Received by UCD: 3/31/2024 2:24:08 PM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reports 07/31/2024	
Well Name: MUSTANG 8-17 FED COM	Well Location: T25S / R32E / SEC 8 / NWSE / 32.1445246 / -103.6954876	County or Parish/State: LEA / NM	
Well Number: 737H	Type of Well: OIL WELL	Allottee or Tribe Name:	
Lease Number: NMLC061873B	Unit or CA Name:	Unit or CA Number:	
US Well Number: 30-025-53005	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP		

### **Notice of Intent**

Sundry ID: 2800588

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/15/2024

Date proposed operation will begin: 07/13/2024

Type of Action: APD Change Time Sundry Submitted: 10:08

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name, BHL, and spacing on the subject well. Devon also requests casing design changes to slim hole and requesting variances for break testing and offline cementing. Please see attached updated C102, Drill plan, directional plan, spec sheets, break test and offline cementing variance. API: 30-025-53005 Permitted BHL: SWSE, 20 FSL, 1650 FEL, 17-25S-32E Proposed BHL: NENE, 20 FNL, 1235 FEL, 32-24S-32E Permitted Well name: MUSTANG 8-17 FED COM 737H Proposed Well name: CHINCOTEAGUE 8-32 FED STATE COM 737H

**NOI Attachments** 

#### **Procedure Description**

7.625\_x\_29.7\_P110\_HP\_Talon\_SFC\_\_7.900\_Performance\_Sheet\_20240715100748.pdf

5.5\_20\_\_P110HP\_TALON\_RD\_20240715100747.pdf

WA018439669\_CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_WL\_R2\_SIGNED\_20240713164826.pdf

break\_test\_variance\_BOP\_1\_15\_24\_20240713164825.pdf

Offline\_Cementing\_\_\_Variance\_Request\_20240713164823.pdf

9.625\_40lb\_J55\_SeAH\_20240713164824.pdf

CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_Directional\_Plan\_06\_25\_24\_20240713164822.pdf

CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_slim\_hole\_20240713164822.pdf

Received by OCD: 7/31/2024 2:24:08 PM Well Name: MUSTANG 8-17 FED COM	Well Location: T25S / R32E / SEC 8 / NWSE / 32.1445246 / -103.6954876	County or Parish/State:
Well Number: 737H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061873B	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

# **Conditions of Approval**

#### **Specialist Review**

Chincoteague\_8\_32\_Fed\_State\_Com\_737H\_Sundry\_ID\_2800588\_20240731093813.pdf

# **Operator**

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

Operator Electronic Signature: CHELSEY GREEN Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8595

Email address: CHELSEY.GREEN@DVN.COM

State:

Field

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

# **BLM Point of Contact**

BLM POC Name: LONG VO BLM POC Phone: 5759885402 Disposition: Approved Signature: Long Vo BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 07/31/2024

Zip:

Signed on: JUL 13, 2024 04:45 PM

# Received by OCD: 7/31/2024 2:24:08 PM

eceiveu by OCD. 7/31/20.	27 2.27.00 I M		I uge 5 oj
Form 3160-5 (June 2019)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MA	E INTERIOR	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.
Do not use t		PORTS ON WELLS s to drill or to re-enter an (APD) for such proposals.	6. If Indian, Allottee or Tribe Name
	IT IN TRIPLICATE - Other ins	tructions on page 2	7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well	Gas Well Other		8. Well Name and No.
2. Name of Operator			9. API Well No.
3a. Address		3b. Phone No. <i>(include area code)</i>	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Se	c., T.,R.,M., or Survey Description	) ))	11. Country or Parish, State
12	. CHECK THE APPROPRIATE	BOX(ES) TO INDICATE NATURE C	DF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION		TYPE	OF ACTION
Notice of Intent	Acidize	Deepen [ Hydraulic Fracturing ]	Production (Start/Resume)       Water Shut-Off         Reclamation       Well Integrity
Subsequent Report Casing Repair Change Plans		New Construction	Recomplete Other
Final Abandonment Notic		= .	Water Disposal
the proposal is to deepen dire the Bond under which the we completion of the involved o	ectionally or recomplete horizond ork will be perfonned or provide perations. If the operation results ent Notices must be filed only aff	ally, give subsurface locations and mea the Bond No. on file with BLM/BIA. F s in a multiple completion or recomplet	tarting date of any proposed work and approximate duration thereof. If asured and true vertical depths of all pertinent markers and zones. Attack Required subsequent reports must be filed within 30 days following tion in a new interval, a Form 3160-4 must be filed once testing has been tion, have been completed and the operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name ( <i>Printed/Typed</i> )		
1	ĩitle	
Circuit internet	N-4-	
Signature [	Date	
THE SPACE FOR FEDER	RAL OR STATE OFI	CE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		ully to make to any department or agency of the United States

(Instructions on page 2)

#### **GENERAL INSTRUCTIONS**

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

#### SPECIFIC INSTRUCTIONS

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

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

#### NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

# **Additional Information**

# Location of Well

0. SHL: NWSE / 2512 FSL / 2130 FEL / TWSP: 25S / RANGE: 32E / SECTION: 8 / LAT: 32.1445246 / LONG: -103.6954876 (TVD: 0 feet, MD: 0 feet) PPP: NESE / 2534 FSL / 1650 FEL / TWSP: 25S / RANGE: 32E / SECTION: 8 / LAT: 32.144587 / LONG: -103.6939373 (TVD: 11754 feet, MD: 11795 feet) BHL: SWSE / 20 FSL / 1650 FEL / TWSP: 25S / RANGE: 32E / SECTION: 17 / LAT: 32.1231744 / LONG: -103.6940133 (TVD: 12256 feet, MD: 19880 feet)

#### 5/15/2024 6:31:14 PM

# U. S. Steel Tubular Products 7.625" 29.70lb/ft (0.375" Wall) P110 HP USS-TALON SFC™

MECHANICAL PROPERTIES	Pipe	USS-TALON SFC™		[6
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON SFC™		-
Outside Diameter	7.625	7.900	in.	
Wall Thickness	0.375		in.	
Inside Diameter	6.875	6.815	in.	
Standard Drift	6.750	6.750	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	29.70		lb/ft	
Plain End Weight	29.06		lb/ft	
SECTION AREA	Pipe	USS-TALON SFC™		
Critical Area	8.541	7.331	sq. in.	
Joint Efficiency		85.8	%	[
PERFORMANCE	Pipe	USS-TALON SFC™		
Minimum Collapse Pressure	7,260	7,260	psi	-
Minimum Internal Yield Pressure	10,750	10,750	psi	
Minimum Pipe Body Yield Strength	1,068,000		lb	
Joint Strength		916,000	lb	
Compression Rating		916,000	lb	
Reference Length		20,560	ft	I
Maximum Uniaxial Bend Rating		64.4	deg/100 ft	
MAKE-UP DATA	Pipe	USS-TALON SFC™		
Make-Up Loss		5.08	in.	
Minimum Make-Up Torque		30,000	ft-lb	
Maximum Make-Up Torque		33,000	ft-lb	
Maximum Operating Torque		80,500	ft-lb	

# Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bend rating shown is structural only.

4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

#### Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

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# U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall) P11

P110 HP	USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	13,150	13,150	psi	
Minimum Internal Yield Pressure	14,360	14,360	psi	
Minimum Pipe Body Yield Strength	729,000		lb	
Joint Strength		729,000	lb	
Compression Rating		729,000	lb	
Reference Length		24,300	ft	[5]
Maximum Uniaxial Bend Rating		104.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		18,400	ft-lb	[4]
Maximum Make-Up Torque		21,400	ft-lb	[4]
Maximum Operating Torque		44,400	ft-lb	[4]

# Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bend rating shown is structural only.

- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

#### Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

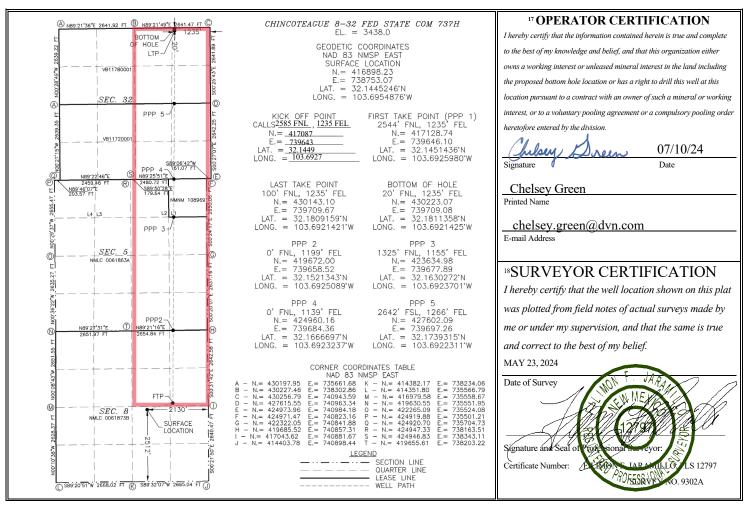
U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

Page 8 of 59

1 A	PI Number	•		<sup>2</sup> Pool Code	DN AND ACREAGE DEDICATION PLAT de <sup>3</sup> Pool Name				
30-025-5	3005		ç	98270		WC-025 (	G-08 S253216E	;UPPER WO	DLFCAMP
<sup>4</sup> Property C	Code		•		<sup>5</sup> Property	Name			<sup>6</sup> Well Number
326213				CHINCO	TEAGUE 8-32	PER STATE CO	ОМ		737H
<sup>7</sup> OGRID N	lo.				<sup>8</sup> Operator	Name			<sup>9</sup> Elevation
6137			DEV	ON ENEI	RGY PRODUC	CTION COMPA	NY, L.P.		3438.0
					<sup>10</sup> Surfac	e Location			
UL or lot no.	Section	Townshi	o Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County
J	8	25 S	32 E		2512	SOUTH	2130	EAST	LEA
			пF	Bottom H	Iole Location	If Different Fr	om Surface		
UL or lot no.	Section	Townshi	o Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	e County
Α	32	24 S	32 E		20	NORTH	1235	EAST LE	
<sup>2</sup> Dedicated Acre	<sup>13</sup> Joint	or Infill	<sup>14</sup> Consolidation	n Code	<sup>15</sup> Order No.				
800.83									

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.



#### Received by OCD: 7/31/2024 2:24:08 PM

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API #

30-025-53005		
Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	CHINCOTEAGUE 8-32 FED STATE COM	737H

### Kick Off Point (KOP)

UL H	Section 8	Township 25S	Range 32E	Lot	Feet 2585	From N/S	Feet 1235	From E/W EAST	County LEA
Latitu	de				Longitude				NAD
	32.1449			103.6927				83	

# First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	8	25S	32E		2544	NORTH	1235	EAST	LEA
	Latitude 32.1451436			Longitude 103.6925	5980			NAD 83	

# Last Take Point (LTP)

UL A	Section 32	Township 24S	Range 32E	Lot	Feet 100	From N/S NORTH	Feet 1235	From E/W EAST	County LEA
Latitu					Longitud			NAD	
32.1	80915	9			103.6	921421		83	

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

Is this well an infill well?

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

API #		
Operator Name:	Property Name:	Well Number

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 43 CFR 3172, 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 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 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



#### **Offline Cementing**

#### Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

# **SěAH** 9.625" 40# .395" J-55

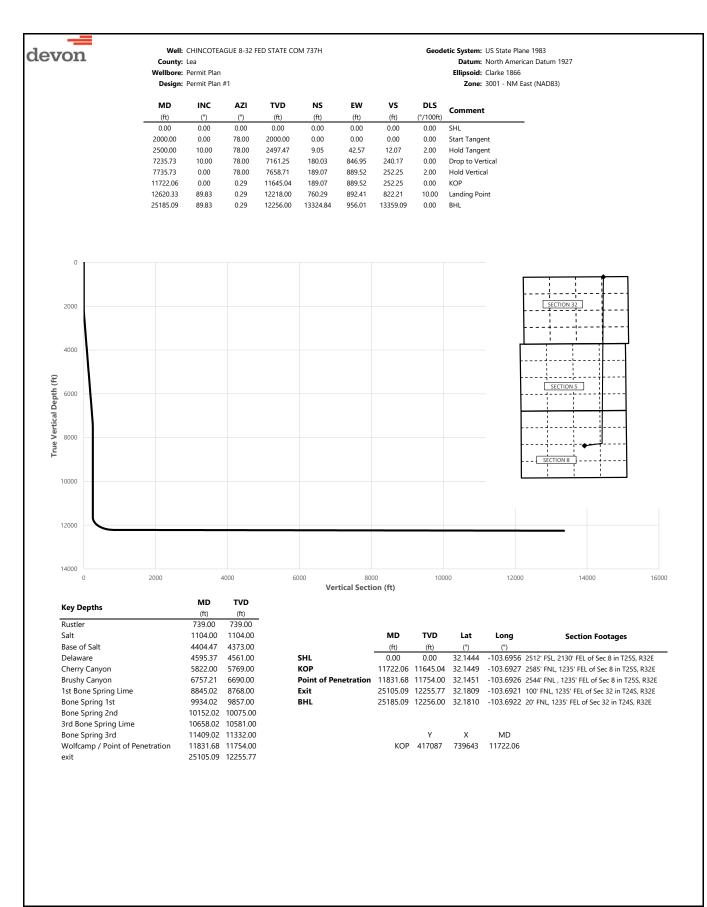
# Dimensions (Nominal)

Outside Diameter Wall	9.625 0.395	in. 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.
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.



devon		County:		AGUE 8-32 FE	D STATE CC	9M 737H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #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	78.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	78.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	78.00	300.00	0.00	0.00	0.00	0.00	
	400.00 500.00	0.00 0.00	78.00 78.00	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	600.00	0.00	78.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	78.00	700.00	0.00	0.00	0.00	0.00	
	739.00	0.00	78.00	739.00	0.00	0.00	0.00	0.00	Rustler
	800.00	0.00	78.00	800.00	0.00	0.00	0.00	0.00	
	900.00 1000.00	0.00 0.00	78.00 78.00	900.00 1000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1100.00	0.00	78.00	1100.00	0.00	0.00	0.00	0.00	
	1104.00	0.00	78.00	1104.00	0.00	0.00	0.00	0.00	Salt
	1200.00	0.00	78.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	78.00	1300.00	0.00	0.00	0.00	0.00	
	1400.00 1500.00	0.00 0.00	78.00 78.00	1400.00 1500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1600.00	0.00	78.00 78.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	78.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00	0.00	78.00	1800.00	0.00	0.00	0.00	0.00	
	1900.00	0.00	78.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00 2100.00	0.00 2.00	78.00 78.00	2000.00 2099.98	0.00 0.36	0.00 1.71	0.00 0.48	0.00 2.00	Start Tangent
	2100.00	4.00	78.00	2099.98	1.45	6.83	1.94	2.00	
	2300.00	6.00	78.00	2299.45	3.26	15.35	4.35	2.00	
	2400.00	8.00	78.00	2398.70	5.80	27.27	7.73	2.00	
	2500.00	10.00	78.00	2497.47	9.05	42.57	12.07	2.00	Hold Tangent
	2600.00	10.00	78.00	2595.95	12.66	59.56	16.89	0.00	
	2700.00 2800.00	10.00 10.00	78.00 78.00	2694.43 2792.91	16.27 19.88	76.54 93.53	21.71 26.52	0.00 0.00	
	2900.00	10.00	78.00	2891.39	23.49	110.51	31.34	0.00	
	3000.00	10.00	78.00	2989.87	27.10	127.50	36.16	0.00	
	3100.00	10.00	78.00	3088.35	30.71	144.48	40.97	0.00	
	3200.00 3300.00	10.00 10.00	78.00 78.00	3186.83	34.32 37.93	161.47	45.79 50.61	0.00 0.00	
	3400.00	10.00	78.00	3285.31 3383.79	41.54	178.45 195.44	55.42	0.00	
	3500.00	10.00	78.00	3482.27	45.15	212.42	60.24	0.00	
	3600.00	10.00	78.00	3580.75	48.76	229.41	65.06	0.00	
	3700.00	10.00	78.00	3679.23	52.37	246.40	69.87	0.00	
	3800.00 3900.00	10.00 10.00	78.00 78.00	3777.72	55.98 59.59	263.38 280.37	74.69	0.00	
	4000.00	10.00	78.00	3876.20 3974.68	59.59 63.20	280.37	79.51 84.32	0.00 0.00	
	4100.00	10.00	78.00	4073.16	66.81	314.34	89.14	0.00	
	4200.00	10.00	78.00	4171.64	70.43	331.32	93.96	0.00	
	4300.00	10.00	78.00	4270.12	74.04	348.31	98.77	0.00	
	4400.00 4404.47	10.00 10.00	78.00 78.00	4368.60 4373.00	77.65 77.81	365.29 366.05	103.59 103.80	0.00 0.00	Base of Salt
	4404.47	10.00	78.00	4373.00 4467.08	81.26	366.05	103.80	0.00	
	4595.37	10.00	78.00	4561.00	84.70	398.48	113.00	0.00	Delaware
	4600.00	10.00	78.00	4565.56	84.87	399.26	113.22	0.00	
	4700.00	10.00	78.00	4664.04	88.48	416.25	118.04	0.00	
	4800.00 4900.00	10.00 10.00	78.00 78.00	4762.52 4861.00	92.09 95.70	433.23 450.22	122.86 127.67	0.00 0.00	
	5000.00	10.00	78.00	4959.48	99.31	467.20	132.49	0.00	
	5100.00	10.00	78.00	5057.97	102.92	484.19	137.30	0.00	
	5200.00	10.00	78.00	5156.45	106.53	501.18	142.12	0.00	
	5300.00	10.00	78.00	5254.93	110.14	518.16	146.94	0.00	
	5400.00 5500.00	10.00 10.00	78.00 78.00	5353.41	113.75	535.15 552.13	151.75	0.00	
	5600.00 5600.00	10.00	78.00 78.00	5451.89 5550.37	117.36 120.97	552.13 569.12	156.57 161.39	0.00 0.00	
	5700.00	10.00	78.00	5648.85	124.58	586.10	166.20	0.00	
	5800.00	10.00	78.00	5747.33	128.19	603.09	171.02	0.00	
	5822.00	10.00	78.00	5769.00	128.99	606.82	172.08	0.00	Cherry Canyon
	5900.00 6000.00	10.00 10.00	78.00 78.00	5845.81 5944.29	131.80 135.41	620.07 637.06	175.84 180.65	0.00 0.00	
	6000.00 6100.00	10.00	78.00 78.00	5944.29 6042.77	135.41	637.06 654.04	180.65	0.00	
	6200.00	10.00	78.00	6141.25	142.63	671.03	190.29	0.00	
	6300.00	10.00	78.00	6239.73	146.24	688.01	195.10	0.00	
	6400.00	10.00	78.00	6338.22	149.85	705.00	199.92	0.00	

