

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

Sundry Print Report of 58

Well Name: COTTON DRAW UNIT Well Location: T25S / R31E / SEC 1 /

LOT 2 / 32.165708 / -103.731147

County or Parish/State: EDDY /

NM

Well Number: 638H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0503

Unit or CA Name: COTTON DRAW

UNIT

Unit or CA Number:

NMNM70928X

US Well Number: 3001554979

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2816664

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/05/2024

Date proposed operation will begin: 10/11/2024

Type of Action: APD Change

Time Sundry Submitted: 10:48

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change to a slim hole casing design, BHL, name, TVD, pool code and spacing on the subject well. Devon also requests a break test and offline cementing variance. New leases have been added since approved APD and notification has been given. Please see attached revised C102, Drill plan, directional plan, spec sheets, break test and offline cementing variance. Permitted BHL: SESW, 20 FSL, 2310 FWL, 12-25S-31E Proposed BHL: NENW, 20 FNL, 2150 FWL, 25-24S-31E Permitted Well name: COTTON DRAW UNIT 638H Proposed Well name: COTTON DRAW 25-36 FED STATE COM 126H Permitted TVD/MD: 12329/22472 - Purple Sage/Wolfcamp Proposed TVD/MD: 9790/20066 - Paduca/Bone Spring

NOI Attachments

Procedure Description

WA018390663_COTTON_DRAW_25_36_FED_STATE_COM_126H_WL_R1_SIGNED_20241105104737.pdf

break test variance BOP 1 15 24 20241105104734.pdf

Offline_Cementing___Variance_Request_20241105104736.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20241105104732.pdf

COTTON_DRAW_25_36_FED_STATE_COM_126H_slim_hole_20241105104730.pdf

5.5_20lb_P110HP_TALON_RD_20241105104731.pdf

Well Location: T25S / R31E / SEC 1 /

LOT 2 / 32.165708 / -103.731147

County or Parish/State: EDDY Page

Well Number: 638H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0503

Unit or CA Name: COTTON DRAW

UNIT

Unit or CA Number:

NMNM70928X

US Well Number: 3001554979

Operator: DEVON ENERGY PRODUCTION COMPANY LP

COTTON DRAW 25 36 FED STATE COM 126H Directional Plan 10 02 24 20241105104732.pdf

Conditions of Approval

Specialist Review

Sundry ID 2816664 20241114150413.pdf

Operator

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

Operator Electronic Signature: CHELSEY GREEN Signed on: NOV 11, 2024 04:40 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8595

Email address: CHELSEY.GREEN@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

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

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

Released to Imaging: 11/22/2024 10:53:11 AM **Disposition Date:** 11/14/2024 Form 3160-5

UNITED STATES

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

June 2019) DEPARTMENT OF THE INTERIOR				Expires: October 31, 2021						
	BUR	EAU OF LAND MANA	GEMENT		5. Lease Serial No.	5. Lease Serial No. NMNM0503				
	o not use this t	NOTICES AND REPOR form for proposals to Use Form 3160-3 (API	6. If Indian, Allottee or Tribe	Name						
	SUBMIT IN	TRIPLICATE - Other instruct	ions on page	2	7. If Unit of CA/Agreement,		and/or No.			
1. Type of Well	_		8. Well Name and No.	201						
Oi		Vell Other	COTTON DRAW UNIT/638H	COTTON DRAW UNIT/638H						
2. Name of Opera	tor DEVON ENERG	GY PRODUCTION COMPAN	IY LP		9. API Well No. 300155497	9				
3a. Address 333	WEST SHERIDAN	AVE, OKLAHOMA CITY, (4	2) 10. Field and Pool or Explora PURPLE SAGE/Wolfcamp (Gas)	itory A	rea					
4. Location of We SEC 1/T25S/R		R.,M., or Survey Description)	11. Country or Parish, State EDDY/NM							
	12. CHE	CK THE APPROPRIATE BOX	OF NOTICE, REPORT OR OT	HER I	DATA					
TYPE OF S	SUBMISSION		PE OF ACTION							
✓ Notice of I	ntent	Acidize Alter Casing	= '	en ulic Fracturing Construction	Production (Start/Resume) Reclamation Recomplete		Water Shut-Off Well Integrity Other			
Subsequen	t Report	Casing Repair Change Plans		nd Abandon	Temporarily Abandon	<u> </u>				
Final Aban	donment Notice	Convert to Injection	Plug E		Water Disposal					
permitted Normal Permit	ergy Production Co. I the subject well. Do ation has been give attached revised Co BHL: SESW, 20 FS BHL: NENW, 20 FN Well name: COTTO Well name: COTTO TVD/MD: 12329/224	, L.P. (Devon) respectfully re evon also requests a break t n.	equests to char est and offlin an, spec she	ange to a slim h	ole casing design, BHL, name riance. New leases have been and offline cementing variance	e, TVD n adde				
		true and correct. Name (Printe	ed/Typed)	Regulator	y Compliance Professional					
CHELSEY GRE	EN / Ph: (405) 228	-8595		Title	y compliance i releccional					
Signature (E	Electronic Submission	on)		Date	11/11/2	2024				
		THE SPACE F	OR FEDE	RAL OR ST	ATE OFICE USE					
Approved by					James Empire and		44/44/0004			
LONG VO / Ph	: (575) 988-5402 / <i>F</i>	Approved		Title	oleum Engineer	Date	11/14/2024			
certify that the app	olicant holds legal or o	hed. Approval of this notice doe equitable title to those rights in duct operations thereon.			RLSBAD		-			
T:41- 10 II C C C	otion 1001 and Tid. 4	2 II S.C. Spatian 1212, males it of			1 4:!!!£-!! 4! 4					

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: LOT 2 / 331 FNL / 2534 FEL / TWSP: 258 / RANGE: 31E / SECTION: 1 / LAT: 32.165708 / LONG: -103.731147 (TVD: 8346 feet, MD: 8412 feet) PPP: LOT 3 / 100 FNL / 2310 FWL / TWSP: 258 / RANGE: 31E / SECTION: 1 / LAT: 32.16635 / LONG: -103.732621 (TVD: 11650 feet, MD: 11695 feet) BHL: SESW / 20 FSL / 2310 FWL / TWSP: 258 / RANGE: 31E / SECTION: 12 / LAT: 32.137633 / LONG: -103.732644 (TVD: 12329 feet, MD: 22472 feet)

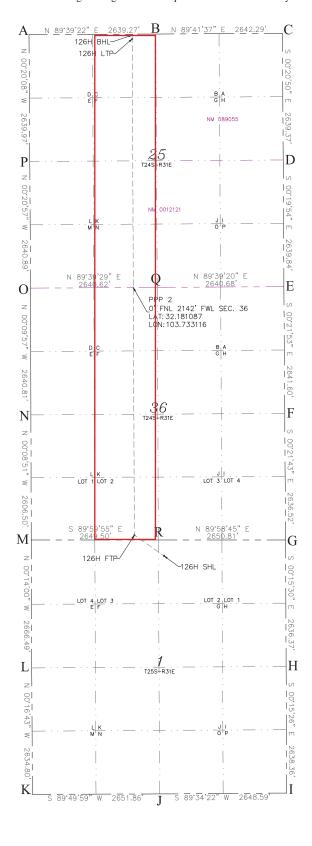


<u>C-1</u>					ls & Natura	of New Mexico Revised July, ral Resources Department ATION DIVISION				vised July, 2024
	Electronically Permitting				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1101, 21,101				1
	Ü							Submittal Type:	☐ Amended Repo	rt
									☐ As Drilled	
				W	ELL LOCAT	ION INFORMATIO	N			
API N	umber		Pool Cod			Pool Name				
	015-54979		966			PADUCA;	BONE SPI	RING		
Prope	rty Code		Property		TTON DRAW	25-36 FED STATE	COM		Well Number	
OGRID			Operator	Name					Ground Level	Elevation
	6137			DEVO	N ENERGY P	RODUCTION COMPA	NY, L.P.		3470.1	
Surfac	ce Owner:	□State □	Fee □Trib	al Fe	deral	Mineral Owner:	□State	□Fee □'	Γribal ⊠Federal	
					Cum	face Location				
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County
O.B.	1	25-S	31-E	2	331' N	2534' E	32.165		103.731147	EDDY
			01 L	2			0.01100		1001101111	
UL	Section	Township	Range	Lot	Ft. from N	m Hole Location /S Ft. from E/W	Latitude		Longitude	County
C	25	24-S	31-E	Lot	20' N	2150' W	32.195		103.733096	EDDY
	20	2	01 L		20 11	2100 W	52.155	540	100.700000	EDD1
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API Ove	rlapping Spacing Uni	t. (Y/N)	Consolid	ation Code	
						ppg spasing sin	(1)11)			
319.	Numbers				TAT _ 11	l setbacks are under	C	O	ip: □Yes □No	
order	Numbers				wei	sechacks are under	Common	Ownersn	ip: les livo	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
	36	24S	31E	2	55 S	2150 W	32.1667		103.7332	EDDY
l	1 20	210	J1E			ake Point (FTP)	32.1007		103.7332	LDD1
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
	36	24-S	31-E	2	100' S	2150' W	32.166902		103.733136	EDDY
					Last T	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County
C	25	24-S	31-E		100' N	2150' W	32.195	328	103.733096	EDDY
					Spacing	Unit Type XHorizon	tal Verti	eal (Fround Floor Ele	vation:
ODEDA	שמת מדים	DICATIONS				CLIDVEYOD CEDTIFIC	ATTONIC			
I hereby		information cor			omplete to the best	SURVEYOR CERTIFIC		41-:	.1-41-44- 1 6 6	14
-	_				onal well, that this terest in the land	I hereby certify that the we of actual surveys made by	me or under s			
including	g the proposed	bottom hole loc	ation or has a r	ight to drill	this well at this	correct to the best of my be	elief.		7 R. /	
		contract with an o voluntary pooli			or unleased sory pooling order				BER	DEHOLOS
heretofo	re entered by t	he division.							KN WEX	/c \ v \
					ion has received the					/ / /
		lessee or owner on the target pool			eased mineral part of the well's				23261	1 / 1
complete division.		be located or ob	otained a comp	ılsory poolii	ng order from the				1 Po / Nelles	1 0 /
									\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/54/
Signa	ture	1	Date			Signature and Seal	of Profes	ssional S	urveyor / ONAL	50
	· local	MAGA	1	0/01/202	4					
Print	ed Name			0/01/2024	+	Certificate Number	Date of	Survey		
Ch	elsey Green	1						·		
	l Address	- ·				23261	07/20	24		
che	lsev.green@	a)dvn.com								

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



C= N:435430.04 E:730140.88 D= N:432790.73 E:730156.88 E= N:430150.93 E:730172.17 F= N:427509.39 E:730205.63 H= N:422836.58 E:730217.51 I= N:419598.25 E:730229.36 J= N:419578.50 E:727580.84 K= N:419570.77 E:724916.18 M= N:422405.54 E:724916.18 M= N:424872.01 E:72490.32 N= N:427478.51 E:724898.61 O= N:430119.30 E:724890.97 P= N:432760.15 E:724874.87 Q= N:430135.06 E:727531.54 R= N:424871.96 E:727554.82

A=N:435400.07 E:724859.41 B=N:435415.91 E:727498.63

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

- 1. Well Control Response:
- 1. Primary barrier remains fluid
- 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



Offline Cementing

Variance Request

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

U. S. Steel Tubular Products 7.625" 29.70lb/ft (0.375" Wall

5/15/2024 6:31:14 PM

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

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

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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

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

COTTON DRAW 25-36 FED STATE COM 126H

1. Geologic Formations

TVD of target	9790	Pilot hole depth	N/A
MD at TD:	20066	Deepest expected fresh water	

Basin

Basin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	660		
Salt	1105		
Base of Salt	4310		
Lamar	4385		
Delaware	4560		
Cherry Canyon	5440		
Brushy Canyon	6790		
1st Bone Spring Lime	8360		
Bone Spring 1st	9420		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	685	0	685
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	9173	0	9173
6 3/4	5 1/2	20	P110HP	TALON RD	0	20066	0	9790

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

3. Cementing Program (Primary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	367	Surf	13.2 1.44		Lead: Class C Cement + additives
Int 1	383	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	218	6851	13.2	1.44	Tail: Class H / C + additives
Production	62	7273	9	3.27	Lead: Class H /C + additives
Froduction	689	9273	13.2	1.44	Tail: Class H / C + additives

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:		
			Annular		Annular		X	50% of rated working pressure
Int 1	13-5/8"	5M		d Ram	X			
Int 1	13-3/6	5111	Pipe	Ram		5M		
			Doub	le Ram	X	3111		
			Other*					
			Annul	ar (5M)	X	50% of rated working pressure		
Production	13-5/8"	5N4	Blind Ram		X			
Floduction	13-3/6	5M	Pipe	Ram		5M		
			Doub	le Ram	X	5101		
			Other*					
			Annular (5M)					
			Blind Ram					
			Pipe	Ram				
			Doub	le Ram				
			Other*					
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schema	atic.		
Y A variance is requested to 1	un a 5 M a	nnular on a 10M s	system					

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5345
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

COTTON DRAW 25-36 FED STATE COM 126H

8. Other facets of operation

2

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachm	ents
X	Directional Plan
	Other, describe

[4]

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

2/21/2024 7:48:59 AM

MECHANICAL PROPERTIES USS-TALON HTQ™ RD **Pipe** [6] Minimum Yield Strength 125.000 psi Maximum Yield Strength 140,000 psi Minimum Tensile Strength 130.000 psi **DIMENSIONS** Pipe USS-TALON HTQ™ RD **Outside Diameter** 5.500 5.900 in. Wall Thickness 0.361 in. Inside Diameter 4.778 4.778 in. Standard Drift 4.653 4.653 in. Alternate Drift in. Nominal Linear Weight, T&C 20.00 lb/ft Plain End Weight 19.83 lb/ft USS-TALON HTQ™ RD SECTION AREA **Pipe** Critical Area 5.828 5.828 sq. in. Joint Efficiency 100.0 % [2] **PERFORMANCE USS-TALON HTQ™ RD Pipe** Minimum Collapse Pressure 13,150 13.150 psi Minimum Internal Yield Pressure 14,360 14,360 psi Minimum Pipe Body Yield Strength 729.000 lb Joint Strength 729,000 lb 729.000 Compression Rating lh Reference Length 24,300 ft [5] Maximum Uniaxial Bend Rating 104.2 deg/100 ft [3] MAKE-UP DATA USS-TALON HTQ™ RD Pipe Make-Up Loss 5.58 in. Minimum Make-Up Torque 18,400 ft-lb [4] Maximum Make-Up Torque 21,400 ft-lb [4]

Notes

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

44.400

- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.

