       ALEUTIAN 10-3 FED COM         No. <sup>8</sup> Operator Name         BEVON ENERGY PRODUCTION COMPA <sup>10</sup> Surface Location         Section         Township       Range       Lot Idn       Feet from the       North/South line         10       23 S       31 E       375       SOUTH         "Bottom Hole Location If Different Fr         Section       Township       Range       Lot Idn       Feet from the       North/South line         3       23 S       31 E       20       NORTH	API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Na         015-47404       98123       WC-015 G-08 S2331         Code <sup>5</sup> Property Name         3       ALEUTIAN 10-3 FED COM         No. <sup>8</sup> Operator Name         BEVON ENERGY PRODUCTION COMPANY, L.P. <sup>10</sup> Surface Location         Section       Township       Range       Lot Idn       Feet from the       North/South line       Feet from the         10       23 S       31 E       375       SOUTH       760         "Bottom Hole Location If Different From Surface         Section         3       23 S       31 E       20       NORTH       660	015-47404     98123     WC-015 G-08 S233102C;WOI       Code     5 Property Name       3     ALEUTIAN 10-3 FED COM       No.     8 Operator Name       DEVON ENERGY PRODUCTION COMPANY, L.P.       " Surface Location       Section     Township     Range     Lot Idn     Feet from the     North/South line     Feet from the     East/West       10     23 S     31 E     375     SOUTH     760     WEST       Bottom Hole Location If Different From Surface       Section       3     23 S     31 E     20     NORTH     660     WEST		

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

	ALEUTIAN 10-3 FED COM 811H	<sup>17</sup> OPERATOR CERTIFICATION
BN89743'54"E 2641.22 FT A N89'43'38"E 2641.27 FT	EL. = 3384.5	I hereby certify that the information contained herein is true and complete
	GEODETIC COORDINATES NAD 83 NMSP EAST	to the best of my knowledge and belief, and that this organization either
BOTTOM	SURFACE LOCATION N.= 477972.37	owns a working interest or unleased mineral interest in the land including
In the second se	E.= 714822.51 LAT. = 32.3127695'N	the proposed bottom hole location or has a right to drill this well at this
	LONG. = 103.7717720'W	location pursuant to a contract with an owner of such a mineral or working
N0022220"W	KICK OFF POINT FIRST TAKE POINT (PPP 1)	interest, or to a voluntary pooling agreement or a compulsory pooling order
0.25	CALLS <u>50' FSL</u> , <u>659' FWL</u> 100' FSL, 760' FWL N.= <u>477646</u> N.= 477696.84	heretofore entered by the division.
SEC 3	$E_{\text{LAT.}} = \frac{714723}{32.31178060}$ $E_{\text{LAT.}} = \frac{714724.06}{32.3120136^{\circ}N}$	Shanda Omount 9/18/2023
	LAT. = $52.3178000$ LONG. = $-103.77218260$ LONG. = $103.7720953$ 'W	Signature Date
19 29 29		Signature
641.	LAST TAKE POINT BOTTOM OF HOLE 100' FNL, 760' FWL 20' FNL, 660' FWL	Shayda Omoumi
	N.= 488048.43 N.= 488128.41 E.= 714661.09 E.= 714660.57	Printed Name
	LAT. = 32.3404682'N LAT. = 32.3406881'N LONG. = 103.7721236'W LONG. = 103.7721239'W	shayda.omoumi@dvn.com
		E-mail Address
D N89'39'53"E B N89'37'59"E 2644.95 FT 2644.95	PPP 2 0' FNL, 657' FWL	
	N.= 482877.35 E.= 714692.55 LAT. = 32.3262539'N	<b>ISURVEYOR CERTIFICATION</b>
С. 99 07 07 07 07 07 04 07 07 07 07 07 04 07 07 04 07 07 04 07 04 07 04 07 04 07 04 07 04 04 04 04 04 04 04 04 04 04 04 04 04	LONG. = 103.7721095'W	I hereby certify that the well location shown on this plat
NMNM 077046NMNM 121955		was plotted from field notes of actual surveys made by
W		me or under my supervision, and that the same is true
SEC. 10		and correct to the best of my belief.
	CORNER COORDINATES TABLE NAD 83 NMSP EAST	SEPTEMBER 15, 2023
도· 응 NMNM 077046 양	A - N.= 488157.68 E.= 716641.21 B - N.= 488145.32 E.= 714000.59	Date of Survey
	C - N.= 485514.03 E.= 714017.69 D - N.= 482873.50 E.= 714035.43	N ME XX
	E - N.= 480233.55 E.= 714050.30 F - N.= 477592.96 E.= 714064.76	
5 SURFACE	G - N.= 477608.56 E.= 716706.45 H - N.= 482888.95 E.= 716676.08	177 STAN
FIP	LEGEND	Signature and Seal of Professional Surveyor:
ES89'39'42"W 2642.31 FT C S89'39'45"W 2644.09 FT	CUARTER LINE	Certificate Number: DE TATONE LARAMILLO, LS 12797
	WELL PATH	TUASUS VEV NO. 8173A

### Received by OCD: 9/29/2023 5:32:44 AM

Intent
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X As Drilled
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API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	ALEUTIAN 10-3 FED COM	811H

### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
М	10	23S	31E		50	SOUTH	659	WEST	EDDY
Latitude					Longitude		NAD		
32.31178060					-103.77218260				83

### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	10	23S	31E		100	SOUTH	660	WEST	EDDY
Latitude 32.3120136				Longitude <b>103.7720</b>	)953			NAD 83	

### Last Take Point (LTP)

UL	Section 3	Township 23S	Range 31E	Lot 4	Feet 100	From N/S NORTH	Feet 660	From E/W WEST	County EDDY
Latitude				U	Longitude			NAD	
32.3404682			103.7	103.7721236			83		

Is this well the defining well for the Horizontal Spacing Unit? N

Is this well an infill well?

Y

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-47396		
Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	ALEUTIAN 10-3 FED COM	611H

KZ 06/29/2018



## **Connection Data Sheet**

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

### PIPE PROPERTIES

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

### **CONNECTION PROPERTIES**

Semi-Premium T&C	
6.300	in.
4.778	in.
4.125	in.
9.250	in.
5.828	sq.in.
100.0%	of pipe
	6.300 4.778 4.125 9.250 5.828 100.0% 100.0%

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

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

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

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

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

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#### 05/23/2023 4:11 PM



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

### DWC Connection Data Notes:

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

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

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05/23/2023 4:11 PM

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Issued on: 09 Dec. 2020 by Logan Van Gorp



## **Connection Data Sheet**

100 % of pipe

OD	Weight	Wall Th.	Grade	API Drift:	Connection
7 5/8 in.	Nominal: 29.70 lb/ft	0.375 in.	P110EC	6.750 in.	VAM <sup>®</sup> SPRINT-FJ
	Plain End: 29.06 ft/lb				

PIPE PROPERTIES			CONNECTION PR	ROPERTIES	
Nominal OD	7.625	in.	Connection Type	Semi-Premium Int	egral Flush
Nominal ID	6.875	in.	Connection OD (nom):	7.654	in.
Nominal Cross Section Area	8.541	sqin.	Connection ID (nom):	6.827	in.
Grade Type	Enhanced C	Collapse	Make-Up Loss	4.055	in.
Min. Yield Strength	125	ksi	Critical Cross Section	6.979	sqin.
Max. Yield Strength	140	ksi	Tension Efficiency	80.0	% of pipe
Min. Ultimate Tensile Strength	135	ksi	Compression Efficiency	80.0	% of pipe
			Internal Pressure Efficiency	80.0	% of pipe

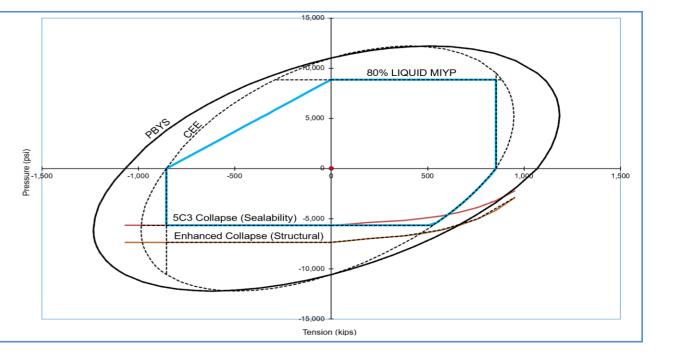
External Pressure Efficiency

CONNECTION PERFORMANCES		
Tensile Yield Strength	854	klb
Compression Resistance	854	klb
Max. Internal Pressure	8,610	psi
Structural Collapse Resistance	7,360	psi
Max. Structural Bending	57	°/100ft
Max. Bending with Sealability	10	°/100ft

	TORQUE VALUES		
)	Min. Make-up torque	15,000	ft.lb
)	Opt. Make-up torque	16,500	ft.lb
i	Max. Make-up torque	18,000	ft.lb
i	Max. Torque with Sealability (MTS)	32,000	ft.lb

\* 87.5% RBW

**VAM® SPRINT-FJ** is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



### Do you need help on this product? - Remember no one knows $\text{VAM}^{\textcircled{B}}$ like $\text{VAM}^{\textcircled{B}}$