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devon		Well: County:		AGUE 8-32 FE	U STATE CO	101/5/H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Lea Permit Plar	1					Ellipsoid: Clarke 1866
			Permit Plan						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
	6500.00	10.00	78.00	6436.70	153.46	721.98	204.74	0.00	
	6600.00	10.00	78.00	6535.18	157.07	738.97	209.55	0.00	
	6700.00	10.00	78.00	6633.66	160.68	755.96	214.37	0.00	
	6757.21	10.00	78.00	6690.00	162.75	765.67	217.13	0.00	Brushy Canyon
	6800.00 6900.00	10.00 10.00	78.00 78.00	6732.14 6830.62	164.29 167.90	772.94 789.93	219.19 224.00	0.00 0.00	
	7000.00	10.00	78.00	6929.10	171.52	806.91	224.00	0.00	
	7100.00	10.00	78.00	7027.58	175.13	823.90	233.64	0.00	
	7200.00	10.00	78.00	7126.06	178.74	840.88	238.45	0.00	
	7235.73	10.00	78.00	7161.25	180.03	846.95	240.17	0.00	Drop to Vertical
	7300.00	8.71	78.00	7224.66	182.20	857.17	243.07	2.00	
	7400.00	6.71	78.00	7323.75	184.99	870.30	246.80	2.00	
	7500.00	4.71	78.00	7423.25	187.06	880.04	249.56	2.00	
	7600.00	2.71	78.00	7523.04	188.41	886.38	251.36	2.00	
	7700.00	0.71	78.00	7622.99	189.03	889.31	252.19	2.00	
	7735.73	0.00	78.00	7658.71	189.07	889.52	252.25	2.00	Hold Vertical
	7800.00 7900.00	0.00 0.00	0.29 0.29	7722.98 7822.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	7900.00 8000.00	0.00	0.29	7822.98 7922.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00	
	8100.00	0.00	0.29	8022.98	189.07	889.52 889.52	252.25	0.00	
	8200.00	0.00	0.29	8122.98	189.07	889.52	252.25	0.00	
	8300.00	0.00	0.29	8222.98	189.07	889.52	252.25	0.00	
	8400.00	0.00	0.29	8322.98	189.07	889.52	252.25	0.00	
	8500.00	0.00	0.29	8422.98	189.07	889.52	252.25	0.00	
	8600.00	0.00	0.29	8522.98	189.07	889.52	252.25	0.00	
	8700.00	0.00	0.29	8622.98	189.07	889.52	252.25	0.00	
	8800.00	0.00	0.29	8722.98	189.07	889.52	252.25	0.00	
	8845.02	0.00	0.29	8768.00	189.07	889.52	252.25	0.00	1st Bone Spring Lime
	8900.00	0.00	0.29	8822.98	189.07	889.52	252.25	0.00	
	9000.00	0.00	0.29	8922.98	189.07	889.52	252.25	0.00	
	9100.00 9200.00	0.00 0.00	0.29 0.29	9022.98 9122.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	9300.00	0.00	0.29	9222.98	189.07	889.52	252.25	0.00	
	9400.00	0.00	0.29	9322.98	189.07	889.52	252.25	0.00	
	9500.00	0.00	0.29	9422.98	189.07	889.52	252.25	0.00	
	9600.00	0.00	0.29	9522.98	189.07	889.52	252.25	0.00	
	9700.00	0.00	0.29	9622.98	189.07	889.52	252.25	0.00	
	9800.00	0.00	0.29	9722.98	189.07	889.52	252.25	0.00	
	9900.00	0.00	0.29	9822.98	189.07	889.52	252.25	0.00	
	9934.02	0.00	0.29	9857.00	189.07	889.52	252.25	0.00	Bone Spring 1st
	10000.00	0.00	0.29	9922.98	189.07	889.52	252.25	0.00	
	10100.00 10152.02	0.00 0.00	0.29 0.29	10022.98 10075.00	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	Bone Spring 2nd
	10200.00	0.00	0.29	10122.98	189.07	889.52	252.25	0.00	bone spring zhu
	10300.00	0.00	0.29	10222.98	189.07	889.52	252.25	0.00	
	10400.00	0.00	0.29	10322.98	189.07	889.52	252.25	0.00	
	10500.00	0.00	0.29	10422.98	189.07	889.52	252.25	0.00	
	10600.00	0.00	0.29	10522.98	189.07	889.52	252.25	0.00	
	10658.02	0.00	0.29	10581.00	189.07	889.52	252.25	0.00	3rd Bone Spring Lime
	10700.00	0.00	0.29	10622.98	189.07	889.52	252.25	0.00	
	10800.00	0.00	0.29	10722.98	189.07	889.52	252.25	0.00	
	10900.00	0.00	0.29	10822.98	189.07	889.52	252.25	0.00	
	11000.00	0.00	0.29	10922.98	189.07	889.52	252.25	0.00	
	11100.00 11200.00	0.00 0.00	0.29 0.29	11022.98 11122.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	11200.00	0.00	0.29	11222.98	189.07	889.52 889.52	252.25	0.00	
	11400.00	0.00	0.29	11222.98	189.07	889.52 889.52	252.25	0.00	
	11409.02	0.00	0.29	11332.00	189.07	889.52	252.25	0.00	Bone Spring 3rd
	11500.00	0.00	0.29	11422.98	189.07	889.52	252.25	0.00	
	11600.00	0.00	0.29	11522.98	189.07	889.52	252.25	0.00	
	11700.00	0.00	0.29	11622.98	189.07	889.52	252.25	0.00	
	11722.06	0.00	0.29	11645.04	189.07	889.52	252.25	0.00	KOP
	11800.00	7.79	0.29	11722.74	194.37	889.55	257.53	10.00	
	11831.68	10.96	0.29	11754.00	199.53	889.58	262.68	10.00	Wolfcamp / Point of Penetration
	11900.00	17.79	0.29	11820.14	216.48	889.66	279.60	10.00	
	12000.00	27.79	0.29	11912.21	255.18	889.86	318.20	10.00	
	12100.00	37.79	0.29	11996.17	309.27	890.13	372.18	10.00	
	12200.00	47.79 57.70	0.29	12069.45	377.12	890.48	439.88	10.00	
	12300.00 12400.00	57.79 67.79	0.29 0.29	12129.85 12175.51	456.66 545.48	890.88 891.33	519.25 607.87	10.00 10.00	
	12-100.00	51.19	0.29	12113.31	545.40	031.33	001.01	10.00	
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1	1	County:     Wellbore:     Decign:	Permit Plar			M 737H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 – NM Eart (NAD83)
_		-	Permit Plar						<b>Zone:</b> 3001 - NM East (NAD83)
	MD (ft)	INC (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
125	500.00	77.79	0.29	12205.05	640.89	891.81	703.07	10.00	
	500.00 520.33	87.79 89.83	0.29 0.29	12217.58 12218.00	739.97 760.29	892.31 892.41	801.93 822.21	10.00 10.00	Landing Point
	700.00	89.83	0.29	12218.24	839.96	892.82	901.70	0.00	Landing Forne
128	300.00	89.83	0.29	12218.54	939.96	893.32	1001.48	0.00	
	00.00	89.83	0.29	12218.85	1039.96	893.83	1101.26	0.00	
	00.00	89.83 89.83	0.29 0.29	12219.15 12219.45	1139.96 1239.96	894.34 894.84	1201.04 1300.82	0.00 0.00	
	200.00	89.83	0.29	12219.75	1339.95	895.35	1400.59	0.00	
	800.00	89.83	0.29	12220.06	1439.95	895.85	1500.37	0.00	
	100.00 500.00	89.83 89.83	0.29 0.29	12220.36 12220.66	1539.95 1639.95	896.36 896.87	1600.15 1699.93	0.00 0.00	
	500.00	89.83	0.29	12220.96	1739.95	897.37	1799.71	0.00	
	700.00	89.83	0.29	12221.27	1839.95	897.88	1899.48	0.00	
	300.00	89.83	0.29	12221.57	1939.94	898.39	1999.26	0.00	
	00.00 00.00	89.83 89.83	0.29 0.29	12221.87 12222.17	2039.94 2139.94	898.89 899.40	2099.04 2198.82	0.00 0.00	
	00.00	89.83	0.29	12222.48	2239.94	899.90	2298.60	0.00	
	200.00	89.83	0.29	12222.78	2339.94	900.41	2398.37	0.00	
	300.00 100.00	89.83 89.83	0.29 0.29	12223.08 12223.38	2439.94 2539.93	900.92 901.42	2498.15 2597.93	0.00 0.00	
	500.00	89.83	0.29	12223.56	2639.93	901.42 901.93	2697.71	0.00	
	500.00	89.83	0.29	12223.99	2739.93	902.43	2797.49	0.00	
	700.00	89.83	0.29	12224.29	2839.93	902.94	2897.26	0.00	
	300.00 900.00	89.83 89.83	0.29 0.29	12224.59 12224.90	2939.93 3039.93	903.45 903.95	2997.04 3096.82	0.00 0.00	
	00.00	89.83	0.29	12225.20	3139.92	904.46	3196.60	0.00	
	00.00	89.83	0.29	12225.50	3239.92	904.97	3296.38	0.00	
	200.00 300.00	89.83 89.83	0.29 0.29	12225.80 12226.11	3339.92 3439.92	905.47 905.98	3396.16 3495.93	0.00 0.00	
	100.00	89.83	0.29	12226.41	3539.92	906.48	3595.71	0.00	
	500.00	89.83	0.29	12226.71	3639.91	906.99	3695.49	0.00	
	500.00	89.83	0.29	12227.02	3739.91	907.50	3795.27	0.00	
	700.00 300.00	89.83 89.83	0.29 0.29	12227.32 12227.62	3839.91 3939.91	908.00 908.51	3895.05 3994.82	0.00 0.00	
	00.00	89.83	0.29	12227.92	4039.91	909.01	4094.60	0.00	
	00.00	89.83	0.29	12228.23	4139.91	909.52	4194.38	0.00	
	00.00 200.00	89.83 89.83	0.29 0.29	12228.53 12228.83	4239.90 4339.90	910.03 910.53	4294.16 4393.94	0.00 0.00	
	300.00	89.83	0.29	12229.13	4439.90	911.04	4493.71	0.00	
	400.00	89.83	0.29	12229.44	4539.90	911.55	4593.49	0.00	
	500.00 500.00	89.83 89.83	0.29 0.29	12229.74 12230.04	4639.90 4739.90	912.05 912.56	4693.27 4793.05	0.00 0.00	
	700.00	89.83	0.29	12230.04	4739.90	912.56	4892.83	0.00	
168	800.00	89.83	0.29	12230.65	4939.89	913.57	4992.60	0.00	
	00.00	89.83	0.29	12230.95	5039.89	914.08	5092.38	0.00	
	00.00	89.83 89.83	0.29 0.29	12231.25 12231.55	5139.89 5239.89	914.58 915.09	5192.16 5291.94	0.00 0.00	
	200.00	89.83	0.29	12231.86	5339.89	915.59	5391.72	0.00	
	800.00	89.83	0.29	12232.16	5439.88	916.10	5491.50	0.00	
	100.00 500.00	89.83 89.83	0.29 0.29	12232.46 12232.76	5539.88 5639.88	916.61 917.11	5591.27 5691.05	0.00 0.00	
	500.00	89.83	0.29	12233.07	5739.88	917.62	5790.83	0.00	
	700.00	89.83	0.29	12233.37	5839.88	918.12	5890.61	0.00	
	300.00	89.83	0.29	12233.67	5939.87	918.63 919.14	5990.39	0.00	
	00.00 00.00	89.83 89.83	0.29 0.29	12233.97 12234.28	6039.87 6139.87	919.14 919.64	6090.16 6189.94	0.00 0.00	
	00.00	89.83	0.29	12234.58	6239.87	920.15	6289.72	0.00	
	200.00	89.83	0.29	12234.88	6339.87	920.66	6389.50	0.00	
	300.00 100.00	89.83 89.83	0.29 0.29	12235.18 12235.49	6439.87 6539.86	921.16 921.67	6489.28 6589.05	0.00 0.00	
	500.00	89.83 89.83	0.29	12235.49	6639.86	921.67 922.17	6688.83	0.00	
186	500.00	89.83	0.29	12236.09	6739.86	922.68	6788.61	0.00	
	700.00	89.83	0.29	12236.39	6839.86	923.19	6888.39	0.00	
	300.00 900.00	89.83 89.83	0.29 0.29	12236.70 12237.00	6939.86 7039.86	923.69 924.20	6988.17 7087.94	0.00 0.00	
	00.00	89.83	0.29	12237.00	7039.86	924.20 924.70	7087.94	0.00	
191	00.00	89.83	0.29	12237.60	7239.85	925.21	7287.50	0.00	
	200.00	89.83	0.29	12237.91	7339.85	925.72	7387.28	0.00	
193	300.00	89.83	0.29	12238.21	7439.85	926.22	7487.06	0.00	