Maximum Operating Torque

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

Legal Notice

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

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

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

ft-lb



9.625" 40# .395" J-55

Dimensions (Nominal)

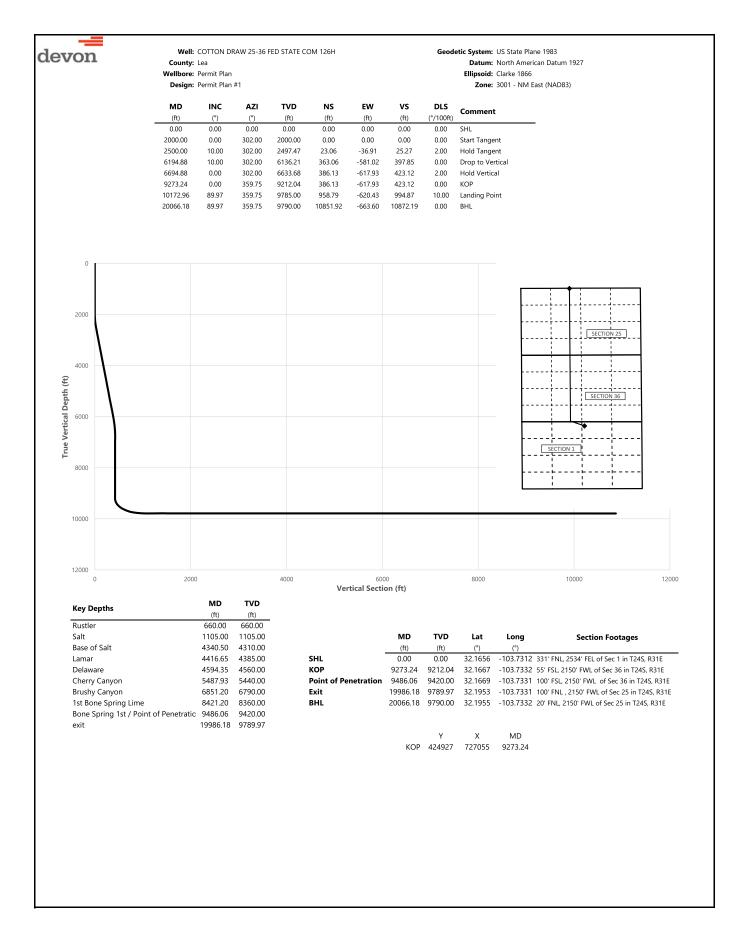
BTC

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
		11 /6.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.
Daufaussas Duanautias		
<u>Performance Properties</u>		
Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950 3950	-
		psi
ВТС	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	1000 lbs.

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

714

1000 lbs.





Well: COTTON DRAW 25-36 FED STATE COM 126H

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)

		Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)		
	MD	INC	AZI	TVD	NS	EW	VS	DLS		
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL	
	00.00	0.00	302.00	100.00	0.00	0.00	0.00	0.00		
	200.00	0.00	302.00	200.00	0.00	0.00	0.00	0.00		
	800.00	0.00	302.00	300.00	0.00	0.00	0.00	0.00		
	00.00	0.00	302.00	400.00	0.00	0.00	0.00	0.00		
	00.00	0.00	302.00	500.00	0.00	0.00	0.00	0.00		
6	00.00	0.00	302.00	600.00	0.00	0.00	0.00	0.00		
6	60.00	0.00	302.00	660.00	0.00	0.00	0.00	0.00	Rustler	
7	00.00	0.00	302.00	700.00	0.00	0.00	0.00	0.00		
8	300.00	0.00	302.00	800.00	0.00	0.00	0.00	0.00		
9	00.00	0.00	302.00	900.00	0.00	0.00	0.00	0.00		
10	00.00	0.00	302.00	1000.00	0.00	0.00	0.00	0.00		
	100.00	0.00	302.00	1100.00	0.00	0.00	0.00	0.00		
	105.00	0.00	302.00	1105.00	0.00	0.00	0.00	0.00	Salt	
	200.00	0.00	302.00	1200.00	0.00	0.00	0.00	0.00		
	300.00	0.00	302.00	1300.00	0.00	0.00	0.00	0.00		
	400.00	0.00	302.00	1400.00	0.00	0.00	0.00	0.00		
	500.00	0.00	302.00	1500.00	0.00	0.00	0.00	0.00		
	600.00	0.00	302.00	1600.00	0.00	0.00	0.00	0.00		
	700.00	0.00	302.00	1700.00	0.00	0.00	0.00	0.00		
	00.00	0.00	302.00	1800.00	0.00	0.00	0.00	0.00		
	900.00	0.00	302.00	1900.00	0.00	0.00	0.00	0.00	Charl Toward	
	000.00	0.00	302.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent	
	100.00	2.00	302.00	2099.98	0.92	-1.48	1.01	2.00		
	200.00	4.00	302.00	2199.84	3.70	-5.92 12.21	4.05	2.00		
	300.00 400.00	6.00 8.00	302.00	2299.45 2398.70	8.32	-13.31	9.11	2.00 2.00		
	500.00	10.00	302.00 302.00	2497.47	14.77 23.06	-23.64 -36.91	16.19 25.27	2.00	Hold Tangent	
	600.00	10.00	302.00	2595.95	32.27	-50.91	35.36	0.00	noid rangent	
	700.00	10.00	302.00	2694.43	41.47	-66.36	45.44	0.00		
	800.00	10.00	302.00	2792.91	50.67	-81.09	55.52	0.00		
	900.00	10.00	302.00	2891.39	59.87	-95.81	65.61	0.00		
	00.00	10.00	302.00	2989.87	69.07	-110.54	75.69	0.00		
	100.00	10.00	302.00	3088.35	78.27	-125.27	85.77	0.00		
	200.00	10.00	302.00	3186.83	87.48	-139.99	95.86	0.00		
	300.00	10.00	302.00	3285.31	96.68	-154.72	105.94	0.00		
	400.00	10.00	302.00	3383.79	105.88	-169.45	116.03	0.00		
	500.00	10.00	302.00	3482.27	115.08	-184.17	126.11	0.00		
	600.00	10.00	302.00	3580.75	124.28	-198.90	136.19	0.00		
	700.00	10.00	302.00	3679.23	133.49	-213.62	146.28	0.00		
	800.00	10.00	302.00	3777.72	142.69	-228.35	156.36	0.00		
39	900.00	10.00	302.00	3876.20	151.89	-243.08	166.44	0.00		
40	00.00	10.00	302.00	3974.68	161.09	-257.80	176.53	0.00		
41	100.00	10.00	302.00	4073.16	170.29	-272.53	186.61	0.00		
42	200.00	10.00	302.00	4171.64	179.50	-287.26	196.69	0.00		
43	300.00	10.00	302.00	4270.12	188.70	-301.98	206.78	0.00		
43	340.50	10.00	302.00	4310.00	192.42	-307.94	210.86	0.00	Base of Salt	
	400.00	10.00	302.00	4368.60	197.90	-316.71	216.86	0.00		
	416.65	10.00	302.00	4385.00	199.43	-319.16	218.54	0.00	Lamar	
	500.00	10.00	302.00	4467.08	207.10	-331.43	226.94	0.00		
	594.35	10.00	302.00	4560.00	215.78	-345.33	236.46	0.00	Delaware	
	600.00	10.00	302.00	4565.56	216.30	-346.16	237.03	0.00		
	700.00	10.00	302.00	4664.04	225.50	-360.89	247.11	0.00		
	800.00	10.00	302.00	4762.52	234.71	-375.61	257.20	0.00		
	900.00	10.00	302.00	4861.00	243.91	-390.34	267.28	0.00		
	00.000	10.00	302.00	4959.48	253.11	-405.06	277.36	0.00		
	100.00	10.00	302.00	5057.97	262.31	-419.79	287.45	0.00		
	200.00	10.00	302.00	5156.45	271.51	-434.52	297.53	0.00		
	300.00	10.00	302.00	5254.93	280.72	-449.24	307.61	0.00		
	400.00	10.00	302.00	5353.41	289.92	-463.97	317.70	0.00	Charry Canton	
	487.93	10.00	302.00	5440.00	298.01	-476.92	326.56	0.00	Cherry Canyon	
	500.00	10.00	302.00	5451.89	299.12	-478.70 402.42	327.78	0.00		
	600.00	10.00	302.00	5550.37	308.32	-493.42	337.86	0.00		
	700.00 800.00	10.00	302.00	5648.85 5747.33	317.52	-508.15 -522.87	347.95	0.00		
	900.00	10.00 10.00	302.00 302.00	5747.33 5845.81	326.73 335.93	-522.87 -537.60	358.03 368.11	0.00		
	00.00	10.00	302.00	5944.29	345.13	-552.33	378.20	0.00		
	100.00	10.00	302.00	6042.77	354.33	-552.55 -567.05	388.28	0.00		
	194.88	10.00	302.00	6136.21	363.06	-581.02	397.85	0.00	Drop to Vertical	
	200.00	9.90	302.00	6141.25	363.53	-581.77	398.37	2.00	= - p = 101000	
n.		5.50	552.00	J	555.55	551.77	555.51			



Well: COTTON DRAW 25-36 FED STATE COM 126H

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)

	Design:	Permit Plan	ermit Plan #1 Zone: 3001 - NM East (NAD83)						
MD	INC	AZI	TVD	NS	EW	vs	DLS		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
6300.00	7.90	302.00	6240.05	371.73	-594.89	407.35	2.00		
6400.00	5.90	302.00	6339.32	378.09	-605.07	414.32	2.00		
6500.00	3.90	302.00	6438.95	382.62	-612.31	419.28	2.00		
6600.00	1.90	302.00	6538.81	385.30	-616.60	422.21	2.00		
6694.88	0.00	302.00	6633.68	386.13	-617.93	423.12	2.00	Hold Vertical	
6700.00	0.00	359.75	6638.80	386.13	-617.93	423.13	0.00		
6800.00	0.00	359.75	6738.80	386.13	-617.93	423.13	0.00		
6851.20	0.00	359.75	6790.00	386.13	-617.93	423.13	0.00	Brushy Canyon	
6900.00	0.00	359.75	6838.80	386.13	-617.93	423.13	0.00		
7000.00	0.00	359.75	6938.80	386.13	-617.93	423.13	0.00		
7100.00	0.00	359.75	7038.80	386.13	-617.93	423.13	0.00		
7200.00	0.00	359.75	7138.80	386.13	-617.93	423.13	0.00		
7300.00	0.00	359.75	7238.80	386.13	-617.93	423.13	0.00		
7400.00	0.00	359.75	7338.80	386.13	-617.93	423.13	0.00		
7500.00	0.00	359.75	7438.80	386.13	-617.93	423.13	0.00		
7600.00	0.00	359.75	7538.80	386.13	-617.93	423.13	0.00		
7700.00	0.00	359.75	7638.80	386.13	-617.93	423.13	0.00		
7800.00	0.00	359.75	7738.80	386.13	-617.93	423.13	0.00		
7900.00	0.00	359.75	7838.80	386.13	-617.93	423.13	0.00		
8000.00	0.00	359.75	7938.80	386.13	-617.93	423.13	0.00		
8100.00	0.00	359.75	8038.80	386.13	-617.93	423.13	0.00		
8200.00	0.00	359.75	8138.80	386.13	-617.93	423.13 423.13	0.00		
8300.00	0.00	359.75	8238.80	386.13	-617.93		0.00		
8400.00 8421.20	0.00	359.75 359.75	8338.80 8360.00	386.13 386.13	-617.93 -617.93	423.13 423.13	0.00	1st Bone Spring Lime	
8500.00	0.00	359.75	8438.80	386.13	-617.93 -617.93	423.13	0.00	ist boile spring time	
8600.00	0.00	359.75	8538.80	386.13	-617.93	423.13	0.00		
8700.00	0.00	359.75	8638.80	386.13	-617.93	423.13	0.00		
8800.00	0.00	359.75	8738.80	386.13	-617.93	423.13	0.00		
8900.00	0.00	359.75	8838.80	386.13	-617.93	423.13	0.00		
9000.00	0.00	359.75	8938.80	386.13	-617.93	423.13	0.00		
9100.00	0.00	359.75	9038.80	386.13	-617.93	423.13	0.00		
9200.00	0.00	359.75	9138.80	386.13	-617.93	423.13	0.00		
9273.24	0.00	359.75	9212.04	386.13	-617.93	423.12	0.00	KOP	
9300.00	2.68	359.75	9238.79	386.75	-617.94	423.75	10.00		
9400.00	12.68	359.75	9337.77	400.09	-617.99	437.07	10.00		
9486.06	21.28	359.75	9420.00	425.20	-618.10	462.13	10.00	Bone Spring 1st / Point of Penetration	
9500.00	22.68	359.75	9432.92	430.42	-618.13	467.34	10.00		
9600.00	32.68	359.75	9521.37	476.80	-618.33	513.65	10.00		
9700.00	42.68	359.75	9600.42	537.84	-618.60	574.60	10.00		
9800.00	52.68	359.75	9667.67	611.68	-618.92	648.32	10.00		
9900.00	62.68	359.75	9721.07	696.08	-619.29	732.58	10.00		
10000.00	72.68	359.75	9759.01	788.46	-619.69	824.82	10.00		
10100.00	82.68	359.75	9780.33	886.04	-620.12	922.23	10.00		
10172.96	89.97	359.75	9785.00	958.79	-620.43	994.87	10.00	Landing Point	
10200.00	89.97	359.75	9785.01	985.84	-620.55	1021.87	0.00		
10300.00	89.97	359.75	9785.06	1085.83	-620.99	1121.71	0.00		
10400.00	89.97	359.75	9785.12	1185.83	-621.42	1221.55	0.00		
10500.00	89.97	359.75	9785.17	1285.83	-621.86	1321.39	0.00		
10600.00	89.97	359.75	9785.22	1385.83	-622.30	1421.23	0.00		
10700.00	89.97	359.75	9785.27	1485.83	-622.74	1521.07	0.00		
10800.00	89.97	359.75	9785.32	1585.83	-623.17	1620.91	0.00		
10900.00	89.97	359.75	9785.37	1685.83	-623.61	1720.75	0.00		
11000.00	89.97	359.75	9785.42	1785.83	-624.05	1820.59	0.00		
11100.00	89.97	359.75	9785.47	1885.83	-624.48	1920.43	0.00		
11200.00	89.97	359.75	9785.52	1985.83	-624.92	2020.27	0.00		
11300.00	89.97	359.75	9785.57	2085.82	-625.36	2120.11	0.00		
11400.00	89.97	359.75	9785.62	2185.82	-625.79	2219.95	0.00		
11500.00	89.97	359.75	9785.67	2285.82	-626.23	2319.78	0.00		
11600.00	89.97	359.75	9785.72	2385.82	-626.67	2419.62	0.00		
11700.00	89.97 89.97	359.75 359.75	9785.77	2485.82	-627.10 -627.54	2519.46	0.00		
11800.00 11900.00	89.97 89.97	359.75 359.75	9785.82 9785.88	2585.82 2685.82	-627.54 -627.98	2619.30 2719.14	0.00		
12000.00	89.97 89.97	359.75 359.75	9785.88	2785.82	-627.98 -628.41	2818.98	0.00		
12100.00	89.97	359.75	9785.98	2885.82	-628.85	2918.82	0.00		
12100.00	89.97	359.75	9786.03	2985.82	-629.29	3018.66	0.00		
12300.00	89.97	359.75	9786.08	3085.82	-629.72	3118.50	0.00		
12400.00	89.97	359.75	9786.13	3185.81	-630.16	3218.34	0.00		
12500.00	89.97	359.75	9786.18	3285.81	-630.60	3318.18	0.00		
12600.00	89.97	359.75	9786.23	3385.81	-631.04	3418.02	0.00		



