Sundry Print Reports

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

COM

Well Name: SERPENTINE 35-26 FED Well Location: T22S / R33E / SEC 35 /

NWSW / 32.345372 / -103.549605

County or Parish/State: LEA /

NM

Well Number: 4H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM113969 Unit or CA Name: Unit or CA Number:

US Well Number: 3002551467 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2794434

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/10/2024 Time Sundry Submitted: 11:13

Date proposed operation will begin: 06/10/2024

Procedure Description: Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: BHL change from 20 FNL & 330 FWL to 20 FNL & 750 FWL, both 26-22S-33E. Casing program change: Surface, Intermediate, and Production Casing size and depth changes. Cement volume changes to accommodate casing change. Break test and offline cement variance request included. Please see attached revised C-102, spec sheets, and drilling & directional plans, and supporting documentation.

NOI Attachments

Procedure Description

SERPENTINE_35_26_FED_COM_4H_C_102_BHL_NOI_20240610110933.pdf

BOP_Break_Test_Variance___Intermediate_Casing_20240610110925.pdf

SERPENTINE_35_26_Fed_Com_4H_R4_20240610110925.pdf

5.5_17lb_P110_BTC_20240610110925.pdf

13.375_48lb_H40_20240610110925.pdf

9.625_40lb_J55_SeAH_20240610110925.pdf

SERPENTINE_35_26_Fed_Com_4H_Directional_Plan_06_06_24_20240610110925.pdf

Page 1 of 2

eived by OCD: 6/26/2024 2:45:41 PM Well Name: SERPENTINE 35-26 FED

COM

Well Location: T22S / R33E / SEC 35 / NWSW / 32.345372 / -103.549605

County or Parish/State: LEA 2 of

Zip:

Well Number: 4H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM113969

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551467

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Serpentine 35 26 Fed Com 4H Sundry ID 2794434 20240626080049.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: REBECCA DEAL Signed on: JUN 10, 2024 11:10 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City:

Phone:

Email address:

BLM Point of Contact

Signature: Long Vo

BLM POC Name: LONG VO BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402 BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved Disposition Date: 06/26/2024

State:

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES

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

(June 2019)	DEPARTMENT OF THE INTERIOR	Expires: October 31, 2021						
	BUREAU OF LAND MANAGEMEN	Γ		5. Lease Serial No.	NMNM113969			
Do not use t	RY NOTICES AND REPORTS ON this form for proposals to drill or vell. Use Form 3160-3 (APD) for se	to re-	enter an	6. If Indian, Allottee	or Tribe Name			
SUBM	IT IN TRIPLICATE - Other instructions on pa	age 2		7. If Unit of CA/Agre	eement, Name and/or No.			
1. Type of Well Oil Well	Gas Well Other	8. Well Name and No	SERPENTINE 35-26 FED COM/4H					
	NERGY PRODUCTION COMPANY LP			9. API Well No. 3002	2551467			
-	IDAN AVE, OKLAHOMA CITY, 3b. Phone No	o. (inclu	de area code)	10. Field and Pool or				
	(405) 235-3		,	BRINNINSTOOL/	BONE SPRING			
4. Location of Well (Footage, Se SEC 35/T22S/R33E/NMP	c., T,R.,M., or Survey Description)			11. Country or Parish LEA/NM	11. Country or Parish, State LEA/NM			
12	. CHECK THE APPROPRIATE BOX(ES) TO I	NDICAT	E NATURE OF N	OTICE, REPORT OR OT	HER DATA			
TYPE OF SUBMISSION			TYPE OF	ACTION	CTION			
Notice of Intent	Alter Casing Hy		Fracturing I	Production (Start/Resume) Reclamation	Well Integrity			
Subsequent Report		w Const	=	Recomplete Femporarily Abandon	Other			
Final Abandonment Notice		g Back	=	Water Disposal				
completed. Final Abandonmis ready for final inspection.) Engineering Only - Devo BHL change from 20 FN Casing program change change. Break test and Please see attached rev	on Energy Production Company L.P. respect L & 330 FWL to 20 FNL & 750 FWL, both 26 at Surface, Intermediate, and Production Cas offline cement variance request included. ised C-102, spec sheets, and drilling & direct	nts, inclinate fully reconstruction for the following size of the	uding reclamation, uests the followings. and depth change	have been completed and ing changes to the appro-	the operator has detennined that the site ved APD:			
	14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) REBECCA DEAL / Ph: (303) 299-1406 Regulatory Analyst Title							
Signature (Electronic Submission) Date 06/10/2024								
	THE SPACE FOR FEI	DERA	L OR STATE	OFICE USE				
Approved by			Detroite	Enningen	00/00/0004			
LONG VO / Ph: (575) 988-54	102 / Approved		Petroleum Title	⊏ngineer	06/26/2024 Date			
	e attached. Approval of this notice does not warragal or equitable title to those rights in the subject to conduct operations thereon.		Office CARLSB	AD				

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWSW / 1596 FSL / 651 FWL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.345372 / LONG: -103.549605 (TVD: 0 feet, MD: 0 feet) PPP: NWSW / 1418 FSL / 330 FWL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.344888 / LONG: -103.550643 (TVD: 11755 feet, MD: 11856 feet) PPP: SWSW / 142 FSL / 336 FWL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.3558694 / LONG: -103.5506562 (TVD: 11875 feet, MD: 16000 feet) BHL: NWNW / 20 FNL / 330 FWL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.369939 / LONG: -103.550677 (TVD: 11875 feet, MD: 20819 feet)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

X AMENDED REPORT

WELL LO	CATION	AND	ACREAGE	DEDICATION	PLAT
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API Number	Pool Code	Pool Code Pool Name			
30-025-5146	7 7320	7320 BRINNINSTOOL;BONE SPRING			
Property Code		Property Name	Well Number		
333939	SERPE	NTINE 35-26 FED COM	4H		
OGRID No.		Operator Name	Elevation		
6137	DEVON ENERG	Y PRODUCTION COMPANY	7, L.P. 3574.0'		

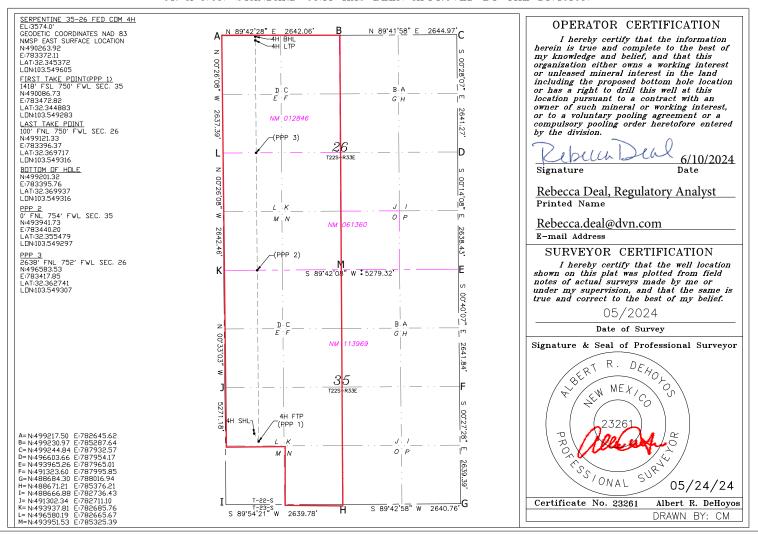
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	35	55-2	33-E		1596	SOUTH	651	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	55-2	33-E		20	NORTH	750	WEST	LEA
Dedicated Acres	s Joint o	r Infill	Consolidation	Code Or	der No.				
600									

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



Intent	t X	As Dril	led											
API#														
DE\	rator Nar /ON EN MPANY	١	-	erty N			-26 FI	ED (СОМ		Well Number 4H			
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	/S	Feet		From	n E/W	County	
Latitu	ıde	<u> </u>			Longitu	ıde							NAD	
First 1	Γake Poin	it (FTP)			1									
UL L	Section 35	Township 22-S	Range 33-E	Lot	Feet 1418		From N		Feet 75 0		From	n E/W ST	County LEA	
Latitu 32.	3448	83		L	Longitu 103									
	ake Poin													
D D	Section 26	Township 22-S	Range 33-E	Lot	Feet 100	From	n N/S RTH	Feet 750)	From WES	-	Count LEA		
132.	^{ide} 3697	17			Longitu 103		9316	6				NAD 83		
Is this	well the	defining w	vell for th	e Hori:	zontal Sp	oacing	Unit?		N]				
s this	well an i	infill well?		Υ										
	l is yes pl ng Unit.	lease provi	ide API if a	availak	ole, Oper	rator N	lame a	and w	ell n	umber	for [Definir	ng well fo	r Horizontal
API#]											
Ope	rator Nar	me:				Prop	erty N	ame:						Well Number
Dev	on Energ	y Productio	on Compa	any, L.I	Р.	Serp	entine	35 2	6 Fed	d Com				9Н
						l								l

