

Sundry Print Report

County or Parish/State: LEA /

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

Well Name: BOLL WEEVIL 27-34 FED Well Location: T26S / R34E / SEC 27 /

COM NWNE / 32.021 / -103.455

Well Number: 10H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM100569 Unit or CA Name: Unit or CA Number:

US Well Number: 3002547957 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2787634

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/30/2024 Time Sundry Submitted: 10:57

Date proposed operation will begin: 07/01/2024

Procedure Description: Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Casing program change to slim hole design: Surface, Intermediate, and Production Casing size changes. Cement volume changes to accommodate casing change. Offline cement variance request. Please see attached revised drilling & directional plans and supporting documentation.

NOI Attachments

Procedure Description

BOLL_WEEVIL_27_34_FED_COM_10H_Slim_Hole_20240430105422.pdf

7_625_29_7lb_P110HSCY_MOFXL_20240430105422.pdf

9.625_40lb_J_55_20240430105422.pdf

BOLL_WEEVIL_27_34_FED_COM_10H_Directional_Plan_04_22_24_20240430105422.pdf

5.5_20lb_P110EC_VAM_SPRINT_TC_SC_20240430105422.pdf

by OCD: 5/13/2024 3:24:12 AM Name: BOLL WEEVIL 27-34 FED

COM

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NWNE / 32.021 / -103.455

County or Parish/State: LEA/ 2 of

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Allottee or Tribe Name:

Lease Number: NMNM100569

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547957

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Boll_Weevil_27_34_Fed_Com_10H_Sundry_ID_2787634_20240509114354.pdf

Operator

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

Operator Electronic Signature: REBECCA DEAL Signed on: APR 30, 2024 10:54 AM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Long Vo

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

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

Disposition: Approved Disposition Date: 05/09/2024

Form 3160-5 (June 2019)

UNITED STATES

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

DEPARTMENT OF THE INTERIOR		LA	xpires. October 51, 2021
BUREAU OF LAND MANAGEMENT		5. Lease Serial No.	NMNM100569
SUNDRY NOTICES AND REPORTS ON W	_	6. If Indian, Allottee	or Tribe Name
Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for suc			
SUBMIT IN TRIPLICATE - Other instructions on page	e 2	7. If Unit of CA/Agr	reement, Name and/or No.
1. Type of Well		8. Well Name and N	O. BOLL WEEVIL 27-34 FED COM/10
Oil Well Gas Well Other 2 Name of Operator		9. API Well No. 300	BOLL WEEVIL 27-34 FED COM/10
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP	(; 1 1 1)		
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, 3b. Phone No. (405) 235-361		10. Field and Pool of WC-025 G-08 S2	263412K/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 27/T26S/R34E/NMP		11. Country or Parish LEA/NM	h, State
12. CHECK THE APPROPRIATE BOX(ES) TO INC	DICATE NATURE O	F NOTICE, REPORT OR OT	THER DATA
TYPE OF SUBMISSION	ТҮРЕ	OF ACTION	
Notice of Intent Acidize Deeper	=	Production (Start/Resume)	
	aulic Fracturing	Reclamation	Well Integrity
Subsequent Report ==	Constructionand Abandon	Recomplete Temporarily Abandon	Other
Final Abandonment Notice Convert to Injection Plug I	_	Water Disposal	
Engineering Only - Devon Energy Production Company L.P. respectful change to slim hole design: Surface, Intermediate, and Production Cas Offline cement variance request. Please see attached revised drilling &	sing size changes.	Cement volume changes to	accommodate casing change.
14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) REBECCA DEAL / Ph: (303) 299-1406	Regulatory A	analyst	
(Electronic Submission) Signature	Date	04/30/	2024
THE SPACE FOR FEDE	ERAL OR STAT	TE OFICE USE	
Approved by			
LONG VO / Ph: (575) 988-5402 / Approved	Petrole Title	um Engineer	05/09/2024 Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject least which would entitle the applicant to conduct operations thereon.		SBAD	
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for an	y person knowingly	and willfully to make to any o	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: NWNE / 225 FNL / 1754 FEL / TWSP: 26S / RANGE: 34E / SECTION: 27 / LAT: 32.021 / LONG: -103.455 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 100 FNL / 1440 FEL / TWSP: 26S / RANGE: 34E / SECTION: 27 / LAT: 32.0214 / LONG: -103.4539 (TVD: 12620 feet, MD: 12673 feet) BHL: SWSE / 20 FSL / 1440 FEL / TWSP: 26S / RANGE: 34E / SECTION: 34 / LAT: 32.005 / LONG: -103.454 (TVD: 12850 feet, MD: 20268 feet)