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

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

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



# **SěAH** 9.625" 40# .395" J-55

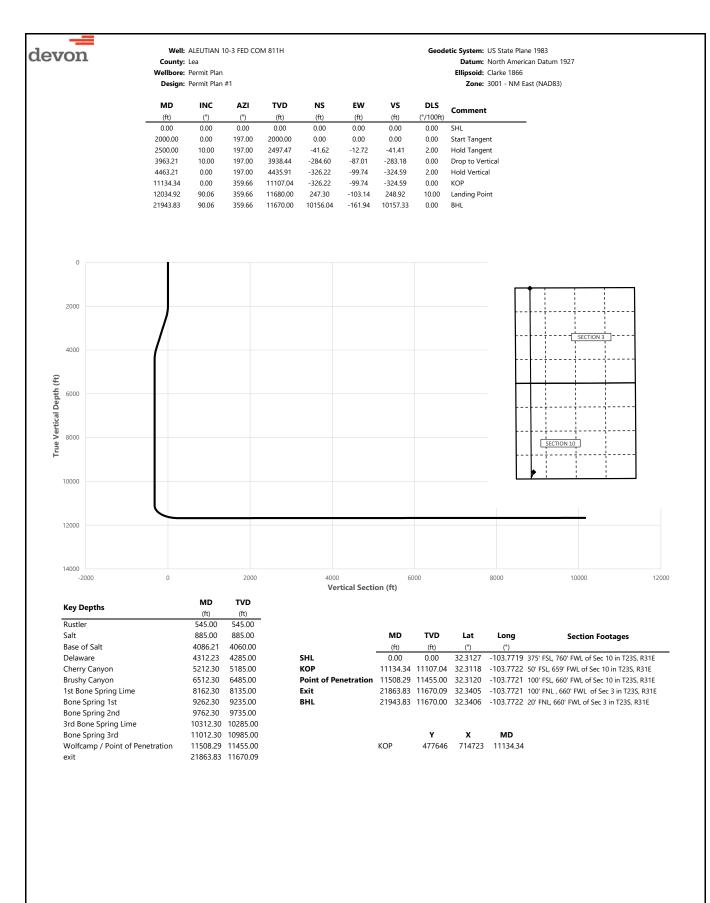
### **Dimensions (Nominal)**

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

### **Performance Properties**

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

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



. =			AL	10.0 555 555	4 0111				Conducto Custom III Conto N 1000
devon		Well: County:		10-3 FED COI	VI 811H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
		Wellbore:	Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	197.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	197.00	200.00	0.00	0.00	0.00	0.00	
	300.00 400.00	0.00 0.00	197.00 197.00	300.00 400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	500.00	0.00	197.00	500.00	0.00	0.00	0.00	0.00	
	545.00	0.00	197.00	545.00	0.00	0.00	0.00	0.00	Rustler
	600.00	0.00	197.00	600.00	0.00	0.00	0.00	0.00	
	700.00 800.00	0.00 0.00	197.00 197.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	800.00	0.00	197.00	800.00 885.00	0.00	0.00	0.00	0.00	Salt
	900.00	0.00	197.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	197.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00 1200.00	0.00 0.00	197.00 197.00	1100.00 1200.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	
	1200.00	0.00	197.00	1200.00	0.00	0.00 0.00	0.00	0.00	
	1400.00	0.00	197.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	197.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00 1700.00	0.00 0.00	197.00 197.00	1600.00 1700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1800.00	0.00	197.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	197.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	197.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00 2200.00	2.00 4.00	197.00 197.00	2099.98 2199.84	-1.67 -6.67	-0.51 -2.04	-1.66 -6.64	2.00 2.00	
	2200.00	4.00 6.00	197.00	2199.84	-0.07	-2.04	-0.04	2.00	
	2400.00	8.00	197.00	2398.70	-26.66	-8.15	-26.53	2.00	
	2500.00	10.00	197.00	2497.47	-41.62	-12.72	-41.41	2.00	Hold Tangent
	2600.00 2700.00	10.00 10.00	197.00 197.00	2595.95 2694.43	-58.23 -74.83	-17.80 -22.88	-57.94 -74.46	0.00 0.00	
	2800.00	10.00	197.00	2792.91	-91.44	-27.96	-90.98	0.00	
	2900.00	10.00	197.00	2891.39	-108.05	-33.03	-107.50	0.00	
	3000.00	10.00	197.00	2989.87	-124.65	-38.11	-124.03	0.00	
	3100.00 3200.00	10.00 10.00	197.00 197.00	3088.35 3186.83	-141.26 -157.86	-43.19 -48.26	-140.55 -157.07	0.00 0.00	
	3300.00	10.00	197.00	3285.31	-174.47	-53.34	-173.60	0.00	
	3400.00	10.00	197.00	3383.79	-191.08	-58.42	-190.12	0.00	
	3500.00 3600.00	10.00 10.00	197.00 197.00	3482.27 3580.75	-207.68 -224.29	-63.49 -68.57	-206.64 -223.17	0.00 0.00	
	3700.00	10.00	197.00	3679.23	-240.89	-73.65	-239.69	0.00	
	3800.00	10.00	197.00	3777.72	-257.50	-78.72	-256.21	0.00	
	3900.00	10.00	197.00	3876.20	-274.11	-83.80	-272.73	0.00	
	3963.21 4000.00	10.00 9.26	197.00 197.00	3938.44 3974.72	-284.60 -290.49	-87.01 -88.81	-283.18 -289.04	0.00 2.00	Drop to Vertical
	4086.21	7.54	197.00	4060.00	-302.54	-92.49	-301.02	2.00	Base of Salt
	4100.00	7.26	197.00	4073.67	-304.23	-93.01	-302.71	2.00	
	4200.00	5.26	197.00	4173.07	-314.67	-96.20	-313.09	2.00	
	4300.00 4312.23	3.26 3.02	197.00 197.00	4272.79 4285.00	-321.78 -322.42	-98.38 -98.57	-320.17 -320.81	2.00 2.00	Delaware
	4400.00	1.26	197.00	4372.71	-325.56	-99.53	-323.93	2.00	
	4463.21	0.00	197.00	4435.91	-326.22	-99.74	-324.59	2.00	Hold Vertical
	4500.00	0.00	359.66	4472.70	-326.22	-99.74	-324.59	0.00	
	4600.00 4700.00	0.00 0.00	359.66 359.66	4572.70 4672.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	4800.00	0.00	359.66	4772.70	-326.22	-99.74	-324.59	0.00	
	4900.00	0.00	359.66	4872.70	-326.22	-99.74	-324.59	0.00	
	5000.00	0.00	359.66	4972.70	-326.22	-99.74	-324.59	0.00	
	5100.00 5200.00	0.00 0.00	359.66 359.66	5072.70 5172.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	5212.30	0.00	359.66	5185.00	-326.22	-99.74	-324.59	0.00	Cherry Canyon
	5300.00	0.00	359.66	5272.70	-326.22	-99.74	-324.59	0.00	
	5400.00	0.00	359.66	5372.70	-326.22	-99.74	-324.59	0.00	
	5500.00 5600.00	0.00 0.00	359.66 359.66	5472.70 5572.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	5700.00	0.00	359.66	5672.70	-326.22	-99.74	-324.59	0.00	
	5800.00	0.00	359.66	5772.70	-326.22	-99.74	-324.59	0.00	
	5900.00	0.00	359.66 359.66	5872.70 5972 70	-326.22	-99.74 -99.74	-324.59 -324.59	0.00	
	6000.00 6100.00	0.00 0.00	359.66 359.66	5972.70 6072.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	6200.00	0.00	359.66	6172.70	-326.22	-99.74	-324.59	0.00	

devon		Well: County:		10-3 FED CON	4811H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plar	1					Ellipsoid: Clarke 1866
			Permit Plar						Zone: 3001 - NM East (NAD83)
	MD (ft)	INC (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	6300.00	0.00	359.66	6272.70	-326.22	-99.74	-324.59	0.00	
	6400.00	0.00	359.66	6372.70	-326.22	-99.74	-324.59	0.00	
	6500.00	0.00	359.66	6472.70	-326.22	-99.74	-324.59	0.00	
	6512.30	0.00	359.66	6485.00	-326.22	-99.74	-324.59	0.00	Brushy Canyon
	6600.00	0.00	359.66	6572.70	-326.22	-99.74	-324.59	0.00	
	6700.00 6800.00	0.00 0.00	359.66 359.66	6672.70 6772.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	6900.00	0.00	359.66	6872.70	-326.22	-99.74	-324.59	0.00	
	7000.00	0.00	359.66	6972.70	-326.22	-99.74	-324.59	0.00	
	7100.00	0.00	359.66	7072.70	-326.22	-99.74	-324.59	0.00	
	7200.00	0.00	359.66	7172.70	-326.22	-99.74	-324.59	0.00	
	7300.00	0.00	359.66	7272.70	-326.22	-99.74	-324.59	0.00	
	7400.00 7500.00	0.00 0.00	359.66 359.66	7372.70 7472.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	7600.00	0.00	359.66	7572.70	-326.22	-99.74	-324.59	0.00	
	7700.00	0.00	359.66	7672.70	-326.22	-99.74	-324.59	0.00	
	7800.00	0.00	359.66	7772.70	-326.22	-99.74	-324.59	0.00	
	7900.00	0.00	359.66	7872.70	-326.22	-99.74	-324.59	0.00	
	8000.00	0.00	359.66	7972.70	-326.22	-99.74	-324.59	0.00	
	8100.00	0.00	359.66	8072.70	-326.22	-99.74	-324.59	0.00	
	8162.30 8200.00	0.00 0.00	359.66 359.66	8135.00 8172.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	1st Bone Spring Lime
	8300.00	0.00	359.66	8272.70	-326.22	-99.74	-324.59	0.00	
	8400.00	0.00	359.66	8372.70	-326.22	-99.74	-324.59	0.00	
	8500.00	0.00	359.66	8472.70	-326.22	-99.74	-324.59	0.00	
	8600.00	0.00	359.66	8572.70	-326.22	-99.74	-324.59	0.00	
	8700.00	0.00	359.66	8672.70	-326.22	-99.74	-324.59	0.00	
	8800.00 8900.00	0.00 0.00	359.66 359.66	8772.70 8872.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	9000.00	0.00	359.66	8972.70	-326.22	-99.74	-324.59	0.00	
	9100.00	0.00	359.66	9072.70	-326.22	-99.74	-324.59	0.00	
	9200.00	0.00	359.66	9172.70	-326.22	-99.74	-324.59	0.00	
	9262.30	0.00	359.66	9235.00	-326.22	-99.74	-324.59	0.00	Bone Spring 1st
	9300.00 9400.00	0.00 0.00	359.66 359.66	9272.70 9372.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	9500.00	0.00	359.66	9472.70	-326.22	-99.74	-324.59	0.00	
	9600.00	0.00	359.66	9572.70	-326.22	-99.74	-324.59	0.00	
	9700.00	0.00	359.66	9672.70	-326.22	-99.74	-324.59	0.00	
	9762.30 9800.00	0.00	359.66	9735.00 9772.70	-326.22 -326.22	-99.74	-324.59 -324.59	0.00 0.00	Bone Spring 2nd
	9800.00 9900.00	0.00 0.00	359.66 359.66	9872.70	-326.22	-99.74 -99.74	-324.59	0.00	
	10000.00	0.00	359.66	9972.70	-326.22	-99.74	-324.59	0.00	
	10100.00	0.00	359.66	10072.70	-326.22	-99.74	-324.59	0.00	
	10200.00	0.00	359.66	10172.70	-326.22	-99.74	-324.59	0.00	
	10300.00	0.00	359.66	10272.70	-326.22	-99.74	-324.59	0.00	
	10312.30 10400.00	0.00 0.00	359.66 359.66	10285.00 10372.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	3rd Bone Spring Lime
	10500.00	0.00	359.66	10472.70	-326.22	-99.74	-324.59	0.00	
	10600.00	0.00	359.66	10572.70	-326.22	-99.74	-324.59	0.00	
	10700.00	0.00	359.66	10672.70	-326.22	-99.74	-324.59	0.00	
	10800.00	0.00	359.66	10772.70	-326.22	-99.74	-324.59	0.00	
	10900.00	0.00	359.66	10872.70	-326.22	-99.74	-324.59 -324.59	0.00	
	11000.00 11012.30	0.00 0.00	359.66 359.66	10972.70 10985.00	-326.22 -326.22	-99.74 -99.74	-324.59	0.00 0.00	Bone Spring 3rd
	11100.00	0.00	359.66	11072.70	-326.22	-99.74	-324.59	0.00	bone opining one
	11134.34	0.00	359.66	11107.04	-326.22	-99.74	-324.59	0.00	KOP
	11200.00	6.57	359.66	11172.56	-322.46	-99.76	-320.83	10.00	
	11300.00	16.57	359.66	11270.40	-302.44	-99.88	-300.81	10.00	
	11400.00 11500.00	26.57 36.57	359.66 359.66	11363.28 11448.38	-265.73 -213.45	-100.10 -100.41	-264.10 -211.82	10.00 10.00	
	11500.00	36.57 37.39	359.66 359.66	11448.38 11455.00	-213.45 -208.47	-100.41 -100.44	-211.82 -206.84	10.00	Wolfcamp / Point of Penetration
	11600.00	46.57	359.66	11523.10	-147.19	-100.80	-145.56	10.00	
	11700.00	56.57	359.66	11585.19	-68.96	-101.26	-67.33	10.00	
	11800.00	66.57	359.66	11632.74	18.87	-101.79	20.49	10.00	
	11900.00	76.57	359.66	11664.32	113.61	-102.35	115.23	10.00	
	12000.00	86.57	359.66	11678.97	212.41	-102.94	214.02	10.00	Landing Point
	12034.92 12100.00	90.06 90.06	359.66 359.66	11680.00 11679.93	247.30 312.38	-103.14 -103.53	248.92 313.99	10.00 0.00	Landing Point
	12200.00	90.06	359.66	11679.83	412.38	-104.12	413.99	0.00	
	12300.00	90.06	359.66	11679.73	512.38	-104.71	513.98	0.00	