KZ 06/29/2018

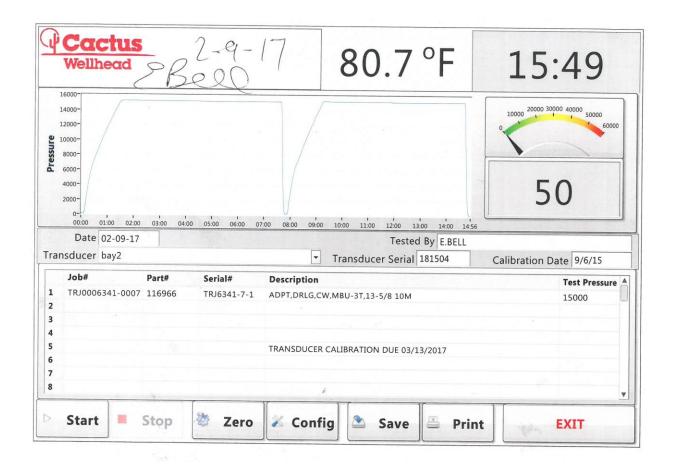
BOP Break Test Variance - Intermediate Casing

Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner.

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 BOP to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, or before the expiration of the allotted 14-days for 5M intermediate batch drilling, 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.

Well Control Response:

- 1. Primary barrier remains fluid
- 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:
 - 1. Annular first
 - 2. If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - 3. If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



1. Geologic Formations

TVD of target	10300	Pilot hole depth	N/A
MD at TD:	19229	Deepest expected fresh water	

Basin

Dasin		***	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	952		
Salt	1233		
Base of Salt	5068		
Delaware	5068		
Cherry Canyon	5918		
Brushy Canyon	7319		
1st Bone Spring Lime	8981		
	·		

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

2. Casing Program

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	977	0	977
12 1/4	9 5/8	40	J-55	ВТС	0	5150	0	5150
8 3/4	5 1/2	17	P110	ВТС	0	19229	0	10300

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	746	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	570	Surf	9.0	3.3	Lead: Class C Cement + additives
IIIt I	154	4650	13.2	1.4	Tail: Class H / C + additives
Production	434	4650	9.0	3.3	Lead: Class H /C + additives
Froduction	1830	9746	13.2	1.4	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	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	✓	Tested to:
			Anı	nular	X	50% of rated working pressure
Int 1	13-58"	5M	Bline	d Ram	X	
Int 1	13-36	JIVI	Pipe	Ram		5M
			Doub	le Ram	X	31V1
			Other*			
			Anı	nular	X	50% of rated working pressure
Production	13-5/8"	5M	Bline	d Ram	X	
Floduction	13-3/6	3101	Pipe	Ram		5M
			Doub	le Ram	X	3101
			Other*			
			Annul	ar (5M)		
			Bline	d Ram		
			Pipe	Ram		
			Doub	le Ram		
			Other*			

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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

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

6. Logging and Testing Procedures

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

Additional	l logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4820
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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



U. S. Steel Tubular Products 5.500" 17.00lbs/ft (0.304" Wall) P110

2/21/2019 8:12:22 AM

MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	110,000				psi
Maximum Yield Strength	140,000				psi
Minimum Tensile Strength	125,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	5.500	6.050	6.050		in.
Wall Thickness	0.304				in.
Inside Diameter	4.892	4.892	4.892		in.
Standard Drift	4.767	4.767	4.767		in.
Alternate Drift					in.
Nominal Linear Weight, T&C	17.00				lbs/ft
Plain End Weight	16.89				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	7,480	7,480	7,480		psi
Minimum Internal Yield Pressure	10,640	10,640	10,640		psi
Minimum Pipe Body Yield Strength	546				1,000 lbs
Joint Strength		568	445		1,000 lbs
Joint Strength Reference Length		568 22,271	445 17,449		1,000 lbs ft
ŭ					,
Reference Length		22,271	17,449		,
Reference Length MAKE-UP DATA	 Pipe	22,271 BTC	17,449 LTC	STC	ft

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 connections@uss.com Spring, Texas 77380

1-877-893-9461 www.usstubular.com



U. S. Steel Tubular Products 13.375" 48.00lbs/ft (0.330" Wall) H40

1/8/2019 12:38:52 PM

MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	40,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	60,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	13.375			14.375	in.
Wall Thickness	0.330				in.
Inside Diameter	12.715			12.715	in.
Standard Drift	12.559	12.559		12.559	in.
Alternate Drift					in.
Nominal Linear Weight, T&C	48.00				lbs/ft
Plain End Weight	46.02				lbs/ft
PERFORMANCE	Pipe	втс	LTC	sтс	
Minimum Collapse Pressure	740	740		740	psi
Minimum Internal Yield Pressure	1,730	1,730		1,730	psi
Minimum Pipe Body Yield Strength	541				1,000 lbs
Joint Strength				322	1,000 lbs
Reference Length				4,473	ft
MAKE-UP DATA	Pipe	втс	LTC	STC	
Make-Up Loss				3.50	in.
Minimum Make-Up Torque				2,420	ft-lbs
Maximum Make-Up Torque				4,030	ft-lbs

Legal Notice

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

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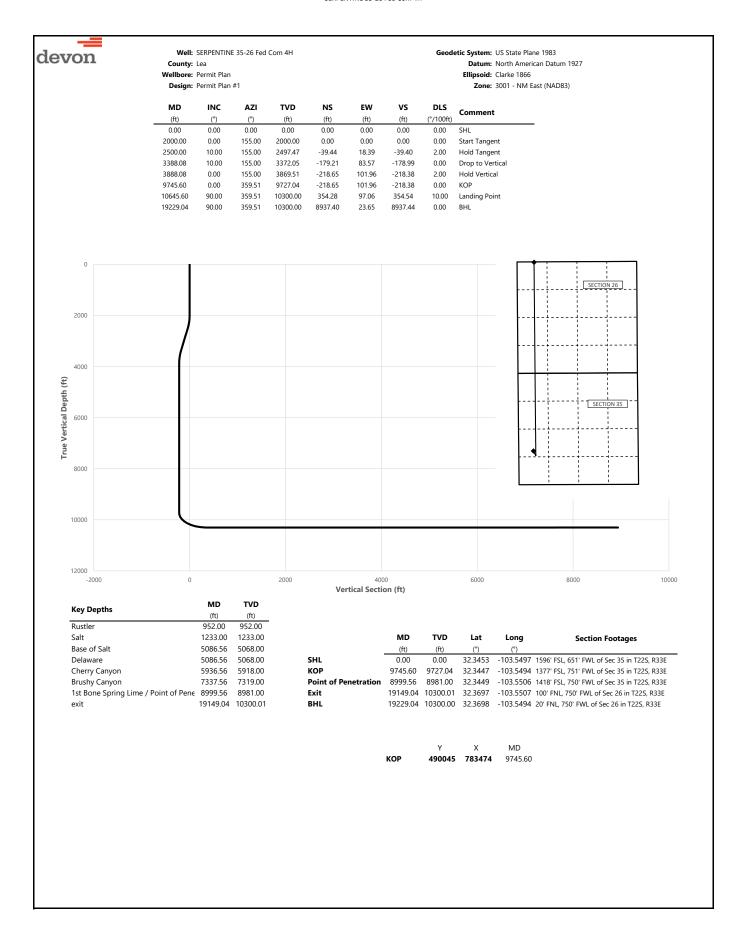


9.625" 40# .395" J-55

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		
<u>refrontiance froperties</u>		
Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
ВТС	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.
ВТС	714	1000 lbs.