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on		County: Wellbore:	Lea		D STATE COI	M 737H			Geodetic System: US State Plane 1983 Datum: North American Datum 192 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
	19400.00	89.83	0.29	12238.51	7539.85	926.73	7586.84	0.00	
	19500.00	89.83	0.29	12238.82	7639.85	927.24	7686.61	0.00	
	19600.00	89.83	0.29	12239.12	7739.84	927.74	7786.39	0.00	
	19700.00	89.83	0.29	12239.42	7839.84	928.25	7886.17	0.00	
	19800.00	89.83	0.29	12239.72	7939.84	928.75	7985.95	0.00	
	19900.00	89.83	0.29	12240.03	8039.84	929.26	8085.73	0.00	
	20000.00	89.83	0.29	12240.33	8139.84	929.77	8185.50	0.00	
	20100.00	89.83	0.29	12240.63	8239.83	930.27	8285.28	0.00	
	20200.00	89.83	0.29	12240.93	8339.83	930.78	8385.06	0.00	
	20300.00	89.83	0.29	12241.24	8439.83	931.28	8484.84	0.00	
	20400.00	89.83	0.29	12241.54	8539.83	931.79	8584.62	0.00	
	20500.00	89.83	0.29	12241.84	8639.83	932.30	8684.39	0.00	
	20600.00	89.83	0.29	12242.14	8739.83	932.80	8784.17	0.00	
	20700.00	89.83	0.29	12242.45	8839.82	933.31	8883.95	0.00	
	20800.00	89.83	0.29	12242.75	8939.82	933.82	8983.73	0.00	
	20900.00	89.83	0.29	12243.05	9039.82	934.32	9083.51	0.00	
	21000.00	89.83	0.29	12243.35	9139.82	934.83	9183.28	0.00	
	21100.00	89.83	0.29	12243.66	9239.82	935.33	9283.06	0.00	
	21200.00	89.83	0.29	12243.96	9339.82	935.84	9382.84	0.00	
	21300.00	89.83	0.29	12244.26	9439.81	936.35	9482.62	0.00	
	21400.00	89.83	0.29	12244.56	9539.81	936.85	9582.40	0.00	
	21500.00	89.83	0.29	12244.87	9639.81	937.36	9682.18	0.00	
	21600.00	89.83	0.29	12245.17	9739.81	937.86	9781.95	0.00	
	21700.00	89.83	0.29	12245.47	9839.81	938.37	9881.73	0.00	
	21800.00	89.83	0.29	12245.77	9939.81	938.88	9981.51	0.00	
	21900.00	89.83	0.29	12246.08	10039.80	939.38	10081.29	0.00	
	22000.00	89.83	0.29	12246.38	10139.80	939.89	10181.07	0.00	
	22100.00	89.83	0.29	12246.68	10239.80	940.40	10280.84	0.00	
	22200.00	89.83	0.29	12246.98	10339.80	940.90	10380.62	0.00	
	22300.00 22400.00	89.83 89.83	0.29 0.29	12247.29 12247.59	10439.80 10539.79	941.41 941.91	10480.40 10580.18	0.00 0.00	
	22500.00	89.83	0.29	12247.39	10539.79	941.91	10580.18	0.00	
	22600.00	89.83	0.29	12247.09	10739.79	942.42	10779.73	0.00	
	22700.00	89.83	0.29	12248.50	10739.79	943.43	10879.51	0.00	
	22800.00	89.83	0.29	12248.80	10939.79	943.43 943.94	10979.29	0.00	
	22900.00	89.83	0.29	12249.10	11039.79	944.44	11079.07	0.00	
	23000.00	89.83	0.29	12249.10	11139.78	944.95	11178.85	0.00	
	23100.00	89.83	0.29	12249.41	11239.78	944.95 945.46	11278.62	0.00	
	23200.00	89.83	0.29	12250.01	11239.78	945.96 945.96	11278.62	0.00	
	23200.00	89.83	0.29	12250.01		945.90 946.47	11378.40	0.00	
	23400.00	89.83	0.29		11539.78	946.97	11478.18	0.00	
	23500.00	89.83	0.29	12250.92		947.48	11677.74	0.00	
	23600.00	89.83	0.29	12251.22		947.99	11777.51	0.00	
	23700.00	89.83	0.29	12251.52		948.49	11877.29	0.00	
	23800.00	89.83	0.29	12251.83		949.00	11977.07	0.00	
	23900.00	89.83	0.29	12252.13		949.51	12076.85	0.00	
	24000.00	89.83	0.29	12252.43		950.01	12176.63	0.00	
	24100.00	89.83	0.29		12239.77	950.52	12276.41	0.00	
	24200.00	89.83	0.29	12253.04		951.02	12376.18	0.00	
	24300.00	89.83	0.29		12439.76	951.53	12475.96	0.00	
	24400.00	89.83	0.29		12539.76	952.04	12575.74	0.00	
	24500.00	89.83	0.29	12253.94		952.54	12675.52	0.00	
	24600.00	89.83	0.29		12739.76	953.05	12775.30	0.00	
	24700.00	89.83	0.29	12254.55		953.55	12875.07	0.00	
	24800.00	89.83	0.29		12939.75	954.06	12974.85	0.00	
	24900.00	89.83	0.29	12255.15		954.57	13074.63	0.00	
	25000.00	89.83	0.29		13139.75	955.07	13174.41	0.00	
	25100.00	89.83	0.29	12255.76		955.58	13274.19	0.00	
	25105.09	89.83	0.29	12255.77		955.61	13279.27	0.00	exit
	25185.09	89.83	0.29	12256.00		956.01		0.00	BHL
	25105.09	89.83	0.29	12255.77	13244.84	955.61		0.00	

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#### 1. Geologic Formations

TVD of target	12256	Pilot hole depth	N/A
MD at TD:	25185	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	739		
Salt	1104		
Base of Salt	4373		
Delaware	4561		
Cherry Canyon	5769		
Brushy Canyon	6690		
1st Bone Spring Lime	8768		
Bone Spring 1st	9857		
Bone Spring 2nd	10075		
3rd Bone Spring Lime	10581		
Bone Spring 3rd	11332		
Wolfcamp	11754		

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

#### CHINCOTEAGUE 8-32 FED STATE COM 737H

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	764	0	764
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	11622	0	11622
6 3/4	5 1/2	20	P110HP	TALON RD	0	25185	0	12256

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

•All casing strings will be tested in accordance with 43 CFR 3172.

#### 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	408	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	376	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIII I	449	6757	13.2	1.44	Tail: Class H / C + additives
Production	62	9722	9	3.27	Lead: Class H /C + additives
Froduction	859	11722	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:	
			Anı	nular	Х	50% of rated working pressure	
Int 1	13-5/8"	5M		d Ram	Х		
	10 0/0	0111		Ram		5M	
				le Ram	Х		
			Other*			1000/ 0 1 1	
			Annul	ar (5M)	Х	100% of rated working	
							pressure
Production	13-5/8"	10M		d Ram	Х		
			Pipe Ram		10M		
				le Ram	Х		
			Other*				
			Annul	ar (5M)			
			Blind	d Ram			
			Pipe	Ram			
			Doub	le Ram			
			Other*			1	
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schema	atic.	
Y A variance is requested to r	un a 5 M a	nnular on a 10M s	system				

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

#### CHINCOTEAGUE 8-32 FED STATE COM 737H

#### 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
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#### 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 Rpeort and sbumitted to the BLM.			
	No logs are planned based on well control or offset log information.			
	Drill stem test? If yes, explain.			
	Coring? If yes, explain.			

Addition	al 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	6692
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

Ν	H2S is present
Y	H2S plan attached.

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, 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

<i>Cerved by IOCD: 3/31/2024 2:24:08 PM</i> U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: MUSTANG 8-17 FED COM	Well Location: T25S / R32E / SEC 8 / NWSE / 32.1445246 / -103.6954876	County or Parish/State: LEA / NM
Well Number: 737H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061873B	Unit or CA Name:	Unit or CA Number:
US Well Number:	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

### **Notice of Intent**

Sundry ID: 2800588

A ENACO

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/15/2024

Date proposed operation will begin: 07/13/2024

Type of Action: APD Change Time Sundry Submitted: 10:08

**Procedure Description:** Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name, BHL, and spacing on the subject well. Devon also requests casing design changes to slim hole and requesting variances for break testing and offline cementing. Please see attached updated C102, Drill plan, directional plan, spec sheets, break test and offline cementing variance. API: 30-025-53005 Permitted BHL: SWSE, 20 FSL, 1650 FEL, 17-25S-32E Proposed BHL: NENE, 20 FNL, 1235 FEL, 32-24S-32E Permitted Well name: MUSTANG 8-17 FED COM 737H Proposed Well name: CHINCOTEAGUE 8-32 FED STATE COM 737H

**NOI Attachments** 

#### **Procedure Description**

7.625\_x\_29.7\_P110\_HP\_Talon\_SFC\_\_7.900\_Performance\_Sheet\_20240715100748.pdf

5.5\_20\_\_P110HP\_TALON\_RD\_20240715100747.pdf

WA018439669\_CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_WL\_R2\_SIGNED\_20240713164826.pdf

break\_test\_variance\_BOP\_1\_15\_24\_20240713164825.pdf

Offline\_Cementing\_\_\_Variance\_Request\_20240713164823.pdf

9.625\_40lb\_J55\_SeAH\_20240713164824.pdf

CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_Directional\_Plan\_06\_25\_24\_20240713164822.pdf

CHINCOTEAGUE\_8\_32\_FED\_STATE\_COM\_737H\_slim\_hole\_20240713164822.pdf

R	eceived by OCD: 7/31/2024 2:24:08 PM Well Name: MUSTANG 8-17 FED COM	Well Location: T25S / R32E / SEC 8 / NWSE / 32.1445246 / -103.6954876	County or Parish/State: LEA 25 of 59 NM
	Well Number: 737H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMLC061873B	Unit or CA Name:	Unit or CA Number:
	US Well Number:	<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: CHELSEY GREEN Name: DEVON ENERGY PRODUCTION COMPANY LP Title: Regulatory Compliance Professional Street Address: 333 WEST SHERIDAN AVENUE City: OKLAHOMA CITY State: OK Phone: (405) 228-8595

Email address: CHELSEY.GREEN@DVN.COM

# **Field**

Representative Name: Street Address: City: State: Phone: Email address: Signed on: JUL 13, 2024 04:45 PM

Zip:

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP NMNM061873B
LOCATION:	Section 8, T.25 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico 🔽

WELL NAME & NO.:	Chincoteague 8-32 Fed State Com 737H
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1235'/E
ATS/API ID:	30-025-53005
APD ID:	10400084323
Sundry ID:	2800588
Date APD Submitted:	

•

# COA

r			
H2S	No		
Potash	None 🔽	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	Critical		
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🔽	
Other	□ 4 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	C Open Annulus	
Cementing	Contingency Squeeze	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	□ Water Disposal/Injection	COM	🗖 Unit
Special Requirements	Batch Sundry	Waste Prevention None	
Special Requirements Variance	✓ Break Testing	✓ Offline Cementing	Casing Clearance

# A. HYDROGEN SULFIDE

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

# **B.** CASING

- The 9-5/8 inch surface casing shall be set at approximately 800 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 inch in diameter.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 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.

# **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 6690' (449 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 376 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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

# 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 **10,000** (**10M**) psi. Variance is approved to use a **5000** (**5M**) Annular which shall be tested to **5000** (**5M**) psi.

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

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

# **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <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 (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

# **Offline** Cementing

Operator has been (Approved) to pump the proposed cement program offline in the Intermediate(s) interval.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Lea County: 575-689-5981.

# **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)
  - Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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.

### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

### C. DRILLING MUD

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

# D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

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disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Long Vo (LVO) 7/31/2024

# Received by OCD: 7/31/2024 2:24:08 PM

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BUI SUNDRY Do not use this	UNITED STATI PARTMENT OF THE I REAU OF LAND MAN NOTICES AND REPO form for proposals Use Form 3160-3 (A	ON	DRM APPROVED MB No. 1004-0137 res: October 31, 2021		
SUBMIT IN	ITRIPLICATE - Other instr	uctions on page 2		7. If Unit of CA/Agreen	ment, Name and/or No.
1. Type of Well Gas	Well Other			8. Well Name and No.	
2. Name of Operator				9. API Well No.	
3a. Address		3b. Phone No. (include area code	)	10. Field and Pool or E	Exploratory Area
4. Location of Well (Footage, Sec., T.	R.,M., or Survey Description	)		11. Country or Parish, S	State
12. CH	ECK THE APPROPRIATE B	OX(ES) TO INDICATE NATURE	OF NOTI	CE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TYI	PE OF AC	ΓΙΟΝ	
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic Fracturing	_	uction (Start/Resume) amation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction Plug and Abandon	_	omplete porarily Abandon	Other
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	er Disposal	
the proposal is to deepen direction the Bond under which the work w completion of the involved operat	hally or recomplete horizontal ill be perfonned or provide the ions. If the operation results i	ly, give subsurface locations and m e Bond No. on file with BLM/BIA n a multiple completion or recomp	easured ar . Required letion in a	nd true vertical depths of subsequent reports mus new interval, a Form 31	k and approximate duration thereof. If f all pertinent markers and zones. Attach to be filed within 30 days following 60-4 must be filed once testing has been ne operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)			
Т	itle		
Signature	vate		
THE SPACE FOR FEDER	AL OR STATE OF	ICE USE	
Approved by			
	Title		Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within a		fully to make to any c	department or agency of the United States

(Instructions on page 2)

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

### SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

# **Additional Information**

#### Location of Well

0. SHL: NWSE / 2512 FSL / 2130 FEL / TWSP: 25S / RANGE: 32E / SECTION: 8 / LAT: 32.1445246 / LONG: -103.6954876 (TVD: 0 feet, MD: 0 feet) PPP: NESE / 2534 FSL / 1650 FEL / TWSP: 25S / RANGE: 32E / SECTION: 8 / LAT: 32.144587 / LONG: -103.6939373 (TVD: 11754 feet, MD: 11795 feet) BHL: SWSE / 20 FSL / 1650 FEL / TWSP: 25S / RANGE: 32E / SECTION: 17 / LAT: 32.1231744 / LONG: -103.6940133 (TVD: 12256 feet, MD: 19880 feet)

#### 5/15/2024 6:31:14 PM

# U. S. Steel Tubular Products 7 625" 29 70lb/ft (0.375" Wall) Pr

7.625" 29.70lb/ft (0.375" Wall)	P110 HP	USS-TALON SFC™

MECHANICAL PROPERTIES	Pipe	USS-TALON SFC™		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON SFC™		
Outside Diameter	7.625	7.900	in.	
Wall Thickness	0.375		in.	
Inside Diameter	6.875	6.815	in.	
Standard Drift	6.750	6.750	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	29.70		lb/ft	
Plain End Weight	29.06		lb/ft	
SECTION AREA	Pipe	USS-TALON SFC™		
Critical Area	8.541	7.331	sq. in.	
Joint Efficiency		85.8	%	[2]
PERFORMANCE	Pipe	USS-TALON SFC™		
Minimum Collapse Pressure	7,260	7,260	psi	
Minimum Internal Yield Pressure	10,750	10,750	psi	
Minimum Pipe Body Yield Strength	1,068,000		lb	
Joint Strength		916,000	lb	
Compression Rating		916,000	lb	
Reference Length		20,560	ft	[5]
Maximum Uniaxial Bend Rating		64.4	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON SFC™		
Make-Up Loss		5.08	in.	
Minimum Make-Up Torque		30,000	ft-lb	[4]
Maximum Make-Up Torque		33,000	ft-lb	[4]
Maximum Operating Torque		80,500	ft-lb	[4]

# Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bend rating shown is structural only.

4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

#### Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com **MECHANICAL PROPERTIES** 

#### 21/2024 7:48:59 AM

[6]

#### **U. S. Steel Tubular Products** 5.500" 20.00lb/ft (0.361" Wall) P110 HP **USS-TALON HTQ™ RD**

Pipe

2/21/2024	7:48:

Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	13,150	13,150	psi	
	,			
Minimum Internal Yield Pressure	14,360	14,360	psi	
			psi Ib	
Minimum Internal Yield Pressure	14,360	14,360		
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength	14,360 729,000	14,360 	lb	
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength	14,360 729,000 	14,360  729,000	lb lb	   [5]
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating	14,360 729,000 	14,360  729,000 729,000	lb lb lb	   [5]
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length	14,360 729,000 	14,360  729,000 729,000 24,300	lb lb ft	
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating	14,360 729,000    	14,360  729,000 729,000 24,300 104.2	lb lb ft	
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating MAKE-UP DATA	14,360 729,000     <b>Pipe</b>	14,360  729,000 729,000 24,300 104.2 <b>USS-TALON HTQ™ RD</b>	lb lb lb ft deg/100 ft	
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating MAKE-UP DATA Make-Up Loss	14,360 729,000     <b>Pipe</b> 	14,360  729,000 729,000 24,300 104.2 USS-TALON HTQ™ RD 5.58	Ib Ib Ib ft deg/100 ft in.	[3]  

USS-TALON HTQ™ RD

## Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bend rating shown is structural only

- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380

1-877-893-9461 connections@uss.com www.usstubular.com

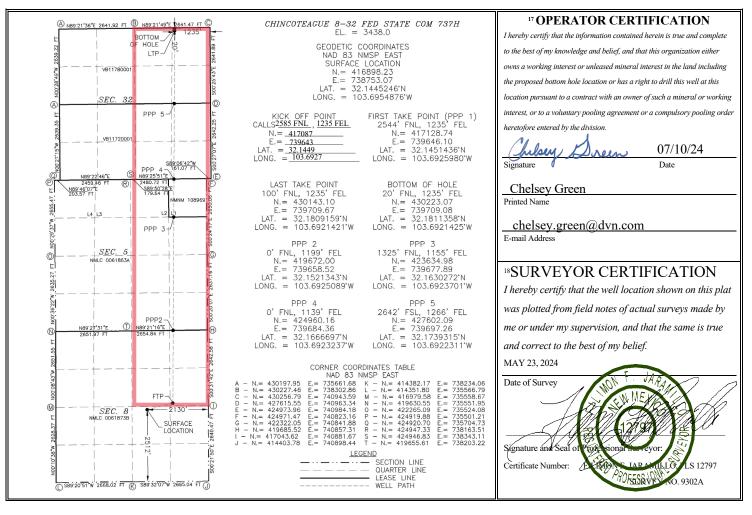
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

Page 42 of 59

			WELL LU	JCATIO	N AND ACK	REAGE DEDIC	ATION PLA	<b>A</b> I			
<sup>1</sup> A	PI Number	•		<sup>2</sup> Pool Cod	<sup>3</sup> Pool Name						
30-025-53005		9	98270		WC-025 0	G-08 S253216E	);UPPER W	<b>OLFCAMP</b>			
<sup>4</sup> Property C	ode				<sup>5</sup> Property	Name			<sup>6</sup> Well Number		
326213				CHINCO	TEAGUE 8-32	PED STATE CO	ОМ		737H		
<sup>7</sup> OGRID N	lo.				<sup>8</sup> Operator	Name			<sup>9</sup> Elevation		
6137			DEV	ON ENE	RGY PRODUC	CTION COMPA	NY, L.P.		3438.0		
<sup>™</sup> Surface Location											
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	ine County		
J	8	25 S	32 E		2512	SOUTH	2130	EAST	' LEA		
			пF	Bottom H	Iole Location	If Different Fr	om Surface				
UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	ine County		
Α	32	24 S	32 E		20 NORTH 1235 EAST L						
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint	or Infill	<sup>14</sup> Consolidation	n Code	<sup>15</sup> Order No.						
800.83											

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.