BOLL WEEVIL 27-34 FED COM 10H

1. Geologic Formations

TVD of target	12850	Pilot hole depth	N/A
MD at TD:	20349	Deepest expected fresh water	

Basin

Dasin	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
r of mation			Hazarus
	from KB	Zone?	
Rustler	860		
Salt	1200		
Base of Salt	5070		
Delaware	5330		
Cherry Canyon	6375		
Brushy Canyon	7980		
Bone Spring 1st	10590		
Bone Spring 2nd	11140		
Bone Spring 3rd	12200		
Wolfcamp	12620		
-			

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

2. Casing Program (Primary Design)

		Wt				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	ВТС	0	940	0	940
8 3/4	7 5/8	29.7	P110HSCY	MOFXL	0	12206	0	12206
6 3/4	5 1/2	20	P110	Sprint-TC SC	0	20349	0	12850

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

3. Cementing Program (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	497	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	312	Surf	9	3.27	Lead: Class C Cement + additives
IIIt 1	391	7980	13.2	1.44	Tail: Class H / C + additives
Int 1	405	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Int 1 Intermediate	312	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	391	7980	13.2	1.44	Tail: Class H / C + additives
D 1 4	62	10306	9	3.27	Lead: Class H /C + additives
Production	513	12306	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:																															
		Annu	Annular		X	50% of rated working pressure																															
Int 1	13-5/8"	5M		d Ram	X																																
IIIt 1	13-3/6	3111	Pipe	Ram		5M																															
			Doub	le Ram	X	JIVI																															
			Other*																																		
	13-5/8"	13-5/8"		Annular (5)	ar (5M)	X	100% of rated working pressure																														
Production			13-5/8"	13-5/8"	10M	13-5/8" 10M	3-5/8" 10M	Blind Ram		X																											
Troduction					13-3/6			10101	, 101v1	1011	10111	TOWI	10111	10111	10111	10111	10111	10111	10111	10111	1011	1011	1011	1011	10111	10141	1011	10111	1011	1011	10111	10111	10111	10111	10111	10111	10111
			Double Ram		X	10101																															
			Other*																																		
			Annular (5M)																																		
			Blind Ram																																		
			Pipe Ram																																		
			Double Ram																																		
			Other*																																		
	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.																																				
Y A variance is requested to	A 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 sbumitted to the BLM.				
	No logs are planned based on well control or offset log information.				
	Drill stem test? If yes, explain.				
	Coring? If yes, explain.				

Addition	al logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
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	7016
Abnormal temperature	No

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

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

N H2S is present
Y H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attach	ments
X	Directional Plan
	Other, describe