. —		161-11			4 811				Goodatic Suctamy LIS State Plane 1092
devon		Well: County:		10-3 FED COM	VI 811H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plar	ı					Ellipsoid: Clarke 1866
		Design:	Permit Plar	ו #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	comment
	12400.00 12500.00	90.06 90.06	359.66 359.66	11679.63 11679.53	612.38 712.38	-105.31 -105.90	613.98 713.97	0.00 0.00	
	12600.00	90.06	359.66	11679.43	812.37	-106.50	813.97	0.00	
	12700.00	90.06	359.66	11679.33	912.37	-107.09	913.96	0.00	
	12800.00 12900.00	90.06 90.06	359.66 359.66	11679.23 11679.13	1012.37 1112.37	-107.68 -108.28	1013.96 1113.95	0.00 0.00	
	13000.00	90.06	359.66	11679.03	1212.37	-108.87	1213.95	0.00	
	13100.00	90.06	359.66	11678.93	1312.37	-109.47	1313.94	0.00	
	13200.00 13300.00	90.06 90.06	359.66 359.66	11678.83 11678.72	1412.36 1512.36	-110.06 -110.65	1413.94 1513.93	0.00 0.00	
	13400.00	90.06	359.66	11678.62	1612.36	-111.25	1613.93	0.00	
	13500.00	90.06	359.66	11678.52	1712.36	-111.84	1713.92	0.00	
	13600.00 13700.00	90.06	359.66	11678.42	1812.36 1912.35	-112.44	1813.92	0.00	
	13700.00	90.06 90.06	359.66 359.66	11678.32 11678.22	2012.35	-113.03 -113.62	1913.91 2013.91	0.00 0.00	
	13900.00	90.06	359.66	11678.12	2112.35	-114.22	2113.90	0.00	
	14000.00	90.06	359.66	11678.02	2212.35	-114.81	2213.90	0.00	
	14100.00 14200.00	90.06 90.06	359.66 359.66	11677.92 11677.82	2312.35 2412.35	-115.41 -116.00	2313.89 2413.89	0.00 0.00	
	14200.00	90.06 90.06	359.66	11677.82	2412.35 2512.34	-116.00	2413.89 2513.88	0.00	
	14400.00	90.06	359.66	11677.62	2612.34	-117.19	2613.88	0.00	
	14500.00	90.06	359.66	11677.52	2712.34	-117.78	2713.87	0.00	
	14600.00 14700.00	90.06 90.06	359.66 359.66	11677.41 11677.31	2812.34 2912.34	-118.37 -118.97	2813.87 2913.86	0.00 0.00	
	14800.00	90.06	359.66	11677.21	3012.33	-119.56	3013.86	0.00	
	14900.00	90.06	359.66	11677.11	3112.33	-120.16	3113.85	0.00	
	15000.00 15100.00	90.06 90.06	359.66 359.66	11677.01 11676.91	3212.33 3312.33	-120.75 -121.34	3213.85 3313.84	0.00 0.00	
	15200.00	90.06	359.66	11676.81	3412.33	-121.94	3413.84	0.00	
	15300.00	90.06	359.66	11676.71	3512.33	-122.53	3513.83	0.00	
	15400.00 15500.00	90.06 90.06	359.66 359.66	11676.61 11676.51	3612.32 3712.32	-123.13 -123.72	3613.83 3713.82	0.00 0.00	
	15600.00	90.06	359.66	11676.41	3812.32	-123.72	3813.82	0.00	
	15700.00	90.06	359.66	11676.31	3912.32	-124.91	3913.81	0.00	
	15800.00	90.06	359.66	11676.20	4012.32	-125.50	4013.81	0.00	
	15900.00 16000.00	90.06 90.06	359.66 359.66	11676.10 11676.00	4112.31 4212.31	-126.10 -126.69	4113.80 4213.80	0.00 0.00	
	16100.00	90.06	359.66	11675.90	4312.31	-127.28	4313.79	0.00	
	16200.00	90.06	359.66	11675.80	4412.31	-127.88	4413.79	0.00	
	16300.00 16400.00	90.06 90.06	359.66 359.66	11675.70 11675.60	4512.31 4612.31	-128.47 -129.07	4513.78 4613.78	0.00 0.00	
	16500.00	90.06	359.66	11675.50	4712.30	-129.66	4713.77	0.00	
	16600.00	90.06	359.66	11675.40	4812.30	-130.25	4813.77	0.00	
	16700.00 16800.00	90.06 90.06	359.66 359.66	11675.30 11675.20	4912.30 5012.30	-130.85 -131.44	4913.76 5013.76	0.00 0.00	
	16900.00	90.06	359.66	11675.10	5112.30	-132.04	5113.75	0.00	
	17000.00	90.06	359.66	11675.00	5212.29	-132.63	5213.75	0.00	
	17100.00 17200.00	90.06 90.06	359.66 359.66	11674.89 11674.79	5312.29 5412.29	-133.22 -133.82	5313.74 5413.74	0.00	
	17200.00	90.06 90.06	359.66 359.66	11674.79	5412.29 5512.29	-133.82 -134.41	5413.74 5513.73	0.00 0.00	
	17400.00	90.06	359.66	11674.59	5612.29	-135.00	5613.73	0.00	
	17500.00	90.06	359.66	11674.49	5712.29	-135.60	5713.72	0.00	
	17600.00 17700.00	90.06 90.06	359.66 359.66	11674.39 11674.29	5812.28 5912.28	-136.19 -136.79	5813.72 5913.71	0.00 0.00	
	17800.00	90.06	359.66	11674.19	6012.28	-137.38	6013.71	0.00	
	17900.00	90.06	359.66	11674.09	6112.28	-137.97	6113.70	0.00	
	18000.00 18100.00	90.06 90.06	359.66 359.66	11673.99	6212.28 6312.27	-138.57 -139.16	6213.70 6313.69	0.00	
	18100.00	90.06 90.06	359.66	11673.89 11673.79	6312.27 6412.27	-139.16	6413.69	0.00 0.00	
	18300.00	90.06	359.66	11673.69	6512.27	-140.35	6513.68	0.00	
	18400.00	90.06	359.66	11673.58	6612.27	-140.94	6613.68	0.00	
	18500.00 18600.00	90.06 90.06	359.66 359.66	11673.48 11673.38	6712.27 6812.27	-141.54 -142.13	6713.67 6813.67	0.00 0.00	
	18700.00	90.06	359.66	11673.28	6912.26	-142.13	6913.66	0.00	
	18800.00	90.06	359.66	11673.18	7012.26	-143.32	7013.66	0.00	
	18900.00 19000.00	90.06 90.06	359.66 359.66	11673.08 11672.98	7112.26 7212.26	-143.91 -144.51	7113.65	0.00	
	19000.00	90.06 90.06	359.66 359.66	11672.98 11672.88	7212.26	-144.51 -145.10	7213.65 7313.64	0.00 0.00	
	19200.00	90.06	359.66	11672.78	7412.25	-145.70	7413.64	0.00	
	19300.00	90.06	359.66	11672.68	7512.25	-146.29	7513.63	0.00	

1		Well:	ALEUTIAN	10-3 FED COI	M 811H				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 19
		-	Permit Plar	ı					Ellipsoid: Clarke 1866
		Design:	Permit Plar	1 #1		Zone: 3001 - NM East (NAD83)			
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	19400.00	90.06	359.66	11672.58	7612.25	-146.88	7613.63	0.00	
	19500.00	90.06	359.66	11672.48	7712.25	-147.48	7713.62	0.00	
	19600.00	90.06	359.66	11672.38	7812.25	-148.07	7813.62	0.00	
	19700.00	90.06	359.66	11672.27	7912.25	-148.67	7913.61	0.00	
	19800.00	90.06	359.66	11672.17	8012.24	-149.26	8013.61	0.00	
	19900.00	90.06	359.66	11672.07	8112.24	-149.85	8113.60	0.00	
	20000.00	90.06	359.66	11671.97	8212.24	-150.45	8213.60	0.00	
	20100.00	90.06	359.66	11671.87	8312.24	-151.04	8313.59	0.00	
	20200.00	90.06	359.66	11671.77	8412.24	-151.64	8413.59	0.00	
	20300.00	90.06	359.66	11671.67	8512.23	-152.23	8513.58	0.00	
	20400.00	90.06	359.66	11671.57	8612.23	-152.82	8613.57	0.00	
	20500.00	90.06	359.66	11671.47	8712.23	-153.42	8713.57	0.00	
	20600.00	90.06	359.66	11671.37	8812.23	-154.01	8813.56	0.00	
	20700.00	90.06	359.66	11671.27	8912.23	-154.60	8913.56	0.00	
	20800.00	90.06	359.66	11671.17	9012.23	-155.20	9013.55	0.00	
	20900.00	90.06	359.66	11671.07	9112.22	-155.79	9113.55	0.00	
	21000.00	90.06	359.66	11670.96	9212.22	-156.39	9213.54	0.00	
	21100.00	90.06	359.66	11670.86	9312.22	-156.98	9313.54	0.00	
	21200.00	90.06	359.66	11670.76	9412.22	-157.57	9413.53	0.00	
	21300.00	90.06	359.66	11670.66	9512.22	-158.17	9513.53	0.00	
	21400.00	90.06	359.66	11670.56	9612.21	-158.76	9613.52	0.00	
	21500.00	90.06	359.66	11670.46	9712.21	-159.36	9713.52	0.00	
	21600.00	90.06	359.66	11670.36	9812.21	-159.95	9813.51	0.00	
	21700.00	90.06	359.66	11670.26	9912.21	-160.54	9913.51	0.00	
	21800.00	90.06	359.66	11670.16	10012.21	-161.14	10013.50	0.00	
	21863.83	90.06	359.66	11670.09	10076.04	-161.52	10077.34	0.00	exit
	21900.00	90.06	359.66	11670.06	10112.21	-161.73	10113.50	0.00	
	21943.83	90.06	359.66	11670.00	10156.04	-161.94	10157.33	0.00	BHL