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





Well: SERPENTINE 35-26 Fed Com 4H

Geodetic System: US State Plane 1983

County: Lea

Datum: North American Datum 1927

Wellbore: Permit Plan

Ellipsoid: Clarke 1866

Wellbore: Permit Plan

Design: Permit Plan #1

	Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00 155.00	0.00 100.00	0.00	0.00	0.00	0.00	SHL
100.00 200.00	0.00	155.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	155.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	155.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	155.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	155.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	155.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	155.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	155.00	900.00	0.00	0.00	0.00	0.00	D. II
952.00	0.00	155.00	952.00	0.00	0.00	0.00	0.00	Rustler
1000.00 1100.00	0.00	155.00 155.00	1000.00 1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	155.00	1200.00	0.00	0.00	0.00	0.00	
1233.00	0.00	155.00	1233.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	155.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	155.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	155.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	155.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	155.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	155.00	1800.00	0.00	0.00	0.00	0.00	
1900.00 2000.00	0.00	155.00 155.00	1900.00 2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	155.00	2099.98	-1.58	0.74	-1.58	2.00	Start Tangent
2200.00	4.00	155.00	2199.84	-6.32	2.95	-6.32	2.00	
2300.00	6.00	155.00	2299.45	-14.22	6.63	-14.21	2.00	
2400.00	8.00	155.00	2398.70	-25.27	11.78	-25.24	2.00	
2500.00	10.00	155.00	2497.47	-39.44	18.39	-39.40	2.00	Hold Tangent
2600.00	10.00	155.00	2595.95	-55.18	25.73	-55.11	0.00	
2700.00	10.00	155.00	2694.43	-70.92	33.07	-70.83	0.00	
2800.00	10.00	155.00	2792.91	-86.66	40.41	-86.55	0.00	
2900.00 3000.00	10.00 10.00	155.00 155.00	2891.39 2989.87	-102.40 -118.13	47.75 55.09	-102.27 -117.99	0.00	
3100.00	10.00	155.00	3088.35	-116.13	62.43	-117.99	0.00	
3200.00	10.00	155.00	3186.83	-149.61	69.76	-149.42	0.00	
3300.00	10.00	155.00	3285.31	-165.35	77.10	-165.14	0.00	
3388.08	10.00	155.00	3372.05	-179.21	83.57	-178.99	0.00	Drop to Vertical
3400.00	9.76	155.00	3383.80	-181.06	84.43	-180.84	2.00	
3500.00	7.76	155.00	3482.62	-194.87	90.87	-194.63	2.00	
3600.00	5.76	155.00	3581.92	-205.54	95.84	-205.28	2.00	
3700.00	3.76	155.00	3681.57	-213.06	99.35	-212.80	2.00	
3800.00 3888.08	1.76 0.00	155.00 155.00	3781.45 3869.51	-217.43 -218.65	101.39 101.96	-217.16 -218.38	2.00 2.00	Hold Vertical
3900.00	0.00	359.51	3881.44	-218.65	101.96	-218.38	0.00	Tiold Vertical
4000.00	0.00	359.51	3981.44	-218.65	101.96	-218.38	0.00	
4100.00	0.00	359.51	4081.44	-218.65	101.96	-218.38	0.00	
4200.00	0.00	359.51	4181.44	-218.65	101.96	-218.38	0.00	
4300.00	0.00	359.51	4281.44	-218.65	101.96	-218.38	0.00	
4400.00	0.00	359.51	4381.44	-218.65	101.96	-218.38	0.00	
4500.00	0.00	359.51	4481.44	-218.65	101.96	-218.38	0.00	
4600.00 4700.00	0.00	359.51 359.51	4581.44 4681.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
4800.00	0.00	359.51	4781.44	-218.65 -218.65	101.96	-218.38	0.00	
4900.00	0.00	359.51	4881.44	-218.65	101.96	-218.38	0.00	
5000.00	0.00	359.51	4981.44	-218.65	101.96	-218.38	0.00	
5086.56	0.00	359.51	5068.00	-218.65	101.96	-218.38	0.00	Base of Salt, Delaware
5100.00	0.00	359.51	5081.44	-218.65	101.96	-218.38	0.00	
5200.00	0.00	359.51	5181.44	-218.65	101.96	-218.38	0.00	
5300.00	0.00	359.51	5281.44	-218.65	101.96	-218.38	0.00	
5400.00	0.00	359.51	5381.44	-218.65	101.96	-218.38	0.00	
5500.00	0.00	359.51	5481.44	-218.65	101.96	-218.38	0.00	
5600.00 5700.00	0.00	359.51 359.51	5581.44 5681.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
5800.00	0.00	359.51	5781.44	-218.65 -218.65	101.96	-218.38	0.00	
5900.00	0.00	359.51	5881.44	-218.65	101.96	-218.38	0.00	
5936.56	0.00	359.51	5918.00	-218.65	101.96	-218.38	0.00	Cherry Canyon
6000.00	0.00	359.51	5981.44	-218.65	101.96	-218.38	0.00	• •
6100.00	0.00	359.51	6081.44	-218.65	101.96	-218.38	0.00	
6200.00	0.00	359.51	6181.44	-218.65	101.96	-218.38	0.00	
6300.00	0.00	359.51	6281.44	-218.65	101.96	-218.38	0.00	



Well: SERPENTINE 35-26 Fed Com 4H

County: Lea Wellbore: Permit Plan

Design: Permit Plan #1 Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	0.00	359.51	6381.44	-218.65	101.96	-218.38	0.00	
6500.00	0.00	359.51	6481.44	-218.65	101.96	-218.38	0.00	
6600.00	0.00	359.51	6581.44	-218.65	101.96	-218.38	0.00	
6700.00	0.00	359.51	6681.44	-218.65	101.96	-218.38	0.00	
6800.00	0.00	359.51	6781.44	-218.65	101.96	-218.38	0.00	
6900.00 7000.00	0.00	359.51 359.51	6881.44 6981.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
7100.00	0.00	359.51	7081.44	-218.65	101.96	-218.38	0.00	
7200.00	0.00	359.51	7181.44	-218.65	101.96	-218.38	0.00	
7300.00	0.00	359.51	7281.44	-218.65	101.96	-218.38	0.00	
7337.56	0.00	359.51	7319.00	-218.65	101.96	-218.38	0.00	Brushy Canyon
7400.00	0.00	359.51	7381.44	-218.65	101.96	-218.38	0.00	
7500.00	0.00	359.51	7481.44	-218.65	101.96	-218.38	0.00	
7600.00	0.00	359.51	7581.44	-218.65	101.96	-218.38	0.00	
7700.00	0.00	359.51	7681.44	-218.65	101.96	-218.38	0.00	
7800.00 7900.00	0.00	359.51 359.51	7781.44 7881.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
8000.00	0.00	359.51	7981.44	-218.65	101.96	-218.38	0.00	
8100.00	0.00	359.51	8081.44	-218.65	101.96	-218.38	0.00	
8200.00	0.00	359.51	8181.44	-218.65	101.96	-218.38	0.00	
8300.00	0.00	359.51	8281.44	-218.65	101.96	-218.38	0.00	
8400.00	0.00	359.51	8381.44	-218.65	101.96	-218.38	0.00	
8500.00	0.00	359.51	8481.44	-218.65	101.96	-218.38	0.00	
8600.00	0.00	359.51	8581.44	-218.65	101.96	-218.38	0.00	
8700.00	0.00	359.51	8681.44	-218.65	101.96	-218.38	0.00	
8800.00 8900.00	0.00	359.51 359.51	8781.44 8881.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
8999.56	0.00	359.51	8981.00	-218.65	101.96	-218.38	0.00	1st Bone Spring Lime / Point of Penetration
9000.00	0.00	359.51	8981.44	-218.65	101.96	-218.38	0.00	13t bone Spring Lime / Form of Fenetration
9100.00	0.00	359.51	9081.44	-218.65	101.96	-218.38	0.00	
9200.00	0.00	359.51	9181.44	-218.65	101.96	-218.38	0.00	
9300.00	0.00	359.51	9281.44	-218.65	101.96	-218.38	0.00	
9400.00	0.00	359.51	9381.44	-218.65	101.96	-218.38	0.00	
9500.00	0.00	359.51	9481.44	-218.65	101.96	-218.38	0.00	
9600.00	0.00	359.51	9581.44	-218.65	101.96	-218.38	0.00	
9700.00 9745.60	0.00	359.51 359.51	9681.44 9727.04	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	KOP
9800.00	5.44	359.51	9781.36	-216.03	101.96	-215.80	10.00	KOF
9900.00	15.44	359.51	9879.58	-197.98	101.78	-197.71	10.00	
10000.00	25.44	359.51	9973.16	-163.10	101.48	-162.83	10.00	
10100.00	35.44	359.51	10059.27	-112.50	101.05	-112.24	10.00	
10200.00	45.44	359.51	10135.28	-47.72	100.50	-47.46	10.00	
10300.00	55.44	359.51	10198.89	29.27	99.84	29.54	10.00	
10400.00	65.44	359.51	10248.16	116.14	99.09	116.40	10.00	
10500.00	75.44	359.51	10281.60	210.25	98.29	210.51	10.00	
10600.00 10645.60	85.44 90.00	359.51 359.51	10298.19 10300.00	308.73 354.28	97.45 97.06	308.99 354.54	10.00 10.00	Landing Point
10700.00	90.00	359.51	10300.00	408.68	96.59	408.93	0.00	Landing Form
10800.00	90.00	359.51	10300.00	508.67	95.74	508.93	0.00	
10900.00	90.00	359.51	10300.00	608.67	94.88	608.92	0.00	
11000.00	90.00	359.51	10300.00	708.67	94.03	708.91	0.00	
11100.00	90.00	359.51	10300.00	808.66	93.17	808.91	0.00	
11200.00	90.00	359.51	10300.00	908.66	92.32	908.90	0.00	
11300.00	90.00	359.51	10300.00	1008.66	91.46	1008.89	0.00	
11400.00 11500.00	90.00 90.00	359.51 359.51	10300.00 10300.00	1108.65	90.60 89.75	1108.89 1208.88	0.00	
11600.00	90.00	359.51	10300.00	1208.65 1308.65	89.75 88.89	1208.88	0.00	
11700.00	90.00	359.51	10300.00	1408.64	88.04	1408.87	0.00	
11800.00	90.00	359.51	10300.00	1508.64	87.18	1508.86	0.00	
11900.00	90.00	359.51	10300.00	1608.63	86.33	1608.86	0.00	
12000.00	90.00	359.51	10300.00	1708.63	85.47	1708.85	0.00	
12100.00	90.00	359.51	10300.00	1808.63	84.61	1808.84	0.00	
12200.00	90.00	359.51	10300.00	1908.62	83.76	1908.84	0.00	
12300.00	90.00	359.51	10300.00	2008.62	82.90	2008.83	0.00	
12400.00	90.00	359.51	10300.00	2108.62	82.05	2108.83	0.00	
12500.00 12600.00	90.00 90.00	359.51 359.51	10300.00 10300.00	2208.61 2308.61	81.19 80.34	2208.82 2308.81	0.00	
12700.00	90.00	359.51	10300.00	2408.60	79.48	2408.81	0.00	
12800.00	90.00	359.51	10300.00	2508.60	78.62	2508.80	0.00	
12900.00	90.00	359.51	10300.00	2608.60	77.77	2608.79	0.00	