etal One Corp.	MO-FXL		MO-FXL 7-5/8 29.7 P110HSCY			
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110HSC	CDS#	MinYS125ksi			
Metal One	Min95%WT	:	Min95%WT			
	Connection Data	Sheet	Date			
		d Officet	Date	20 00	P 20	
	Geometry	<u>Imperia</u>	<u>ıl</u>	<u>S.I.</u>		
	Pipe Body					
	Grade *	P110HSCY		P110HSCY		
	Pipe OD (D)	7 5/8	in	193.68	mm	
MO-FXL	Weight	29.70	lb/ft	44.25	kg/m	
	Actual weight	29.04		43.26	kg/m	
	Wall Thickness (t)	0.375	in	9.53	mm	
	Pipe ID (d)	6.875	in	174.63	mm	
	Pipe body cross section	8.541	in ²	5,510	mm ²	
	Drift Dia.	6.750	in	171.45	mm	
	Connection					
不	Connection Box OD (W)	7.625	in	193.68	mm	
	PIN ID	6.875	in	174.63	mm	
	Make up Loss	4.219	in	107.16	mm	
Box	Box Critical Area					
area		5.714	in ²	3686	mm ²	
	Joint load efficiency	70	%	70	%	
			140/4			
, ,	Thread Taper Number of Threads	1		2" per ft) TPI		
Make p	Thread Taper Number of Threads Performance					
Make p D	Thread Taper Number of Threads Performance Performance Properties f	or Pipe Body	5	TPI	l kN	
Make p	Thread Taper Number of Threads Performance Performance Properties 1 S.M.Y.S. *1	or Pipe Body	5 kips	4,749	kN MPa	
lake o D Pin	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1	or Pipe Body 1,068 11,680	kips psi	4,749 80.55	MPa	
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Pin critical	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minimi * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft)	for Pipe Body 1,068 11,680 7,200 ed Minimum YIE um Internal Yield i, Min95%WT, Col i" 29.7lb/ft P110H: for Connectio 747 kips	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% (80% 100% c	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa ddy	
Pin critical	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minimi * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure	for Pipe Body 1,068 11,680 7,200 ed Minimum YIE um Internal Yield i, Min95%WT, Col i" 29.7lb/ft P110H: for Connectio 747 kips	kips psi psi ELD Streid Pressur lapse Stre SCY Rev3 n (70% (70% 100% c	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy	
Pin critical	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minimi * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	Tor Pipe Body 1,068 11,680 7,200 Told Minimum YIE Told Mi	kips psi psi Pressur lapse Stre SCY Rev3 n (70% (70% (70% c 3	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	MPa MPa dy 3	
Make p D Pin critical	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minimi * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	for Pipe Body 1,068 11,680 7,200 led Minimum YIE um Internal Yield i, Min95%WT, Col " 29.7lb/ft P110Hs for Connectio 747 kips 9,340 psi 15,500 17,200	kips psi psi psi lapse Strescy Rev3 n 70% 80% 100% c 3	4,749 80.55 49.66 ngth of Pipe body ength 7,200psi 8, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	MPa MPa dy 3 rength N-m N-m	
Make p D Pin critical	Thread Taper Number of Threads Performance Performance Properties f S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minimi * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	Tor Pipe Body 1,068 11,680 7,200 Told Minimum YIE Told Mi	kips psi psi Pressur lapse Stre SCY Rev3 n (70% (70% (70% c 3	4,749 80.55 49.66 Ingth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	MPa MPa dy 3	

egal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/ images/top/WebsiteTerms Active 20333287 1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.



U. S. Steel Tubular Products 9.625" 40.00lbs/ft (0.395" Wall) J55

1/24/2019 2:45:24 PM

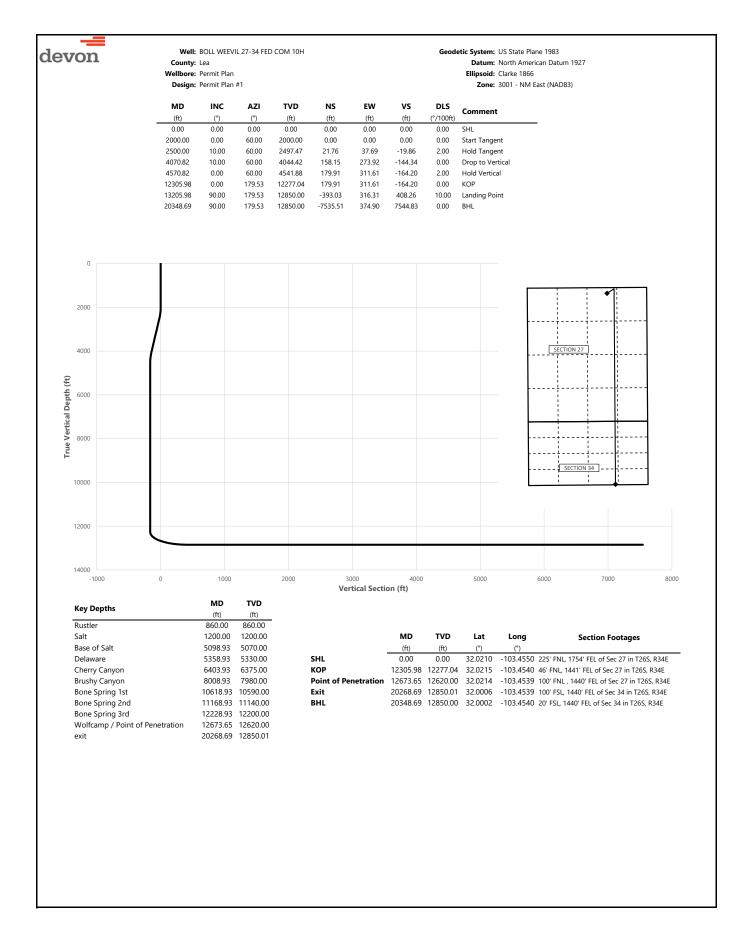
MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	55,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	75,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	9.625	10.625	10.625	10.625	in.
Wall Thickness	0.395				in.
Inside Diameter	8.835	8.835	8.835	8.835	in.
Standard Drift	8.679	8.679	8.679	8.679	in.
Alternate Drift	8.750	8.750	8.750	8.750	in.
Nominal Linear Weight, T&C	40.00				lbs/ft
Plain End Weight	38.97				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	2,570	2,570	2,570	2,570	psi
Minimum Internal Yield Pressure	3,950	3,950	3,950	3,950	psi
Minimum Pipe Body Yield Strength	630				1,000 lbs
Joint Strength		714	520	452	1,000 lbs
Reference Length		11,898	8,665	7,529	ft
MAKE-UP DATA	Pipe	втс	LTC	STC	
Make-Up Loss		4.81	4.75	3.38	in.
Minimum Make-Up Torque			3,900	3,390	ft-lbs
Maximum Make-Up Torque			6,500	5,650	ft-lbs