### 1. Geologic Formations

TVD of target	11670	Pilot hole depth	N/A
MD at TD:	21944	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	545		
Salt	885		
Base of Salt	4060		
Delaware	4285		
Cherry Canyon	5185		
Brushy Canyon	6485		
1st Bone Spring Lime	8135		
Bone Spring 1st	9235		
Bone Spring 2nd	9735		
3rd Bone Spring Lime	10285		
Bone Spring 3rd	10985		
Wolfcamp	11455		

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

					Casing	Interval	Casing Interval	
Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
12 1/4	9 5/8	40	J-55	BTC	0	625	0	625
8 3/4	7 5/8	29.7	P110	Sprint FJ	0	11034	0	11034
6 3/4	5 1/2	20	P110	DWC/C-IS & Sprint FJ	0	21944	0	11670

#### 2. Casing Program (Primary Design)

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

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 DWC/C IS (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	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	223	Surf	13.2	1.44 Lead: Class C Cement + additive	
Int 1	364	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	418	6512	13.2	1.44	Tail: Class H / C + additives
Production	62	9134	9	3.27	Lead: Class H /C + additives
Froduction	690	11134	13.2	1.44	Tail: Class H / C + additives

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		*	Tested to:
			An	nular	Х	50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	Х	
Int I	13-3/0	5101	Pipe	e Ram		5M
			Doub	le Ram	Х	5101
			Other*			
		5) (	Annular (5M)		Х	50% of rated working pressure
Production	13-5/8"		Blind Ram		Х	- 5M
Floaucuoli		5M	Pipe Ram Double Ram			
					Х	5101
			Other*			
			Annul	ar (5M)		
			Bline	d Ram		
			Pipe	e Ram		
			Doub	le Ram		
			Other*			1
A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schem	atic.
Y A variance is requested to a	A variance is requested to run a 5 M annular on a 10M system					

### 4. Pressure Control Equipment (Three String Design)

### ALEUTIAN 10-3 FED COM 811H

### 5. Mud Program (Three String Design)

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

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

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

### 6. Logging and Testing Procedures

Logging, Co	Logging, Coring and Testing					
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the					
Х	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.					

Additiona	l logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6372
Abnormal temperature	No

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

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

### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments

- X Directional Plan
- Other, describe

### Section 2 - Blowout Preventer Testing Procedure

### Variance Request

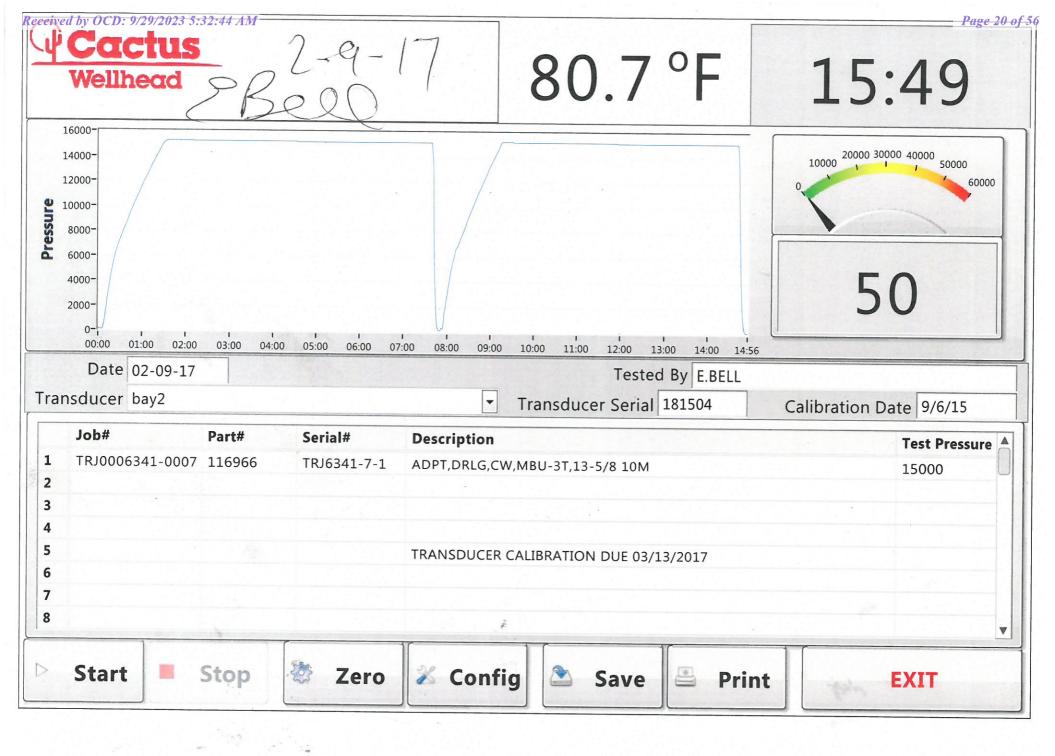
Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



Received by MCD:Sy29/2023 5:32:44 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reportso 09/27/2023
Well Name: ALEUTIAN 10-3 FED COM	Well Location: T23S / R31E / SEC 10 / SWSW / 32.3127695 / -103.771772	County or Parish/State: EDDY / NM
Well Number: 711H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77046	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001547404	<b>Well Status:</b> Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

### **Notice of Intent**

Sundry ID: 2751942

Type of Submission: Notice of Intent

Date Sundry Submitted: 09/18/2023

Date proposed operation will begin: 09/18/2023

Type of Action: APD Change Time Sundry Submitted: 07:57

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name and BHL on the subject well. Please see attached revised C102, drill plan (break test variance included), and directional plan. Permitted Well name: ALEUTIAN 10-3 FED COM 711H Proposed Well name: ALEUTIAN 10-3 FED COM 811H Permitted BHL: LOT 4, 20 FNL, 990 FWL, 3-23S-31E Proposed BHL: LOT 4, 20 FNL, 660 FWL, 3-23S-31E No new leases have been added since approved APD.

**NOI Attachments** 

### **Procedure Description**

5.5in\_x\_20.00lb\_P110EC\_DWC\_C\_IS\_PLUS\_\_\_5\_23\_2023\_20230919112813.pdf

ALEUTIAN\_10\_3\_FED\_COM\_811H\_\_Directional\_Plan\_09\_19\_23\_20230919112813.pdf

ALEUTIAN\_10\_3\_FED\_COM\_811H\_\_20230919112813.pdf

7.625\_29.7lb\_P110EC\_SPRINT\_FJ\_20230919112813.pdf

9.625\_40lb\_J55\_SeAH\_20230919112813.pdf

WA017989761\_ALEUTIAN\_10\_3\_FED\_COM\_811H\_WL\_R1\_20230918195637.pdf

break\_test\_variance\_BOP\_20230918195634.pdf

Received by OCD: 9/29/2023 5:32:44 AM Well Name: ALEUTIAN 10-3 FED COM	Well Location: T23S / R31E / SEC 10 / SWSW / 32.3127695 / -103.771772	County or Parish/State: EDD ?? of \$6
Well Number: 711H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77046	Unit or CA Name:	Unit or CA Number:
<b>US Well Number:</b> 3001547404	Well Status: Approved Application for Permit to Drill	<b>Operator:</b> 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 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: Phone: Email address:

Zip:

Signed on: SEP 19, 2023 11:29 AM

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP NMNM77046
LOCATION:	Section 10, T.23 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Aleutian 10-3 Fed Com 811H
SURFACE HOLE FOOTAGE:	375'/S & 760'/W
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 660'/W
ATS/API ID:	3001547404
APD ID:	10400058425
Sundry ID:	2751942

### COA

H2S	Yes		
Potash	Secretary 🔽		
Cave/Karst Potential	Low		
Cave/Karst Potential	Critical		
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibow	/  ▼	
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 Unit
Requirements	Disposal/Injection		
Special	Batch Sundry		
Requirements			
Special	Break Testing	□ Offline	Casing
Requirements	_	Cementing	Clearance
Variance		_	

### A. HYDROGEN SULFIDE

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

### **B.** CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 725 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 12 1/4 inch in diameter.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 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 6485' (418 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 364 sxs Class C)

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.</u>

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

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 Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

### **Option 1:**

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. Annular which shall be tested to **5000 (5M)** 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 OOGO2.III.A.2.i must be followed.

### **D. SPECIAL REQUIREMENT (S)**

### **Communitization Agreement**

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

### **BOPE Break Testing Variance (Approved)**

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- 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 DWC/C IS.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" 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)

### $\boxtimes$ Eddy County

**EMAIL** or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822

# Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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

- 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 OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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 9/27/2023

Page	33	01	56	i

<i>Received by OCD: 9/29/2023</i>	J:52:44 AM					Page 33
Form 3160-5 (June 2019) D	UNITED STATES EPARTMENT OF THE INTER	ARTMENT OF THE INTERIOR			FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021	
BU	REAU OF LAND MANAGEN	MENT			5. Lease Serial No. NMNM77046	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.			6. If Indian, Allottee or	Tribe Name		
SUBMIT I	NTRIPLICATE - Other instructions	on page 2			7. If Unit of CA/Agreen	nent, Name and/or No.
1. Type of Well					9 Wall Nama and Na	
	s Well Other				A A A A A A A A A A A A A A A A A A A	ALEUTIAN 10-3 FED COM/711H
2. Name of Operator DEVON ENE	RGY PRODUCTION COMPANY L	P			9. API Well No. 300154	47404
3a. Address 333 WEST SHERIDA		one No. <i>(inclue</i> 235-3611	de area cod	e)	10. Field and Pool or Ex WC 015G 08 S2331	02C/WOLFCAMP
4. Location of Well <i>(Footage, Sec., T</i> SEC 10/T23S/R31E/NMP	T.,R.,M., or Survey Description)				11. Country or Parish, S EDDY/NM	itate
12. CI	HECK THE APPROPRIATE BOX(ES	) TO INDICAT	E NATURI	E OF NOTI	CE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION			TY	PE OF ACT	TION	
✓ Notice of Intent	Acidize	Deepen Hydraulic I	racturing		uction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Const			mplete	Other
Final Abandonment Notice	Change Plans	Plug and A Plug Back	bandon		oorarily Abandon r Disposal	
completion of the involved opera completed. Final Abandonment 1 is ready for final inspection.) Devon Energy Production C revised C102, drill plan (bre Permitted Well name: ALEU Proposed Well name: ALEU Permitted BHL: LOT 4, 20 F Proposed BHL: LOT 4, 20 F No new leases have been a	ITIAN 10-3 FED COM 811H NL, 990 FWL, 3-23S-31E NL, 660 FWL, 3-23S-31E	tiple completio uirements, inclu sts to change actional plan.	n or recomp iding reclar the well n	bletion in a I nation, have	new interval, a Form 316 been completed and the HL on the subject well	60-4 must be filed once testing has b e operator has detennined that the sin
SHAYDA OMOUMI / Ph: (405) 2		Title	Regulator	ry Complia	nce Associate 3	
Signature		Date			09/19/202	23
	THE SPACE FOR	R FEDERA	L OR ST	ATE OF	ICE USE	
Approved by			Title			ate
	ached. Approval of this notice does no or equitable title to those rights in the s		Office		Da	

which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any 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.