Well: SERPENTINE 35-26 Fed Com 4H

County: Lea Wellbore: Permit Plan Design: Permit Plan #1 Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NC	EW	vs	DIC		
(ft)	(°)	(°)	(ft)	NS (ft)	(ft)	(ft)	DLS (°/100ft)	Comment	
00	90.00	359.51	10300.00	2708.59	76.91	2708.79	0.00		
00.00	90.00	359.51	10300.00	2808.59	76.06	2808.78	0.00		
200.00	90.00	359.51	10300.00	2908.59	75.20	2908.78	0.00		
300.00	90.00	359.51	10300.00	3008.58	74.35	3008.77	0.00		
400.00	90.00	359.51	10300.00	3108.58	73.49	3108.76	0.00		
3500.00	90.00	359.51	10300.00	3208.58	72.63	3208.76	0.00		
8600.00	90.00	359.51	10300.00	3308.57	71.78	3308.75	0.00		
3700.00	90.00	359.51	10300.00	3408.57	70.92	3408.74	0.00		
3800.00	90.00	359.51	10300.00	3508.56	70.07	3508.74	0.00		
3900.00	90.00	359.51	10300.00	3608.56	69.21	3608.73	0.00		
4000.00	90.00	359.51	10300.00	3708.56	68.36	3708.73	0.00		
4100.00	90.00	359.51	10300.00	3808.55	67.50	3808.72	0.00		
4200.00	90.00	359.51	10300.00	3908.55	66.64	3908.71	0.00		
4300.00	90.00	359.51	10300.01	4008.55	65.79	4008.71	0.00		
4400.00	90.00	359.51	10300.01	4108.54	64.93	4108.70	0.00		
4500.00	90.00	359.51	10300.01	4208.54	64.08	4208.69	0.00		
4600.00	90.00	359.51	10300.01	4308.54	63.22	4308.69	0.00		
4700.00	90.00	359.51	10300.01	4408.53	62.37	4408.68	0.00		
4800.00	90.00	359.51	10300.01	4508.53	61.51	4508.68	0.00		
4900.00 4900.00	90.00	359.51	10300.01	4608.52	60.65	4608.67	0.00		
5000.00	90.00	359.51	10300.01	4708.52	59.80	4708.66	0.00		
5100.00	90.00	359.51	10300.01	4808.52	58.94	4808.66	0.00		
5200.00	90.00	359.51	10300.01	4908.51	58.94	4908.65	0.00		
5300.00	90.00	359.51	10300.01	5008.51	57.23	5008.64	0.00		
5400.00	90.00	359.51	10300.01	5108.51	56.38	5108.64	0.00		
5500.00	90.00	359.51	10300.01	5208.50	55.52	5208.63	0.00		
5600.00	90.00	359.51	10300.01	5308.50	54.66	5308.62	0.00		
5700.00	90.00	359.51	10300.01			5408.62	0.00		
5800.00	90.00	359.51	10300.01	5408.50 5508.49	53.81 52.95	5508.61	0.00		
5900.00	90.00	359.51	10300.01	5608.49		5608.61	0.00		
					52.10				
6000.00	90.00	359.51	10300.01	5708.48	51.24	5708.60	0.00		
6100.00	90.00	359.51	10300.01	5808.48	50.39	5808.59	0.00		
6200.00	90.00	359.51	10300.01	5908.48	49.53	5908.59	0.00		
300.00	90.00	359.51	10300.01	6008.47	48.67	6008.58	0.00		
6400.00	90.00	359.51	10300.01	6108.47	47.82	6108.57	0.00		
6500.00	90.00	359.51	10300.01	6208.47	46.96	6208.57	0.00		
6600.00	90.00	359.51	10300.01	6308.46	46.11	6308.56	0.00		
700.00	90.00	359.51	10300.01	6408.46	45.25	6408.56	0.00		
5800.00	90.00	359.51	10300.01	6508.45	44.39	6508.55	0.00		
5900.00	90.00	359.51	10300.01	6608.45	43.54	6608.54	0.00		
7000.00	90.00	359.51	10300.01	6708.45	42.68	6708.54	0.00		
7100.00	90.00	359.51	10300.01	6808.44	41.83	6808.53	0.00		
7200.00	90.00	359.51	10300.01	6908.44	40.97	6908.52	0.00		
7300.00	90.00	359.51	10300.01	7008.44	40.12	7008.52	0.00		
7400.00	90.00	359.51	10300.01	7108.43	39.26	7108.51	0.00		
7500.00	90.00	359.51	10300.01	7208.43	38.40	7208.51	0.00		
7600.00	90.00	359.51	10300.01	7308.43	37.55	7308.50	0.00		
7700.00	90.00	359.51	10300.01	7408.42	36.69	7408.49	0.00		
7800.00	90.00	359.51	10300.01		35.84	7508.49	0.00		
7900.00	90.00	359.51	10300.01	7608.41	34.98	7608.48	0.00		
3000.00	90.00	359.51	10300.01	7708.41	34.13	7708.47	0.00		
8100.00	90.00	359.51	10300.01	7808.41	33.27	7808.47	0.00		
8200.00	90.00	359.51	10300.01	7908.40	32.41	7908.46	0.00		
8300.00	90.00	359.51	10300.01	8008.40	31.56	8008.46	0.00		
8400.00	90.00	359.51	10300.01	8108.40	30.70	8108.45	0.00		
18500.00	90.00	359.51	10300.01	8208.39	29.85	8208.44	0.00		
18600.00	90.00	359.51	10300.01	8308.39	28.99	8308.44	0.00		
18700.00	90.00	359.51	10300.01	8408.39	28.14	8408.43	0.00		
18800.00	90.00	359.51	10300.01	8508.38	27.28	8508.42	0.00		
18900.00	90.00	359.51	10300.01	8608.38	26.42	8608.42	0.00		
19000.00	90.00	359.51	10300.01	8708.37	25.57	8708.41	0.00		
19100.00	90.00	359.51	10300.01	8808.37	24.71	8808.41	0.00		
19149.04	90.00	359.51	10300.01	8857.41	24.29	8857.44	0.00	exit	
19200.00	90.00	359.51	10300.01	8908.37	23.86	8908.40	0.00		
	00.00	359.51	10300.00	8937.40	23.65	8937.44	0.00	BHL	
9229.04	90.00	555.5							



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repo

Well Name: SERPENTINE 35-26 FED

COM

Well Location: T22S / R33E / SEC 35 /

NWSW / 32.345372 / -103.549605

County or Parish/State: LEA /

Well Number: 4H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM113969

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551467

Operator: DEVON ENERGY PRODUCTION COMPANY LP

> Digitally signed by LONG LONG VO Date: 2024.06.26 08:59:58 -05'00'

Notice of Intent

Sundry ID: 2794434

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/10/2024

Date proposed operation will begin: 06/10/2024

Type of Action: APD Change

Time Sundry Submitted: 11:13

Procedure Description: Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: BHL change from 20 FNL & 330 FWL to 20 FNL & 750 FWL, both 26-22S-33E. Casing program change: Surface, Intermediate, and Production Casing size and depth changes. Cement volume changes to accommodate casing change. Break test and offline cement variance request included. Please see attached revised C-102, spec sheets, and drilling & directional plans, and supporting documentation.