## Received by OCD: 7/31/2024 2:24:08 PM

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r	J.	t	e	r	J	t

API #

30-025-53005			
Operator Name:		Property Name:	Well Number
<b>DEVON ENERGY PR</b>	RODUCTION	CHINCOTEAGUE 8-32 FED STATE	737H
COMPANY, L.P.		СОМ	
			1

## Kick Off Point (KOP)

UL H	Section 8	Township 258	Range 32E	Lot	Feet 2585	From N/S	Feet 1235	From E/W EAST	County LEA
Latitude				Longitude				NAD	
	32.1449			10	)3.6927			83	

# First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	8	25S	32E		2544	NORTH	1235	EAST	LEA
Latitu 32.1	<sup>de</sup> 45143	6			Longitude 103.6925	5980			NAD 83

# Last Take Point (LTP)

Latitude Longitude	
32.1809159 103.692142	NAD 83

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

Is this well an infill well?

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

API #		
Operator Name:	Property Name:	Well Number

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 43 CFR 3172, 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 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 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



### **Offline Cementing**

#### Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

# **SěAH** 9.625" 40# .395" J-55

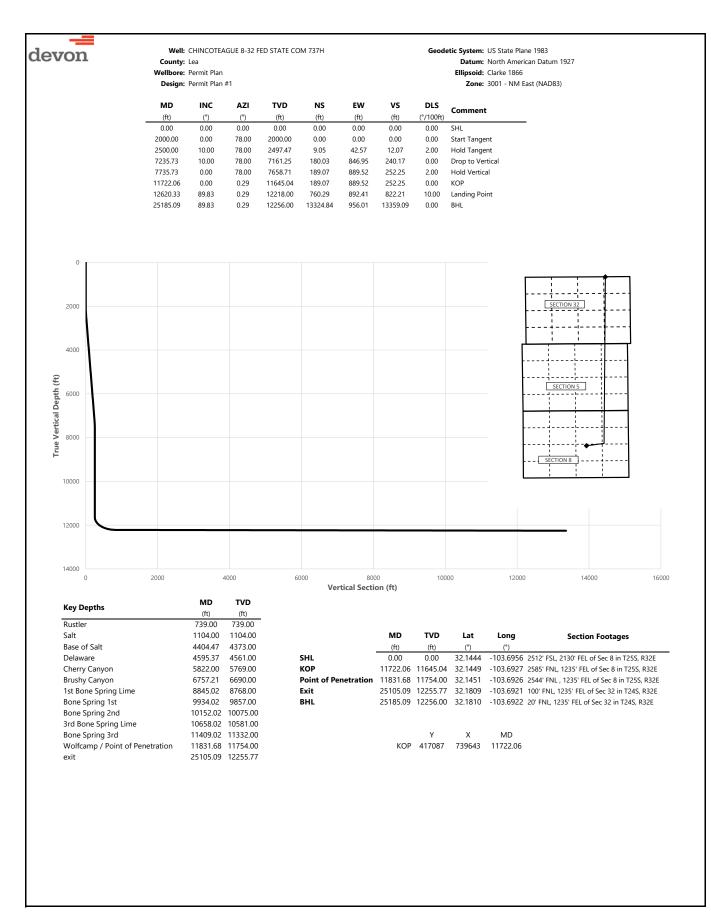
# Dimensions (Nominal)

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.
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.