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

### SPECIFIC INSTRUCTIONS

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

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

### NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

### **Additional Information**

### Location of Well

0. SHL: SWSW / 375 FSL / 760 FWL / TWSP: 23S / RANGE: 31E / SECTION: 10 / LAT: 32.3127695 / LONG: -103.771772 (TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 100 FSL / 990 FWL / TWSP: 23S / RANGE: 31E / SECTION: 10 / LAT: 32.3120142 / LONG: -103.7710273 (TVD: 11341 feet, MD: 11359 feet ) BHL: LOT 4 / 20 FNL / 990 FWL / TWSP: 23S / RANGE: 31E / SECTION: 3 / LAT: 32.3406877 / LONG: -103.7710556 (TVD: 11680 feet, MD: 21928 feet )



## **Connection Data Sheet**

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

### PIPE PROPERTIES

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

#### **CONNECTION PROPERTIES**

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

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

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

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

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

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

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

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Issued on: 08 Jul. 2020 by Wesley Ott



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

PIPE PROPERTIES		
lominal OD	5.500	in.
lominal ID	4.778	in.
Iominal Cross Section Area	5.828	sqin.
Grade Type	Н	igh Yield
lin. Yield Strength	125	ksi
lax. Yield Strength	140	ksi
lin. Ultimate Tensile Strength	135	ksi
	Iominal OD Iominal ID Iominal Cross Section Area Grade Type Iin. Yield Strength Iax. Yield Strength	Iominal OD5.500Iominal ID4.778Iominal Cross Section Area5.828Grade TypeHIin. Yield Strength125Iax. Yield Strength140

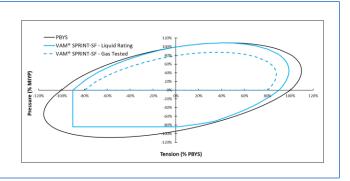
CONNECTIO	ON PROPERTIES	
Connection Type	Semi-Premium Integral S	Semi-Flush
Connection OD (nom):	5.783	in.
Connection ID (nom):	4.717	in.
Make-Up Loss	5.965	in.
Critical Cross Section	5.244	sqin.
Tension Efficiency	90.0	% of pipe
Compression Efficiency	90.0	% of pipe
Internal Pressure Efficiency	100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

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

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

\* 87.5% RBW

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



#### Do you need help on this product? - Remember no one knows VAM<sup>®</sup> like VAM<sup>®</sup>

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubal@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



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

### DWC Connection Data Notes:

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

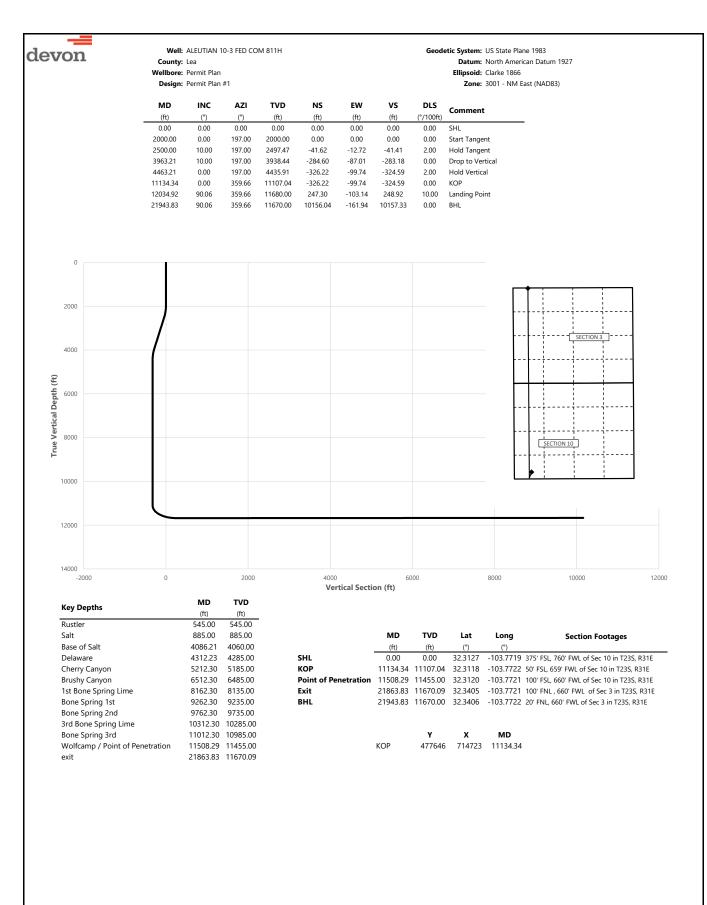
Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained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

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devon		Well: County:		10-3 FED COI	VI 811H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
		Wellbore:	Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	197.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	197.00	200.00	0.00	0.00	0.00	0.00	
	300.00 400.00	0.00 0.00	197.00 197.00	300.00 400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	500.00	0.00	197.00	500.00	0.00	0.00	0.00	0.00	
	545.00	0.00	197.00	545.00	0.00	0.00	0.00	0.00	Rustler
	600.00	0.00	197.00	600.00	0.00	0.00	0.00	0.00	
	700.00 800.00	0.00 0.00	197.00 197.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	800.00	0.00	197.00	800.00 885.00	0.00	0.00	0.00	0.00	Salt
	900.00	0.00	197.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	197.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00 1200.00	0.00 0.00	197.00 197.00	1100.00 1200.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	
	1200.00	0.00	197.00	1200.00	0.00	0.00 0.00	0.00	0.00	
	1400.00	0.00	197.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	197.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00 1700.00	0.00 0.00	197.00 197.00	1600.00 1700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1800.00	0.00	197.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	197.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	197.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00 2200.00	2.00 4.00	197.00 197.00	2099.98 2199.84	-1.67 -6.67	-0.51 -2.04	-1.66 -6.64	2.00 2.00	
	2200.00	4.00 6.00	197.00	2199.84	-0.07	-2.04	-0.04	2.00	
	2400.00	8.00	197.00	2398.70	-26.66	-8.15	-26.53	2.00	
	2500.00	10.00	197.00	2497.47	-41.62	-12.72	-41.41	2.00	Hold Tangent
	2600.00 2700.00	10.00 10.00	197.00 197.00	2595.95 2694.43	-58.23 -74.83	-17.80 -22.88	-57.94 -74.46	0.00 0.00	
	2800.00	10.00	197.00	2792.91	-91.44	-27.96	-90.98	0.00	
	2900.00	10.00	197.00	2891.39	-108.05	-33.03	-107.50	0.00	
	3000.00	10.00	197.00	2989.87	-124.65	-38.11	-124.03	0.00	
	3100.00 3200.00	10.00 10.00	197.00 197.00	3088.35 3186.83	-141.26 -157.86	-43.19 -48.26	-140.55 -157.07	0.00 0.00	
	3300.00	10.00	197.00	3285.31	-174.47	-53.34	-173.60	0.00	
	3400.00	10.00	197.00	3383.79	-191.08	-58.42	-190.12	0.00	
	3500.00 3600.00	10.00 10.00	197.00 197.00	3482.27 3580.75	-207.68 -224.29	-63.49 -68.57	-206.64 -223.17	0.00 0.00	
	3700.00	10.00	197.00	3679.23	-240.89	-73.65	-239.69	0.00	
	3800.00	10.00	197.00	3777.72	-257.50	-78.72	-256.21	0.00	
	3900.00	10.00	197.00	3876.20	-274.11	-83.80	-272.73	0.00	
	3963.21 4000.00	10.00 9.26	197.00 197.00	3938.44 3974.72	-284.60 -290.49	-87.01 -88.81	-283.18 -289.04	0.00 2.00	Drop to Vertical
	4086.21	7.54	197.00	4060.00	-302.54	-92.49	-301.02	2.00	Base of Salt
	4100.00	7.26	197.00	4073.67	-304.23	-93.01	-302.71	2.00	
	4200.00	5.26	197.00	4173.07	-314.67	-96.20	-313.09	2.00	
	4300.00 4312.23	3.26 3.02	197.00 197.00	4272.79 4285.00	-321.78 -322.42	-98.38 -98.57	-320.17 -320.81	2.00 2.00	Delaware
	4400.00	1.26	197.00	4372.71	-325.56	-99.53	-323.93	2.00	
	4463.21	0.00	197.00	4435.91	-326.22	-99.74	-324.59	2.00	Hold Vertical
	4500.00	0.00	359.66	4472.70	-326.22	-99.74	-324.59	0.00	
	4600.00 4700.00	0.00 0.00	359.66 359.66	4572.70 4672.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	4800.00	0.00	359.66	4772.70	-326.22	-99.74	-324.59	0.00	
	4900.00	0.00	359.66	4872.70	-326.22	-99.74	-324.59	0.00	
	5000.00	0.00	359.66	4972.70	-326.22	-99.74	-324.59	0.00	
	5100.00 5200.00	0.00 0.00	359.66 359.66	5072.70 5172.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	5212.30	0.00	359.66	5185.00	-326.22	-99.74	-324.59	0.00	Cherry Canyon
	5300.00	0.00	359.66	5272.70	-326.22	-99.74	-324.59	0.00	
	5400.00	0.00	359.66	5372.70	-326.22	-99.74	-324.59	0.00	
	5500.00 5600.00	0.00 0.00	359.66 359.66	5472.70 5572.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	5700.00	0.00	359.66	5672.70	-326.22	-99.74	-324.59	0.00	
	5800.00	0.00	359.66	5772.70	-326.22	-99.74	-324.59	0.00	
	5900.00	0.00	359.66 359.66	5872.70 5972 70	-326.22	-99.74 -99.74	-324.59 -324.59	0.00	
	6000.00 6100.00	0.00 0.00	359.66 359.66	5972.70 6072.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	6200.00	0.00	359.66	6172.70	-326.22	-99.74	-324.59	0.00	