NOI Attachments

Procedure Description

SERPENTINE_35_26_FED_COM_4H_C_102_BHL_NOI_20240610110933.pdf

BOP_Break_Test_Variance___Intermediate_Casing_20240610110925.pdf

SERPENTINE_35_26_Fed_Com_4H_R4_20240610110925.pdf

5.5_17lb_P110_BTC_20240610110925.pdf

13.375_48lb_H40_20240610110925.pdf

9.625_40lb_J55_SeAH_20240610110925.pdf

SERPENTINE_35_26_Fed_Com_4H_Directional_Plan_06_06_24_20240610110925.pdf

Page 1 of 2

eived by OCD: 6/26/2024 2:45:41 PM Well Name: SERPENTINE 35-26 FED

COM

Well Location: T22S / R33E / SEC 35 / NWSW / 32.345372 / -103.549605

County or Parish/State: Page 22 of

Well Number: 4H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM113969

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002551467

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator

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

Signed on: JUN 10, 2024 11:10 AM **Operator Electronic Signature: REBECCA DEAL**

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

Page 2 of 2

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM113969
Section 35, T.22 S., R.33 E., NMPM
COUNTY:
Lea County, New Mexico

WELL NAME & NO.:
BOTTOM HOLE FOOTAGE
ATS/API ID:
APD ID:
Sundry ID:
Date APD Submitted:

Serpentine 35-26 Fed Com 16H
20'/N & 750'/W
3002551467
10400081753
2794434
N/a

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1150 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 17 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 **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- 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.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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 3000 (3M) psi. Annular which shall be tested to 2100 (70% Working Pressure) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch intermediate casing shoe shall be 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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

Long Vo (LVO) 6/26/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

(suite 2015)	DEF	PARTMENT OF THE I	NTERIOR			Expii	res: October 31, 2021
	BUR	EAU OF LAND MANA	AGEMENT			5. Lease Serial No. NN	INM113969
_						6. If Indian, Allottee or	Tribe Name
	SUBMIT IN	TRIPLICATE - Other instru	ctions on page	9 2		7. If Unit of CA/Agreer	ment, Name and/or No.
1. Type of Well							
	ell Gas V	Vell Other				8. Well Name and No.	SERPENTINE 35-26 FED COM/4H
2. Name of Operator	DEVON ENERG	BY PRODUCTION COMPA	NY LP			9. API Well No. 30025	51467
		AVE, UNLAHOWA			2)	10. Field and Pool or Ex BRINNINSTOOL/BO	
		R.,M., or Survey Description)				11. Country or Parish, S LEA/NM	State
	12. CHE	CK THE APPROPRIATE BO	X(ES) TO INI	DICATE NATURI	E OF NOTI	CE, REPORT OR OTHE	ER DATA
TYPE OF SUI	BMISSION			TY	PE OF AC	TION	
Notice of Inter	nt	Acidize	Deep	en	Prod	uction (Start/Resume)	Water Shut-Off
		Alter Casing	Hydra	aulic Fracturing	Recl	amation	Well Integrity
Subsequent Re	eport	Casing Repair	=		=	1	Other
Final Abandor	BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals. SUBMIT INTRIPLICATE - Other instructions on page 2 Type of Well Oil Well Gas Well Other Name of Operator DEVON ENERGY PRODUCTION COMPANY LP Address 333 WEST SHERIDAN AVE, OKLAHOMA (46) 235-3611 Location of Well (Footage, Sec. T.R.M., or Survey Description) 11. Country or Pt. LEANM 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR TYPE OF SUBMISSION TYPE OF SUBMISSION TYPE OF SUBMISSION 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR Acidize Deepen Reclamation Alter Casing Hydraulic Fracturing Reclamation Subsequent Report Casing Repair New Construction Recomplete Casing Repair New Construction Recomplete Casing Repair New Construction Recomplete Convert to Injection Plug Back Water Disposal Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any propose the proposal is doepen directionally or recomplete horizontally, give subsurface loations and measured and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required and true vertical de the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Requi			-			
is ready for final Engineering C BHL change f Casing progra change. Breal	inspection.) Only - Devon Enerom 20 FNL & 33 Im change: Surfact test and offline	ergy Production Company L 30 FWL to 20 FNL & 750 F ace, Intermediate, and Prod cement variance request in	P. respectful WL, both 26-2 duction Casino ncluded.	ly requests the f 2S-33E. g size and depth	ollowing c	hanges to the approve	ed APD:
			nted/Typed)	Regulator Title	y Analyst		
	tronic Submissio	on)		Date		06/10/202	24
		THE SPACE	FOR FEDE	ERAL OR ST	ATE OF	ICE USE	
Approved by							
				Title		Da	ate
certify that the applica	ant holds legal or e	equitable title to those rights i		Or	RLSBAD		
Title 18 U.S.C Section	n 1001 and Title 4	3 U.S.C Section 1212. make i	t a crime for an	v person knowing	lv and will	fully to make to any den	artment or agency of the United States

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWSW / 1596 FSL / 651 FWL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.345372 / LONG: -103.549605 (TVD: 0 feet, MD: 0 feet) PPP: NWSW / 1418 FSL / 330 FWL / TWSP: 22S / RANGE: 33E / SECTION: 35 / LAT: 32.344888 / LONG: -103.550643 (TVD: 11755 feet, MD: 11856 feet) PPP: SWSW / 142 FSL / 336 FWL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.3558694 / LONG: -103.5506562 (TVD: 11875 feet, MD: 16000 feet) BHL: NWNW / 20 FNL / 330 FWL / TWSP: 22S / RANGE: 33E / SECTION: 26 / LAT: 32.369939 / LONG: -103.550677 (TVD: 11875 feet, MD: 20819 feet)



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	THE ESTATE	TOTT HITD HOTULAGE DI	DECITION FEBRUAR		
API Number	Pool C	ode	Pool Name		
30-025-5146	7 7320	7320 BRINNINSTOOL;BONE SPR		NG	
Property Code		Property Name	erty Name		
333939	SER	PENTINE 35-26 FED	COM	4H	
OGRID No.		Operator Name			
6137	DEVON ENE	RGY PRODUCTION CO	OMPANY, L.P.	3574.0'	

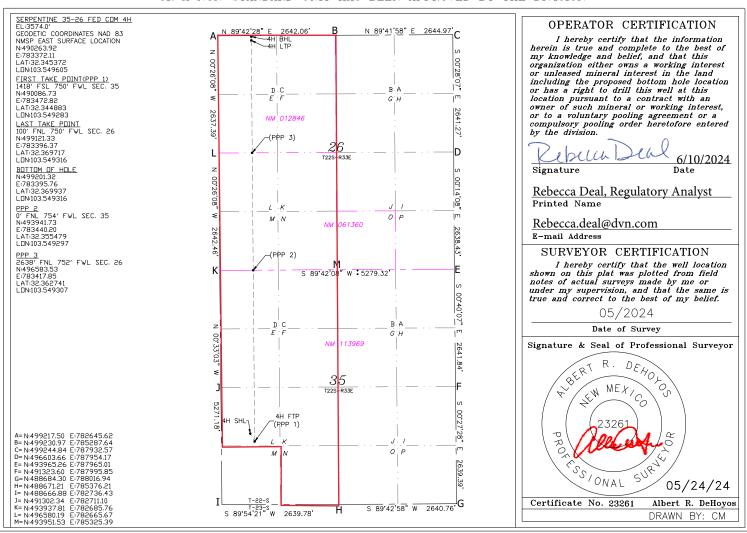
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	35	55-2	33-E		1596	SOUTH	651	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Rai	nge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	22-\$	2 33	3-E		20	NORTH	750	WEST	LEA
Dedicated Acres Joint or Infill		r Infill	Consolid	lation C	ode Or	der No.				
600										