Normal construction         Second Secon	dovron		Well:	CHINCOTE	AGUE 8-32 FE	D STATE CO	OM 737H			Geodetic System: US State Plane 1983
Department         Department <thdepartment< th="">         Department         Departme</thdepartment<>	devon		County:	Lea						Datum: North American Datum 1927
MD         NC         AZI         TVD         NS         EV         VID         PLS         Content           10         0         0         100         100         000										•
m         m         m         m         m         m         m         m         m           1000         000         20.00			Design:	Permit Plar	1#1					<b>Zone:</b> 3001 - NM East (NAD83)
no         n         n         n         n         n         n         n           1000         0.0		MD	INC	AZI	TVD	NS	EW	vs	DLS	Commont
100.00         0.00         7.00         0.00         0.00         0.00           100.00         0.00         7.00         0.00         0.00         0.00         0.00           100.00         0.00         7.00         0.00         0.00         0.00         0.00         0.00           100.00         0.00         7.00         0.00         0.00         0.00         0.00         0.00           100.00         0.00         7.00         0.000         0.00         0.00         0.00         0.00           100.00         0.00         7.00         0.000         0.00         0.00         0.00         0.00           100.00         0.00         7.00         0	_									
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738000.007800780080000.000										
8000         0.00         7800         80.00         0.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Rustler</td></t<>										Rustler
10000         0.00         78.00         10000         0.00         0.00         0.00           1104.00         0.00         78.00         110.40         0.00         0.00         0.00         0.00         0.00           1300.00         0.00         78.00         1300.00         0.00         1.00         0.00         0.00         0.00           1300.00         0.00         78.00         1300.00         0.00         1.00         0.00         0.00         0.00           1300.00         0.00         78.00         1500.00         0.00         0.00         0.00         0.00         0.00           1300.00         0.00         78.00         1700.00         0.00         0.00         0.00         0.00         0.00           1100.00         0.00         78.00         1700.00         0.00         0.00         0.00         0.00         0.00           200.00         0.00         78.00         1700.00         0.00         1.00         1.00         1.00         1.00           200.00         1.00         78.00         2.99.90         1.80         1.33         8.00         1.00           200.00         1.000         78.00         2.99.90 <td></td> <td></td> <td></td> <td></td> <td>800.00</td> <td>0.00</td> <td></td> <td></td> <td></td> <td></td>					800.00	0.00				
1100.000.0078.001100.00 <td></td>										
104.000.0078.00104.000.000.000.000.000.00130.000.0078.00130.000.000.000.000.000.00150.000.0078.00150.000.000.000.000.000.00150.000.0078.00150.000.000.000.000.000.00170.000.0078.00170.000.000.000.000.000.00190.000.0078.00190.000.000.000.000.00190.000.0078.00190.000.000.000.000.00190.000.0078.00190.000.000.000.000.00190.00170.078.00299.943.401.341.342.00190.0010.0078.00299.943.401.341.342.00200.0010.0078.00299.943.401.341.342.00200.0010.0078.00299.941.351.341.00200.0010.0078.00279.241.351.341.00200.0010.0078.00299.941.341.342.00200.0010.0078.00299.941.351.341.00200.0010.0078.0038.371.541.541.541.54200.0010.0078.0038.372.146.240.00200.0010										
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140000.007										
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16000         0.00         78.00         70.00										
1700000.0078.0090.0090.000.000.000.0090.										
18000         0.00         7800         9000         0.00         0.00         0.00         0.00           20000         0.00         7800         9000         0.00         0.00         0.00         0.00         0.00           20000         0.00         7800         20000         0.00         0.00         0.00         0.00         0.00           20000         0.00         7800         2004         5.00         777         5.85         4.30         2.00           20000         0.00         7800         29877         5.00         2.77         7.3         2.00           20000         0.00         7800         29747         9.50         5.65         1.68         0.00           20000         0.00         7800         29853         1.216         1.55         4.30         0.00           20000         10.00         7800         29853         1.71         1.75         0.00           20000         10.00         7800         29853         1.71         1.75         0.00           30000         10.00         7800         38633         1.71         1.74.4         5.07         0.00           300000         10.00<										
200000.007800200000.000.000.00NotSurt Tangent200006.007800299343.266.831.942.00200006.007800299343.261.534.354.302.002400000.007800298779.502.777.32.0026000010.007800295551.2665.9561.880.0027000010.007800295551.2665.9561.6810.0027000010.0078002983732.7101.0513.140.0027000010.0078002983732.7101.0513.140.0037000010.0078002983731.7144.5700.0037000010.007800386333.1711.7444.5700.0037000010.0078003963754.752.9446.050.0036000010.0078003974645.212.226.160.0036000010.0078003974645.212.226.160.0037000010.0078003974645.212.226.020.0037000010.0078003974645.212.226.020.0037000010.0078003974645.229.050.0037000010.0078003974645.229.050.0037000010.0078003974645.22										
21000       2.00       7.800       29998       1.6       6.83       1.94       2.00         23000       6.00       7.800       2299.45       3.26       6.83       1.93       2.00         230000       6.00       7.800       2299.45       3.26       1.53       4.35       2.00         250000       10.00       7.800       2299.55       2.26       5.956       1.26       2.00         270000       10.00       7.800       259.55       2.26       5.956       1.26       2.00         280000       10.00       7.800       289.33       2.324       10.51       3.14       0.0         290000       10.00       7.800       289.33       3.26.1       1.44.4       5.47       0.0         300000       10.00       7.800       3.85.33       3.17.45       5.06       0.00         300000       10.00       7.800       3.85.72       4.15.4       15.44       5.54       0.00         340000       10.00       7.800       3.85.72       4.15.4       15.44       5.54       0.00         360000       10.00       7.800       3.85.72       5.92.9       10.37       0.00         36										
22000         4.00         78.00         2199.45         3.6         1.53         4.00           24000         6.00         78.00         2394.70         5.80         27.27         7.35         2.00           250000         10.00         78.00         259.50         12.62         52.56         12.69         0.00           260000         10.00         78.00         279.29         19.88         9.53         2.652         0.00           2800.00         10.00         78.00         279.29         19.88         9.53         2.652         0.00           2900.00         10.00         78.00         299.39         2.349         10.12         13.14         0.00           3100.00         10.00         78.00         289.37         2.76         16.147         45.77         0.00           3300.00         10.00         78.00         388.33         31.71         154.48         450.7         0.00           3300.00         10.00         78.00         383.37         154.5         154.4         450.40         0.00           3300.00         10.00         78.00         37.72         58.30         76.51         0.00         59.59         50.31         76.5										Start Tangent
23000         6.00         78.00         2299.45         3.26         1.35         4.35         2.00           250000         10.00         78.00         295.55         12.66         595.6         12.07         2.00           270000         10.00         78.00         2694.44         12.67         75.45         21.71         0.00           2800.00         10.00         78.00         2694.44         16.27         75.45         21.71         0.00           2800.00         10.00         78.00         299.39         2.34         10.13         13.34         0.00           3000.00         10.00         78.00         298.83         2.710         124.48         40.70         0.00           2200.00         10.00         78.00         388.53         3.178.45         50.64         0.00           3200.00         10.00         78.00         388.73         3178.45         51.24         60.06         0.00           3900.00         10.00         78.00         388.72         41.54         154.44         50.60         0.00           3900.00         10.00         78.00         387.22         53.92         20.35         44.55         10.00										
25000         1000         7800         24974         9.05         12.07         2.00         Hold Tangent           26000         1000         7800         28943         12.67         7.54         21.71         0.00           280000         1000         7800         289139         21.48         110.51         31.34         0.00           300000         1000         7800         289139         21.49         110.51         31.44         0.00           300000         1000         7800         289139         21.40         11.51         31.44         0.00           300000         1000         7800         388.35         3.71         14.44         45.79         0.00           300000         1000         7800         388.27         15.12         21.42         0.02           300000         1000         7800         388.79         15.12         21.42         0.02           300000         1000         7800         387.72         52.82         26.30         0.00           300000         1000         7800         377.72         55.8         26.31         7.55         0.00           300000         1000         7800         377.										
20000         1000         78.00         259.59         12.66         95.56         16.89         0.00           20000         10.00         78.00         279.291         19.88         93.53         26.52         0.00           290000         10.00         78.00         289.987         27.10         12.75         0.61         0.00           310000         10.00         78.00         289.87         27.10         12.75         0.61         0.00           300000         10.00         78.00         308.63         3.32         161.47         75.94         0.00           300000         10.00         78.00         388.79         41.54         15.44         40.97         0.00           300000         10.00         78.00         388.79         41.55         25.42         0.00           300000         10.00         78.00         387.72         55.98         26.33         74.69         0.00           300000         10.00         78.00         397.42         55.92         20.37         14.32         0.00           400000         10.00         78.00         397.46         53.00         0.00         36.00         0.00           4000.00 <td></td> <td>2400.00</td> <td>8.00</td> <td>78.00</td> <td>2398.70</td> <td>5.80</td> <td>27.27</td> <td>7.73</td> <td>2.00</td> <td></td>		2400.00	8.00	78.00	2398.70	5.80	27.27	7.73	2.00	
27000       10.00       780.0       2782.91       12.88       95.3       25.2       0.00         280000       10.00       78.00       2891.39       23.49       110.51       31.34       0.00         300000       10.00       78.00       2891.37       21.10       12.75       36.16       0.00         310000       10.00       78.00       3088.35       30.32       16.147       45.79       0.00         320000       10.00       78.00       3285.31       37.31       174.44       55.61       0.00         330000       10.00       78.00       3283.71       41.54       155.61       0.00         350000       10.00       78.00       3283.71       45.15       21.24       65.06       0.00         370000       10.00       78.00       369.77       45.15       21.24       65.06       0.00         370000       10.00       78.00       367.72       55.95       283.37       74.51       0.00         380000       10.00       78.00       377.72       55.95       84.32       0.00       0.00         400000       10.00       78.00       437.02       75.11       365.29       10.39 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold Tangent</td></t<>										Hold Tangent
2800.0         10.00         78.00         278.9         15.88         93.53         26.52         0.00           2900.00         10.00         78.00         2891.30         281.39         21.51         13.34         0.00           3100.00         10.00         78.00         2891.87         27.10         127.50         36.16         0.00           3100.00         10.00         78.00         3086.33         30.71         144.48         40.97         0.00           3300.00         10.00         78.00         383.79         11.54         155.44         45.44         50.00           3500.00         10.00         78.00         383.79         41.54         155.44         55.44         0.00           3600.00         10.00         78.00         359.57         45.15         22.42         60.24         0.00           3700.00         10.00         78.00         367.62         55.59         280.37         75.51         0.00           4000.00         10.00         78.00         367.62         55.59         280.37         75.51         0.00           4000.00         10.00         78.00         367.62         75.53         76.51         74.59         0.00<										
2900       0.000       78.00       2989.37       27.00       127.50       36.16       0.00         3100.00       10.00       78.00       3088.35       30.71       144.48       40.97       0.00         3200.00       10.00       78.00       3285.31       37.33       17.44       50.61       0.00         3400.00       10.00       78.00       3285.31       37.31       17.44       50.61       0.00         3500.00       10.00       78.00       3283.71       37.51       50.61       0.00         3600.00       10.00       78.00       3482.27       45.15       21.24       60.24       0.00         3700.00       10.00       78.00       3679.23       52.37       246.40       69.87       0.00         3800.00       10.00       78.00       3977.2       55.82       263.38       74.69       0.00         3900.00       10.00       78.00       3977.41       65.62       19.35       0.00         4100.00       10.00       78.00       437.40       77.81       365.29       10.359       0.00         4400.00       10.00       78.00       457.65       84.87       103.39       0.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
3100.00       1000       78.00       3186.83       34.22       161.47       45.79       0.00         3300.00       10.00       78.00       3186.83       34.32       161.47       45.79       0.00         3400.00       10.00       78.00       328.53       37.93       17.44       50.61       0.00         3500.00       10.00       78.00       388.27       41.54       195.44       55.42       0.00         3600.00       10.00       78.00       368.27       48.75       22.94       65.06       0.00         3700.00       10.00       78.00       367.23       52.37       24.64       69.87       0.00         3800.00       10.00       78.00       377.25       55.92       263.38       74.69       0.00         4100.00       10.00       78.00       377.16       66.21       27.34       81.32       9.96       0.00         4200.00       10.00       78.00       477.16       66.81       31.43       9.91       0.00         4400.00       10.00       78.00       457.03       37.25       18.22       10.30       Pase of Salt         450.00       10.00       78.00       457.55       84.22 </td <td></td>										
32000         10.00         78.00         3168.83         37.33         178.45         50.61         0.00           3300.00         10.00         78.00         3383.73         178.45         50.61         0.00           3500.00         10.00         78.00         3383.73         178.45         50.61         0.00           3600.00         10.00         78.00         388.72         45.15         212.42         60.24         0.00           3600.00         10.00         78.00         3580.72         52.58         263.38         74.69         0.00           3900.00         10.00         78.00         377.72         55.98         263.37         75.51         0.00           4000.00         10.00         78.00         377.61         66.81         31.32         93.66         0.00           4000.00         10.00         78.00         477.16         70.43         31.32         93.66         0.00           4400.00         10.00         78.00         475.01         77.81         366.29         103.39         0.00           4500.00         10.00         78.00         456.55         81.28         182.41         0.00           4600.00         10.00<										
3400.00         10.00         78.00         3283.31         37.34         175.45         50.61         0.00           3400.00         10.00         78.00         3383.79         41.54         195.44         100           3600.00         10.00         78.00         3482.27         42.15         212.42         60.24         0.00           3600.00         10.00         78.00         3677.20         55.98         263.38         74.69         0.00           3800.00         10.00         78.00         3777.20         55.98         263.38         74.69         0.00           3900.00         10.00         78.00         3771.6         63.12         273.5         84.32         0.00           4000.00         10.00         78.00         477.16         67.48         314.34         89.14         0.00           4000.00         10.00         78.00         477.16         77.81         366.50         10.30         0.00         Base of Salt           4400.00         10.00         78.00         4561.00         84.70         394.22         113.00         0.00           4500.00         10.00         78.00         4565.5         84.73         392.64         10.00										
340000       10.00       78.00       338.379       41.54       195.44       55.42       0.00         3500.00       10.00       78.00       3580.72       45.15       212.42       60.24       0.00         3700.00       10.00       78.00       3590.75       48.76       22.941       65.06       0.00         3700.00       10.00       78.00       377.72       55.98       26.338       74.69       0.00         3900.00       10.00       78.00       397.68       63.20       297.35       84.32       0.00         4000.00       10.00       78.00       477.16       66.81       311.34       89.77       0.00         4200.00       10.00       78.00       477.12       74.04       346.31       98.77       0.00         4400.01       10.00       78.00       473.00       77.81       366.29       103.80       0.00       8ase of Salt         4500.00       10.00       78.00       4561.00       84.70       398.48       113.00       0.00       Palware         4500.00       10.00       78.00       4565.56       84.77       399.26       113.22       0.00       Palware       Palware       Palware       Palware										
360.00       10.00       78.00       3507.25       48.76       229.41       65.06       0.00         3700.00       10.00       78.00       3677.25       55.93       286.38       74.69       0.00         3900.00       10.00       78.00       377.27       55.95       280.37       74.61       0.00         4000.00       10.00       78.00       377.16       66.81       314.34       89.14       0.00         4100.00       10.00       78.00       477.16       66.81       314.34       89.14       0.00         4200.00       10.00       78.00       477.16       66.81       314.34       89.14       0.00         4400.00       10.00       78.00       477.16       70.43       313.22       93.60       0.00         4400.01       10.00       78.00       437.00       77.81       366.29       103.80       0.00         4400.01       10.00       78.00       456.56       84.70       398.48       113.00       0.00         4595.37       10.00       78.00       456.56       84.70       398.41       13.04       0.00         4500.00       10.00       78.00       456.55       84.37       392.										
3700.00       10.00       78.00       3777.72       55.98       263.8       74.69       0.00         3800.00       10.00       78.00       3777.72       55.98       280.37       75.10       0.00         4000.00       10.00       78.00       374.68       63.20       297.35       84.32       0.00         4100.00       10.00       78.00       477.16       66.81       314.34       89.14       0.00         4200.00       10.00       78.00       477.16       76.43       313.22       93.96       0.00         4300.00       10.00       78.00       4270.12       74.04       348.31       98.7       0.00         4400.01       10.00       78.00       437.00       77.55       365.29       103.80       0.00       Base of Salt         4500.00       10.00       78.00       4561.00       84.70       398.48       113.20       0.00       Palaware         460.00       10.00       78.00       4561.00       84.70       398.48       113.22       0.00       Palaware         450.00       10.00       78.00       4561.00       95.70       113.22       0.00       Palaware       Palaware       Palaware       Pa		3500.00	10.00	78.00	3482.27	45.15	212.42	60.24	0.00	
380000       10.00       78.00       377.72       55.98       263.38       74.69       0.00         3900.00       10.00       78.00       3976.20       595.9       280.37       79.51       0.00         4000.00       10.00       78.00       3974.68       63.20       297.35       84.32       0.00         4100.00       10.00       78.00       477.16       66.81       314.34       89.14       0.00         4200.00       10.00       78.00       477.12       74.04       348.31       99.77       0.00         4400.00       10.00       78.00       476.05       77.65       362.9       103.50       0.00         4404.47       10.00       78.00       4363.00       77.61       366.05       108.41       0.00         450.00       10.00       78.00       4561.00       84.70       392.65       118.44       0.00         4600.00       10.00       78.00       4565.56       84.87       313.22       0.00         4700.00       10.00       78.00       4565.56       84.71       392.65       118.04       0.00         500.00       10.00       78.00       4565.25       92.02       132.49 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
3900.0       10.0       78.00       387.620       59.59       280.37       79.51       0.00         4000.0       10.00       78.00       397.68       63.20       297.35       84.32       0.00         4200.00       10.00       78.00       471.6       61.81       314.34       89.14       0.00         4200.00       10.00       78.00       470.12       74.04       381.32       93.96       0.00         4400.00       10.00       78.00       437.00       77.81       366.05       103.80       0.00         4404.47       10.00       78.00       437.00       77.81       366.05       103.80       0.00         4595.57       10.00       78.00       456.56       84.87       399.26       113.22       0.00         4600.00       10.00       78.00       456.55       84.87       399.26       113.22       0.00         4700.00       10.00       78.00       456.57       92.59       433.23       122.86       0.00         4800.00       10.00       78.00       456.57       92.92       127.67       0.00         5100.00       10.00       78.00       556.47       106.53       501.18       142										
4000.0010.0078.003974.6863.20297.3584.320.004100.0010.0078.004171.6470.433131.2393.960.004300.0010.0078.004270.1274.04348.3198.770.004400.0010.0078.004373.0077.61365.29103.800.004404.4710.0078.004373.0077.81366.52103.800.00Base of Salt4500.0010.0078.004467.0881.26382.22108.410.004595.3710.0078.004565.5648.87399.26113.200.004700.0010.0078.004661.0484.84416.25118.040.004700.0010.0078.004661.0484.84416.25118.040.004800.0010.0078.004661.0095.70450.22122.660.005000.0010.0078.00557.97102.92484.19137.300.005000.0010.0078.00555.37102.92484.19137.300.005000.0010.0078.00555.37102.92484.19137.300.005000.0010.0078.00555.37102.92484.19137.300.005000.0010.0078.00555.3712.97555.15151.750.005000.0010.0078.00555.3712.97556.12156.570.005										
4200.0010.0078.004171.6470.43331.3293.960.004300.0010.0078.004270.1274.04348.1198.770.004400.4710.0078.004373.0077.61366.05103.800.00Base of Salt4500.0010.0078.004467.0881.26382.28108.410.004595.3710.0078.004561.0084.70398.48113.000.004600.0010.0078.004664.0488.48416.25118.040.004700.0010.0078.004664.0488.48416.25118.040.004800.0010.0078.004664.0488.48416.25118.040.005000.0010.0078.00456.5680.77452.2127.670.005000.0010.0078.00455.45106.53501.18142.120.005000.0010.0078.00555.45106.55501.18142.120.005000.0010.0078.00555.37102.92484.19137.300.005000.0010.0078.00555.37102.92484.19137.300.005000.0010.0078.00555.37102.97552.13156.750.005000.0010.0078.00555.37124.58586.10166.200.005000.0010.0078.00556.37124.58586.10166.200.005			10.00							
4300.0010.0078.004270.1274.04348.3198.770.004400.0010.0078.004368.6077.65365.29103.590.004404.4710.0078.004373.0077.81366.05103.800.004500.0010.0078.004467.0881.26382.82108.410.004595.3710.0078.004561.0084.70398.48113.000.00Delaware4600.0010.0078.004565.5684.87399.26113.220.004700.0010.0078.004565.5684.87399.26113.220.004700.0010.0078.004565.5684.87399.26113.220.004800.0010.0078.004565.5584.87122.860.005000.0010.0078.004565.55450.22127.670.005000.0010.0078.005156.45106.53501.18142.120.005000.0010.0078.005156.45106.53501.18142.120.005000.0010.0078.005254.93110.14518.16146.940.005000.0010.0078.005550.37120.97509.12161.390.005000.0010.0078.005550.37120.97569.12161.390.005000.0010.0078.005550.37120.97569.12161.390.005800.0010.00										
4400.00       10.00       78.00       4368.60       77.65       365.29       103.59       0.00         4404.47       10.00       78.00       4373.00       77.81       366.05       103.80       0.00       Base of Sait         4500.00       10.00       78.00       4467.08       81.26       382.28       108.41       0.00         4595.37       10.00       78.00       4561.00       84.70       392.6       113.22       0.00         4600.00       10.00       78.00       4565.56       84.87       399.26       113.22       0.00         4700.00       10.00       78.00       4564.04       84.84       416.25       118.04       0.00         4900.00       10.00       78.00       4561.00       95.70       450.22       127.67       0.00         5000.00       10.00       78.00       4959.48       99.31       467.20       132.49       0.00         5100.00       10.00       78.00       505.77       102.92       484.19       137.30       0.00         5200.00       10.00       78.00       515.45       117.35       535.15       151.75       0.00         5000.00       10.00       78.00       555										
4404.4710.0078.004373.0077.81366.05103.800.00Base of Salt4500.0010.0078.004467.0881.26382.28108.410.004595.3710.0078.004561.5084.70398.48113.000.00Delaware4600.0010.0078.004565.5684.87399.26113.220.004700.0010.0078.004664.0488.48416.25118.040.004800.0010.0078.004661.0095.70450.22127.670.005000.0010.0078.00455.5699.31467.20132.490.005100.0010.0078.00456.45106.53501.18142.120.005200.0010.0078.00555.3710.51151.750.005300.0010.0078.00555.3710.65.3551.31156.750.005500.0010.0078.00555.3712.07569.12161.390.005600.0010.0078.00555.3712.07569.12161.390.005700.0010.0078.00556.3712.97569.12161.390.005800.0010.0078.005454.8113.80620.0717.840.005900.0010.0078.005464.9113.80620.07175.840.005900.0010.0078.005454.8113.80620.07175.840.00 <tr<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<<>										
4595.3710.0078.004561.0084.70398.48113.000.00Delaware4600.0010.0078.004565.5684.87399.26113.220.004700.0010.0078.004565.5684.87392.6113.220.004700.0010.0078.004661.0085.70450.22122.660.004900.0010.0078.004661.2095.70450.22127.670.005000.0010.0078.004959.4899.31467.20132.490.005100.0010.0078.005057.97102.92484.19137.300.005200.0010.0078.005156.45106.15511.6146.940.005300.0010.0078.005553.31113.75535.15151.750.00560.0010.0078.005555.37120.97569.12161.390.00560.0010.0078.00555.31120.97569.12161.390.00560.0010.0078.00555.31120.97569.12161.390.005800.0010.0078.00556.31124.58586.10162.000.005800.0010.0078.00554.51124.58586.10162.000.005800.0010.0078.00554.51124.58586.10162.000.005800.0010.0078.00584.58131.8062.07175.840.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Base of Salt</td></td<>										Base of Salt
4600.0010.0078.004565.5684.87399.26113.220.004700.0010.0078.004664.0488.48416.25118.040.004800.0010.0078.004762.5292.09433.23122.860.004900.0010.0078.004861.0095.70450.22127.670.005000.0010.0078.004959.4899.31467.20132.490.005100.0010.0078.00505.797102.92484.19137.300.005200.0010.0078.005156.45106.53501.18142.120.005300.0010.0078.005254.93110.14518.16146.940.005400.0010.0078.005550.37120.97569.12161.390.005500.0010.0078.005564.51124.58586.10166.200.005800.0010.0078.005448.85124.58586.10166.200.005800.0010.0078.00548.81131.80620.07175.840.005800.0010.0078.005484.81131.80620.07175.840.005800.0010.0078.005442.91135.41637.06180.650.005800.0010.0078.00549.00128.99606.82172.080.005800.0010.0078.005442.91135.41637.06180.650.006000.										
4700.0010.0078.004664.0488.48416.25118.040.004800.0010.0078.004762.5292.09433.23122.860.004900.0010.0078.004861.0095.70450.2127.670.005000.0010.0078.005057.97102.92484.19137.300.005000.0010.0078.005156.45106.53501.18142.120.005000.0010.0078.005254.93110.14518.16146.940.005000.0010.0078.005353.41113.75535.15151.750.005000.0010.0078.005553.37120.97569.12161.390.005000.0010.0078.005553.31117.36552.13156.770.005000.0010.0078.005563.31120.97569.12161.390.005000.0010.0078.005563.31120.97569.12161.390.005000.0010.0078.005747.33128.19603.09171.020.005800.0010.0078.005747.33128.19603.09171.020.005800.0010.0078.005845.81131.80620.07175.840.005800.0010.0078.00594.29135.41630.0610.006000.0010.0078.00594.29135.41630.60.006000.0010.0078.0										Delaware
4800.0010.0078.004762.5292.09433.23122.860.004900.0010.0078.004861.0095.70450.22127.670.005000.0010.0078.004959.4899.31467.20132.490.005100.0010.0078.005057.97102.92484.19137.300.005200.0010.0078.00515.645106.53501.18142.120.005300.0010.0078.005254.93110.14518.16146.940.005400.0010.0078.005451.89117.36552.13156.570.005500.0010.0078.005550.37120.97569.12161.390.005600.0010.0078.005564.55124.58586.10166.200.005800.0010.0078.005564.55124.58586.10166.200.005800.0010.0078.005747.33128.19603.09171.020.005800.0010.0078.005845.81131.80620.07175.840.005900.0010.0078.005845.81131.80630.00180.650.006000.0010.0078.005844.29135.41637.66180.650.006000.0010.0078.00594.29135.41637.66180.650.006000.0010.0078.00644.77139.22654.04185.470.00600										
4900.0010.0078.004861.0095.70450.22127.670.005000.0010.0078.004959.4899.31467.20132.490.005100.0010.0078.005057.97102.92484.19137.300.005200.0010.0078.00515.645106.53501.18142.120.005300.0010.0078.005254.93110.14518.16146.940.005400.0010.0078.005353.41113.75535.15151.750.005500.0010.0078.005550.37120.97569.12161.390.005600.0010.0078.005564.85124.58586.10166.200.005700.0010.0078.005648.85124.58586.10166.200.005800.0010.0078.005747.33128.19603.09171.020.005800.0010.0078.00584.81131.80600.77172.880.005800.0010.0078.00584.81131.80630.71180.650.005900.0010.0078.00584.81131.80630.71175.840.006000.0010.0078.006042.77139.02654.41185.470.006100.0010.0078.006141.25142.63671.03190.290.006200.0110.0078.00623.73146.24688.01195.100.00 <td></td>										
5100.00       10.00       78.00       5057.97       102.92       484.19       137.30       0.00         5200.00       10.00       78.00       5156.45       106.53       501.18       142.12       0.00         5300.00       10.00       78.00       5254.93       110.14       518.16       146.94       0.00         5400.00       10.00       78.00       5353.41       113.75       535.15       151.75       0.00         5500.00       10.00       78.00       5451.89       117.36       552.13       156.57       0.00         5600.00       10.00       78.00       5451.89       117.36       552.13       156.57       0.00         5700.00       10.00       78.00       5550.37       122.97       569.12       161.39       0.00         5800.00       10.00       78.00       5548.85       124.58       586.10       166.20       0.00         5802.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00       Cherry Canyon         6000.0.00       10				78.00			450.22			
5200.00       10.00       78.00       5156.45       106.53       501.18       142.12       0.00         5300.00       10.00       78.00       5254.93       110.14       518.16       146.94       0.00         5400.00       10.00       78.00       5353.41       113.75       535.15       151.75       0.00         5500.00       10.00       78.00       5451.89       117.36       556.13       166.57       0.00         5600.00       10.00       78.00       5550.37       120.97       569.12       161.39       0.00         5700.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5800.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00         5800.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00       Cherry Canyon         5800.00       10.00       78.00       5944.29       135.41       637.06       180.65       0.00       Cherry Canyon         5800.00       10.00       78.00       6442.77       139.02       654.04       185.47       0.00       Cherry Canyon <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
5300.00       10.00       78.00       5254.93       110.14       518.16       146.94       0.00         5400.00       10.00       78.00       5353.41       113.75       535.15       151.75       0.00         5500.00       10.00       78.00       5451.89       117.36       552.13       156.57       0.00         5600.00       10.00       78.00       5550.37       120.97       569.12       161.39       0.00         5700.00       10.00       78.00       5648.85       124.58       586.10       166.20       0.00         5800.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5822.00       10.00       78.00       5769.51       131.80       620.07       175.84       0.00         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       6942.77       139.02       654.04       185.57       0.00         6100.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6200.00       10.00       78.00       6239.73       <										
5400.00       10.00       78.00       5353.41       113.75       535.15       151.75       0.00         5500.00       10.00       78.00       5451.89       117.36       552.13       156.57       0.00         5600.00       10.00       78.00       5550.37       120.97       569.12       161.39       0.00         5700.00       10.00       78.00       5648.85       124.58       586.10       166.20       0.00         5800.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5822.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       594.429       135.41       637.66       180.65       0.00         6100.00       10.00       78.00       6142.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00										
5600.00       10.00       78.00       5550.37       120.97       569.12       161.39       0.00         5700.00       10.00       78.00       5648.85       124.58       586.10       166.20       0.00         5800.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5822.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       5944.29       135.41       637.66       180.65       0.00         6100.00       10.00       78.00       6142.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00       6239.73       146.24       688.01       195.10       0.00										
5700.00       10.00       78.00       5648.85       124.58       586.10       166.20       0.00         5800.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5822.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       5944.29       135.41       637.06       180.65       0.00         6100.00       10.00       78.00       6142.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00       6239.73       146.24       688.01       195.10       0.00										
5800.00       10.00       78.00       5747.33       128.19       603.09       171.02       0.00         5822.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       5944.29       135.41       637.06       180.65       0.00         6100.00       10.00       78.00       6042.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00       623.73       146.24       688.01       195.10       0.00										
5822.00       10.00       78.00       5769.00       128.99       606.82       172.08       0.00       Cherry Canyon         5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       5944.29       135.41       637.06       180.65       0.00         6100.00       10.00       78.00       6042.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00       6239.73       146.24       688.01       195.10       0.00										
5900.00       10.00       78.00       5845.81       131.80       620.07       175.84       0.00         6000.00       10.00       78.00       5944.29       135.41       637.06       180.65       0.00         6100.00       10.00       78.00       6042.77       139.02       654.04       185.47       0.00         6200.00       10.00       78.00       6141.25       142.63       671.03       190.29       0.00         6300.00       10.00       78.00       6239.73       146.24       688.01       195.10       0.00										Cherry Canyon
6100.00 10.00 78.00 6042.77 139.02 654.04 185.47 0.00 6200.00 10.00 78.00 6141.25 142.63 671.03 190.29 0.00 6300.00 10.00 78.00 6239.73 146.24 688.01 195.10 0.00										
6200.00 10.00 78.00 6141.25 142.63 671.03 190.29 0.00 6300.00 10.00 78.00 6239.73 146.24 688.01 195.10 0.00										
6300.00 10.00 78.00 6239.73 146.24 688.01 195.10 0.00										