devon		Well: County:		10-3 FED CON	4811H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plar	1					Ellipsoid: Clarke 1866
			Permit Plar						Zone: 3001 - NM East (NAD83)
	MD (ft)	INC (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	6300.00	0.00	359.66	6272.70	-326.22	-99.74	-324.59	0.00	
	6400.00	0.00	359.66	6372.70	-326.22	-99.74	-324.59	0.00	
	6500.00	0.00	359.66	6472.70	-326.22	-99.74	-324.59	0.00	
	6512.30	0.00	359.66	6485.00	-326.22	-99.74	-324.59	0.00	Brushy Canyon
	6600.00	0.00	359.66	6572.70	-326.22	-99.74	-324.59	0.00	
	6700.00 6800.00	0.00 0.00	359.66 359.66	6672.70 6772.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	6900.00	0.00	359.66	6872.70	-326.22	-99.74	-324.59	0.00	
	7000.00	0.00	359.66	6972.70	-326.22	-99.74	-324.59	0.00	
	7100.00	0.00	359.66	7072.70	-326.22	-99.74	-324.59	0.00	
	7200.00	0.00	359.66	7172.70	-326.22	-99.74	-324.59	0.00	
	7300.00	0.00	359.66	7272.70	-326.22	-99.74	-324.59	0.00	
	7400.00 7500.00	0.00 0.00	359.66 359.66	7372.70 7472.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	7600.00	0.00	359.66	7572.70	-326.22	-99.74	-324.59	0.00	
	7700.00	0.00	359.66	7672.70	-326.22	-99.74	-324.59	0.00	
	7800.00	0.00	359.66	7772.70	-326.22	-99.74	-324.59	0.00	
	7900.00	0.00	359.66	7872.70	-326.22	-99.74	-324.59	0.00	
	8000.00	0.00	359.66	7972.70	-326.22	-99.74	-324.59	0.00	
	8100.00	0.00	359.66	8072.70	-326.22	-99.74	-324.59	0.00	
	8162.30 8200.00	0.00 0.00	359.66 359.66	8135.00 8172.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	1st Bone Spring Lime
	8300.00	0.00	359.66	8272.70	-326.22	-99.74	-324.59	0.00	
	8400.00	0.00	359.66	8372.70	-326.22	-99.74	-324.59	0.00	
	8500.00	0.00	359.66	8472.70	-326.22	-99.74	-324.59	0.00	
	8600.00	0.00	359.66	8572.70	-326.22	-99.74	-324.59	0.00	
	8700.00	0.00	359.66	8672.70	-326.22	-99.74	-324.59	0.00	
	8800.00 8900.00	0.00 0.00	359.66 359.66	8772.70 8872.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	9000.00	0.00	359.66	8972.70	-326.22	-99.74	-324.59	0.00	
	9100.00	0.00	359.66	9072.70	-326.22	-99.74	-324.59	0.00	
	9200.00	0.00	359.66	9172.70	-326.22	-99.74	-324.59	0.00	
	9262.30	0.00	359.66	9235.00	-326.22	-99.74	-324.59	0.00	Bone Spring 1st
	9300.00 9400.00	0.00 0.00	359.66 359.66	9272.70 9372.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	
	9500.00	0.00	359.66	9472.70	-326.22	-99.74	-324.59	0.00	
	9600.00	0.00	359.66	9572.70	-326.22	-99.74	-324.59	0.00	
	9700.00	0.00	359.66	9672.70	-326.22	-99.74	-324.59	0.00	
	9762.30 9800.00	0.00	359.66	9735.00 9772.70	-326.22 -326.22	-99.74	-324.59 -324.59	0.00 0.00	Bone Spring 2nd
	9800.00 9900.00	0.00 0.00	359.66 359.66	9872.70	-326.22	-99.74 -99.74	-324.59	0.00	
	10000.00	0.00	359.66	9972.70	-326.22	-99.74	-324.59	0.00	
	10100.00	0.00	359.66	10072.70	-326.22	-99.74	-324.59	0.00	
	10200.00	0.00	359.66	10172.70	-326.22	-99.74	-324.59	0.00	
	10300.00	0.00	359.66	10272.70	-326.22	-99.74	-324.59	0.00	
	10312.30 10400.00	0.00 0.00	359.66 359.66	10285.00 10372.70	-326.22 -326.22	-99.74 -99.74	-324.59 -324.59	0.00 0.00	3rd Bone Spring Lime
	10500.00	0.00	359.66	10472.70	-326.22	-99.74	-324.59	0.00	
	10600.00	0.00	359.66	10572.70	-326.22	-99.74	-324.59	0.00	
	10700.00	0.00	359.66	10672.70	-326.22	-99.74	-324.59	0.00	
	10800.00	0.00	359.66	10772.70	-326.22	-99.74	-324.59	0.00	
	10900.00	0.00	359.66	10872.70	-326.22	-99.74	-324.59 -324.59	0.00	
	11000.00 11012.30	0.00 0.00	359.66 359.66	10972.70 10985.00	-326.22 -326.22	-99.74 -99.74	-324.59	0.00 0.00	Bone Spring 3rd
	11100.00	0.00	359.66	11072.70	-326.22	-99.74	-324.59	0.00	bone opining one
	11134.34	0.00	359.66	11107.04	-326.22	-99.74	-324.59	0.00	KOP
	11200.00	6.57	359.66	11172.56	-322.46	-99.76	-320.83	10.00	
	11300.00	16.57	359.66	11270.40	-302.44	-99.88	-300.81	10.00	
	11400.00 11500.00	26.57 36.57	359.66 359.66	11363.28 11448.38	-265.73 -213.45	-100.10 -100.41	-264.10 -211.82	10.00 10.00	
	11500.00	36.57 37.39	359.66 359.66	11448.38 11455.00	-213.45 -208.47	-100.41 -100.44	-211.82 -206.84	10.00	Wolfcamp / Point of Penetration
	11600.00	46.57	359.66	11523.10	-147.19	-100.80	-145.56	10.00	
	11700.00	56.57	359.66	11585.19	-68.96	-101.26	-67.33	10.00	
	11800.00	66.57	359.66	11632.74	18.87	-101.79	20.49	10.00	
	11900.00	76.57	359.66	11664.32	113.61	-102.35	115.23	10.00	
	12000.00	86.57	359.66	11678.97	212.41	-102.94	214.02	10.00	Landing Point
	12034.92 12100.00	90.06 90.06	359.66 359.66	11680.00 11679.93	247.30 312.38	-103.14 -103.53	248.92 313.99	10.00 0.00	Landing Point
	12200.00	90.06	359.66	11679.83	412.38	-104.12	413.99	0.00	
	12300.00	90.06	359.66	11679.73	512.38	-104.71	513.98	0.00	

		Well	ALEUTIAN	10-3 FED CON	/ 811H				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
			Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	1 #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	12400.00	90.06	359.66	11679.63	612.38	-105.31	613.98	0.00	
	12500.00 12600.00	90.06 90.06	359.66 359.66	11679.53 11679.43	712.38 812.37	-105.90 -106.50	713.97 813.97	0.00 0.00	
	12700.00	90.06	359.66	11679.33	912.37	-107.09	913.96	0.00	
	12800.00	90.06	359.66	11679.23	1012.37	-107.68	1013.96	0.00	
	12900.00	90.06	359.66	11679.13	1112.37	-108.28	1113.95	0.00	
	13000.00 13100.00	90.06 90.06	359.66 359.66	11679.03 11678.93	1212.37 1312.37	-108.87 -109.47	1213.95 1313.94	0.00 0.00	
	13200.00	90.06	359.66	11678.83	1412.36	-110.06	1413.94	0.00	
	13300.00	90.06	359.66	11678.72	1512.36	-110.65	1513.93	0.00	
	13400.00 13500.00	90.06 90.06	359.66 359.66	11678.62 11678.52	1612.36 1712.36	-111.25 -111.84	1613.93 1713.92	0.00 0.00	
	13600.00	90.06 90.06	359.66	11678.42	1812.36	-111.64	1713.92	0.00	
	13700.00	90.06	359.66	11678.32	1912.35	-113.03	1913.91	0.00	
	13800.00	90.06	359.66	11678.22	2012.35	-113.62	2013.91	0.00	
	13900.00	90.06	359.66	11678.12		-114.22	2113.90	0.00	
	14000.00 14100.00	90.06 90.06	359.66 359.66	11678.02 11677.92	2212.35 2312.35	-114.81 -115.41	2213.90 2313.89	0.00 0.00	
	14200.00	90.06	359.66	11677.82	2412.35	-116.00	2413.89	0.00	
	14300.00	90.06	359.66	11677.72	2512.34	-116.59	2513.88	0.00	
	14400.00 14500.00	90.06 90.06	359.66 359.66	11677.62 11677.52	2612.34 2712.34	-117.19 -117.78	2613.88 2713.87	0.00 0.00	
	14600.00	90.06	359.66	11677.41	2812.34	-117.78	2813.87	0.00	
	14700.00	90.06	359.66	11677.31	2912.34	-118.97	2913.86	0.00	
	14800.00	90.06	359.66	11677.21	3012.33	-119.56	3013.86	0.00	
	14900.00 15000.00	90.06 90.06	359.66 359.66	11677.11 11677.01	3112.33 3212.33	-120.16 -120.75	3113.85 3213.85	0.00 0.00	
	15100.00	90.06	359.66	11676.91	3312.33	-121.34	3313.84	0.00	
	15200.00	90.06	359.66	11676.81	3412.33	-121.94	3413.84	0.00	
	15300.00	90.06	359.66	11676.71	3512.33	-122.53	3513.83	0.00	
	15400.00 15500.00	90.06 90.06	359.66 359.66	11676.61 11676.51	3612.32 3712.32	-123.13 -123.72	3613.83 3713.82	0.00 0.00	
	15600.00	90.06	359.66	11676.41	3812.32	-124.31	3813.82	0.00	
	15700.00	90.06	359.66	11676.31	3912.32	-124.91	3913.81	0.00	
	15800.00	90.06 90.06	359.66	11676.20	4012.32	-125.50	4013.81	0.00 0.00	
	15900.00 16000.00	90.06 90.06	359.66 359.66	11676.10 11676.00	4112.31 4212.31	-126.10 -126.69	4113.80 4213.80	0.00	
	16100.00	90.06	359.66	11675.90	4312.31	-127.28	4313.79	0.00	
	16200.00	90.06	359.66	11675.80	4412.31	-127.88	4413.79	0.00	
	16300.00 16400.00	90.06 90.06	359.66 359.66	11675.70 11675.60	4512.31 4612.31	-128.47 -129.07	4513.78 4613.78	0.00 0.00	
	16500.00	90.06	359.66	11675.50	4712.30	-129.66	4713.77	0.00	
	16600.00	90.06	359.66	11675.40	4812.30	-130.25	4813.77	0.00	
	16700.00	90.06	359.66	11675.30	4912.30	-130.85	4913.76	0.00	
	16800.00 16900.00	90.06 90.06	359.66 359.66	11675.20 11675.10	5012.30 5112.30	-131.44 -132.04	5013.76 5113.75	0.00 0.00	
	17000.00	90.06	359.66	11675.00	5212.29	-132.63	5213.75	0.00	
	17100.00	90.06	359.66	11674.89	5312.29	-133.22	5313.74	0.00	
	17200.00 17300.00	90.06	359.66	11674.79	5412.29	-133.82	5413.74	0.00 0.00	
	17300.00	90.06 90.06	359.66 359.66	11674.69 11674.59	5512.29 5612.29	-134.41 -135.00	5513.73 5613.73	0.00	
	17500.00	90.06	359.66	11674.49	5712.29	-135.60	5713.72	0.00	
	17600.00	90.06	359.66	11674.39	5812.28	-136.19	5813.72	0.00	
	17700.00 17800.00	90.06 90.06	359.66 359.66	11674.29 11674.19	5912.28 6012.28	-136.79 -137.38	5913.71 6013.71	0.00 0.00	
	17800.00	90.06 90.06	359.66	11674.19	6012.28	-137.38	6113.70	0.00	
	18000.00	90.06	359.66	11673.99	6212.28	-138.57	6213.70	0.00	
	18100.00	90.06	359.66	11673.89	6312.27	-139.16	6313.69	0.00	
	18200.00 18300.00	90.06 90.06	359.66	11673.79 11673.69	6412.27 6512.27	-139.76 -140.35	6413.69 6513.68	0.00	
	18300.00	90.06 90.06	359.66 359.66	11673.69 11673.58	6512.27 6612.27	-140.35 -140.94	6513.68 6613.68	0.00 0.00	
	18500.00	90.06	359.66	11673.48	6712.27	-141.54	6713.67	0.00	
	18600.00	90.06	359.66	11673.38	6812.27	-142.13	6813.67	0.00	
	18700.00 18800.00	90.06 90.06	359.66 359.66	11673.28 11673.18	6912.26 7012.26	-142.73 -143.32	6913.66 7013.66	0.00 0.00	
	18900.00	90.06 90.06	359.66	11673.08	7012.26	-143.52	7013.66	0.00	
	19000.00	90.06	359.66	11672.98	7212.26	-144.51	7213.65	0.00	
	19100.00	90.06	359.66	11672.88	7312.26	-145.10	7313.64	0.00	
	19200.00 19300.00	90.06 90.06	359.66 359.66	11672.78 11672.68	7412.25 7512.25	-145.70 -146.29	7413.64 7513.63	0.00 0.00	
		20.00	233.00					5.50	