Well: COTTON DRAW 25-36 FED STATE COM 126H

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)

	Design:	Design: Permit Plan #1					Zone: 3001 - NM East (NAD83)		
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment	
12700.00	89.97	359.75	9786.28	3485.81	-631.47	3517.86	0.00		
12800.00	89.97	359.75	9786.33	3585.81	-631.91	3617.69	0.00		
12900.00	89.97	359.75	9786.38	3685.81	-632.35	3717.53	0.00		
13000.00	89.97	359.75	9786.43	3785.81	-632.78	3817.37	0.00		
13100.00 13200.00	89.97 89.97	359.75 359.75	9786.48 9786.53	3885.81 3985.81	-633.22 -633.66	3917.21 4017.05	0.00 0.00		
13300.00	89.97	359.75	9786.58	4085.81	-634.09	4116.89	0.00		
13400.00	89.97	359.75	9786.64	4185.80	-634.53	4216.73	0.00		
13500.00	89.97	359.75	9786.69	4285.80	-634.97	4316.57	0.00		
13600.00	89.97	359.75	9786.74	4385.80	-635.40	4416.41	0.00		
13700.00	89.97	359.75	9786.79	4485.80	-635.84	4516.25	0.00		
13800.00	89.97	359.75	9786.84	4585.80	-636.28	4616.09	0.00		
13900.00	89.97	359.75	9786.89	4685.80	-636.71	4715.93	0.00		
14000.00	89.97	359.75	9786.94	4785.80	-637.15	4815.77	0.00		
14100.00	89.97	359.75	9786.99	4885.80	-637.59	4915.60	0.00		
14200.00 14300.00	89.97 89.97	359.75 359.75	9787.04 9787.09	4985.80 5085.80	-638.03 -638.46	5015.44 5115.28	0.00 0.00		
14400.00	89.97	359.75	9787.14	5185.79	-638.90	5215.12	0.00		
14500.00	89.97	359.75	9787.19	5285.79	-639.34	5314.96	0.00		
14600.00	89.97	359.75	9787.24	5385.79	-639.77	5414.80	0.00		
14700.00	89.97	359.75	9787.29	5485.79	-640.21	5514.64	0.00		
14800.00	89.97	359.75	9787.34	5585.79	-640.65	5614.48	0.00		
14900.00	89.97	359.75	9787.40	5685.79	-641.08	5714.32	0.00		
15000.00	89.97	359.75	9787.45	5785.79	-641.52	5814.16	0.00		
15100.00	89.97	359.75	9787.50	5885.79	-641.96	5914.00	0.00		
15200.00 15300.00	89.97	359.75	9787.55	5985.79	-642.39	6013.84	0.00		
15400.00	89.97 89.97	359.75 359.75	9787.60 9787.65	6085.79 6185.79	-642.83 -643.27	6113.68 6213.52	0.00 0.00		
15500.00	89.97	359.75	9787.70	6285.78	-643.70	6313.35	0.00		
15600.00	89.97	359.75	9787.75	6385.78	-644.14	6413.19	0.00		
15700.00	89.97	359.75	9787.80	6485.78	-644.58	6513.03	0.00		
15800.00	89.97	359.75	9787.85	6585.78	-645.01	6612.87	0.00		
15900.00	89.97	359.75	9787.90	6685.78	-645.45	6712.71	0.00		
16000.00	89.97	359.75	9787.95	6785.78	-645.89	6812.55	0.00		
16100.00	89.97	359.75	9788.00	6885.78	-646.33	6912.39	0.00		
16200.00	89.97	359.75	9788.05	6985.78	-646.76	7012.23	0.00		
16300.00 16400.00	89.97	359.75	9788.10	7085.78	-647.20	7112.07	0.00		
16500.00	89.97 89.97	359.75 359.75	9788.16 9788.21	7185.78 7285.77	-647.64 -648.07	7211.91 7311.75	0.00 0.00		
16600.00	89.97	359.75	9788.26	7385.77	-648.51	7411.59	0.00		
16700.00	89.97	359.75	9788.31	7485.77	-648.95	7511.43	0.00		
16800.00	89.97	359.75	9788.36	7585.77	-649.38	7611.26	0.00		
16900.00	89.97	359.75	9788.41	7685.77	-649.82	7711.10	0.00		
17000.00	89.97	359.75	9788.46	7785.77	-650.26	7810.94	0.00		
17100.00	89.97	359.75	9788.51	7885.77	-650.69	7910.78	0.00		
17200.00	89.97	359.75	9788.56	7985.77	-651.13	8010.62	0.00		
17300.00 17400.00	89.97	359.75 359.75	9788.61	8085.77 8185 77	-651.57 652.00	8110.46	0.00		
17400.00	89.97 89.97	359.75 359.75	9788.66 9788.71	8185.77 8285.76	-652.00 -652.44	8210.30 8310.14	0.00 0.00		
17600.00	89.97	359.75	9788.76	8385.76	-652.88	8409.98	0.00		
17700.00	89.97	359.75	9788.81	8485.76	-653.32	8509.82	0.00		
17800.00	89.97	359.75	9788.86	8585.76	-653.75	8609.66	0.00		
17900.00	89.97	359.75	9788.92	8685.76	-654.19	8709.50	0.00		
18000.00	89.97	359.75	9788.97	8785.76	-654.63	8809.34	0.00		
18100.00	89.97	359.75	9789.02	8885.76	-655.06	8909.17	0.00		
18200.00	89.97	359.75	9789.07	8985.76	-655.50	9009.01	0.00		
18300.00	89.97	359.75	9789.12	9085.76	-655.94	9108.85	0.00		
18400.00 18500.00	89.97 89.97	359.75 359.75	9789.17 9789.22	9185.76 9285.76	-656.37 -656.81	9208.69 9308.53	0.00 0.00		
18600.00	89.97	359.75	9789.22	9385.75	-657.25	9408.37	0.00		
18700.00	89.97	359.75	9789.32	9485.75	-657.68	9508.21	0.00		
18800.00	89.97	359.75	9789.37	9585.75	-658.12	9608.05	0.00		
18900.00	89.97	359.75	9789.42	9685.75	-658.56	9707.89	0.00		
19000.00	89.97	359.75	9789.47	9785.75	-658.99	9807.73	0.00		
19100.00	89.97	359.75	9789.52	9885.75	-659.43	9907.57	0.00		
19200.00	89.97	359.75	9789.57	9985.75	-659.87	10007.41	0.00		
19300.00	89.97	359.75	9789.62	10085.75	-660.31	10107.25	0.00		
19400.00	89.97 89.97	359.75 359.75	9789.68	10185.75	-660.74 -661.18	10207.08	0.00		
19500.00 19600.00	89.97 89.97	359.75 359.75	9789.73 9789.78	10285.75 10385.74	-661.18 -661.62	10306.92 10406.76	0.00 0.00		
15000.00	05.51	555.15	5.05.70	10303.74	001.02	10-100.70	0.00		

20000.00

20066.18

89.97

89.97



Well: COTTON DRAW 25-36 FED STATE COM 126H

9789.98

9790.00

10785.74

10851.92

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

359.75

359.75

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

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

MD INC ΑZI TVD NS EW ٧S DLS Comment (ft) (ft) (ft) (ft) (ft) (°/100ft) (°) (°) 19700.00 89.97 359.75 9789.83 10485.74 -662.05 10506.60 0.00 10606.44 19800.00 10585.74 89.97 359.75 9789.88 -662.49 0.00 19900.00 89.97 359.75 9789.93 10685.74 -662.93 10706.28 0.00 19986.18 89.97 359.75 9789.97 10771.92 -663.30 10792.32 0.00 exit

-663.36

-663.60

10806.12

10872.19

0.00

0.00 BHL



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

Sundry Print Report of 58

Well Name: COTTON DRAW UNIT Well Location: T25S / R31E / SEC 1 /

LOT 2 / 32.165708 / -103.731147

County or Parish/State: EDDY /

NM

Well Number: 638H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0503

Unit or CA Name: COTTON DRAW

UNIT

Unit or CA Number:

NMNM70928X

US Well Number: 3001554979

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2816664

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/05/2024

Date proposed operation will begin: 10/11/2024

Type of Action: APD Change

Time Sundry Submitted: 10:48

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change to a slim hole casing design, BHL, name, TVD, pool code and spacing on the subject well. Devon also requests a break test and offline cementing variance. New leases have been added since approved APD and notification has been given. Please see attached revised C102, Drill plan, directional plan, spec sheets, break test and offline cementing variance. Permitted BHL: SESW, 20 FSL, 2310 FWL, 12-25S-31E Proposed BHL: NENW, 20 FNL, 2150 FWL, 25-24S-31E Permitted Well name: COTTON DRAW UNIT 638H Proposed Well name: COTTON DRAW 25-36 FED STATE COM 126H Permitted TVD/MD: 12329/22472 - Purple Sage/Wolfcamp Proposed TVD/MD: 9790/20066 - Paduca/Bone Spring



NOI Attachments

Procedure Description

WA018390663_COTTON_DRAW_25_36_FED_STATE_COM_126H_WL_R1_SIGNED_20241105104737.pdf

break test variance BOP 1 15 24 20241105104734.pdf

Offline_Cementing___Variance_Request_20241105104736.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20241105104732.pdf

COTTON_DRAW_25_36_FED_STATE_COM_126H_slim_hole_20241105104730.pdf

5.5_20lb_P110HP_TALON_RD_20241105104731.pdf

Well Location: T25S / R31E / SEC 1 /

LOT 2 / 32.165708 / -103.731147

County or Parish/State: EDDY 2

Zip:

Well Number: 638H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0503

Unit or CA Name: COTTON DRAW

Unit or CA Number:

US Well Number: 3001554979

UNIT

NMNM70928X

Operator: DEVON ENERGY

PRODUCTION COMPANY LP

COTTON DRAW 25 36 FED STATE COM 126H Directional Plan 10 02 24 20241105104732.pdf

Operator

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

Operator Electronic Signature: CHELSEY GREEN Signed on: NOV 11, 2024 04:40 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK

Phone: (405) 228-8595

Email address: CHELSEY.GREEN@DVN.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP
LOCATION:	Section 1, T.25 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.: Cotton Draw 25-36 Fed State Com 126H
ATS/API ID: 30-015-54979
APD ID: 10400081478
Sundry ID: 2816664

COA

H2S	Yes		
Potash	Secretary 🔻	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	□ Critical		
Variance	■ None	Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🔽	
Other	□4 String □5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☑ COM	Unit
Special Requirements	☐ Batch Sundry	Waste Prevention None	
Special Requirements Variance	■ Break Testing	✓ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 725 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6790'.

b. Second stage:

• Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 383 sxs Class C)

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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

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

- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing and may be lower than USGS Marker Bed No. 126. Operator must run a CBL from TD of the production casing to surface to verify top of cement. Submit results to the BLM.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

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

2.