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evon		County:		AGUE 8-32 FE	D STATE CO	M 737H			Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866
			Permit Plar						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 6500.00	(°) 10.00	(°) 78.00	(ft) 6436.70	(ft) 153.46	(ft) 721.98	(ft) 204.74	(°/100ft) 0.00	
	6600.00	10.00	78.00	6535.18	157.07	738.97	209.55	0.00	
	6700.00	10.00	78.00	6633.66	160.68	755.96	214.37	0.00	
	6757.21	10.00	78.00	6690.00	162.75	765.67	217.13	0.00	Brushy Canyon
	6800.00	10.00	78.00	6732.14	164.29	772.94	219.19	0.00	
	6900.00 7000.00	10.00 10.00	78.00 78.00	6830.62 6929.10	167.90 171.52	789.93 806.91	224.00 228.82	0.00 0.00	
	7100.00	10.00	78.00	7027.58	175.13	823.90	233.64	0.00	
	7200.00	10.00	78.00	7126.06	178.74	840.88	238.45	0.00	
	7235.73	10.00	78.00	7161.25	180.03	846.95	240.17	0.00	Drop to Vertical
	7300.00	8.71	78.00	7224.66	182.20	857.17	243.07	2.00	
	7400.00	6.71	78.00	7323.75	184.99	870.30	246.80	2.00	
	7500.00 7600.00	4.71 2.71	78.00 78.00	7423.25 7523.04	187.06 188.41	880.04 886.38	249.56 251.36	2.00 2.00	
	7700.00	0.71	78.00	7622.99	189.03	889.31	252.19	2.00	
	7735.73	0.00	78.00	7658.71	189.07	889.52	252.25	2.00	Hold Vertical
	7800.00	0.00	0.29	7722.98	189.07	889.52	252.25	0.00	
	7900.00	0.00	0.29	7822.98	189.07	889.52	252.25	0.00	
	8000.00 8100.00	0.00 0.00	0.29 0.29	7922.98 8022.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	8100.00	0.00	0.29	8022.98 8122.98	189.07	889.52 889.52	252.25 252.25	0.00	
	8300.00	0.00	0.29	8222.98	189.07	889.52	252.25	0.00	
	8400.00	0.00	0.29	8322.98	189.07	889.52	252.25	0.00	
	8500.00	0.00	0.29	8422.98	189.07	889.52	252.25	0.00	
	8600.00	0.00	0.29	8522.98	189.07	889.52	252.25	0.00	
	8700.00 8800.00	0.00 0.00	0.29 0.29	8622.98 8722.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	8845.02	0.00	0.29	8768.00	189.07	889.52 889.52	252.25	0.00	1st Bone Spring Lime
	8900.00	0.00	0.29	8822.98	189.07	889.52	252.25	0.00	······································
	9000.00	0.00	0.29	8922.98	189.07	889.52	252.25	0.00	
	9100.00	0.00	0.29	9022.98	189.07	889.52	252.25	0.00	
	9200.00	0.00	0.29	9122.98	189.07	889.52	252.25	0.00	
	9300.00 9400.00	0.00 0.00	0.29 0.29	9222.98 9322.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	9500.00	0.00	0.29	9422.98	189.07	889.52	252.25	0.00	
	9600.00	0.00	0.29	9522.98	189.07	889.52	252.25	0.00	
	9700.00	0.00	0.29	9622.98	189.07	889.52	252.25	0.00	
	9800.00	0.00	0.29	9722.98	189.07	889.52	252.25	0.00	
	9900.00 9934.02	0.00 0.00	0.29 0.29	9822.98 9857.00	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	Bone Spring 1st
	10000.00	0.00	0.29	9922.98	189.07	889.52 889.52	252.25	0.00	bolle spring ist
	10100.00	0.00	0.29	10022.98	189.07	889.52	252.25	0.00	
	10152.02	0.00	0.29	10075.00	189.07	889.52	252.25	0.00	Bone Spring 2nd
	10200.00	0.00	0.29	10122.98	189.07	889.52	252.25	0.00	
	10300.00	0.00	0.29	10222.98	189.07	889.52	252.25	0.00	
	10400.00 10500.00	0.00 0.00	0.29 0.29	10322.98 10422.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	10500.00	0.00	0.29	10422.98	189.07	889.52 889.52	252.25	0.00	
	10658.02	0.00	0.29	10581.00	189.07	889.52	252.25	0.00	3rd Bone Spring Lime
	10700.00	0.00	0.29	10622.98	189.07	889.52	252.25	0.00	
	10800.00	0.00	0.29	10722.98	189.07	889.52	252.25	0.00	
	10900.00	0.00	0.29	10822.98	189.07	889.52	252.25	0.00	
	11000.00 11100.00	0.00 0.00	0.29 0.29	10922.98 11022.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	11200.00	0.00	0.29	11122.98	189.07	889.52	252.25	0.00	
	11300.00	0.00	0.29	11222.98	189.07	889.52	252.25	0.00	
	11400.00	0.00	0.29	11322.98	189.07	889.52	252.25	0.00	
	11409.02	0.00	0.29	11332.00	189.07	889.52	252.25	0.00	Bone Spring 3rd
	11500.00	0.00	0.29	11422.98	189.07	889.52	252.25	0.00	
	11600.00 11700.00	0.00 0.00	0.29 0.29	11522.98 11622.98	189.07 189.07	889.52 889.52	252.25 252.25	0.00 0.00	
	11722.06	0.00	0.29	11645.04	189.07	889.52 889.52	252.25	0.00	КОР
	11800.00	7.79	0.29	11722.74	194.37	889.55	257.53	10.00	-
	11831.68	10.96	0.29	11754.00	199.53	889.58	262.68	10.00	Wolfcamp / Point of Penetration
	11900.00	17.79	0.29	11820.14	216.48	889.66	279.60	10.00	
	12000.00	27.79	0.29	11912.21	255.18	889.86	318.20	10.00	
	12100.00 12200.00	37.79 47.79	0.29 0.29	11996.17 12069.45	309.27 377 12	890.13 890.48	372.18 439.88	10.00	
	12200.00	47.79 57.79	0.29	12069.45 12129.85	377.12 456.66	890.48 890.88	439.88 519.25	10.00 10.00	
	12300.00	67.79	0.29	12129.65	430.00 545.48	890.88	607.87	10.00	