on		County: Wellbore:				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)			
		Design.	rennicria	<i><sup>π</sup></i>					
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	19400.00	90.06	359.66	11672.58	7612.25	-146.88	7613.63	0.00	
	19500.00	90.06	359.66	11672.48	7712.25	-147.48	7713.62	0.00	
	19600.00	90.06	359.66	11672.38	7812.25	-148.07	7813.62	0.00	
	19700.00	90.06	359.66	11672.27	7912.25	-148.67	7913.61	0.00	
	19800.00	90.06	359.66	11672.17	8012.24	-149.26	8013.61	0.00	
	19900.00	90.06	359.66	11672.07	8112.24	-149.85	8113.60	0.00	
	20000.00	90.06	359.66	11671.97	8212.24	-150.45	8213.60	0.00	
	20100.00	90.06	359.66	11671.87	8312.24	-151.04	8313.59	0.00	
	20200.00	90.06	359.66	11671.77	8412.24	-151.64	8413.59	0.00	
	20300.00	90.06	359.66	11671.67	8512.23	-152.23	8513.58	0.00	
	20400.00	90.06	359.66	11671.57	8612.23	-152.82	8613.57	0.00	
	20500.00	90.06	359.66	11671.47	8712.23	-153.42	8713.57	0.00	
	20600.00	90.06	359.66	11671.37	8812.23	-154.01	8813.56	0.00	
	20700.00	90.06	359.66	11671.27	8912.23	-154.60	8913.56	0.00	
	20800.00	90.06	359.66	11671.17	9012.23	-155.20	9013.55	0.00	
	20900.00	90.06	359.66	11671.07	9112.22	-155.79	9113.55	0.00	
	21000.00	90.06	359.66	11670.96	9212.22	-156.39	9213.54	0.00	
	21100.00	90.06	359.66	11670.86	9312.22	-156.98	9313.54	0.00	
	21200.00	90.06	359.66	11670.76	9412.22	-157.57	9413.53	0.00	
	21300.00	90.06	359.66	11670.66	9512.22	-158.17	9513.53	0.00	
	21400.00	90.06	359.66	11670.56	9612.21	-158.76	9613.52	0.00	
	21500.00	90.06	359.66	11670.46	9712.21	-159.36	9713.52	0.00	
	21600.00	90.06	359.66	11670.36	9812.21	-159.95	9813.51	0.00	
	21700.00	90.06	359.66	11670.26	9912.21	-160.54	9913.51	0.00	
	21800.00	90.06	359.66	11670.16	10012.21	-161.14	10013.50	0.00	
	21863.83	90.06	359.66	11670.09	10076.04	-161.52	10077.34	0.00	exit
	21900.00	90.06	359.66	11670.06	10112.21	-161.73	10113.50	0.00	
	21943.83	90.06	359.66	11670.00	10156.04	-161.94	10157.33	0.00	BHL

### 1. Geologic Formations

TVD of target	11670	Pilot hole depth	N/A
MD at TD:	21944	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	545		
Salt	885		
Base of Salt	4060		
Delaware	4285		
Cherry Canyon	5185		
Brushy Canyon	6485		
1st Bone Spring Lime	8135		
Bone Spring 1st	9235		
Bone Spring 2nd	9735		
3rd Bone Spring Lime	10285		
Bone Spring 3rd	10985		
Wolfcamp	11455		
			-

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

	w Wt			Casing	Interval	Casing	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
12 1/4	9 5/8	40	J-55	BTC	0	625	0	625
8 3/4	7 5/8	29.7	P110	Sprint FJ	0	11034	0	11034
6 3/4	5 1/2	20	P110	DWC/C-IS & Sprint FJ	0	21944	0	11670

### 2. Casing Program (Primary Design)

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

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 DWC/C IS (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	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	223	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	364	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	418	418 6512 13.2 1.44		1.44	Tail: Class H / C + additives
Production	62	9134	9 3.27 Lead: Class H /C		Lead: Class H /C + additives
Fioduction	690	11134	13.2	1.44	Tail: Class H / C + additives

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		*	Tested to:
			An	nular	Х	50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	Х	
Int I	13-3/0	5101	Pipe	e Ram		5M
			Doub	le Ram	Х	5101
			Other*			
	13-5/8"	5M	Annular (5M)		Х	50% of rated working pressure
Production			Blind Ram		Х	
Production			Pipe Ram Double Ram			5M
					Х	5101
			Other*			
			Annular (5M)			
			Bline	d Ram		
			Pipe Ram Double Ram			
			Other*			1
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 a	A variance is requested to run a 5 M annular on a 10M system					

### 4. Pressure Control Equipment (Three String Design)

### ALEUTIAN 10-3 FED COM 811H

### 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	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	Completion 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.

Additiona	l logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6372
Abnormal temperature	No

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

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

### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments

- X Directional Plan
- Other, describe

Issued on: 09 Dec. 2020 by Logan Van Gorp



# **Connection Data Sheet**

100 % of pipe

OD	Weight	Wall Th.	Grade	API Drift:	Connection
7 5/8 in.	Nominal: 29.70 lb/ft	0.375 in.	P110EC	6.750 in.	VAM <sup>®</sup> SPRINT-FJ
	Plain End: 29.06 ft/lb				

PIPE PROPERTIES			CONNECTION	PROPERTIES	
Nominal OD	7.625	in.	Connection Type	Semi-Premium Int	egral Flush
Nominal ID	6.875	in.	Connection OD (nom):	7.654	in.
Nominal Cross Section Area	8.541	sqin.	Connection ID (nom):	6.827	in.
Grade Type	Enhanced C	Collapse	Make-Up Loss	4.055	in.
Min. Yield Strength	125	ksi	Critical Cross Section	6.979	sqin.
Max. Yield Strength	140	ksi	Tension Efficiency	80.0	% of pipe
Min. Ultimate Tensile Strength	135	ksi	Compression Efficiency	80.0	% of pipe
			Internal Pressure Efficiency	80.0	% of pipe

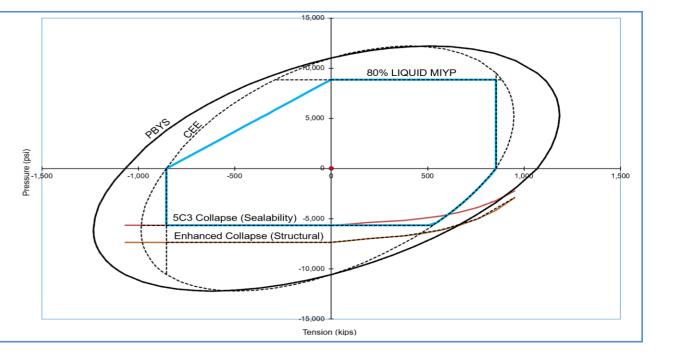
External Pressure Efficiency

CONNECTION PERFORMANCES		
Tensile Yield Strength	854	klb
Compression Resistance	854	klb
Max. Internal Pressure	8,610	psi
Structural Collapse Resistance	7,360	psi
Max. Structural Bending	57	°/100ft
Max. Bending with Sealability	10	°/100ft

	TORQUE VALUES		
)	Min. Make-up torque	15,000	ft.lb
>	Opt. Make-up torque	16,500	ft.lb
i	Max. Make-up torque	18,000	ft.lb
i	Max. Torque with Sealability (MTS)	32,000	ft.lb

\* 87.5% RBW

**VAM® SPRINT-FJ** is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



# Do you need help on this product? - Remember no one knows $\text{VAM}^{\textcircled{B}}$ like $\text{VAM}^{\textcircled{B}}$

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

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

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



# **SěAH** 9.625" 40# .395" J-55

# Dimensions (Nominal)

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

## **Performance Properties**

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

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

## State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

Page 51 of 56

<sup>1</sup> API Number <sup>2</sup> Pool C					ode <sup>3</sup> Pool Name					
30-0	015-474	04		98123		WC-015	G-08 S2331	02C;WOLFC	CAMP	
<sup>4</sup> Property (	Code		•		<sup>5</sup> Property	Name			<sup>6</sup> Well Number	
32306	3			A	LEUTIAN 10-3	3 FED COM			811H	
<sup>7</sup> OGRID	No.				<sup>8</sup> Operator	Name			<sup>9</sup> Elevation	
6137			DEV	ON ENEI	RGY PRODUC	CTION COMPA	NY, L.P.		3384.5	
					<sup>10</sup> Surfac	e Location		•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Μ	10	23 S	31 E		375	SOUTH	760	WEST	EDDY	
			n F	Bottom H	lole Location	If Different Fr	om Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
4	3	23 S	31 E		20	NORTH	660	WEST	EDDY	
<sup>2</sup> Dedicated Acre	s <sup>13</sup> Joint	or Infill <sup>14</sup>	Consolidation	n Code	<sup>15</sup> Order No.					
319.67										