Option 1:

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

Option 2:

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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 Eddy County: 575-361-2822.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☑ Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- 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) 11/14/2024

Form 3160-5

UNITED STATES

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

(June 2019)	DEP.	ARTMENT OF THE I	INTERIOR		Expires: October 31, 2021				
		EAU OF LAND MAN		5. Lease Serial No.	IMNM0503				
	not use this f	OTICES AND REPO orm for proposals a Jse Form 3160-3 (A	6. If Indian, Allottee or Tribe	6. If Indian, Allottee or Tribe Name					
	SUBMIT IN T	TRIPLICATE - Other instr	7. If Unit of CA/Agreement, 1 COTTON DRAW UNIT/NMNM7092	7. If Unit of CA/Agreement, Name and/or No.					
1. Type of Well Oil W	/ell Gas W	Vell Other			8. Well Name and No. COTTON DRAW UNIT/638H				
2. Name of Operator	DEVON ENERG	SY PRODUCTION COMP	ANY LP		9. API Well No. 3001554979	9			
	EST SHERIDAN OK 73102	AVE, OKLAHOMA	3b. Phone No. (405) 235-361	(include area code) 1	10. Field and Pool or Explora PURPLE SAGE/Wolfcamp (Gas)	tory Area			
4. Location of Well (ASEC 1/T25S/R31		.,M., or Survey Description,)		11. Country or Parish, State EDDY/NM				
	12. CHE	CK THE APPROPRIATE B	OX(ES) TO INI	DICATE NATURE	OF NOTICE, REPORT OR OT	HER DATA			
TYPE OF SUI	BMISSION			TYP	E OF ACTION				
✓ Notice of Inter	nt	Acidize Alter Casing	Deep Hydra	en aulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity			
Subsequent Re	eport	Casing Repair Change Plans		Construction and Abandon	Recomplete Temporarily Abandon	Other			
Final Abandor	nment Notice	Convert to Injection	= -		Water Disposal				
spacing on the and notification Please see at Permitted BHI Proposed BHI Permitted We Proposed We Permitted TVI	y Production Co., e subject well. De on has been giver ttached revised C L: SESW, 20 FSL L: NENW, 20 FNI ell name: COTTOI ell name: COTTOI D/MD: 12329/224	evon also requests a brea า.	ak test and offlir I plan, spec she E E ATE COM 126H	ne cementing vari	ole casing design, BHL, name ance. New leases have been and offline cementing variance	added since approved APD			
14. I hereby certify th	2 2	true and correct. Name (Pr	inted/Typed)		egulatory Compliance Professional				
- CHLESET GIVEEN	1 / FII. (403) 220-	-0090		Title					
Signature (Elec	etronic Submissio	n)	Date	11/11/2	024				
		THE SPACE	FOR FEDE	ERAL OR STA	ATE OFICE USE				
Approved by				Title		Date			
certify that the applica	ant holds legal or e	ned. Approval of this notice quitable title to those rights duct operations thereon.			RLSBAD				

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: LOT 2 / 331 FNL / 2534 FEL / TWSP: 258 / RANGE: 31E / SECTION: 1 / LAT: 32.165708 / LONG: -103.731147 (TVD: 8346 feet, MD: 8412 feet) PPP: LOT 3 / 100 FNL / 2310 FWL / TWSP: 258 / RANGE: 31E / SECTION: 1 / LAT: 32.16635 / LONG: -103.732621 (TVD: 11650 feet, MD: 11695 feet) BHL: SESW / 20 FSL / 2310 FWL / TWSP: 258 / RANGE: 31E / SECTION: 12 / LAT: 32.137633 / LONG: -103.732644 (TVD: 12329 feet, MD: 22472 feet)

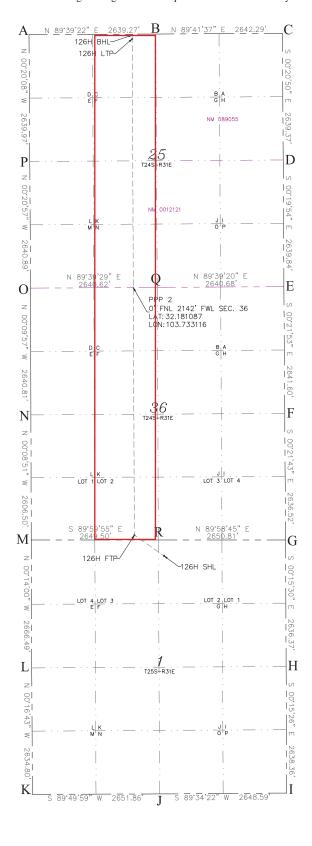


Energy, Minerals & Natural								Re	vised July, 2024	
	lectronically Permitting		OIL	CON	NSERVAI	rion divisi	ON	Submittal		l
								Type:	☐ Amended Repo	rt
						☐ As Drilled				
				W	ELL LOCAT	ION INFORMATIO	N			
API N	umber		Pool Cod	е		Pool Name				
	15-54979 rty Code		966 Property			PADUCA;	BONE SPI	RING	Well Number	
Tropes	ity code		Troperty		TTON DRAW	25-36 FED STATE	COM		126H	
OGRID			Operator						Ground Level	Elevation
	6137			DEVO	N ENERGY P	PRODUCTION COMPA	ANY, L.P.		3470.1	
Surfac	e Owner:	□State □	Fee □Trib	al Fe	deral	Mineral Owner:	□State	□Fee □	Γribal ⊠Federal	
					Com	face Location				
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County
O.B.	1	25-S	31-E	2	331' N	2534' E	32.165		103.731147	EDDY
	•	2 0 0	01 L	~			0.100			пррт
UL	Section	Township	Danas	Lot	Ft. from N	m Hole Location /S Ft. from E/W	Latitude		Langituda	Country
C	25	Township 24-S	Range 31-E	Lot	20' N	2150' W	32.195		Longitude 103.733096	County
	ر کی	24-5	21-F		20 N	2150 W	32.195	548	103.733096	EDDY
D . 12 4	. 4		22	D - 61 1	W. II. ADI O	olomoje v Granica Hait	L (37 /31)	G 1; 1	-ti G. 1.	
Dedicat	ed Acres	milli or Dei	ining well	Delining	well API Over	rlapping Spacing Uni	t (Y/N)	Consolia	ation Code	
319.3										
Order	Numbers				Well	l setbacks are under	Common	0wnersh	ip: □Yes □No	
					Kick Of	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N	` ,	Latitude		Longitude	County
	2.	_				´ ´				
	36	24S	31E	2	55 S	2150 W	32.1667		103.7332	EDDY
UL	Section	Township	Range	Lot	Ft. from N	ake Point (FTP) /S Ft. from E/W	Latitude		Longitude	County
OL OL	36	24-S	31-E	2	100' S	2150' W	32.166		103.733136	EDDY
	00	~ .	01 1	2			0.0100	000	1001100100	LDD I
	a ı:	m 1.	ъ	7 1		ake Point (LTP)	T 111 1		T '1 1	G 1
C	Section 25	Township 24-S	Range 31-E	Lot	Ft. from N,	/S Ft. from E/W 2150' W	Latitude 32.195		Longitude 103.733096	County EDDY
	20	24-5	21-F		100 N	2130 W	32.193	320	103.733090	EDDI
					Spacing	Unit Type XHorizon	tal Verti	eal G	Fround Floor Ele	vation:
1	OR CERTI		atainad hamain i	a tuu a and a	omplete to the best	SURVEYOR CERTIFIC	ATIONS			
					onal well, that this	I hereby certify that the we				
		ns a working inte bottom hole loca			terest in the land	of actual surveys made by correct to the best of my be		apervision, a		_
location p	oursuant to a c	ontract with an o	owner of a wor	king interest	t or unleased				CRT R. C	DEHOL
mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.						N MEX	15			
If this well is a horizontal well, I further certify that this organization has received the						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(% \ " \			
		lessee or owner							(-23261	
					part of the well's			\	PR DOCA	1 2 1
completed interval will be located or obtained a compulsory pooling order from the division.								100	1/2/	
Cimp to the Company of the Company o					Signature and Saal	of Duofe	seional S	Juryayaw (a	~ CUR"	
Signature Date					Signature and Seal	or trotes	saronai S	MAL	/	
(h	usey)	Dren	<u>ب</u> 1	0/01/2024	4					
Printe		*				Certificate Number	Date of	Survey		
	lsey Greer	1				23261	07/20	94		
Email Address chelsey.green@dvn.com					مىد01 ا	01/20	~ 4			

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



A=N:435400.07 E:724859.41
B=N:435415.91 E:727498.63
C=N:435430.04 E:730140.88
D=N:432790.73 E:730156.88
E=N:430150.93 E:730172.17
F=N:427509.39 E:730188.98
G=N:424872.92 E:730205.63
H=N:422236.58 E:730227.51
I=N:419598.25 E:730229.36
J=N:419570.77 E:724929.00
L=N:422205.54 E:724916.18
M=N:424872.01 E:724905.32
N=N:427478.51 E:724898.61
O=N:430119.30 E:724890.97
P=N:432760.15 E:724874.87
Q=N:430135.06 E:727551.54
R=N:424871.96 E:727554.82

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

- 1. Well Control Response:
- 1. Primary barrier remains fluid
- 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



Offline Cementing

Variance Request

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

U. S. Steel Tubular Products 7.625" 29.70lb/ft (0.375" Wall

5/15/2024 6:31:14 PM

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

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

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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

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

1. Geologic Formations

TVD of target	9790	Pilot hole depth	N/A
MD at TD:	20066	Deepest expected fresh water	

Basin

Dasin	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	660		
Salt	1105		
Base of Salt	4310		
Lamar	4385		
Delaware	4560		
Cherry Canyon	5440		
Brushy Canyon	6790		
1st Bone Spring Lime	8360		
Bone Spring 1st	9420		
			_
,			
_			_

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	685	0	685
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	9173	0	9173
6 3/4	5 1/2	20	P110HP	TALON RD	0	20066	0	9790

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

3. Cementing Program (Primary Design)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	367	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	383	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	218	6851	13.2	1.44	Tail: Class H / C + additives
Production	62	7273	9	3.27	Lead: Class H /C + additives
Froduction	689	9273	13.2	1.44	Tail: Class H / C + additives

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
	Annular		Annular		50% of rated working pressure	
Int 1	13-5/8"	5M		l Ram	X	
mt i	13-3/6	5171	Pipe	Ram		5M
			Doub	le Ram	X	5171
			Other*			
			Annular (5M)		X	50% of rated working pressure
Production	13-5/8"	514	Blind Ram		X	
Production		5M	Pipe Ram Double Ram			5M
					X	5M
			Other*			
			Annular (5M)			
			Blind Ram			
		Pipe Ram				
			Double Ram			
			Other*			
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system					

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5345
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

2

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachm	ents
X	Directional Plan
	Other, describe

2/21/2024 7:48:59 AM

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

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

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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

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

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



9.625" 40# .395" J-55

Dimensions (Nominal)

LTC

BTC

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.
Performance Properties		
6. II	2570	
Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950 3950	psi
BTC	3950 3950	psi
ыс	3930	рзі
Yield Strength, Pipe Body	630	1000 lbs.
ricia sacingali, i ipe body	030	2000 103.
laint Strangth		
Joint Strength	452	1000 lba
STC	452	1000 lbs.

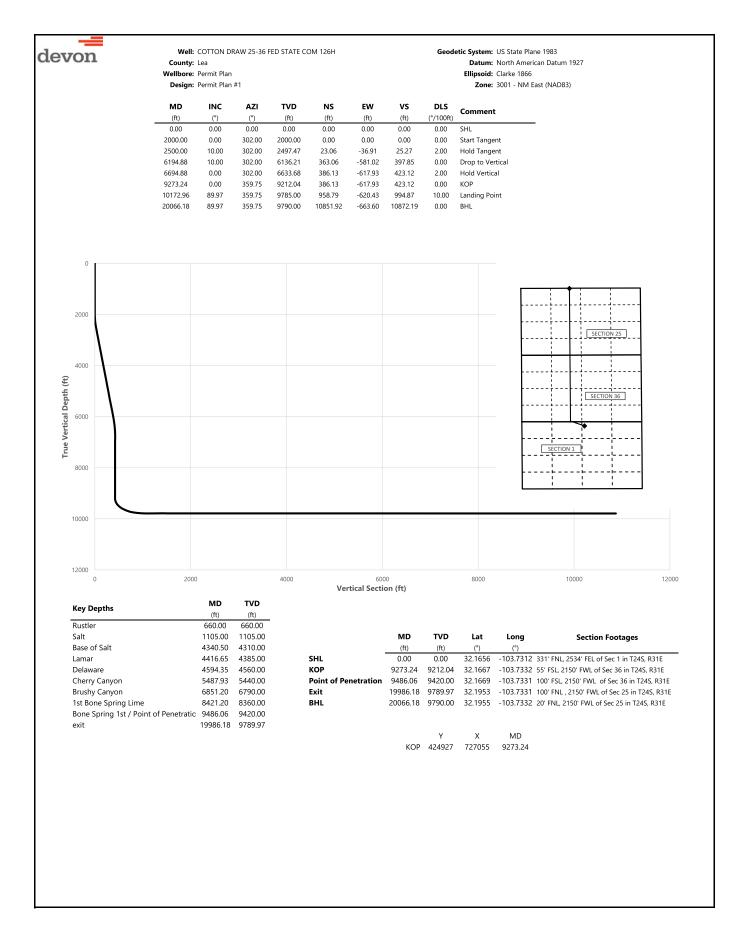
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

1000 lbs.

1000 lbs.