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Department         Department         Department         Department         Department         Department           10000         100         100         100         100         100         100         100           10000         100 <th>000011</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	000011									
n         n         n         n         n         n         n         n         n         n         n         n           126000         77         0.2         12250         759.7         82.1         0.15.1         10.0         10.0           126000         83.8         0.2         121.84         19.98         82.8         10.14         0.0           120000         84.8         0.2         121.84         19.98         82.8         10.14         0.0           130000         84.8         0.2         121.91         11.93.9         88.4         10.14         0.0           130000         84.8         0.2         122.14         19.39         89.8         10.0         1           130000         84.8         0.2         122.17         13.93         89.8         10.0         1										•
n         n         n         n         n         n         n         n         n         n         n         n           126000         77         0.2         12250         759.7         82.1         0.15.1         10.0         10.0           126000         83.8         0.2         121.84         19.98         82.8         10.14         0.0           120000         84.8         0.2         121.84         19.98         82.8         10.14         0.0           130000         84.8         0.2         121.91         11.93.9         88.4         10.14         0.0           130000         84.8         0.2         122.14         19.39         89.8         10.0         1           130000         84.8         0.2         122.17         13.93         89.8         10.0         1		МП	INC	A71	TVD	NC	E\\/	VS		
12000067.796.20121.7878.7989.2180.00Indirg Point17000088.80.20121.8489.5689.2290.10017000088.80.20121.8489.5689.2290.10017000089.80.20121.8489.5689.5290.70017000089.80.20122.9089.44101.64017000089.80.20122.9089.44101.64017000089.80.20122.9089.45100.90017000089.80.20122.9089.45100.90017000089.80.20122.9089.45100.90017000089.80.20122.9089.49199.400.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.800.0017000089.80.20122.9089.9029.900.0017000089.80.20122.9089.9029.9	_									Comment
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12000         088         0.2         221205         184395         9835         15037         0.0           13000         088         0.2         122056         184395         9836         16017         0.0           13000         088         0.2         122056         173395         9737         17870         0.00           13000         088         0.2         122177         183394         9838         1984         0.0           13000         083         0.2         122177         183494         9839         1984         0.0           140000         983         0.2         122248         23394         9074         200           140000         983         0.2         122248         23394         9074         28974         0.0           140000         983         0.2         122249         23394         9074         28974         0.0           140000         983         0.2         122249         23394         9074         38164         0.0           140000         983         0.2         122249         23394         9074         38164         0.0           140000         983         0.2         1										
194000     888     029     122056     18395     887.3     16995     00       196000     888     029     122056     173895     878.4     18994     00       130000     88.8     0.29     122177     18394     88.8     1994.0     00       130000     88.8     0.29     122177     13344     88.8     1994.0     00       140000     88.8     0.29     122177     13344     88.4     1984.0     00       140000     88.8     0.29     1222187     213344     88.4     208.1     00       140000     88.8     0.29     122280     23334     901.2     287.1     00       140000     88.8     0.29     122280     23339     901.3     297.1     00       140000     88.8     0.29     122249     2339.3     93.5     297.0     00       140000     88.8     0.29     122249     339.39     91.3     207.1     00       140000     88.8     0.29     122249     339.39     91.3     207.1     00       140000     88.8     0.29     122459     339.39     91.3     207.1     00       140000     88.8     0.29     122459<		13200.00	89.83	0.29	12219.75	1339.95	895.35	1400.59	0.00	
1300008880.291226618295897.8197970.001370008800.291221718356877.8199420.01300008800.291221713354888.91984.00.01300008800.2912227.813344888.91982.00.014000088.80.291222.823344898.9238.00.014000088.80.291222.82334.9902.2248.10.014000088.80.291223.82334.9902.4238.90.014000088.80.291223.9233.9902.4238.90.014000088.80.291223.9233.9902.4287.50.014000088.80.291225.9139.39903.4297.10.014000088.80.291225.9139.39903.4297.60.015000088.80.291225.9139.39903.4296.20.015000088.80.291225.9139.3990.4396.60.015000088.80.291225.9139.3991.6406.90.015000088.80.291225.9139.3991.6495.40.015000088.90.291225.9139.3991.6495.40.015000088.90.291225.9139.3991.6495.40.015000										
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1440009830.2912.23.3825.93.930.010.001460009830.2912.23.9990.43279.740.001460009830.2912.24.5929.93.9390.44297.740.001460009830.2912.24.5929.93.9390.45297.740.001500009830.2912.25.0523.99.9390.44306.600.001500009830.2912.25.0523.99.2990.44306.600.001500009830.2912.25.0133.99.290.54305.100.001500009830.2912.25.0133.99.290.54305.100.001500009830.2912.27.6233.99.1990.59376.570.001500009830.2912.27.6239.99.1190.50376.570.001500009830.2912.27.6239.99.1190.50376.570.001500009830.2912.27.6239.99.1190.50376.570.001500009830.2912.27.6239.99.1190.50376.570.001500009830.2912.27.6239.99.1190.50376.570.001500009830.2912.27.6239.9991.5449.39.400.001500009830.2912.27.6239.9991.5449.390.001500009830.2912.27.6435.99 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
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146000       893       0.29       122.29       279.39       90.24       270.4       0.00         146000       893       0.29       122.45       939.93       90.35       306.2       0.00         150000       893       0.29       122.50       139.92       90.44       196.60       0.00         150000       893       0.29       122.50       139.92       90.47       326.61       0.00         150000       893       0.29       122.51       139.92       90.44       375.07       0.00         150000       893       0.29       122.51       139.92       90.54       355.0       0.00         150000       893       0.29       122.72       839.91       90.50       385.5       0.00         150000       893       0.29       122.72       839.91       90.51       49.40       0.00         150000       893       0.29       122.72       839.91       90.51       49.40       0.00         150000       893       0.29       122.82       41.99       91.04       449.40       0.00         150000       893       0.29       122.82       41.99.90       91.05       47.92       0.0										
1400.00       98.81       0.20       1224.90       989.90       93.95       93.66.20       0.00         1500.00       98.81       0.20       1225.50       133.92       90.44       336.66       0.00         1500.00       98.81       0.20       1225.50       133.92       90.47       336.66       0.00         1500.00       98.83       0.22       1225.61       333.92       90.54       336.70       0.00         1500.00       98.83       0.22       1222.61       333.92       90.54       335.71       0.00         1500.00       98.83       0.20       1222.72       333.91       90.50       395.71       0.00         1500.00       89.83       0.22       1222.72       339.91       90.51       395.42       0.00         1500.00       89.83       0.22       1227.72       393.91       90.51       395.42       0.00         1500.00       89.83       0.22       1227.72       393.91       90.51       395.42       0.00         1600.00       89.83       0.22       1227.82       313.91       91.55       433.42       0.00         1600.00       89.83       0.22       1228.43       439.90										
1400.00       89.81       0.20       1224.00       303.92       904.64       305.62       0.00         1500.00       89.81       0.20       1222.50       323.92       904.47       326.58       0.00         1500.00       89.83       0.22       1222.61       333.92       905.47       326.58       0.00         1500.00       89.83       0.22       1222.61       333.92       905.48       355.49       0.00         1500.00       89.83       0.22       1222.72       373.91       905.05       375.27       0.00         1500.00       89.83       0.22       1222.72       373.91       905.15       375.27       0.00         1500.00       89.83       0.22       1227.72       373.91       905.15       375.27       0.00         1500.00       89.83       0.22       1227.72       373.91       905.1       379.42       0.00         1600.00       89.83       0.22       1228.73       133.91       905.1       349.42       0.00         1600.00       89.83       0.22       1228.43       133.99       91.03       4393.40       0.00         1600.00       89.83       0.22       1228.43       349.99 <th></th>										
19000088.30.291222.53139.2994.46316.600.0015000089.380.291222.50339.2990.57336.160.0015000089.380.291222.611339.2990.58349.530.0015000089.380.291222.611339.2990.58359.570.0015000089.380.291222.101379.9190.59379.520.0015000089.380.291222.72339.39190.60389.500.0015000089.380.291222.72339.39190.61349.420.0015000089.380.291222.8241.9990.5240.990.0016000089.380.291222.8343.9991.03429.4160.00161000089.380.29122.8443.9991.03429.4160.00161000089.380.29122.8443.9991.5545.970.0016300089.380.29122.8443.9991.56459.370.0016300089.380.29122.8443.9991.55459.370.0016300089.380.29122.8443.9991.55512.160.0016400089.380.29122.8443.9991.55512.160.0016900089.380.29122.8553.91.720.0016900089.380.29122.8443.9891.61<										
151000       89.83       0.29       1225.50       3239.29       90.47       326.16       0.0         152000       89.83       0.29       1225.11       339.92       905.49       3495.19       0.00         15400.00       89.83       0.29       1225.11       339.92       905.49       3495.51       0.00         15600.00       89.83       0.29       1227.12       339.91       906.09       3895.55       0.00         15900.00       89.83       0.29       1227.27       399.91       990.51       3994.82       0.00         15900.00       89.83       0.29       1227.24       399.91       990.51       4994.60       0.00         16000.00       89.83       0.29       1228.54       439.90       910.51       4994.60       0.00         16000.00       89.83       0.29       1228.45       439.90       910.51       499.410       0.00         16000.00       89.83       0.29       1228.45       439.90       910.54       493.74       0.00         16000.00       89.83       0.29       1228.45       439.90       91.55       459.34       0.00         16000.00       89.83       0.29       1228.45										
130000       983       0.29       1226.11       3439.29       905.88       3955.71       0.00         150000       983       0.29       1226.71       363.91       90.69       3695.49       0.00         150000       983       0.29       1227.22       373.91       90.750       375.27       0.00         150000       983       0.29       1227.22       373.91       90.61       3855.05       0.00         150000       983       0.29       1227.22       373.91       90.91       4094.60       0.00         160000       883       0.29       1222.82       413.91       90.92       4194.34       0.00         1610000       893       0.29       1222.83       439.90       91.03       439.34       0.00         1630000       893       0.29       122.82       439.90       91.05       4593.49       0.00         1640000       893       0.29       122.914       459.99       91.05       4593.49       0.00         1650000       893       0.29       122.04       459.99       91.05       4593.49       0.00         169000       893       0.29       122.054       459.99       592.14										
154000       983       0.29       1226.71       3539.92       966.48       395.71       0.00         156000       89.83       0.29       1227.02       739.91       90.50       3795.27       0.00         1570000       89.83       0.29       1227.02       739.91       90.81       394.82       0.00         1590000       89.83       0.29       1227.62       393.91       90.51       499.40       0.00         1590000       89.83       0.29       1227.82       439.91       99.51       40.40       0.00         1600000       89.83       0.29       1222.82       423.99       910.33       429.41       0.00         1600000       89.83       0.29       122.82       423.99       910.33       439.41       0.00         1600000       89.83       0.29       122.82       433.99       910.54       459.37       0.00         1600000       89.83       0.29       122.034       453.99       91.64       459.27       0.00         1600000       89.83       0.29       122.034       459.89       91.55       4591.40       0.00         1700000       89.83       0.29       122.034       459.89										
15500089830.2912227.023739.91907.50375.270.0015600089830.2912227.22339.91908.01395.050.0015000089830.291227.62393.91908.11394.820.0015000089830.291222.82413.91094.610.0016000089830.291222.82413.91095.2414.380.0016000089830.291222.83433.90910.33433.440.0016000089830.291222.91433.90911.34439.410.0016000089830.291222.94453.90911.55459.3.470.0016000089830.291223.04473.90912.654693.270.0016000089830.291223.04473.90912.654733.050.0016000089830.291223.04473.90912.654733.270.0017000089830.291223.05539.89913.664733.050.0017000089830.291223.15513.88915.955391.720.0017000089830.291223.15539.88915.955391.720.0017000089830.291223.15539.88916.155591.240.0017000089830.291223.65459.841.001.6017000089830.291223.75539.88 <th></th>										
17000089.830.291227.62383.91908.01399.650.00150000089.830.291227.62339.91908.51399.420.00160000089.830.291222.73439.91909.1409.460.0016000089.830.291222.83439.90910.3439.140.0016000089.830.291222.83439.90910.5439.340.0016000089.830.29122.91.3439.90910.5439.340.0016000089.830.29122.91.4439.90910.5439.340.0016000089.830.29122.91.4439.90910.5439.140.0016000089.830.29122.91.4439.89913.054892.830.0016000089.830.29122.01.5139.89913.5499.2600.0016000089.830.29122.1553.98916.16591.270.0017000089.830.29122.1653.98916.16591.270.0017000089.830.29122.1653.98916.16591.270.0017000089.830.29122.1653.98916.16591.270.0017000089.830.29122.1653.98916.16591.270.0017000089.830.29122.1653.98916.16591.270.0017000089.830.29 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
1580.0089.830.2912227.6289.9990.85.1999.4820.001600.0089.830.2912228.234139.9190.952419.430.0016100.0089.830.2912228.53423.90910.33429.4160.001620.0089.830.2912228.13433.90911.03429.4160.001630.0089.830.2912228.14439.90911.054593.490.001640.0089.830.2912229.14453.90912.054693.490.001660.0089.830.2912229.44473.90912.054693.490.001660.0089.830.291222.04473.90912.054693.490.001660.0089.830.291223.05493.89913.06492.800.001660.0089.830.291223.05593.89914.85592.180.001700.0089.830.291223.15523.89915.09521.140.001700.0089.830.291223.15533.89914.25500.001700.0089.830.291223.15533.89915.12590.300.001700.0089.830.291223.16539.88917.115691.050.001700.0089.830.291223.17539.88917.12500.001700.0089.830.291223.16539.88917.12500.001700.0089.830.29 </th <th></th>										
15000089.830.291222.72403.9190.90.14094.600.0016000089.830.291222.824139.9190.52419.380.0016200089.830.291222.82433.9091.534393.940.0016300089.830.291222.91.4439.9091.54459.340.0016400089.830.291222.91.4453.9091.554593.490.00166000089.830.291222.91.4473.9091.25479.300.00166000089.830.291223.04473.9091.26479.200.00167000089.830.291223.04473.9091.26479.200.00168000089.830.291223.15513.9891.485192.160.0017000089.830.291223.16533.8891.50529.140.0017000089.830.291223.16533.8891.51531.720.0017300089.830.291223.26533.8891.615591.720.00174000089.830.291223.27533.8891.615591.720.0017500089.830.291223.47533.8891.61501.500.0017600089.830.291223.47533.8891.61501.600.0017600089.830.291223.47533.8891.61501.600.0017600089.83<										
160000       89.83       0.29       122.83       413.91       909.52       4194.38       0.00         16100.00       89.83       0.29       1222.83       433.90       910.3       4234.16       0.00         16300.00       89.83       0.29       1222.83       433.90       911.04       4493.71       0.00         16400.00       89.83       0.29       1222.91.4       433.90       911.05       4593.49       0.00         16500.00       89.83       0.29       1223.04       473.90       912.56       4733.05       0.00         16600.00       89.83       0.29       1223.04       473.90       913.64       492.60       0.00         16600.00       89.83       0.29       1223.05       533.89       913.05       492.60       0.00         1700.00       89.83       0.29       1223.15       538.98       915.05       5391.72       0.00         1700.00       89.83       0.29       1223.15       539.89       915.05       5391.72       0.00         1700.00       89.83       0.29       1223.15       539.89       91.15       5491.50       0.00         1700.00       89.83       0.29       1223.45										
162000       89.83       0.29       1228.83       433.90       910.53       4393.94       0.00         163000       89.83       0.29       1229.13       439.90       911.5       4593.49       0.00         16500.00       89.83       0.29       1229.74       453.99       912.56       4593.27       0.00         16600.00       89.83       0.29       12230.44       439.99       912.56       479.305       0.00         16700.00       89.83       0.29       12230.54       439.89       913.57       4992.60       0.00         16900.00       89.83       0.29       12230.55       539.89       914.08       592.16       0.00         17000.00       89.83       0.29       12231.55       539.89       915.95       539.172       0.00         17000.00       89.83       0.29       1223.16       539.89       916.10       591.57       0.00         17000.00       89.83       0.29       1223.16       539.89       916.10       591.57       0.00         1700.00       89.83       0.29       1223.67       539.89       916.15       590.39       0.00         1760.00       89.83       0.29       1223.67										
16300089.830.2912229.134439.90911.044493.710.00164000089.830.2912229.444539.90911.554593.490.0016500.0089.830.2912230.444739.09912.564739.050.0016600.0089.830.2912230.444739.09913.574928.000.0016600.0089.830.2912230.56493.89913.06492.800.0016900.0089.830.2912231.555139.89914.085092.380.0017000.0089.830.2912231.555139.89915.975291.940.0017000.0089.830.2912232.46533.88916.105491.500.0017000.0089.830.2912232.46533.88916.105491.500.0017000.0089.830.2912232.46533.88916.105491.500.0017000.0089.830.2912233.73533.88916.105491.500.0017000.0089.830.2912233.67539.87916.36590.390.0017000.0089.830.291223.46533.88916.125499.490.0017000.0089.830.291223.46633.8792.15623.970.0017000.0089.830.291223.48633.8792.16638.910.0017000.0089.830.291223.56633.8692.17638.92<										
16400.0       8983       0.29       1222.9.4       4539.90       911.55       4593.49       0.00         16500.00       8983       0.29       1222.074       4639.20       912.56       4693.27       0.00         16600.00       8983       0.29       1223.04       439.89       913.56       492.83       0.00         16700.00       8983       0.29       1223.05       503.89       914.06       5092.38       0.00         16900.00       8983       0.29       1223.15       513.89       914.58       5192.16       0.00         17000.00       8983       0.29       1223.15       533.89       915.59       5391.72       0.00         17000.00       8983       0.29       1223.16       543.88       916.10       5491.50       0.00         17000.00       8983       0.29       1223.76       563.88       916.11       5491.50       0.00         17400.00       8983       0.29       1223.67       573.88       915.17       500.1       0.00         17500.00       8983       0.29       1223.67       539.87       916.41       591.27       0.00         17600.00       8983       0.29       1223.67 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>										
16500.089830.291222.744639.00912.054693.270.0016600.089830.291223.044739.09912.654793.050.0016700.089830.291223.054939.89913.054992.830.0016800.089830.291223.055039.89914.065092.360.0017000.089830.291223.155239.89914.085192.160.0017100.089830.291223.155239.89915.095291.940.0017000.089830.291223.165339.89915.095391.720.0017000.089830.291223.265539.88916.165591.270.0017000.089830.291223.275639.88917.115691.050.0017000.089830.291223.375839.88916.155591.270.0017000.089830.291223.375839.88916.15591.270.0017000.089830.291223.375839.88915.155290.830.0017000.089830.291223.37593.87913.466189.940.0017000.089830.291223.48639.8791.010.0017000.089830.291223.48639.8791.010.0017000.089830.291223.48639.8791.000.0018000.089830.291223.48										
16700.0089.830.2912230.344839.89913.054892.830.0016800.0089.830.2912230.555339.89914.085092.380.0017000.0089.830.2912231.555239.89915.095291.40.0017000.0089.830.2912231.555239.89915.095391.720.0017200.0089.830.2912231.65533.89915.095391.720.0017300.0089.830.291223.26533.88916.105491.500.0017400.0089.830.291223.27533.88916.105491.500.0017500.0089.830.291223.37533.88916.115591.270.0017600.0089.830.291223.37533.88918.12590.610.0017600.0089.830.291223.37533.88918.12590.610.0017600.0089.830.291223.46633.87916.46618.940.0017900.0089.830.291223.48633.8792.015638.500.0017900.0089.830.291223.48633.8792.015638.850.0018000.0089.830.291223.58633.8792.015638.850.0018000.0089.830.291223.58633.8792.16638.500.0018000.0089.830.291223.58633.8692.17668.830.00 </th <th></th>										
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17800.0089.830.2912233.675939.87918.635990.390.0017900.0089.830.2912233.976039.87919.146090.160.0018000.0089.830.2912234.286139.87919.646189.940.0018100.0089.830.2912234.886239.87920.156289.720.0018200.0089.830.2912235.486339.87920.166489.280.0018400.0089.830.2912235.496539.65921.676589.050.0018400.0089.830.2912235.496639.66922.17668.830.0018500.0089.830.2912235.496639.66922.17668.830.0018600.0089.830.2912235.796639.66922.17668.830.0018600.0089.830.2912235.796639.66923.19688.830.0018600.0089.830.2912235.79639.86924.17668.830.0018700.0089.830.2912237.007039.66924.077087.940.0018800.0089.830.2912237.307139.55924.707187.720.001900.0089.830.2912237.307139.55924.707187.720.001900.0089.830.2912237.607239.85925.727387.280.001900.0089.830.2912237.917339.85925.72<										
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70n		County: Wellbore:	Lea		D STATE COM	м 737н			Ellipsoid: Clar	h American Datum 1927
	MD (ft)	INC (°)	<b>AZI</b> (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Comment	
	19400.00	89.83	0.29	12238.51	7539.85	926.73	7586.84	0.00		
	19500.00	89.83	0.29	12238.82	7639.85	927.24	7686.61	0.00		
	19600.00	89.83	0.29	12239.12	7739.84	927.74	7786.39	0.00		
	19700.00	89.83	0.29	12239.42	7839.84	928.25	7886.17	0.00		
	19800.00	89.83	0.29	12239.72	7939.84	928.75	7985.95	0.00		
	19900.00	89.83	0.29	12240.03	8039.84	929.26	8085.73	0.00		
	20000.00	89.83	0.29	12240.33	8139.84	929.77	8185.50	0.00		
	20100.00	89.83	0.29	12240.63	8239.83	930.27	8285.28	0.00		
	20200.00	89.83	0.29	12240.93	8339.83	930.78	8385.06	0.00		
	20300.00	89.83	0.29	12241.24	8439.83	931.28	8484.84	0.00		
	20400.00	89.83	0.29	12241.54	8539.83	931.79	8584.62	0.00		
	20500.00	89.83	0.29	12241.84	8639.83	932.30	8684.39	0.00		
	20600.00	89.83	0.29	12242.14	8739.83	932.80	8784.17	0.00		
	20700.00	89.83	0.29	12242.45	8839.82	933.31	8883.95	0.00		
	20800.00	89.83	0.29	12242.75	8939.82	933.82	8983.73	0.00		
	20900.00	89.83	0.29	12243.05	9039.82	934.32	9083.51	0.00		
	21000.00	89.83 89.83	0.29	12243.35	9139.82 9239.82	934.83 935 33	9183.28 9283.06	0.00		
	21100.00 21200.00	89.83 89.83	0.29 0.29	12243.66 12243.96	9239.82 9339.82	935.33 935.84	9283.06 9382.84	0.00 0.00		
	21200.00	89.83 89.83	0.29	12243.96	9339.82 9439.81	935.84 936.35	9382.84 9482.62	0.00		
	21300.00	89.83	0.29	12244.20	9539.81	936.85	9582.40	0.00		
	21500.00	89.83	0.29	12244.87	9639.81	937.36	9682.18	0.00		
	21600.00	89.83	0.29	12245.17	9739.81	937.86	9781.95	0.00		
	21700.00	89.83	0.29	12245.47	9839.81	938.37	9881.73	0.00		
	21800.00	89.83	0.29	12245.77	9939.81	938.88	9981.51	0.00		
	21900.00	89.83	0.29	12246.08	10039.80	939.38	10081.29	0.00		
	22000.00	89.83	0.29	12246.38	10139.80	939.89	10181.07	0.00		
	22100.00	89.83	0.29	12246.68	10239.80	940.40	10280.84	0.00		
	22200.00	89.83	0.29	12246.98	10339.80	940.90	10380.62	0.00		
	22300.00	89.83	0.29	12247.29	10439.80	941.41	10480.40	0.00		
	22400.00	89.83	0.29	12247.59	10539.79	941.91	10580.18	0.00		
	22500.00	89.83	0.29	12247.89	10639.79	942.42	10679.96	0.00		
	22600.00	89.83	0.29	12248.19	10739.79	942.93	10779.73	0.00		
	22700.00	89.83	0.29	12248.50	10839.79	943.43	10879.51	0.00		
	22800.00	89.83	0.29	12248.80	10939.79	943.94	10979.29	0.00		
	22900.00	89.83	0.29	12249.10	11039.79	944.44	11079.07	0.00		
	23000.00	89.83	0.29	12249.41	11139.78	944.95	11178.85	0.00		
	23100.00	89.83	0.29	12249.71	11239.78	945.46	11278.62	0.00		
	23200.00	89.83	0.29	12250.01	11339.78	945.96	11378.40	0.00		
	23300.00	89.83	0.29	12250.31		946.47	11478.18	0.00		
	23400.00 23500.00	89.83	0.29	12250.62		946.97	11577.96 11677.74	0.00		
	23500.00	89.83 89.83	0.29 0.29	12250.92 12251.22		947.48 947.99	11677.74 11777.51	0.00 0.00		
	23600.00	89.83 89.83	0.29	12251.22		947.99 948.49	11877.29	0.00		
	23700.00	89.83 89.83	0.29	12251.52		948.49 949.00	11977.07	0.00		
	23800.00	89.83 89.83	0.29	12251.65		949.00 949.51	12076.85	0.00		
	24000.00	89.83	0.29	12252.43		950.01	12176.63	0.00		
	24100.00	89.83	0.29	12252.73		950.52	12276.41	0.00		
	24200.00	89.83	0.29	12253.04		951.02	12376.18	0.00		
	24300.00	89.83	0.29	12253.34		951.53	12475.96	0.00		
	24400.00	89.83	0.29	12253.64		952.04	12575.74	0.00		
	24500.00	89.83	0.29	12253.94		952.54	12675.52	0.00		
	24600.00	89.83	0.29	12254.25		953.05	12775.30	0.00		
	24700.00	89.83	0.29	12254.55		953.55	12875.07	0.00		
	24800.00	89.83	0.29	12254.85		954.06	12974.85	0.00		
	24900.00	89.83	0.29	12255.15	13039.75	954.57	13074.63	0.00		
	25000.00	89.83	0.29	12255.46		955.07	13174.41	0.00		
	25100.00	89.83	0.29	12255.76		955.58	13274.19	0.00		
	25105.09	89.83	0.29	12255.77	13244.84	955.61	13279.27	0.00	exit	
	25185.09	89.83	0.29	12256.00	13324.84	956.01	13359.09	0.00	BHL	