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



Intent	: X	As Dril	led											
API#														
DEV	rator Nar 'ON EN MPANY	I	Property Name: SERPENTINE 35-26 FED COM							Well Number 4H				
Kick C	Off Point	(KOP)												
UL	Section	Township	Range	Lot	Feet		From N	′S	Feet		From	n E/W	County	
Latitu	de				Longitu	ide							NAD	
First T	ake Poin	t (FTP)			·									
UL L	Section 35	Township 22-S	Range 33-E	Lot	Feet 1418		From N/		Feet 75 (From	n E/W ST	County LEA	
					Longitu 103.	itude 3.549283 83								
Last T	ake Poin	t (LTP)												
UL D	Section 26	Township 22-S	Range 33-E	Lot	Feet 100		n N/S RTH	Feet 75 0)	From WES	-	Count		
Latitu 32.	^{de} 3697	17			Longitu 103.	8.549316 NAD 83								
ls this	well the	defining w	vell for th	e Horiz	ontal Sp	oacing	Unit?		N]				
s this	well an i	infill well?		Υ										
	l is yes pl ng Unit.	ease provi	ide API if a	availab	le, Oper	rator N	Name a	nd w	ell n	umber	for [Definir	ng well fo	r Horizontal
API#]											
Opei	rator Nar	me:	<u> </u>			Prop	erty Na	ame:						Well Number
Deve	on Energ	y Productio	on Compa	ıny, L.F	P	Serpentine 35 26 Fed Com						9Н		
					l									<u> </u>

KZ 06/29/2018

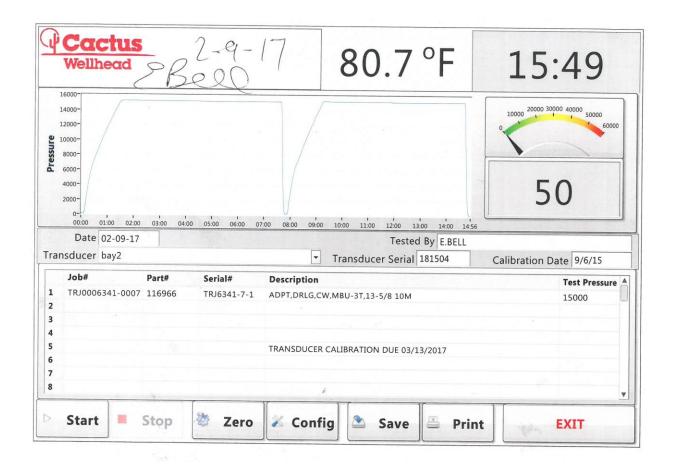
BOP Break Test Variance - Intermediate Casing

Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner.

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 BOP to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, or before the expiration of the allotted 14-days for 5M intermediate batch drilling, 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.

Well Control Response:

- 1. Primary barrier remains fluid
- 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:
 - 1. Annular first
 - 2. If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - 3. If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



1. Geologic Formations

TVD of target	10300	Pilot hole depth	N/A
MD at TD:	19229	Deepest expected fresh water	

Basin

Depth TVD) om KB 952 1233 5068		Hazards*
om KB 952 1233	Zone?	Hazards*
om KB 952 1233		
1233		
5068		
5068		
5918		
7319		
8981		
		_
	0701	

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

2. Casing Program

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	977	0	977
12 1/4	9 5/8	40	J-55	ВТС	0	5150	0	5150
8 3/4	5 1/2	17	P110	ВТС	0	19229	0	10300

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	746	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	570	Surf	9.0	3.3	Lead: Class C Cement + additives
IIIt I	154	4650	13.2	1.4	Tail: Class H / C + additives
Production	434	4650	9.0	3.3	Lead: Class H /C + additives
Froduction	1830	9746	13.2	1.4	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	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:	
			Annular		X	50% of rated working pressure	
Int 1	13-58"	5M	Bline	d Ram	X		
IIIt 1	13-36	3111	Pipe	Ram		5M	
			Doub	le Ram	X	3101	
			Other*				
	13-5/8"	5M	Annular		X	50% of rated working pressure	
Production			Blind Ram		X		
Troduction			Pipe Ram			5M	
						Double Ram	
			Other*				
			Annul	ar (5M)			
			Blind Ram				
			Pipe Ram]	
			Doub	le Ram			
			Other*				

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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

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

6. Logging and Testing Procedures

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

Additiona	l logs planned	Interval
	Resistivity	
	Density	
X	CBL	Production casing
X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4820
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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



U. S. Steel Tubular Products 5.500" 17.00lbs/ft (0.304" Wall) P110

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MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	110,000				psi
Maximum Yield Strength	140,000				psi
Minimum Tensile Strength	125,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	5.500	6.050	6.050		in.
Wall Thickness	0.304				in.
Inside Diameter	4.892	4.892	4.892		in.
Standard Drift	4.767	4.767	4.767		in.
Alternate Drift					in.
Nominal Linear Weight, T&C	17.00				lbs/ft
Plain End Weight	16.89				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	7,480	7,480	7,480		psi
Minimum Internal Yield Pressure	10,640	10,640	10,640		psi
Minimum Pipe Body Yield Strength	546				1,000 lbs
Joint Strength		568	445		1,000 lbs
		22 271	17,449		ft
Reference Length		22,271	17,445		
Reference Length MAKE-UP DATA	Pipe	BTC	LTC	STC	
					in.
MAKE-UP DATA	Pipe	втс	LTC	STC	

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

1-877-893-9461 www.usstubular.com



U. S. Steel Tubular Products 13.375" 48.00lbs/ft (0.330" Wall) H40

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MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	40,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	60,000				psi
DIMENSIONS	Pipe	втс	LTC	sтс	
Outside Diameter	13.375			14.375	in.
Wall Thickness	0.330				in.
Inside Diameter	12.715			12.715	in.
Standard Drift	12.559	12.559		12.559	in.
Alternate Drift					in.
Nominal Linear Weight, T&C	48.00				lbs/ft
Plain End Weight	46.02				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	740	740		740	psi
Minimum Internal Yield Pressure	1,730	1,730		1,730	psi
Minimum Pipe Body Yield Strength	541				1,000 lbs
Joint Strength				322	1,000 lbs
Reference Length				4,473	ft
MAKE-UP DATA	Pipe	втс	LTC	STC	
Make-Up Loss				3.50	in.
Minimum Make-Up Torque				2,420	ft-lbs
Maximum Make-Up Torque				4,030	ft-lbs

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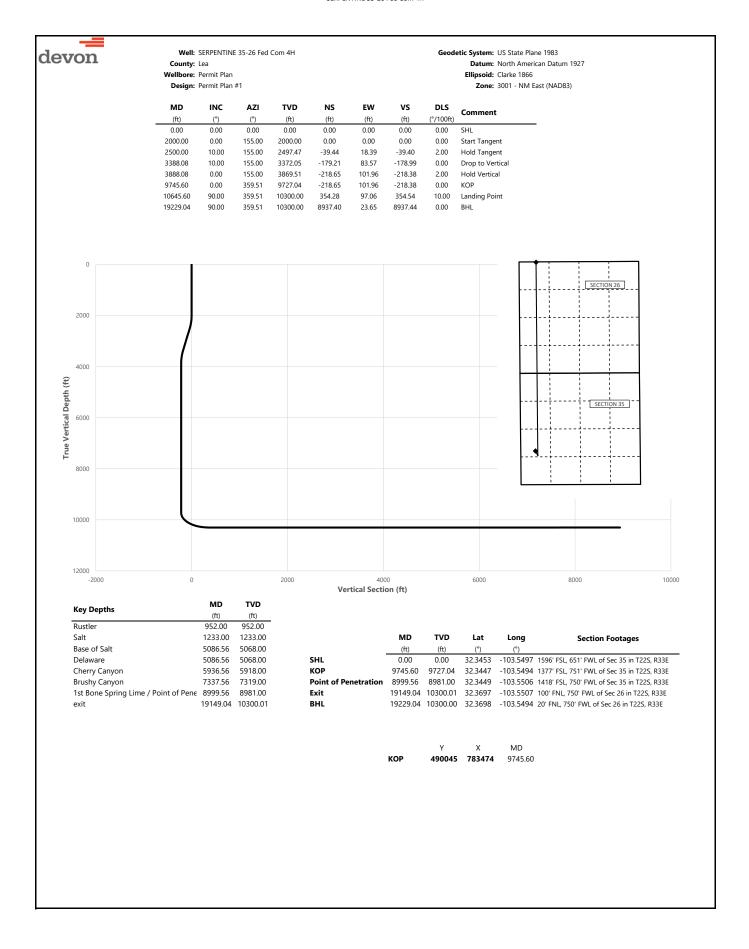


9.625" 40# .395" J-55

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 Propertie	ie.	
renormance Propertie	<u>:3</u>	
Collansa DE	2570	nci
Collapse, PE	2570	psi
Internal Yield Pressure at Minimu	ım Yield	
PE	3950	psi
LTC	3950	psi
ВТС	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.
ВТС	714	1000 lbs.