520

714





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	#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	302.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	302.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	302.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	302.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	302.00	500.00	0.00	0.00	0.00	0.00	
600.00 660.00	0.00	302.00 302.00	600.00 660.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Puctler
700.00	0.00	302.00	700.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	302.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	302.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	302.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	302.00	1100.00	0.00	0.00	0.00	0.00	
1105.00	0.00	302.00	1105.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	302.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	302.00	1300.00	0.00	0.00	0.00	0.00	
1400.00 1500.00	0.00	302.00	1400.00	0.00	0.00	0.00	0.00	
1600.00	0.00	302.00 302.00	1500.00 1600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
1700.00	0.00	302.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	302.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	302.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	302.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	302.00	2099.98	0.92	-1.48	1.01	2.00	
2200.00	4.00	302.00	2199.84	3.70	-5.92	4.05	2.00	
2300.00	6.00	302.00	2299.45	8.32	-13.31	9.11	2.00	
2400.00	8.00	302.00	2398.70	14.77	-23.64 26.01	16.19	2.00	Hold Tangent
2500.00 2600.00	10.00 10.00	302.00 302.00	2497.47 2595.95	23.06 32.27	-36.91 -51.64	25.27 35.36	2.00 0.00	Hold Tangent
2700.00	10.00	302.00	2694.43	32.27 41.47	-66.36	45.44	0.00	
2800.00	10.00	302.00	2792.91	50.67	-81.09	55.52	0.00	
2900.00	10.00	302.00	2891.39	59.87	-95.81	65.61	0.00	
3000.00	10.00	302.00	2989.87	69.07	-110.54	75.69	0.00	
3100.00	10.00	302.00	3088.35	78.27	-125.27	85.77	0.00	
3200.00	10.00	302.00	3186.83	87.48	-139.99	95.86	0.00	
3300.00	10.00	302.00	3285.31	96.68	-154.72	105.94	0.00	
3400.00	10.00	302.00	3383.79	105.88	-169.45	116.03	0.00	
3500.00 3600.00	10.00 10.00	302.00 302.00	3482.27 3580.75	115.08 124.28	-184.17 -198.90	126.11 136.19	0.00 0.00	
3700.00	10.00	302.00	3679.23	133.49	-198.90 -213.62	146.28	0.00	
3800.00	10.00	302.00	3777.72	142.69	-213.02	156.36	0.00	
3900.00	10.00	302.00	3876.20	151.89	-243.08	166.44	0.00	
4000.00	10.00	302.00	3974.68	161.09	-257.80	176.53	0.00	
4100.00	10.00	302.00	4073.16	170.29	-272.53	186.61	0.00	
4200.00	10.00	302.00	4171.64	179.50	-287.26	196.69	0.00	
4300.00	10.00	302.00	4270.12	188.70	-301.98	206.78	0.00	D (6.1)
4340.50	10.00	302.00	4310.00	192.42	-307.94	210.86	0.00	Base of Salt
4400.00	10.00	302.00	4368.60	197.90	-316.71 210.16	216.86	0.00	Lamar
4416.65 4500.00	10.00 10.00	302.00 302.00	4385.00 4467.08	199.43 207.10	-319.16 -331.43	218.54 226.94	0.00 0.00	Lamar
4594.35	10.00	302.00	4560.00	215.78	-345.33	236.46	0.00	Delaware
4600.00	10.00	302.00	4565.56	216.30	-346.16	237.03	0.00	•
4700.00	10.00	302.00	4664.04	225.50	-360.89	247.11	0.00	
4800.00	10.00	302.00	4762.52	234.71	-375.61	257.20	0.00	
4900.00	10.00	302.00	4861.00	243.91	-390.34	267.28	0.00	
5000.00	10.00	302.00	4959.48	253.11	-405.06	277.36	0.00	
5100.00	10.00	302.00	5057.97	262.31	-419.79	287.45	0.00	
5200.00	10.00	302.00	5156.45	271.51	-434.52	297.53	0.00	
5300.00 5400.00	10.00 10.00	302.00 302.00	5254.93 5353.41	280.72 289.92	-449.24 -463.97	307.61 317.70	0.00	
5487.93	10.00	302.00	5440.00	209.92	-465.97 -476.92	326.56	0.00	Cherry Canyon
5500.00	10.00	302.00	5451.89	299.12	-478.70	327.78	0.00	and y amyon
5600.00	10.00	302.00	5550.37	308.32	-493.42	337.86	0.00	
5700.00	10.00	302.00	5648.85	317.52	-508.15	347.95	0.00	
5800.00	10.00	302.00	5747.33	326.73	-522.87	358.03	0.00	
5900.00	10.00	302.00	5845.81	335.93	-537.60	368.11	0.00	
6000.00	10.00	302.00	5944.29	345.13	-552.33	378.20	0.00	
6100.00	10.00	302.00	6042.77	354.33	-567.05	388.28	0.00	Duan to Vantical
6194.88 6200.00	10.00 9.90	302.00 302.00	6136.21 6141.25	363.06 363.53	-581.02 -581.77	397.85 398.37	0.00 2.00	Drop to Vertical
0200.00	5.50	302.00	0141.23	202.23	-501.77	330.31	۷.00	



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	1#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6300.00	7.90	302.00	6240.05	371.73	-594.89	407.35	2.00	
6400.00	5.90	302.00	6339.32	378.09	-605.07	414.32	2.00	
6500.00	3.90	302.00	6438.95	382.62	-612.31	419.28	2.00	
6600.00	1.90	302.00	6538.81	385.30	-616.60	422.21	2.00	
6694.88	0.00	302.00	6633.68	386.13	-617.93	423.12	2.00	Hold Vertical
6700.00	0.00	359.75	6638.80	386.13	-617.93	423.13	0.00	
6800.00	0.00	359.75	6738.80	386.13	-617.93	423.13	0.00	
6851.20	0.00	359.75	6790.00	386.13	-617.93	423.13	0.00	Brushy Canyon
6900.00	0.00	359.75	6838.80	386.13	-617.93	423.13	0.00	
7000.00	0.00	359.75	6938.80	386.13	-617.93	423.13	0.00	
7100.00	0.00	359.75	7038.80	386.13	-617.93	423.13	0.00	
7200.00	0.00	359.75	7138.80	386.13	-617.93	423.13	0.00	
7300.00	0.00	359.75	7238.80	386.13	-617.93	423.13	0.00	
7400.00	0.00	359.75	7338.80	386.13	-617.93	423.13	0.00	
7500.00	0.00	359.75	7438.80	386.13	-617.93	423.13	0.00	
7600.00	0.00	359.75	7538.80	386.13	-617.93	423.13	0.00	
7700.00	0.00	359.75	7638.80	386.13	-617.93	423.13	0.00	
7800.00	0.00	359.75	7738.80	386.13	-617.93	423.13	0.00	
7900.00	0.00	359.75	7838.80	386.13	-617.93	423.13	0.00	
8000.00	0.00	359.75	7938.80	386.13	-617.93	423.13	0.00	
8100.00	0.00	359.75	8038.80	386.13	-617.93	423.13	0.00	
8200.00	0.00	359.75	8138.80	386.13	-617.93	423.13 423.13	0.00	
8300.00	0.00	359.75	8238.80	386.13	-617.93		0.00	
8400.00 8421.20	0.00	359.75 359.75	8338.80 8360.00	386.13 386.13	-617.93 -617.93	423.13 423.13	0.00	1st Bone Spring Lime
8500.00	0.00	359.75	8438.80	386.13	-617.93 -617.93	423.13	0.00	ist boile spring time
8600.00	0.00	359.75	8538.80	386.13	-617.93	423.13	0.00	
8700.00	0.00	359.75	8638.80	386.13	-617.93	423.13	0.00	
8800.00	0.00	359.75	8738.80	386.13	-617.93	423.13	0.00	
8900.00	0.00	359.75	8838.80	386.13	-617.93	423.13	0.00	
9000.00	0.00	359.75	8938.80	386.13	-617.93	423.13	0.00	
9100.00	0.00	359.75	9038.80	386.13	-617.93	423.13	0.00	
9200.00	0.00	359.75	9138.80	386.13	-617.93	423.13	0.00	
9273.24	0.00	359.75	9212.04	386.13	-617.93	423.12	0.00	KOP
9300.00	2.68	359.75	9238.79	386.75	-617.94	423.75	10.00	
9400.00	12.68	359.75	9337.77	400.09	-617.99	437.07	10.00	
9486.06	21.28	359.75	9420.00	425.20	-618.10	462.13	10.00	Bone Spring 1st / Point of Penetration
9500.00	22.68	359.75	9432.92	430.42	-618.13	467.34	10.00	
9600.00	32.68	359.75	9521.37	476.80	-618.33	513.65	10.00	
9700.00	42.68	359.75	9600.42	537.84	-618.60	574.60	10.00	
9800.00	52.68	359.75	9667.67	611.68	-618.92	648.32	10.00	
9900.00	62.68	359.75	9721.07	696.08	-619.29	732.58	10.00	
10000.00	72.68	359.75	9759.01	788.46	-619.69	824.82	10.00	
10100.00	82.68	359.75	9780.33	886.04	-620.12	922.23	10.00	
10172.96	89.97	359.75	9785.00	958.79	-620.43	994.87	10.00	Landing Point
10200.00	89.97	359.75	9785.01	985.84	-620.55	1021.87	0.00	
10300.00	89.97	359.75	9785.06	1085.83	-620.99	1121.71	0.00	
10400.00	89.97	359.75	9785.12	1185.83	-621.42	1221.55	0.00	
10500.00	89.97	359.75	9785.17	1285.83	-621.86	1321.39	0.00	
10600.00	89.97	359.75	9785.22	1385.83	-622.30	1421.23	0.00	
10700.00	89.97	359.75	9785.27	1485.83	-622.74	1521.07	0.00	
10800.00	89.97	359.75	9785.32	1585.83	-623.17	1620.91	0.00	
10900.00	89.97	359.75	9785.37	1685.83	-623.61	1720.75	0.00	
11000.00	89.97	359.75	9785.42	1785.83	-624.05	1820.59	0.00	
11100.00	89.97	359.75	9785.47	1885.83	-624.48	1920.43	0.00	
11200.00	89.97	359.75	9785.52	1985.83	-624.92	2020.27	0.00	
11300.00	89.97	359.75	9785.57	2085.82	-625.36	2120.11	0.00	
11400.00	89.97	359.75	9785.62	2185.82	-625.79	2219.95	0.00	
11500.00	89.97	359.75	9785.67	2285.82	-626.23	2319.78	0.00	
11600.00	89.97	359.75	9785.72	2385.82	-626.67	2419.62	0.00	
11700.00	89.97 89.97	359.75 359.75	9785.77	2485.82	-627.10 -627.54	2519.46	0.00	
11800.00 11900.00	89.97 89.97	359.75 359.75	9785.82 9785.88	2585.82 2685.82	-627.54 -627.98	2619.30 2719.14	0.00	
12000.00	89.97 89.97	359.75 359.75	9785.88	2785.82	-627.98 -628.41	2818.98	0.00	
12100.00	89.97	359.75	9785.98	2885.82	-628.85	2918.82	0.00	
12100.00	89.97	359.75	9786.03	2985.82	-629.29	3018.66	0.00	
12300.00	89.97	359.75	9786.08	3085.82	-629.72	3118.50	0.00	
12400.00	89.97	359.75	9786.13	3185.81	-630.16	3218.34	0.00	
12500.00	89.97	359.75	9786.18	3285.81	-630.60	3318.18	0.00	
12600.00	89.97	359.75	9786.23	3385.81	-631.04	3418.02	0.00	