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

	ALEUTIAN 10-3 FED COM 811H	<sup>17</sup> OPERATOR CERTIFICATION
BN89743'54"E 2641.22 FT A N89'43'38"E 2641.27 FT	EL. = 3384.5	I hereby certify that the information contained herein is true and complete
	GEODETIC COORDINATES NAD 83 NMSP EAST	to the best of my knowledge and belief, and that this organization either
BOTTOM	SURFACE LOCATION N.= 477972.37	owns a working interest or unleased mineral interest in the land including
In the second se	E.= 714822.51 LAT. = 32.3127695'N	the proposed bottom hole location or has a right to drill this well at this
	LONG. = 103.7717720'W	location pursuant to a contract with an owner of such a mineral or working
N0022220"W	KICK OFF POINT FIRST TAKE POINT (PPP 1)	interest, or to a voluntary pooling agreement or a compulsory pooling order
0.25	CALLS <u>50' FSL</u> , <u>659' FWL</u> 100' FSL, 760' FWL N.= <u>477646</u> N.= 477696.84	heretofore entered by the division.
SEC 3	$E_{\text{LAT.}} = \frac{714723}{32.31178060}$ $E_{\text{LAT.}} = \frac{714724.06}{32.3120136^{\circ}N}$	Shanda Omount 9/18/2023
	LAT. = $52.3178000$ LONG. = $-103.77218260$ LONG. = $103.7720953$ 'W	Signature Date
19 29 29		Signature
641.	LAST TAKE POINT BOTTOM OF HOLE 100' FNL, 760' FWL 20' FNL, 660' FWL	Shayda Omoumi
	N.= 488048.43 N.= 488128.41 E.= 714661.09 E.= 714660.57	Printed Name
	LAT. = 32.3404682'N LAT. = 32.3406881'N LONG. = 103.7721236'W LONG. = 103.7721239'W	shayda.omoumi@dvn.com
		E-mail Address
D N89'39'53"E B N89'37'59"E 2644.95 FT 2644.95	PPP 2 0' FNL, 657' FWL	
	N.= 482877.35 E.= 714692.55 LAT. = 32.3262539'N	<b>ISURVEYOR CERTIFICATION</b>
С. 99 07 07 07 07 07 04 07 07 07 07 07 04 07 07 04 07 07 04 07 04 07 04 07 04 07 04 07 04 04 04 04 04 04 04 04 04 04 04 04 04	LONG. = 103.7721095'W	I hereby certify that the well location shown on this plat
NMNM 077046NMNM 121955		was plotted from field notes of actual surveys made by
W		me or under my supervision, and that the same is true
SEC. 10		and correct to the best of my belief.
	CORNER COORDINATES TABLE NAD 83 NMSP EAST	SEPTEMBER 15, 2023
도· 응 NMNM 077046 양	A - N.= 488157.68 E.= 716641.21 B - N.= 488145.32 E.= 714000.59	Date of Survey
	C - N.= 485514.03 E.= 714017.69 D - N.= 482873.50 E.= 714035.43	N ME XX
	E - N.= 480233.55 E.= 714050.30 F - N.= 477592.96 E.= 714064.76	
5 SURFACE	G - N.= 477608.56 E.= 716706.45 H - N.= 482888.95 E.= 716676.08	177 STAN
FIP	LEGEND	Signature and Seal of Professional Surveyor:
ES89'39'42"W 2642.31 FT C S89'39'45"W 2644.09 FT	CUARTER LINE	Certificate Number: DE TATONE LARAMILLO, LS 12797
	WELL PATH	TUASUS VEV NO. 8173A

### Received by OCD: 9/29/2023 5:32:44 AM

Х

In	te	nt	

As Drill	ed
----------	----

ΑΡΙ	#	

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	ALEUTIAN 10-3 FED COM	811H

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
М	10	23S	31E		50	SOUTH	659	WEST	EDDY
Latitu	de				Longitude		NAD		
32.31	178060				-103.7721	8260	83		

## First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	10	23S	31E		100	SOUTH	660	WEST	EDDY
Latitude 32.3120136				Longitude <b>103.7720</b>	)953			NAD 83	

## Last Take Point (LTP)

UL	Section 3	Township 23S	Range 31E	Lot 4	Feet 100	From N/S NORTH	Feet 660	From E/W WEST	County EDDY
Latitude					Longitud			NAD	
32.3404682				103.7	103.7721236			83	

Is this well the defining well for the Horizontal Spacing Unit? N

Is this well an infill well?

~ ~ ~	
Y	

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-47396		
Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	ALEUTIAN 10-3 FED COM	611H

KZ 06/29/2018

### Section 2 - Blowout Preventer Testing Procedure

### Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



### Aleutian 10-3 Fed Com 811H

	surf	ace csg in a	12 1/4	inch hole.		Design I	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc sc	21.72	7.58	0.66	725	12	1.10	14.32	29,000
"B"			,	btc sc				0				0
	w/8.4#/g	g mud, 30min Sfc Csg Tes	t psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	725				29,000
omparison o		imum Required Cem										
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-Cpl
12 1/4	0.3132	223	321	227	41	9.00	3591	5M				1.31
urst Frac Grac	dient(s) for Segmen	t(s) A, B = , b All > 0	.70, ОК.									
			•• <b>~</b> • <b>~</b> • <b>~</b> •	_,_,_,_,_,_,	· — · — · — ·							
7 5/8		g inside the	9 5/8			Design I				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70		p 110	vam sprint fj	2.61	1.22	1.35	11,034	1	2.27	2.05	
"B"								0				0
	w/8.4#/g	g mud, 30min Sfc Csg Tes					Totals:	11,034				327,710
				ded to achieve a top of	0	ft from su		725				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-Cpl
8 3/4	0.1005	418	602	1115	-46	10.50	3798	5M				0.55
OV Tool(s):			6485				sum of sx	<u>Σ CuFt</u>				Σ%exces
by stage % : Class 'C' tail cm		32	27				782	1439				29
Tail cmt 5 1/2	casin	g inside the	7 5/8			Design Fa	ctors			Prod 1		
Segment	#/ft	Grade	-, -	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	dwc/c is	3.12	2.1	2.21	10,534	2	3.70	3.53	210,680
"B"	20.00		р 110	vam sprint sf	28.22	1.90	2.26	1,136	2	3.78	3.18	22,720
"C"	20.00		p 110	dwc/c is	00	1.90	2.21	10,274	2	3.70	3.18	205,480
"D"				0				0				0
	w/8.4#/g	g mud, 30min Sfc Csg Tes	t psig: 2,317				Totals:	21,944				438,88
				1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1		ft from ou	rface or a	500				overlap.
		The cement	volume(s) are inten	ded to achieve a top of	10534	it from su	nace of a					Min Dist
Hole	Annular	1 Stage	volume(s) are inten 1 Stage	ded to achieve a top of Min	10534 1 Stage	Drilling	Calc	Req'd				MIIII DIS
Hole Size	Annular Volume							Req'd BOPE				
		1 Stage	1 Stage	Min	1 Stage	Drilling	Calc					
Size 6 3/4	Volume 0.0835	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc					Hole-Cpl
Size 6 3/4 Class 'C' tail cm	Volume 0.0835	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc					Hole-Cpl
Size 6 3/4 Class 'C' tail cm #N/A	Volume 0.0835	1 Stage Cmt Sx	1 Stage CuFt Cmt 1196	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt 10.50	Calc MASP		<	hoose Casi	nø>	Hole-Cpl
Size 6 3/4 Class 'C' tail cm #N/A 0	Volume 0.0835	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft 958	1 Stage % Excess 25	Drilling Mud Wt 10.50 <u>Design I</u>	Calc MASP Factors	BOPE		hoose Casi a-B	U	Hole-Cpl 0.35
Size 6 3/4 Class 'C' tail cm #N/A 0	Volume 0.0835 ht yld > 1.35	1 Stage Cmt Sx 752	1 Stage CuFt Cmt 1196	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt 10.50	Calc MASP	BOPE	<c B@s</c 	hoose Casi a-B	ng> a-C	Hole-Cpl 0.35
Size 6 3/4 lass 'C' tail cm #N/A 0 Segment	Volume 0.0835 ht yld > 1.35	1 Stage Cmt Sx 752	1 Stage CuFt Cmt 1196	Min Cu Ft 958 Coupling	1 Stage % Excess 25	Drilling Mud Wt 10.50 <u>Design I</u>	Calc MASP Factors	BOPE			U	Hole-Cpl 0.35 Weigh
Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A"	Volume 0.0835 It yld > 1.35 #/ft	1 Stage Cmt Sx 752	1 Stage CuFt Cmt 1196	Min Cu Ft 958 Coupling 0.00	1 Stage % Excess 25	Drilling Mud Wt 10.50 <u>Design I</u>	Calc MASP Factors	BOPE Length			U	Hole-Cpl 0.35 Weigh 0
Size 6 3/4 lass 'C' tail cm #N/A 0 Segment "A"	Volume 0.0835 It yld > 1.35 #/ft	1 Stage Cmt Sx 752 Grade g mud, 30min Sfc Csg Tes	1 Stage CuFt Cmt 1196 5 1/2	Min Cu Ft 958 Coupling 0.00	1 Stage % Excess 25	Drilling Mud Wt 10.50 <u>Design I</u>	Calc MASP Factors Burst Totals:	BOPE Length 0 0			a-C	Hole-Cpl 0.35 Weigh 0 0
Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A"	Volume 0.0835 It yld > 1.35 #/ft	1 Stage Cmt Sx 752 Grade g mud, 30min Sfc Csg Tes	1 Stage CuFt Cmt 1196 5 1/2	Min Cu Ft 958 Coupling 0.00 0.00	1 Stage % Excess 25 #N/A	Drilling Mud Wt 10.50 <u>Design I</u> Collapse	Calc MASP Factors Burst Totals:	BOPE Length 0 0 0			a-C	Hole-Cpl 0.35 Weigh 0 0 0 0 overlap.
Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A" "B"	Volume 0.0835 ht yld > 1.35 #/ft w/8.4#/g	1 Stage Cmt Sx 752 Grade g mud, 30min Sfc Csg Tes Cmt vol c	1 Stage CuFt Cmt 1196 5 1/2	Min Cu Ft 958 Coupling 0.00 0.00 this csg, TOC intended	1 Stage % Excess 25 #N/A	Drilling Mud Wt 10.50 <u>Design I</u> Collapse	Calc MASP Factors Burst Totals: rface or a	BOPE Length 0 0 #N/A			a-C	Hole-Cpl 0.35 Weight 0 0 0 0 overlap. Min Dist
Size 6 3/4 class 'C' tail cm #N/A 0 Segment "A" "B" Hole	Volume 0.0835 ht yld > 1.35 #/ft w/8.4#/g Annular	1 Stage Cmt Sx 752 Grade g mud, 30min Sfc Csg Tes Cmt vol c 1 Stage	1 Stage CuFt Cmt 1196 5 1/2 t psig: alc below includes 1 Stage	Min Cu Ft 958 Coupling 0.00 0.00 0.00 this csg, TOC intended Min	1 Stage % Excess 25 #N/A #N/A 1 Stage	Drilling Mud Wt 10.50 Design I Collapse ft from su Drilling	Calc MASP Factors Burst Totals: rface or a Calc	BOPE Length 0 0 #N/A Req'd			a-C	Hole-Cpl 0.35 Weight 0 0 0
Size 6 3/4 class 'C' tail cm #N/A 0 Segment "A" "B" Hole Size	Volume 0.0835 ht yld > 1.35 #/ft w/8.4#/g Annular	1 Stage Cmt Sx 752 Grade g mud, 30min Sfc Csg Tes Cmt vol c 1 Stage Cmt Sx	1 Stage CuFt Cmt 1196 5 1/2 t psig: alc below includes 1 Stage CuFt Cmt	Min Cu Ft 958 Coupling 0.00 0.00 0.00 this csg, TOC intended Min Cu Ft 0	1 Stage % Excess 25 #N/A 1 Stage % Excess	Drilling Mud Wt 10.50 Design I Collapse ft from su Drilling	Calc MASP Factors Burst Totals: rface or a Calc	BOPE Length 0 0 #N/A Req'd			a-C	Hole-Cpi 0.35 Weigh 0 0 0 overlap. Min Dis

.

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	270398	
	Action Type:	
	[C-103] NOL Change of Plans (C-103A)	

CONDITIONS		
Created By	Condition	Condition Date
ward.rikala	If a bradenhead squeeze is used during the cementing of the casing, then a CBL is required to verify the integrity of the cement behind the casing. All other COA's still apply.	10/18/2023

CONDITIONS

Action 270398