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





 Well: SERPENTINE 35-26 Fed Com 4H
 Geodetic System: US State Plane 1983

 County: Lea
 Datum: North American Datum 1927

 Wellbore: Permit Plan
 Ellipsoid: Clarke 1866

Design: Permit Plan #1 Zone: 3001 - NM East (NAD83)

	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	155.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	155.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	155.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	155.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	155.00	500.00	0.00	0.00	0.00	0.00	
600.00 700.00	0.00	155.00 155.00	600.00 700.00	0.00	0.00	0.00	0.00	
800.00	0.00	155.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	155.00	900.00	0.00	0.00	0.00	0.00	
952.00	0.00	155.00	952.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	155.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	155.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	155.00	1200.00	0.00	0.00	0.00	0.00	
1233.00	0.00	155.00	1233.00	0.00	0.00	0.00	0.00	Salt
1300.00	0.00	155.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	155.00	1400.00	0.00	0.00	0.00	0.00	
1500.00 1600.00	0.00	155.00 155.00	1500.00 1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	155.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	155.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	155.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	155.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	155.00	2099.98	-1.58	0.74	-1.58	2.00	
2200.00	4.00	155.00	2199.84	-6.32	2.95	-6.32	2.00	
2300.00	6.00	155.00	2299.45	-14.22	6.63	-14.21	2.00	
2400.00	8.00	155.00	2398.70	-25.27	11.78	-25.24	2.00	Held Teasest
2500.00 2600.00	10.00 10.00	155.00 155.00	2497.47 2595.95	-39.44 -55.18	18.39 25.73	-39.40 -55.11	2.00 0.00	Hold Tangent
2700.00	10.00	155.00	2694.43	-70.92	33.07	-70.83	0.00	
2800.00	10.00	155.00	2792.91	-86.66	40.41	-86.55	0.00	
2900.00	10.00	155.00	2891.39	-102.40	47.75	-102.27	0.00	
3000.00	10.00	155.00	2989.87	-118.13	55.09	-117.99	0.00	
3100.00	10.00	155.00	3088.35	-133.87	62.43	-133.71	0.00	
3200.00	10.00	155.00	3186.83	-149.61	69.76	-149.42	0.00	
3300.00	10.00	155.00	3285.31	-165.35	77.10	-165.14	0.00	
3388.08	10.00	155.00	3372.05	-179.21	83.57	-178.99	0.00	Drop to Vertical
3400.00 3500.00	9.76 7.76	155.00 155.00	3383.80 3482.62	-181.06 -194.87	84.43 90.87	-180.84 -194.63	2.00 2.00	
3600.00	5.76	155.00	3581.92	-194.67	95.84	-205.28	2.00	
3700.00	3.76	155.00	3681.57	-213.06	99.35	-212.80	2.00	
3800.00	1.76	155.00	3781.45	-217.43	101.39	-217.16	2.00	
3888.08	0.00	155.00	3869.51	-218.65	101.96	-218.38	2.00	Hold Vertical
3900.00	0.00	359.51	3881.44	-218.65	101.96	-218.38	0.00	
4000.00	0.00	359.51	3981.44	-218.65	101.96	-218.38	0.00	
4100.00	0.00	359.51	4081.44	-218.65	101.96	-218.38	0.00	
4200.00	0.00	359.51	4181.44	-218.65	101.96	-218.38	0.00	
4300.00	0.00	359.51 359.51	4281.44	-218.65	101.96	-218.38 -218.38	0.00	
4400.00 4500.00	0.00	359.51 359.51	4381.44 4481.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
4600.00	0.00	359.51	4581.44	-218.65	101.96	-218.38	0.00	
4700.00	0.00	359.51	4681.44	-218.65	101.96	-218.38	0.00	
4800.00	0.00	359.51	4781.44	-218.65	101.96	-218.38	0.00	
4900.00	0.00	359.51	4881.44	-218.65	101.96	-218.38	0.00	
5000.00	0.00	359.51	4981.44	-218.65	101.96	-218.38	0.00	
5086.56	0.00	359.51	5068.00	-218.65	101.96	-218.38	0.00	Base of Salt, Delaware
5100.00	0.00	359.51	5081.44	-218.65	101.96	-218.38	0.00	
5200.00 5300.00	0.00	359.51 359.51	5181.44 5281.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
5400.00	0.00	359.51	5381.44	-218.65	101.96	-218.38	0.00	
5500.00	0.00	359.51	5481.44	-218.65	101.96	-218.38	0.00	
5600.00	0.00	359.51	5581.44	-218.65	101.96	-218.38	0.00	
5700.00	0.00	359.51	5681.44	-218.65	101.96	-218.38	0.00	
5800.00	0.00	359.51	5781.44	-218.65	101.96	-218.38	0.00	
5900.00	0.00	359.51	5881.44	-218.65	101.96	-218.38	0.00	
5936.56	0.00	359.51	5918.00	-218.65	101.96	-218.38	0.00	Cherry Canyon
6000.00	0.00	359.51	5981.44	-218.65	101.96	-218.38	0.00	
6100.00	0.00	359.51	6081.44	-218.65	101.96	-218.38	0.00	
6200.00 6300.00	0.00	359.51 359.51	6181.44 6281.44	-218.65 -218.65	101.96 101.96	-218.38 -218.38	0.00	
0300.00	0.00	ا 5.5دد	0201.44	-210.03	101.30	-210.30	0.00	



Well: SERPENTINE 35-26 Fed Com 4H

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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

Zone: 3001 - NM East (NAD83)

Math		Design:	Permit Plan	า #1					Zone: 3001 - NM East (NAD83)
March Marc	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
Section Column									
Section Sect									
Section Column									
Taylor									
Table									
									Brushy Canyon
									,,
70000 00 359-51 7581-44 218.58 10196 218.38 0.0 700000 00 339-51 7781-44 218.58 10196 218.38 0.0 800000 00 339-51 7891-44 218.56 10196 218.38 0.0 800000 00 339-51 8911-44 218.56 10196 218.38 0.0 800000 00 339-51 8181-44 218.56 10196 218.38 0.0 800000 00 339-51 8181-44 218.56 10196 -218.38 0.0 800000 00 339-51 881-44 218.56 10196 -218.38 0.0 800000 00 339-51 881-44 218.56 10196 -218.38 0.0 80000 00 339-51 881-44 218.56 10196 -218.38 0.0 88905-5 00 339-51 881-44 218.56 10196 -218.38 0.0									
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12000.00 90.00 359.51 10300.00 1708.63 85.47 1708.85 0.00 12100.00 90.00 359.51 10300.00 1808.63 84.61 1808.84 0.00 12200.00 90.00 359.51 10300.00 1908.62 83.76 1908.84 0.00 12300.00 90.00 359.51 10300.00 2008.62 82.90 2008.83 0.00 12400.00 90.00 359.51 10300.00 2108.62 82.05 2108.83 0.00 12500.00 90.00 359.51 10300.00 2208.61 81.19 2208.82 0.00 12600.00 90.00 359.51 10300.00 2308.61 80.34 2308.81 0.00 12700.00 90.00 359.51 10300.00 2408.60 79.48 2408.81 0.00 12800.00 90.00 359.51 10300.00 2508.60 78.62 2508.80 0.00	11800.00	90.00	359.51	10300.00	1508.64	87.18	1508.86	0.00	
12100.00 90.00 359.51 10300.00 1808.63 84.61 1808.84 0.00 12200.00 90.00 359.51 10300.00 1908.62 83.76 1908.84 0.00 12300.00 90.00 359.51 10300.00 2008.62 82.90 2008.83 0.00 12400.00 90.00 359.51 10300.00 2108.62 82.05 2108.83 0.00 12500.00 90.00 359.51 10300.00 2208.61 81.19 2208.82 0.00 12600.00 90.00 359.51 10300.00 2308.61 80.34 2308.81 0.00 12700.00 90.00 359.51 10300.00 2408.60 79.48 2408.81 0.00 12800.00 90.00 359.51 10300.00 2508.60 78.62 2508.80 0.00			359.51				1608.86	0.00	
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12400.00 90.00 359.51 10300.00 2108.62 82.05 2108.83 0.00 12500.00 90.00 359.51 10300.00 2208.61 81.19 2208.82 0.00 12600.00 90.00 359.51 10300.00 2308.61 80.34 2308.81 0.00 12700.00 90.00 359.51 10300.00 2408.60 79.48 2408.81 0.00 12800.00 90.00 359.51 10300.00 2508.60 78.62 2508.80 0.00								0.00	
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	12300.00	30.00	ا 5.5دد	10300.00	2000.00	11.11	2000.19	0.00	