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#### 1. Geologic Formations

TVD of target	12256	Pilot hole depth	N/A
MD at TD:	25185	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	739		
Salt	1104		
Base of Salt	4373		
Delaware	4561		
Cherry Canyon	5769		
Brushy Canyon	6690		
1st Bone Spring Lime	8768		
Bone Spring 1st	9857		
Bone Spring 2nd	10075		
3rd Bone Spring Lime	10581		
Bone Spring 3rd	11332		
Wolfcamp	11754		

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

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		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	764	0	764
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	11622	0	11622
6 3/4	5 1/2	20	P110HP	TALON RD	0	25185	0	12256

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

•All casing strings will be tested in accordance with 43 CFR 3172.

#### 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	408	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	376	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIII I	449	6757	13.2	1.44	Tail: Class H / C + additives
Production	62	9722	9	3.27	Lead: Class H /C + additives
Froduction	859	11722	13.2	1.44	Tail: Class H / C + additives

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements

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:
			Anı	nular	Х	50% of rated working pressure
Int 1	13-5/8"	5M		d Ram	Х	
Int I	15-5/0	5111	Pipe	Ram		5M
			Doub	le Ram	X	5101
			Other*			
			Annul	ar (5M)	Х	100% of rated working pressure
	12 5/01	1014	Blind	d Ram	Х	1
Production	13-5/8"	10M	Pipe Ram Double Ram X			1014
					10M	
			Other*			
			Annul	ar (5M)		
			Blind Ram			
			Pipe Ram Double Ram			
						]
			Other*			
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schem	atic.
Y A variance is requested to a	run a 5 M a	nnular on a 10M s	system			

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

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#### 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.							

Addition	al 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	6692
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

Ν	H2S is present
Y	H2S plan attached.

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, 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

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9 5/8	sui	rface csg in a	13 1/2	inch hole.		Design	Factors			Surface	2	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		i 55	btc	19.69	6.87	0.62	800	11	1.04	12.98	32,000
"B"			,	btc				0				0
	w/8.4#	/g mud, 30min Sfc Csg Test	psig: 1.500	Tail Cmt	does not	circ to sfc.	Totals:	800				32,000
omparison o		linimum Required Ceme					rotaioi					,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
13 1/2	0.4887	408	588	391	50	9.00	3782	5M				1.44
	0.1001						0102	•				
urst Frac Grac	lient(s) for Segm	ient(s) A, B = , b All > C	).70, ОК.		Site plat (pip	e racks S or E)	as per 0.0.1.	.III.D.4.i. not	found.			
7 5/8	casi	ng inside the	9 5/8			Design	Factors			Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	29.70		p 110	talon sfc	2.65	1.15	1.61	11,622	2	2.70		345,17
"B"			P					0	-			010,111
-	w/8 /#	/g mud, 30min Sfc Csg Test	nsig: 2 557				Totals:	11,622				345,17
	W/ 0.4#			nded to achieve a top of	0	ft from su		800				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Rea'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
	0.1005	449	647		-45							0.43
8 3/4	0.1005	449	• · · ·	1174	-45	10.50	3989	5M				
			6690				sum of sx	<u>Σ CuFt</u>				Σ%exces
O V Tool(s):							005	4544				
by stage % :	nt yld > 1.35	30	27				825	1511				29
by stage % : Class 'C' tail cm						Decign Fo		1511		Dred 1		29
by stage % : class 'C' tail cm Tail cmt 5 1/2	casi	ng inside the	27 7 5/8			Design Fa	<u>ctors</u>		D.O.	Prod 1		
by stage % : lass 'C' tail cm Tail cmt 5 1/2 Segment	casi #/ft		7 5/8	Coupling	Joint	Collapse	<u>ctors</u> Burst	Length	B@s	a-B	a-C	Weigh
Tail cmt 5 1/2 Segment "A"	casi	ng inside the		Coupling talon rd	<b>Joint</b> 2.97		<u>ctors</u>	Length 25,185	<b>B@s</b> 2			<b>Weigh</b> 503,70
by stage % : lass 'C' tail cm Tail cmt 5 1/2 Segment	casi #/ft 20.00	ng inside the Grade	<b>7 5/8</b> p 110			Collapse	<u>ctors</u> Burst 2.15	Length 25,185 0	<u> </u>	a-B	a-C	Weigh 503,70 0
Tail cmt 5 1/2 Segment "A"	casi #/ft 20.00	ng inside the Grade /g mud, 30min Sfc Csg Test	<b>7 5/8</b> p 110 psig: 2,696	talon rd	2.97	Collapse 1.97	ctors Burst 2.15 Totals:	Length 25,185 0 25,185	<u> </u>	a-B	a-C	Weigh 503,70 0 503,70
by stage % : class 'C' tail cm Tail cmt 51/2 Segment "A" "B"	casi #/ft 20.00 w/8.4#	ng inside the Grade /g mud, 30min Sfc Csg Test The cement	<b>7 5/8</b> p 110 psig: 2,696 volume(s) are inter	talon rd	2.97 11422	Collapse 1.97 ft from su	ctors Burst 2.15 Totals: Irface or a	Length 25,185 0 25,185 200	<u> </u>	a-B	a-C	Weigh 503,70 0 503,70 overlap.
by stage % : Class 'C' tail cm Tail cmt 51/2 Segment "A" "B" Hole	casi #/ft 20.00 w/8.4# Annular	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 1 Stage	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage	talon rd nded to achieve a top of Min	2.97 11422 1 Stage	Collapse 1.97 ft from su Drilling	ctors Burst 2.15 Totals: Inface or a Calc	Length 25,185 0 25,185 200 Req'd	<u> </u>	a-B	a-C	Weigh 503,70 0 503,70 overlap. Min Dis
by stage % : Ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size	casi #/ft 20.00 w/8.4# Annular Volume	ng inside the Grade /g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt	talon rd nded to achieve a top of Min Cu Ft	2.97 11422 1 Stage % Excess	Collapse 1.97 ft from su Drilling Mud Wt	ctors Burst 2.15 Totals: Irface or a	Length 25,185 0 25,185 200	<u> </u>	a-B	a-C	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp
by stage % : Class 'C' tail cm Tail cmt 51/2 Segment "A" "B" Hole	casi #/ft 20.00 w/8.4# Annular	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 1 Stage	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage	talon rd nded to achieve a top of Min	2.97 11422 1 Stage	Collapse 1.97 ft from su Drilling	ctors Burst 2.15 Totals: Inface or a Calc	Length 25,185 0 25,185 200 Req'd	<u> </u>	a-B	a-C	Weigh 503,700 0 503,700
by stage % : Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole Size	casi #/ft 20.00 w/8.4# Annular Volume 0.0835	ng inside the Grade /g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt	talon rd nded to achieve a top of Min Cu Ft	2.97 11422 1 Stage % Excess	Collapse 1.97 ft from su Drilling Mud Wt	ctors Burst 2.15 Totals: Inface or a Calc	Length 25,185 0 25,185 200 Req'd	<u> </u>	a-B	a-C	Weigh 503,700 0 503,700 overlap. Min Dis Hole-Cpl
by stage % : class 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 class 'C' tail cm #N/A	casi #/ft 20.00 w/8.4# Annular Volume 0.0835	ng inside the Grade /g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440	talon rd nded to achieve a top of Min Cu Ft	2.97 11422 1 Stage % Excess	Collapse 1.97 ft from su Drilling Mud Wt 10.50	ctors Burst 2.15 Totals: Irface or a Calc MASP	Length 25,185 0 25,185 200 Req'd	2	<b>a-B</b> 3.60	<b>a-C</b> 3.30	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp
by stage % : Class 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 Class 'C' tail cm #N/A 0	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 tt yld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 921	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt	talon rd nded to achieve a top of Min Cu Ft 1150	2.97 11422 1 Stage % Excess 25	Collapse 1.97 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing>	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43
by stage % : Llass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 Llass 'C' tail cm #N/A 0 Segment	casi #/ft 20.00 w/8.4# Annular Volume 0.0835	ng inside the Grade /g mud, 30min Sfc Csg Test The cement ' 1 Stage Cmt Sx	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440	taion rd nded to achieve a top of Min Cu Ft 1150 Coupling	2.97 11422 1 Stage % Excess	Collapse 1.97 ft from su Drilling Mud Wt 10.50	ctors Burst 2.15 Totals: Irface or a Calc MASP	Length 25,185 0 25,185 200 Req'd BOPE	2	<b>a-B</b> 3.60	<b>a-C</b> 3.30	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh
by stage % : Ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 Ilass 'C' tail cm #N/A 0 Segment "A"	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 tt yld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 921	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440	taion rd nded to achieve a top of Min Cu Ft 1150 Coupling 0.00	2.97 11422 1 Stage % Excess 25	Collapse 1.97 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing>	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh 0
y stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 ot yld > 1.35 #/ft	ng inside the Grade /g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 921 Grade	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2	taion rd nded to achieve a top of Min Cu Ft 1150 Coupling	2.97 11422 1 Stage % Excess 25	Collapse 1.97 ft from su Drilling Mud Wt 10.50 Design	ctors Burst 2.15 Totals: urface or a Calc MASP Factors Burst	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing>	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0
Tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment "A"	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 ot yld > 1.35 #/ft	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 'n Stage Cmt Sx 921 Grade /g mud, 30min Sfc Csg Test	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2	taion rd nded to achieve a top of Min Cu Ft 1150 Coupling 0.00 0.00	2.97 11422 1 Stage % Excess 25 #N/A	Collapse 1.97 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors Burst	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing> a-C	Weigh 503,70 0 503,70 0 0 0 0 0 0 0 0 0 0 0 0 0 0
by stage % : [lass 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 class 'C' tail cm #N/A 0 Segment "A" "B"	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 ut yld > 1.35 #/ft w/8.4#	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 'n Stage Cmt Sx 921 Grade /g mud, 30min Sfc Csg Test Cmt vol c:	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2 psig: alc below includes	taion rd inded to achieve a top of Min Cu Ft 1150 Coupling 0.00 0.00 this csg, TOC intended	2.97 11422 1 Stage % Excess 25 #N/A	Collapse 1.97 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors Burst	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing> a-C	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 0 0 0 0 0
by stage % : Class 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A" "B" Hole	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 tt yld > 1.35 #/ft w/8.4# Annular	ng inside the Grade /g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 921 Grade /g mud, 30min Sfc Csg Test Cmt vol c: 1 Stage	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2 psig: alc below includes 1 Stage	talon rd inded to achieve a top of Min Cu Ft 1150 Coupling 0.00 0.00 this csg, TOC intended Min	2.97 11422 1 Stage % Excess 25 #N/A 1 Stage	Collapse 1.97 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing> a-C	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 0 overlap. Min Dis
by stage % : Class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A" "B" Hole Size	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 ut yld > 1.35 #/ft w/8.4#	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 921 Grade /g mud, 30min Sfc Csg Test Cmt vol c: 1 Stage Cmt Sx	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2 psig: alc below includes 1 Stage CuFt Cmt	taion rd inded to achieve a top of Min Cu Ft 1150 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft	2.97 11422 1 Stage % Excess 25 #N/A 1 Stage % Excess	Collapse 1.97 ft from su Drilling Mud Wt 10.50 <u>Design i</u> Collapse ft from su	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors Burst	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing> a-C	Weigh 503,70 0 503,70 0 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 0 0 0 0 0 0
y stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment "A" "B" Hole	casi #/ft 20.00 w/8.4# Annular Volume 0.0835 tt yld > 1.35 #/ft w/8.4# Annular	ng inside the Grade /g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 921 Grade /g mud, 30min Sfc Csg Test Cmt vol c: 1 Stage	7 5/8 p 110 psig: 2,696 volume(s) are inter 1 Stage CuFt Cmt 1440 5 1/2 psig: alc below includes 1 Stage	taion rd inded to achieve a top of Min Cu Ft 1150 Coupling 0.00 0.00 this csg, TOC intended Min Cu Ft 0	2.97 11422 1 Stage % Excess 25 #N/A 1 Stage	Collapse 1.97 ft from su Drilling Mud Wt 10.50 <u>Design</u> Collapse ft from su Drilling	ctors Burst 2.15 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	Length 25,185 0 25,185 200 Req'd BOPE	2	a-B 3.60	a-C 3.30 sing> a-C	Weigh 503,70 0 503,70 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 0 overlap. Min Dis

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	369065
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY.	9/13/2024

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