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

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

Mode M		Design.	remitriai						Zone. 3001 - Milit Last (MAD03)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
120000 8937 3937 39638 39683 39683 48381 43147 39178 000 120000 8937 3957 39638 36883 48883 48832 37737 0.00 120000 8937 39575 978638 38683 48832 37737 0.00 120000 8937 39575 978648 38663 46323 37737 0.00 120000 8937 39575 978648 38663 46323 37737 0.00 120000 8937 39575 978648 38663 46323 37737 0.00 120000 8937 39575 978648 38663 46323 37737 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 978648 49830 43854 0.00 120000 8937 39575 97864 49830 43854 0.00 120000 8937 39575 97864 49830 43854 0.00 120000 8937 39575 97864 49830 43854 0.00 120000 8937 39575 97864 49830 43854 0.00 120000 8937 39575 97864 49830 43854 0.00 120000 8937 39575 97864 49830 43850 43854 0.00 120000 8937 39575 97864 49830 43850 43854 0.00 120000 8937 39575 97864 49830 43850 43854 0.00 120000 8937 39575 97864 49830 43850 43850 0.00 120000 8937 39575 97864 49830 43850 43850 0.00 120000 8937 39575 97864 49830 43850 43850 0.00 120000 8937 39575 97864 49830 43850 43850 0.00 120000 8937 39575 97864 49830 43850 43850 0.00 120000 8937 39575 978740 48830 43850 43850 0.00 120000 8937 39575 978740 48830 43850 43850 0.00 120000 8937 39575 978740 48830 43850 43850 0.00 120000 8937 39575 978740 48830 43850 43850 0.00 120000 8937 39575 978740 48850 43850 0.00 120000 8937 39575 978740 48850 43850 0.00 120000 8937 39575 978740 48850 43850 0.00 120000 8937 39575 978740 48850 43850 0.00 120000 8937 39575 978740 48850 0.00 120000 8937 39575 978740 48850 0.00 120000 8937 39575 978750 48850 0.00 120000 8937 39575 978750 48850 0.00 120000 8937 39575 978750 48850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850 88850 0.00 120000 8937 39575 978850									Comment
1250000 8937 8937 98383 89581 6319 3917 000 120000 8937 59375 98648 38581 63275 39177 000 120000 8937 59375 978653 389381 63275 39177 000 120000 8937 59375 978654 489381 6316 69176 000 120000 8937 59375 978664 48580 63136 69176 000 120000 8937 59375 978664 48580 63434 4100 000 130000 8937 59375 97869 48580 63534 4110 000 130000 8937 59375 97869 48580 63520 4110 000 140000 8937 59375 97869 48580 63520 69520 600 000 140000 8937 59375 97875 98880 63520 69520 600 600									
1290000 89.7 39.75 39.64 39.83 198.24 39.25 89.74 39.84 39.83 49.82 39.82 39.22 39.72 10.00 130000 89.7 39.75 978.64 398.81 13.80 00 00 130000 89.7 39.75 978.64 4185.80 13.60 01 00 130000 89.7 193.75 978.64 4185.80 13.60 40 00 130000 89.7 193.75 978.64 485.80 13.64 416.60 00 130000 89.7 193.75 978.64 485.80 15.64 00 00 140000 89.7 393.75 978.64 488.80 15.57 40 00 140000 89.7 393.75 978.64 488.80 63.50 915.74 40 00 140000 89.7 393.75 978.74 585.79 485.70 00 00 140000 89.7						-631.91	3617.69	0.00	
190000 897 3976 3976 3986 3882 3922 39775 0 132000 897 39375 39863 39881 4382 39767 0 0 134000 897 39375 37866 40881 4387 31677 0 0 136000 897 39375 37867 48880 45840 45640 0 0 136000 897 39375 37867 48880 65840 45640 0 0 138000 8937 39375 37864 48880 -8540 45650 0 0 138000 8937 39375 37864 48880 -8540 45500 0 0 148000 8937 39375 37876 48880 -8340 0 0 0 148000 8937 39375 37871 58879 94160 0 0 0 0 0 0 0 0 <									
110000 89.7 39.57 878.64 38.81 43.22 93.71 0 130000 89.7 350.75 878.58 498.81 43.66 411.63 0 130000 89.7 350.75 978.69 485.80 43.50 41.63 0 130000 89.7 350.75 978.69 485.80 485.40 43.50 0 0 130000 89.7 350.75 978.69 485.80 485.80 485.60 485.00 486.00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
120000 887 3587 3786.3 388.8 438.6 431.00 10 1340000 8897 3587.5 978.6 408.8 438.9 438.9 416.7 0 136000 8897 3587.5 978.6 488.80 438.80									
1340000 887 395 5 978.6 408.2 418.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 418.5 408.5 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>									
1340000 897 3975 3786 4180 6345 4257 4367 0 1360000 897 39375 378674 48850 6354 441641 0 1380000 897 39375 37864 48850 6354 45160 0 1380000 897 39375 37864 48850 6354 45160 0 1400000 897 39375 37864 48850 6357 49150 0 0 1400000 897 39375 37876 49850 6357 91510 0 0 1400000 897 39375 37877 59850 36350 5014 0 0 1400000 897 39375 37877 59857 37877 59859 36375 0 0 1400000 897 39375 37872 59859 34160 0 0 0 1400000 897 39375 37872 59859 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1350000 897 3975 97860 42850 63497 87650 143650 63467 87650 63504 46161 000 1370000 897 3975 97867 48550 63540 46161 000 139000 8977 3975 97868 46550 63540 46161 000 139000 8977 3975 97868 46550 63671 477593 000 1410000 8977 3975 97869 46550 63671 477593 000 1410000 8977 3975 97869 46550 63675 491500 000 1430000 8977 3975 97869 46550 63675 491500 000 1430000 8977 3975 97870 40550 00550 63460 511528 000 1450000 8977 3975 97871 518577 63930 511528 000 1450000 8977 39775 97871 518577 63930 511528 000 1450000 8977 39775 97874 558579 44165 61448 000 1450000 8977 3975 97874 565579 44152 581466 000 150000 8977 39775 97875 58579 44165 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 97875 58579 44152 581446 000 150000 8977 39775 978816 58578 46450 61527 000 150000 8977 39775 978816 58578 46450 61527 000 150000 8977 39775 978816 58578 46590 600 150000 8977 39775 978816 78578 46590 600 150000 8977 39775 978816 78577 46495 771100 000 150000 8977 39775 978816 785877 46495 78514 000 150000 8977 39775 978816 785877 46495 785144 000 150000 8977 39775 978816 785877 46495 785144 000 150000 8977 39775 978817 978817 85500 97870 000 150000 8977 39775 978817 978817 85500 97870 000 150000 8977 39775 978817 978817 85500 97870 000 1500000 8977 39775 978817 978817 85500 97870 000 1500000 8977 39775 978817 85500 97870 000 1500000 8977 39775 978817 978817 85500 9787									
1360000 89.73 39.75 79.68.4 48.58.0 6.35.40 416.41 0.00 1380000 89.73 39.75 79.68.4 485.80 -63.28 461.60.9 0.00 1400000 89.73 39.75 79.68.4 485.80 -63.71 415.77 0.00 1400000 89.73 39.75 79.68.4 485.80 -63.71 415.77 0.00 1420000 89.73 39.75 79.78.4 485.80 -63.80 501.54 0.00 1440000 89.73 39.75 79.77.4 585.80 -63.80 515.12 0.00 1460000 89.73 39.75 79.77.4 585.77 -63.90 215.12 0.00 1460000 89.73 39.73 79.77.4 585.77 -64.01 514.80 0.00 180000 89.73 39.73 79.77.4 585.77 -64.15 54.14 0.00 180000 89.73 39.75 79.77.0 585.77 -64.15 <									
13700.00 897 3975 9786.9 483.8 635.8 457.2 475.2 1 000 13900.00 897 3975 9786.8 483.8 636.2 476.2 476.0 000 13900.00 897 3975 9786.9 483.8 636.2 476.2 476.0 1 000 14100.00 897 3975 9786.9 483.8 6375.9 4915.0 000 14100.00 897 3975 97870 483.8 6375.9 4915.0 000 14300.00 897 3975 97870 483.8 6 383.0 4915.0 000 14300.00 897 3975 97870 5083.0 633.4 5115.2 000 14500.00 897 3975 97871 135.7 633.0 531.0 000 14500.00 897 3975 97871 5185.7 633.0 531.4 000 14500.00 897 3975 97871 5185.7 633.0 531.4 000 14700.00 897 3975 97872 5385.7 640.2 1 51.4 000 14700.00 897 3975 97874 5385.7 640.2 1 51.4 000 14900.00 897 3975 97875 585.7 640.2 1 51.5 000 14900.00 897 3975 97875 585.7 641.0 574.2 1 51.5 000 14900.00 897 3975 97875 585.7 641.0 574.2 1 51.5 000 15100.00 897 3975 97875 585.7 641.0 574.2 1 51.5 000 15100.00 897 3975 97875 585.7 641.0 574.2 1 51.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 642.3 61.5 000 15100.00 897 3975 97875 585.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97885 585.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97885 785.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97886 855.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97886 855.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97886 855.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97886 855.7 645.3 645.3 671.2 1 000 15100.00 897 3975 97886 855.7 645.3 645									
13800.00 89.7 39.75 978.64 85.80 68.80 86.80 86.80 96.80 96.80 14.									
1390000 897 3975 978.89 485.80 -81.71 471.93 00 1410000 897 3975 978.99 485.80 -81.95 991.60 00 1430000 897 3975 978.99 485.80 -81.90 140.00 1997 39975 978.91 485.80 -81.90 151.28 00 1430000 897 3975 978.71 185.79 -89.30 31.40 00 1450000 897 3975 978.72 585.79 -60.93 514.64 00 1470000 897 3975 978.74 5465.79 -61.05 514.64 00 1490000 897 3975 978.75 585.79 -61.05 514.64 00 150000 897 393.59 978.75 585.79 -61.05 591.40 00 150000 897 392.59 978.75 585.79 -61.95 914.10 00 150000 897 392.59 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
140000 89.7 897.5 897.5 985.9 485.00 485.70 0.00 1420000 89.7 1897.5 876.00 485.00 485.00 10.30 1430000 89.7 1897.5 876.70 985.80 463.00 19.00 1440000 89.7 1897.5 876.71 588.70 463.00 215.12 0.00 1460000 89.7 1897.5 876.72 588.70 463.91 0.00 1480000 89.7 1897.5 876.74 588.70 -6.021 51.40 0.00 150000 89.7 1897.5 876.74 588.70 -6.01.25 51.44 0.00 150000 89.7 1897.5 878.7 661.55 6.61.28 10.0 10.0 150000 89.7 1897.5 878.7 665.70 663.70 261.32 0.0 150000 89.7 1897.5 878.7 665.70 663.70 261.32 0.0 150000 89.									
14100.00									
142000 89.7 19.75 1976.0 98.85 6.83.60 613.40 0.00 144000 89.7 19.75 1971.7 1971.8 6.83.60 613.40 0.00 146000 89.7 19.75 1971.7 1828.7 6.893.4 31.496 0.00 146000 89.7 19.75 1971.2 585.79 6.912.1 414.40 0.00 148000 89.7 19.75 1971.2 585.79 640.22 514.44 0.00 150000 89.77 1987.5 1976.75 585.79 641.25 5914.00 0.00 150000 89.77 39.75 1976.55 598.79 641.25 5914.00 0.00 150000 89.77 39.75 1976.50 585.79 641.25 5914.00 0.00 150000 89.77 39.75 1976.50 685.79 642.27 613.52 0.00 150000 89.77 39.75 5787.60 685.78 645.37 613.25									
143000 897 8975 89760 89680 63836 621512 000 1450000 897 18975 89711 51827 69391 3975 89712 58273 63890 21512 000 1470000 897 18975 89727 48879 64025 51448 000 1480000 897 18975 89744 588579 64105 51448 000 1800000 897 18975 89745 68879 64105 51448 000 1510000 897 18975 8975 68879 64152 81814 000 150000 897 18975 8975 68879 64123 81136 000 150000 897 38975 89766 68879 64232 62132 000 150000 897 38975 89776 68878 64327 64125 000 150000 897 38975 89780 68878 64537									
14400.00 89.7 358.75 978.714 \$185.79 6.39.34 31.460 0.00 1460.00 89.7 358.75 978.72 \$38.75 978.72 \$38.75 978.72 \$38.75 978.72 \$38.75 978.72 \$38.75 978.73 \$58.75 4-60.21 \$51.46 0.00 1400.00 89.77 358.75 978.74 \$58.75 4-61.08 \$51.43 0.00 1500.00 89.77 358.75 978.75 \$58.79 -641.86 \$91.40 0.00 1500.00 89.97 358.75 978.75 \$98.79 -641.86 \$91.40 0.00 1500.00 89.97 358.75 978.75 \$98.79 -642.83 611.84 0.00 1500.00 89.97 358.75 978.75 \$98.79 -642.83 611.84 0.00 1500.00 89.97 359.75 978.75 \$658.78 -642.71 621.52 0.00 1500.00 89.97 359.75 978.80 648.7									
14500.00 89.7 78.75 978.79 58.75 978.72 58.75 978.72 58.75 978.72 58.75 978.73 58.75 978.73 58.75 978.73 58.75 978.73 58.75 978.73 58.75 978.73 58.75 978.73 58.75 978.73 58.75 -64.152 58.14.64 0.00 1500.00 89.97 359.75 978.74 58.75 -64.152 5814.61 0.00 1500.00 89.97 359.75 978.75 5985.79 -64.23 613.86 0.00 1500.00 89.97 359.75 978.75 5985.79 -64.23 613.86 0.00 1500.00 89.97 359.75 978.75 5985.79 -64.23 613.58 0.00 1500.00 89.97 359.75 978.75 688.78 -64.37 613.59 0.00 1500.00 89.97 359.75 978.05 685.78 -64.53 613.50 0.00 1500.00 89.97									
1460000 89.7 189.75 978.72 589.75 978.72 589.75 978.72 589.75 978.73 589.75 978.73 589.75 978.74 589.75 978.74 589.75 978.74 589.77 -641.08 571.42 000 1500000 89.97 339.75 978.74 589.75 -641.08 571.42 000 1500000 89.97 339.75 978.75 598.79 -641.38 518.40 0.00 1500000 89.97 339.75 978.76 689.79 -642.39 613.35 0.00 1550000 89.97 339.75 978.76 689.76 -642.70 613.35 0.00 1500000 89.97 339.75 978.75 688.78 -644.76 613.33 0.00 1500000 89.97 339.75 978.75 688.78 -645.50 612.27 0.00 1500000 89.97 339.75 978.05 688.78 -645.50 762.27 0.00 1500000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1470000 297 2987 9973 59873 97873 58873 -64065 561448 0.00 1480000 8997 38975 978740 5865.79 -641085 561448 0.00 1500000 8997 38975 978745 5885.79 -64182 81416 0.00 150000 8997 38975 978750 5885.79 -64239 601346 0.00 150000 8997 38975 978750 5885.79 -64239 601346 0.00 150000 8997 38975 978750 688579 -64239 61335 0.00 150000 8997 38975 978750 688578 -64370 613350 0.00 150000 8997 38975 978750 668578 -64454 61330 0.00 150000 8997 38975 978750 668578 -64545 671271 0.00 150000 8997 38975 978810 768878 -64453									
14800.00 89.7 359.75 678.74 5585.79 64.06 571.432 0.00 1500.00 89.97 359.75 6787.45 5785.79 64.10 571.432 0.00 1500.00 89.97 359.75 9787.55 5885.79 641.36 591.40 0.00 1500.00 89.97 359.75 9787.55 5885.79 641.26 601.84 0.00 1500.00 89.97 359.75 9787.65 6885.79 642.27 611.56 0.00 15500.00 89.97 359.75 9787.65 6885.78 644.14 611.39 0.00 15700.00 89.97 359.75 9787.80 6885.78 644.19 60.00 0.00 15000.00 89.97 359.75 9788.06 6885.78 644.59 612.25 0.00 16000.00 89.97 359.75 9788.16 788.26 6485.76 644.59 6171.29 0.00 16500.00 89.97 359.75 9788.16 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
149000									
1500000 89.7 359.75 678.75 586.79 641.92 591.400 0.00 1520000 89.97 359.75 978.75 586.79 641.96 89.00 0.00 1520000 89.97 359.75 978.75 6085.79 -642.39 611.56 0.00 1550000 89.97 359.75 9787.65 685.79 -643.27 621.52 0.00 1550000 89.97 359.75 9787.69 685.78 -644.1 0.00 1570000 89.97 359.75 9787.80 6485.78 644.1 611.287 0.00 159000 89.97 359.75 9788.00 6685.78 -644.36 611.287 0.00 1600000 89.97 359.75 9788.00 6685.78 -644.36 6712.71 0.00 1600000 89.97 359.75 9788.00 6685.78 -642.36 6712.27 0.00 1600000 89.97 359.75 9788.10 7685.78 -642.36 67									
1510000 89.7 389.75 978.75 588.57 642.38 611.364 0.00 1520000 89.97 359.75 978.76 608.579 642.38 611.368 0.00 1540000 89.97 359.75 978.76 608.579 642.28 611.35 0.00 1560000 89.97 359.75 978.76 638.78 -643.74 613.35 0.00 1560000 89.97 359.75 9787.80 688.78 -644.14 6413.19 0.00 1560000 89.97 359.75 9787.80 685.78 -644.10 6613.03 0.00 1500000 89.97 359.75 9788.00 685.78 -645.01 6612.87 0.00 1600000 89.97 359.75 9788.10 6785.78 -645.99 6812.59 0.00 1600000 89.97 359.75 9788.10 7085.78 -646.70 7012.23 0.00 1600000 89.97 359.75 9788.10 7085.78 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
1520000 89.7 359.75 978.75 598.79 -642.39 6013.84 0.00 15400.00 89.97 359.75 978.765 618.579 -643.27 6213.52 0.00 15500.00 89.97 359.75 978.765 618.579 -643.70 6313.35 0.00 15700.00 89.97 359.75 978.780 648.578 -644.50 6513.03 0.00 15800.00 89.97 359.75 978.780 668.578 -645.45 6512.87 0.00 15900.00 89.97 359.75 978.800 688.78 -645.45 6712.71 0.00 16000.00 89.97 359.75 978.800 688.78 -645.85 6712.39 0.00 16000.00 89.97 359.75 978.810 768.78 -647.64 7711.207 0.00 16000.00 89.97 359.75 978.81 768.77 -648.52 7311.75 0.00 16000.00 89.97 359.75 978.81 768.77 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1530000 89.97 359.75 9787.65 608.79 -64.282 6113.68 0.00 15500.00 89.97 359.75 9787.75 6385.78 -643.70 6313.35 0.00 15500.00 89.97 359.75 9787.75 6385.78 -644.14 6413.19 0.00 15800.00 89.97 359.75 9787.80 6385.78 -645.01 6612.87 0.00 15900.00 89.97 359.75 9787.95 6585.78 -645.89 6812.55 0.00 1600.00 89.97 359.75 9788.05 6885.78 -645.89 6812.55 0.00 16200.00 89.97 359.75 9788.05 6885.78 -645.89 6912.55 0.00 16300.00 89.97 359.75 9788.10 7085.78 -646.38 6912.55 0.00 16300.00 89.97 359.75 9788.16 7085.78 -646.20 7012.23 0.00 16500.00 89.97 359.75 9788.16 70									
15400.00 89.97 359.75 978.76 6618.79 643.27 6213.25 0.00 15500.00 89.97 359.75 978.77.5 6385.78 -644.70 6313.35 0.00 15600.00 89.97 359.75 978.78.6 6485.78 -644.50 6513.03 0.00 15900.00 89.97 359.75 978.79.6 6685.78 -645.45 6712.71 0.00 15000.00 89.97 359.75 978.79.6 6685.78 -645.45 6712.71 0.00 16000.00 89.97 359.75 978.80 6885.78 -645.33 6912.39 0.00 16300.00 89.97 359.75 9788.10 7085.78 -647.20 7112.70 0.00 16400.00 89.97 359.75 9788.17 768.77 -648.07 7311.75 0.00 16500.00 89.97 359.75 9788.61 7385.77 -648.51 7311.75 0.00 16000.00 89.97 359.75 9788.61 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
15500.00 89.77 359.75 978.77.5 638.78 648.78 638.78 644.58 6513.03 0.00 15700.00 89.97 359.75 978.785 638.578 644.58 6513.03 0.00 15800.00 89.97 359.75 978.785 658.78 6-64.58 6712.71 0.00 16000.00 89.97 359.75 978.99 669.578 6-64.58 6612.75 0.00 16000.00 89.97 359.75 978.80 688.578 6-64.58 6612.55 0.00 16200.00 89.97 359.75 978.81 708.78 6-64.70 7112.27 0.00 16400.00 89.97 359.75 9788.11 788.77 6-64.70 7111.77 0.00 16500.00 89.97 359.75 9788.11 788.57 -648.97 7411.75 0.00 16900.00 89.97 359.75 9788.41 788.77 -648.91 7411.59 0.00 17000.00 89.97 359.75 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
15600.00 89.97 359.75 978.75 638.78 -644.18 641.39 0.00 15800.00 89.97 359.75 9787.80 648.78 -644.58 6513.03 0.00 15900.00 89.97 359.75 9787.85 6585.78 -645.45 6712.71 0.00 1600.00 89.97 359.75 978.00 689.78 -646.33 6912.39 0.00 1600.00 89.97 359.75 9788.01 698.78 -646.33 6912.39 0.00 16300.00 89.97 359.75 9788.10 7085.78 -646.70 7012.23 0.00 16400.00 89.97 359.75 9788.11 785.77 -640.70 7211.90 0.00 16600.00 89.97 359.75 9788.31 7485.77 -649.81 7311.75 0.00 16900.00 89.97 359.75 9788.31 7485.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.61 7885.77 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
15700.00 89.97 359.75 978.78 658.78 -644.58 651.30 0.00 15900.00 89.97 359.75 978.79 6695.78 -645.01 6612.87 0.00 16000.00 89.97 359.75 978.90 6685.78 -645.89 6612.87 0.00 16000.00 89.97 359.75 978.80 6885.78 -646.38 6612.25 0.00 16000.00 89.97 359.75 978.810 708.57 -647.20 7112.07 0.00 16000.00 89.97 359.75 978.81 7185.78 -647.20 7111.07 0.00 16500.00 89.97 359.75 9788.21 738.57 -648.07 7311.75 0.00 16700.00 89.97 359.75 9788.31 748.57 -648.93 7311.35 0.00 16700.00 89.97 359.75 9788.41 788.57 -648.93 7311.34 0.00 17000.00 89.97 359.75 9788.51 788.57 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
15800.00 89.97 359.75 978.85 658.78 -645.01 6612.87 0.00 15900.00 89.97 359.75 978.90 668.5.88 -645.39 6612.55 0.00 16100.00 89.97 359.75 978.00 688.5.88 -646.33 6612.39 0.00 16300.00 89.97 359.75 978.00 688.78 -646.33 6612.39 0.00 16300.00 89.97 359.75 978.10 708.578 -647.64 7211.19 0.00 16500.00 89.97 359.75 9788.21 7285.77 -648.07 7311.75 0.00 16600.00 89.97 359.75 9788.21 7285.77 -648.07 7311.75 0.00 16900.00 89.97 359.75 9788.14 785.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.46 7785.77 -650.26 7810.94 0.00 17000.00 89.97 359.75 9788.61 885.7									