Well: SERPENTINE 35-26 Fed Com 4H

County: Lea Wellbore: Permit Plan Design: Permit Plan #1 Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	_	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
0.00	90.00	359.51	10300.00	2708.59	76.91	2708.79	0.00		
00.00	90.00	359.51	10300.00	2808.59	76.06	2808.78	0.00		
200.00	90.00	359.51	10300.00	2908.59	75.20	2908.78	0.00		
3300.00	90.00	359.51	10300.00	3008.58	74.35	3008.77	0.00		
3400.00	90.00	359.51	10300.00	3108.58	73.49	3108.76	0.00		
500.00	90.00	359.51	10300.00	3208.58	72.63	3208.76	0.00		
600.00	90.00	359.51	10300.00	3308.57	71.78	3308.75	0.00		
3700.00 3800.00	90.00 90.00	359.51 359.51	10300.00 10300.00	3408.57 3508.56	70.92 70.07	3408.74 3508.74	0.00		
900.00	90.00	359.51	10300.00	3608.56	69.21	3608.74	0.00		
4000.00	90.00	359.51	10300.00	3708.56	68.36	3708.73	0.00		
4100.00	90.00	359.51	10300.00	3808.55	67.50	3808.72	0.00		
4200.00	90.00	359.51	10300.01	3908.55	66.64	3908.71	0.00		
1300.00	90.00	359.51	10300.01	4008.55	65.79	4008.71	0.00		
1400.00	90.00	359.51	10300.01	4108.54	64.93	4108.70	0.00		
500.00	90.00	359.51	10300.01	4208.54	64.08	4208.69	0.00		
600.00	90.00	359.51	10300.01	4308.54	63.22	4308.69	0.00		
700.00	90.00	359.51	10300.01	4408.53	62.37	4408.68	0.00		
00.0084	90.00	359.51	10300.01	4508.53	61.51	4508.68	0.00		
900.00	90.00	359.51	10300.01	4608.52	60.65	4608.67	0.00		
00.000	90.00	359.51	10300.01	4708.52	59.80	4708.66	0.00		
5100.00 5200.00	90.00	359.51	10300.01	4808.52	58.94	4808.66	0.00		
300.00	90.00 90.00	359.51 359.51	10300.01 10300.01	4908.51 5008.51	58.09 57.23	4908.65 5008.64	0.00		
400.00	90.00	359.51	10300.01	5108.51	56.38	5108.64	0.00		
5500.00	90.00	359.51	10300.01	5208.50	55.52	5208.63	0.00		
5600.00	90.00	359.51	10300.01	5308.50	54.66	5308.62	0.00		
5700.00	90.00	359.51	10300.01	5408.50	53.81	5408.62	0.00		
5800.00	90.00	359.51	10300.01	5508.49	52.95	5508.61	0.00		
5900.00	90.00	359.51	10300.01	5608.49	52.10	5608.61	0.00		
6000.00	90.00	359.51	10300.01	5708.48	51.24	5708.60	0.00		
6100.00	90.00	359.51	10300.01	5808.48	50.39	5808.59	0.00		
6200.00	90.00	359.51	10300.01	5908.48	49.53	5908.59	0.00		
6300.00	90.00	359.51	10300.01	6008.47	48.67	6008.58	0.00		
6400.00	90.00	359.51	10300.01	6108.47	47.82	6108.57	0.00		
5500.00	90.00	359.51	10300.01	6208.47	46.96	6208.57	0.00		
5600.00	90.00	359.51	10300.01	6308.46	46.11	6308.56	0.00		
6700.00 6800.00	90.00 90.00	359.51 359.51	10300.01 10300.01	6408.46 6508.45	45.25 44.39	6408.56 6508.55	0.00		
6900.00	90.00	359.51	10300.01	6608.45	43.54	6608.54	0.00		
7000.00	90.00	359.51	10300.01	6708.45	42.68	6708.54	0.00		
7100.00	90.00	359.51	10300.01	6808.44	41.83	6808.53	0.00		
7200.00	90.00	359.51	10300.01	6908.44	40.97	6908.52	0.00		
7300.00	90.00	359.51	10300.01	7008.44	40.12	7008.52	0.00		
7400.00	90.00	359.51	10300.01	7108.43	39.26	7108.51	0.00		
7500.00	90.00	359.51	10300.01	7208.43	38.40	7208.51	0.00		
7600.00	90.00	359.51	10300.01	7308.43	37.55	7308.50	0.00		
7700.00	90.00	359.51	10300.01	7408.42	36.69	7408.49	0.00		
7800.00	90.00	359.51	10300.01	7508.42	35.84	7508.49	0.00		
7900.00	90.00	359.51	10300.01	7608.41	34.98	7608.48	0.00		
8000.00	90.00	359.51	10300.01	7708.41	34.13	7708.47	0.00		
8100.00	90.00	359.51	10300.01	7808.41	33.27	7808.47	0.00		
8200.00	90.00	359.51	10300.01	7908.40	32.41	7908.46	0.00		
8300.00	90.00	359.51	10300.01	8008.40	31.56	8008.46	0.00		
18400.00	90.00	359.51	10300.01	8108.40	30.70	8108.45	0.00		
18500.00	90.00	359.51	10300.01	8208.39	29.85	8208.44	0.00		
18600.00	90.00	359.51	10300.01	8308.39	28.99	8308.44	0.00		
18700.00 18800.00	90.00 90.00	359.51 359.51	10300.01 10300.01	8408.39 8508.38	28.14 27.28	8408.43 8508.42	0.00		
18900.00	90.00	359.51	10300.01	8608.38	26.42	8608.42	0.00		
19000.00	90.00	359.51	10300.01	8708.37	25.57	8708.41	0.00		
19100.00	90.00	359.51	10300.01	8808.37	24.71	8808.41	0.00		
19149.04	90.00	359.51	10300.01	8857.41	24.29	8857.44	0.00	exit	
19200.00	90.00	359.51	10300.01	8908.37	23.86	8908.40	0.00		
	90.00	359.51	10300.00	8937.40	23.65	8937.44	0.00	BHL	
9229.04	50.00					0337			

Serpentine 35-26 Fed Com 4H

#/ ft 18.00	Grade I	ո 40	Coupling btc	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
18.00	ŀ	n 40	htc								
			Dio	9.80	1.43	0.62	1,150	3	1.03	2.70	55,200
			btc				0				0
w/8.4#	t/g mud, 30min Sfc Csg Test psig	: 709	Tail Cmt	does not	circ to sfc.	Totals:	1,150				55,200
posed to N	Minimum Required Cement	Volumes									
nnular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
olume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
.6946	746	1044	799	31	9.00	1676	2M				1.56
(s) for Segn	nent(s) A, B = , b All > 0.70), OK.									
n 0 .(posed to N Inular Ilume 6946	posed to Minimum Required Cement inular 1 Stage slume Cmt Sx 6946 746	Olume Cmt Sx CuFt Cmt 6946 746 1044		posed to Minimum Required Cement Volumes Inular 1 Stage Min 1 Stage Islume Cmt Sx CuFt Cmt Cu Ft % Excess 6946 746 1044 799 31	Description Proceed to Minimum Required Cement Volumes	Description Proceed to Minimum Required Cement Volumes	posed to Minimum Required Cement Volumes Inular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd Inulume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 6946 746 1044 799 31 9.00 1676 2M	posed to Minimum Required Cement Volumes Inular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd Inulume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 6946 746 1044 799 31 9.00 1676 2M	posed to Minimum Required Cement Volumes Inular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd Inular Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 6946 746 1044 799 31 9.00 1676 2M	posed to Minimum Required Cement Volumes Inular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd Inular Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 6946 746 1044 799 31 9.00 1676 2M

9 5/8	ca	sing inside the	13 3/8			Design	Factors -		-	Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc	3.06	0.91	0.82	5,150	1	1.55	1.53	206,000
"B"								0				0
	w/8.4	4#/g mud, 30min Sfc Csg Test ps	ig: 518				Totals:	5,150				206,000
		The cement vo	lume(s) are intend	led to achieve a top of	0	ft from su	ırface or a	1150				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.3132	724	2097	1686	24	10.50	2550	3M				0.81
D V Tool(s):							sum of sx	Σ CuFt				Σ%excess
t by stage % :		#VALUE!	#VALUE!				724	2097				24
Class 'C' tail cm	nt yld > 1.35											
Burst Frac Grad	dient(s) for Seg	ment(s): A, B, C, D = 0.77, b,	, c, d All > 0.70, (DK.								

5 1/2	casing	inside the	9 5/8	_		Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	17.00		p 110	btc	3.12	1.55	2.21	19,229	2	4.17	2.93	326,893
"B"								0				0
	w/8.4#/g ı	nud, 30min Sfc Csg Test p	sig: 2,266				Totals:	19,229				326,893
		The cement v	olume(s) are inten	ded to achieve a top of	4950	ft from su	rface or a	200			(overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
8 3/4	0.2526	2264	3994	3608	11	9.00						1.35
lass 'C' tail cmt	t yld > 1.35											

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

Carlsbad Field Office 6/26/2024

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 357904

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	357904
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	REQUIRES NSP	12/19/2024
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	12/19/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/19/2024