15900.00 89.97 359.75 978.99 668.57.8 -645.89 6612.55 0.00 16100.00 89.97 359.75 978.00 6885.78 -646.33 6912.39 0.00 16200.00 89.97 359.75 978.05 6985.78 -646.76 7012.23 0.00 16300.00 89.97 359.75 978.16 7185.78 -648.70 7112.23 0.00 16400.00 89.97 359.75 9788.16 7185.78 -648.74 7211.91 0.00 16600.00 89.97 359.75 9788.21 7285.77 -648.51 7311.75 0.00 16700.00 89.97 359.75 9788.31 7485.77 -648.51 7311.26 0.00 16900.00 89.97 359.75 9788.46 7785.77 -649.32 7711.10 0.00 17000.00 89.97 359.75 9788.61 805.77 -651.31 8010.62 0.00 17000.00 89.97 359.75 9788.66 818									
1600000 89.97 359.75 978.00 688.78 -646.39 6912.39 0.00 1620000 89.97 359.75 978.00 688.78 -646.36 912.39 0.00 1620000 89.97 359.75 978.10 7085.78 -647.64 7112.07 0.00 1650000 89.97 359.75 9788.12 7285.77 -648.07 7311.75 0.00 1650000 89.97 359.75 9788.21 7285.77 -648.07 7311.75 0.00 1660000 89.97 359.75 9788.21 7285.77 -648.95 7511.34 0.00 1690000 89.97 359.75 9788.41 7685.77 -659.38 7611.26 0.00 1700000 89.97 359.75 9788.41 7685.77 -651.37 1711.00 0.00 1720000 89.97 359.75 9788.61 8085.77 -651.57 1710.46 0.00 1730000 89.97 359.75 9788.16 8085.76									
1610000 89.97 359.75 9788.05 688.5.8 -646.76 7012.23 0.00 16300.00 89.97 359.75 9788.10 7085.78 -647.20 7112.07 0.00 16400.00 89.97 359.75 9788.11 7185.78 -647.24 7211.91 0.00 16500.00 89.97 359.75 9788.21 7385.77 -648.51 7311.75 0.00 16600.00 89.97 359.75 9788.21 7385.77 -648.51 7311.75 0.00 16600.00 89.97 359.75 9788.41 7485.77 -648.93 7511.43 0.00 16900.00 89.97 359.75 9788.41 7685.77 -650.69 7910.78 0.00 17000.00 89.97 359.75 9788.46 7785.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.66 8185.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.61									
I620000 89.97 359.75 9788.10 7085.78 -647.20 7012.23 0.00 16400.00 89.97 359.75 9788.10 7185.78 -647.24 721.91 0.00 16500.00 89.97 359.75 9788.21 7285.77 -648.07 7311.75 0.00 16600.00 89.97 359.75 9788.21 7285.77 -648.95 7511.43 0.00 16600.00 89.97 359.75 9788.31 7485.77 -649.92 7511.13 0.00 16900.00 89.97 359.75 9788.41 7685.77 -649.92 7711.10 0.00 17000.00 89.97 359.75 9788.46 7785.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.61 8085.77 -651.57 810.46 0.00 17300.00 89.97 359.75 9788.66 8185.77 -651.57 810.46 0.00 17500.00 89.97 359.75 9788.16 888									
16300.00 89.97 359.75 9788.16 708.78 -647.20 7112.07 0.00 16400.00 89.97 359.75 9788.16 7185.78 -647.64 7211.91 0.00 16500.00 89.97 359.75 9788.21 7285.77 -648.51 7411.59 0.00 16500.00 89.97 359.75 9788.31 7485.77 -648.93 7511.26 0.00 16900.00 89.97 359.75 9788.41 7685.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.41 7685.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.65 798.77 -651.13 801.62 0.00 17300.00 89.97 359.75 9788.61 885.77 -652.00 2810.30 0.00 17500.00 89.97 359.75 9788.71 825.76 -652.44 8310.14 0.00 17600.00 89.97 359.75 9788.81 8485									
16400.00 89.97 359.75 9788.16 718.57.8 -647.64 7211.91 0.00 16500.00 89.97 359.75 9788.26 738.77 -648.51 7411.59 0.00 16700.00 89.97 359.75 9788.31 748.77 -648.95 7511.43 0.00 16800.00 89.97 359.75 9788.36 785.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.46 7785.77 -650.26 7810.94 0.00 17200.00 89.97 359.75 9788.51 7885.77 -651.69 7910.78 0.00 17300.00 89.97 359.75 9788.61 808.77 -651.13 8010.62 0.00 17300.00 89.97 359.75 9788.66 8185.77 -651.57 810.46 0.00 17500.00 89.97 359.75 9788.66 8185.77 -651.28 840.99 0.00 17600.00 89.97 359.75 9788.76 -652									
16500.00 89.97 359.75 9788.21 7285.77 -648.07 7311.75 0.00 16600.00 89.97 359.75 9788.31 7485.77 -648.95 7511.43 0.00 16800.00 89.97 359.75 9788.31 7685.77 -649.38 7611.26 0.00 16900.00 89.97 359.75 9788.41 7685.77 -649.38 7611.26 0.00 17000.00 89.97 359.75 9788.46 7785.77 -650.69 7910.78 0.00 17100.00 89.97 359.75 9788.51 7885.77 -651.69 7910.78 0.00 17200.00 89.97 359.75 9788.61 8085.77 -651.13 8110.46 0.00 17300.00 89.97 359.75 9788.61 8085.77 -651.57 8110.46 0.00 17400.00 89.97 359.75 9788.61 8085.76 -652.02 8210.30 0.00 17500.00 89.97 359.75 9788.81 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
16600.00 89.97 359.75 9788.26 7385.77 -648.51 7411.59 0.00 16700.00 89.97 359.75 9788.31 7485.77 -648.98 7511.43 0.00 16900.00 89.97 359.75 9788.41 7685.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.51 7885.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.56 7985.77 -651.13 8010.62 0.00 17300.00 89.97 359.75 9788.61 805.77 -651.13 8010.62 0.00 17400.00 89.97 359.75 9788.61 805.77 -651.13 8010.62 0.00 17500.00 89.97 359.75 9788.61 8185.77 -651.13 810.44 0.00 17600.00 89.97 359.75 9788.68 8185.76 -652.00 810.14 0.00 17900.00 89.97 359.75 9788.81 848									
16700,0 89.97 359.75 9788.31 7485.77 -649.85 7511.43 0.00 16800,00 89.97 359.75 9788.41 7685.77 -649.82 7711.10 0.00 17000,00 89.97 359.75 9788.41 7685.77 -650.26 7810.94 0.00 17000,00 89.97 359.75 9788.51 7885.77 -650.69 7910.78 0.00 17200,00 89.97 359.75 9788.61 8085.77 -651.13 8010.62 0.00 17300,00 89.97 359.75 9788.61 8085.77 -651.13 8010.62 0.00 17400,00 89.97 359.75 9788.61 8085.76 -652.48 810.44 0.00 17600,00 89.97 359.75 9788.86 8385.76 -652.88 8409.98 0.00 17900,00 89.97 359.75 9788.86 8585.76 -653.19 870.96 0.00 18000,00 89.97 359.75 9789.92 86									
16800.00 89.97 359.75 9788.36 7585.77 -649.38 7611.26 0.00 16900.00 89.97 359.75 9788.41 7685.77 -650.26 781.10 0.00 17000.00 89.97 359.75 9788.51 7885.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.61 8085.77 -651.51 8110.46 0.00 17300.00 89.97 359.75 9788.66 8185.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.61 885.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.61 885.76 -652.28 8409.98 0.00 17600.00 89.97 359.75 9788.81 8485.76 -653.75 8609.66 0.00 17800.00 89.97 359.75 9788.97 8785.76 -654.19 870.95 0.00 18000.00 89.97 359.75 9789.02 888									
16900.00 89.97 359.75 9788.41 7685.77 -649.82 7711.10 0.00 17000.00 89.97 359.75 9788.56 785.77 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.56 7985.77 -651.13 8010.62 0.00 17300.00 89.97 359.75 9788.61 8085.77 -651.57 8110.46 0.00 17300.00 89.97 359.75 9788.61 8085.77 -651.57 8110.46 0.00 17500.00 89.97 359.75 9788.61 8085.77 -652.00 8210.30 0.00 17600.00 89.97 359.75 9788.76 8385.76 -652.88 8409.98 0.00 17700.00 89.97 359.75 9788.86 8485.76 -653.32 8509.66 0.00 17800.00 89.97 359.75 9788.92 8685.76 -654.63 8809.34 0.00 18000.00 89.97 359.75 9789.02									
17000.00 89.97 359.75 9788.46 7785.77 -650.26 7810.94 0.00 17100.00 89.97 359.75 9788.51 7885.77 -650.69 7910.78 0.00 17300.00 89.97 359.75 9788.61 8085.77 -651.57 8110.46 0.00 17400.00 89.97 359.75 9788.61 8085.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.71 8285.76 -652.44 8310.14 0.00 17600.00 89.97 359.75 9788.81 8485.76 -652.44 8310.14 0.00 17700.00 89.97 359.75 9788.81 8485.76 -653.32 8509.82 0.00 17800.00 89.97 359.75 9788.86 8685.76 -653.75 869.96 0.00 18000.00 89.97 359.75 9788.97 8785.76 -655.49 890.97 30.00 18200.00 89.97 359.75 9789.17									
17100.00 89.97 359.75 978.51 788.57 -650.69 7910.78 0.00 17200.00 89.97 359.75 9788.66 7985.77 -651.13 8010.62 0.00 17300.00 89.97 359.75 9788.66 8185.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.71 8285.76 -652.44 8310.14 0.00 17500.00 89.97 359.75 9788.76 8385.76 -652.88 8409.98 0.00 17700.00 89.97 359.75 9788.86 858.576 -653.32 8509.82 0.00 17800.00 89.97 359.75 9788.92 8685.76 -654.19 870.50 0.00 18000.00 89.97 359.75 9788.92 865.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8895.76 -655.04 909.01 0.00 18200.00 89.97 359.75 9789.12 908.									
17200.00 89.97 359.75 9788.61 8085.77 -651.13 8010.62 0.00 17300.00 89.97 359.75 9788.61 8085.77 -651.57 8110.46 0.00 17400.00 89.97 359.75 9788.66 8185.77 -652.04 8310.14 0.00 17500.00 89.97 359.75 9788.76 8385.76 -652.44 8310.14 0.00 17700.00 89.97 359.75 9788.81 8485.76 -653.32 8509.82 0.00 17800.00 89.97 359.75 9788.86 885.76 -653.75 8609.66 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.19 8709.50 0.00 18000.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.12 9085.76 -655.09 909.01 0.00 18400.00 89.97 359.75 9789.12 9									
17300.00 89.97 359.75 9788.61 8085.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.66 8185.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.76 8285.76 -652.48 840.99.8 0.00 17700.00 89.97 359.75 9788.81 8485.76 -653.32 850.98.2 0.00 17900.00 89.97 359.75 9788.86 8585.76 -653.32 8609.66 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.63 8809.34 0.00 18000.00 89.97 359.75 9788.92 8685.76 -654.63 8809.34 0.00 18200.00 89.97 359.75 9789.02 8885.76 -655.06 899.91 0.00 18300.00 89.97 359.75 9789.12 9085.76 -656.81 9308.53 0.00 18600.00 89.97 359.75 9789.22 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
17400.00 89.97 359.75 9788.66 8185.77 -652.00 8210.30 0.00 17500.00 89.97 359.75 9788.71 8285.76 -652.44 8310.14 0.00 17600.00 89.97 359.75 9788.81 8485.76 -653.32 8509.82 0.00 17800.00 89.97 359.75 9788.86 8585.76 -653.75 8609.66 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.19 8709.50 0.00 18000.00 89.97 359.75 9789.92 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.07 8985.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.12 9085.76 -655.06 8909.17 0.00 18400.00 89.97 359.75 9789.12 9085.76 -656.31 9308.53 0.00 18700.00 89.97 359.75 9789.22 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
17500.00 89.97 359.75 9788.71 8285.76 -652.44 8310.14 0.00 17600.00 89.97 359.75 9788.81 8485.76 -652.88 8409.98 0.00 17800.00 89.97 359.75 9788.81 8485.76 -653.25 8509.82 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.19 8709.50 0.00 18000.00 89.97 359.75 9788.92 8685.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18300.00 89.97 359.75 9789.12 9085.76 -655.59 909.01 0.00 18500.00 89.97 359.75 9789.22 9285.76 -656.81 9308.53 0.00 18600.00 89.97 359.75 9789.27									
17600.00 89.97 359.75 9788.76 8385.76 -652.88 8409.98 0.00 17700.00 89.97 359.75 9788.81 8485.76 -653.32 8509.82 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.75 8609.66 0.00 18000.00 89.97 359.75 9788.92 8885.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.02 8885.76 -655.50 909.01 0.00 18300.00 89.97 359.75 9789.12 9085.76 -655.50 909.01 0.00 18400.00 89.97 359.75 9789.12 9085.76 -656.37 9208.69 0.00 18500.00 89.97 359.75 9789.17 9185.76 -657.25 9408.37 0.00 18600.00 89.97 359.75 9789.22 9									
17700.00 89.97 359.75 9788.81 8485.76 -653.32 8509.82 0.00 17800.00 89.97 359.75 9788.86 8585.76 -653.75 8609.66 0.00 18000.00 89.97 359.75 9788.92 8685.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.07 8985.76 -655.50 9009.01 0.00 18300.00 89.97 359.75 9789.12 9085.76 -655.94 9108.85 0.00 18500.00 89.97 359.75 9789.12 985.76 -656.37 9208.69 0.00 18600.00 89.97 359.75 9789.22 9285.75 -657.25 9408.73 0.00 18700.00 89.97 359.75 9789.32									
17800.00 89.97 359.75 9788.86 858.76 -653.75 8609.66 0.00 17900.00 89.97 359.75 9788.92 8685.76 -654.19 8709.50 0.00 18000.00 89.97 359.75 9788.97 8785.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18300.00 89.97 359.75 9789.02 89.576 -655.50 9009.01 0.00 18400.00 89.97 359.75 9789.12 908.76 -655.94 9108.85 0.00 18500.00 89.97 359.75 9789.17 9185.76 -656.37 9208.69 0.00 18600.00 89.97 359.75 9789.17 9185.76 -657.25 9408.37 0.00 18700.00 89.97 359.75 9789.22 985.75 -657.68 9508.21 0.00 18900.00 89.97 359.75 9789.42 968									
17900.00 89.97 359.75 9788.92 8685.76 -654.19 8709.50 0.00 18000.00 89.97 359.75 9788.97 8785.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.12 9085.76 -655.50 9009.01 0.00 18400.00 89.97 359.75 9789.12 9085.76 -656.37 9208.69 0.00 18500.00 89.97 359.75 9789.12 9285.76 -656.31 9308.53 0.00 18600.00 89.97 359.75 9789.22 9285.76 -656.81 9308.53 0.00 18700.00 89.97 359.75 9789.22 9385.75 -657.68 9508.21 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.12 9608.05 0.00 19000.00 89.97 359.75 9789.52 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
18000.00 89.97 359.75 9788.97 8785.76 -654.63 8809.34 0.00 18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.12 9085.76 -655.50 9009.01 0.00 18400.00 89.97 359.75 9789.12 9085.76 -656.37 9208.69 0.00 18500.00 89.97 359.75 9789.21 9285.76 -656.81 9308.53 0.00 18600.00 89.97 359.75 9789.22 9285.76 -656.81 9308.53 0.00 18700.00 89.97 359.75 9789.22 9285.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.32 9485.75 -658.81 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.69 9707.89 0.00 19000.00 89.97 359.75 9789.47 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
18100.00 89.97 359.75 9789.02 8885.76 -655.06 8909.17 0.00 18200.00 89.97 359.75 9789.07 8985.76 -655.50 9009.01 0.00 18300.00 89.97 359.75 9789.12 9085.76 -655.94 9108.85 0.00 18500.00 89.97 359.75 9789.12 9285.76 -656.81 9308.53 0.00 18600.00 89.97 359.75 9789.22 9285.76 -657.25 9408.37 0.00 18700.00 89.97 359.75 9789.22 9385.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.32 9485.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.66 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19200.00 89.97 359.75 9789.52 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
18200.00 89.97 359.75 9789.07 8985.76 -655.50 9009.01 0.00 18300.00 89.97 359.75 9789.12 9085.76 -655.94 9108.85 0.00 18500.00 89.97 359.75 9789.12 9185.76 -656.37 9208.69 0.00 18600.00 89.97 359.75 9789.22 9285.76 -657.25 9408.37 0.00 18700.00 89.97 359.75 9789.22 9485.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.32 9485.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.66 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.69 9807.73 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.87 10007.41 0.00 19300.00 89.97 359.75 9789.62 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
18300.00 89.97 359.75 9789.12 9085.76 -655.94 9108.85 0.00 18400.00 89.97 359.75 9789.17 9185.76 -656.37 9208.69 0.00 18500.00 89.97 359.75 9789.22 9285.75 -656.81 9308.53 0.00 18700.00 89.97 359.75 9789.22 9485.75 -657.25 948.37 0.00 18800.00 89.97 359.75 9789.32 9485.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.61 9707.89 0.00 19000.00 89.97 359.75 9789.42 9685.75 -658.66 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19300.00 89.97 359.75 9789.62									
18400.00 89.97 359.75 9789.17 9185.76 -656.37 9208.69 0.00 18500.00 89.97 359.75 9789.22 9285.76 -656.81 9308.53 0.00 18700.00 89.97 359.75 9789.27 9385.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.32 9485.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.69 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19100.00 89.97 359.75 9789.52 9885.75 -658.99 9807.73 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19300.00 89.97 359.75 9789.62 10085.75 -669.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 <									
18500.00 89.97 359.75 9789.22 9285.76 -656.81 9308.53 0.00 18600.00 89.97 359.75 9789.27 9385.75 -657.25 9408.37 0.00 18700.00 89.97 359.75 9789.32 9485.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.37 9585.75 -658.12 9608.05 0.00 19000.00 89.97 359.75 9789.42 9685.75 -658.69 9807.73 0.00 19100.00 89.97 359.75 9789.47 978.75 -658.99 9807.73 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19300.00 89.97 359.75 9789.57 989.57 -659.87 10007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
18600.00 89.97 359.75 9789.27 9385.75 -657.25 9408.37 0.00 18700.00 89.97 359.75 9789.32 9485.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.37 9585.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.96 9707.89 0.00 19100.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19300.00 89.97 359.75 9789.62 10085.75 -669.41 10007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.68									
18700.00 89.97 359.75 9789.32 9485.75 -657.68 9508.21 0.00 18800.00 89.97 359.75 9789.37 9585.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.96 9707.89 0.00 19100.00 89.97 359.75 9789.52 988.75 -659.43 9907.57 0.00 19200.00 89.97 359.75 9789.52 988.75 -659.43 9907.57 0.00 19300.00 89.97 359.75 9789.62 10085.75 -669.87 10007.41 0.00 19400.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.62 10085.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.63 10185.75 -661.18 10306.92 0.00									
18800.00 89.97 359.75 9789.37 9585.75 -658.12 9608.05 0.00 18900.00 89.97 359.75 9789.42 9685.75 -658.66 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19200.00 89.97 359.75 9789.52 9885.75 -659.43 9007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.68 10185.75 -661.18 10306.92 0.00									
18900.00 89.97 359.75 9789.42 9685.75 -658.56 9707.89 0.00 19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19100.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19200.00 89.97 359.75 9789.57 959.75 -669.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.63 10285.75 -661.18 10306.92 0.00	18700.00	89.97	359.75	9789.32		-657.68	9508.21	0.00	
19000.00 89.97 359.75 9789.47 9785.75 -658.99 9807.73 0.00 19100.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19200.00 89.97 359.75 9789.57 9985.75 -659.87 10007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00			359.75	9789.37	9585.75	-658.12	9608.05	0.00	
19100.00 89.97 359.75 9789.52 9885.75 -659.43 9907.57 0.00 19200.00 89.97 359.75 9789.57 9985.75 -659.87 10007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00	18900.00	89.97	359.75	9789.42	9685.75	-658.56	9707.89	0.00	
19200.00 89.97 359.75 9789.57 9985.75 -659.87 10007.41 0.00 19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00	19000.00	89.97	359.75	9789.47	9785.75	-658.99	9807.73	0.00	
19300.00 89.97 359.75 9789.62 10085.75 -660.31 10107.25 0.00 19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00	19100.00	89.97	359.75	9789.52	9885.75	-659.43	9907.57	0.00	
19400.00 89.97 359.75 9789.68 10185.75 -660.74 10207.08 0.00 19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00	19200.00	89.97	359.75	9789.57	9985.75	-659.87	10007.41	0.00	
19500.00 89.97 359.75 9789.73 10285.75 -661.18 10306.92 0.00	19300.00	89.97	359.75	9789.62	10085.75	-660.31	10107.25	0.00	
	19400.00	89.97	359.75	9789.68	10185.75	-660.74	10207.08	0.00	
	19500.00	89.97	359.75	9789.73	10285.75	-661.18	10306.92	0.00	



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

Geodetic System: US State Plane 1983

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

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19700.00	89.97	359.75	9789.83	10485.74	-662.05	10506.60	0.00	
19800.00	89.97	359.75	9789.88	10585.74	-662.49	10606.44	0.00	
19900.00	89.97	359.75	9789.93	10685.74	-662.93	10706.28	0.00	
19986.18	89.97	359.75	9789.97	10771.92	-663.30	10792.32	0.00	exit
20000.00	89.97	359.75	9789.98	10785.74	-663.36	10806.12	0.00	
20066.18	89.97	359.75	9790.00	10851.92	-663.60	10872.19	0.00	BHL

Cotton Draw 25-36 Fed State Com 126H

9 5/8	su	rface csg in a	13 1/2	inch hole.		Design l	Factors			Surfac	:e	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00		j 55	btc	21.72	7.58	0.79	725	12	1.32	14.32	29,000
"B"				btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test ps	ig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	725				29,000
Comparison o	f Proposed to I	Minimum Required Cemen	t Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
13 1/2	0.4887	367	528	354	49	9.00	2985	5M				1.44
3urst Frac Grac	lient(s) for Segn	nent(s) A, B = , b All > 0.7	'0, OK.									

7 5/8	cas	sing inside the	9 5/8			Design	Factors -		-	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70		p 110	talon sfc	3.36	1.45	2.01	9,173	2	3.37	2.43	272,438
"B"								0				0
	w/8.4	I#/g mud, 30min Sfc Csg Test ps	ig:				Totals:	9,173				272,438
		The cement vo	olume(s) are inten	ided to achieve a top of	0	ft from su	ırface or a	725				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	0.1005	601	1195	928	29	10.50	3186	5M				0.43
D V Tool(s):			6790				sum of sx	Σ CuFt				Σ%excess
t by stage % :		399	-100				601	1195				29
Class 'C' tail cm	t yld > 1.35											

5 1/2	casing	inside the	7 5/8	_		Design Fac	ctors			Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	talon rd	3.72	2.46	2.69	20,066	3	4.51	4.13	401,320
"B"								0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	psig: 2,154				Totals:	20,066				401,320
		The cement	volume(s) are inten	ided to achieve a top of	8673	ft from su	rface or a	500				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
6 3/4	0.0835	751	1195	954	25	10.50						0.43
lass 'C' tail cm	t yld > 1.35											

0			5 1/2			Design l	Factors -		<0	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 t	this csg, TOC intended	#N/A	ft from su	ırface 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	t top XXXX.								

Carlsbad Field Office 11/14/2024

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 404316

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	404316
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/22/2024
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/22/2024
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	11/22/2024