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

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





Well: BOLL WEEVIL 27-34 FED COM 10H
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 Fast (NAD83)

	Design: Permit Plan #1							Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	60.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	60.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	60.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	60.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	60.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	60.00	600.00	0.00	0.00	0.00	0.00	
700.00 800.00	0.00	60.00 60.00	700.00 800.00	0.00	0.00 0.00	0.00 0.00	0.00	
860.00	0.00	60.00	860.00	0.00	0.00	0.00	0.00	Rustler
900.00	0.00	60.00	900.00	0.00	0.00	0.00	0.00	Nustici
1000.00	0.00	60.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	60.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	60.00	1200.00	0.00	0.00	0.00	0.00	Salt,
1300.00	0.00	60.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	60.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	60.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	60.00	1600.00	0.00	0.00	0.00	0.00	
1700.00 1800.00	0.00	60.00 60.00	1700.00 1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	60.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	60.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	60.00	2099.98	0.87	1.51	-0.80	2.00	
2200.00	4.00	60.00	2199.84	3.49	6.04	-3.18	2.00	
2300.00	6.00	60.00	2299.45	7.85	13.59	-7.16	2.00	
2400.00	8.00	60.00	2398.70	13.94	24.14	-12.72	2.00	
2500.00	10.00	60.00	2497.47	21.76	37.69	-19.86	2.00	Hold Tangent
2600.00	10.00	60.00	2595.95	30.44	52.73	-27.79	0.00	
2700.00 2800.00	10.00 10.00	60.00 60.00	2694.43 2792.91	39.13 47.81	67.77 82.81	-35.71 -43.63	0.00	
2900.00	10.00	60.00	2891.39	56.49	97.85	-51.56	0.00	
3000.00	10.00	60.00	2989.87	65.17	112.88	-59.48	0.00	
3100.00	10.00	60.00	3088.35	73.86	127.92	-67.41	0.00	
3200.00	10.00	60.00	3186.83	82.54	142.96	-75.33	0.00	
3300.00	10.00	60.00	3285.31	91.22	158.00	-83.26	0.00	
3400.00	10.00	60.00	3383.79	99.90	173.04	-91.18	0.00	
3500.00	10.00	60.00	3482.27	108.59	188.08	-99.11	0.00	
3600.00	10.00	60.00	3580.75	117.27	203.11	-107.03	0.00	
3700.00	10.00	60.00	3679.23	125.95	218.15	-114.95	0.00	
3800.00 3900.00	10.00 10.00	60.00 60.00	3777.72 3876.20	134.63 143.32	233.19 248.23	-122.88 -130.80	0.00	
4000.00	10.00	60.00	3974.68	152.00	263.27	-138.73	0.00	
4070.82	10.00	60.00	4044.42	158.15	273.92	-144.34	0.00	Drop to Vertical
4100.00	9.42	60.00	4073.18	160.61	278.18	-146.59	2.00	'
4200.00	7.42	60.00	4172.10	167.92	290.85	-153.26	2.00	
4300.00	5.42	60.00	4271.47	173.51	300.53	-158.36	2.00	
4400.00	3.42	60.00	4371.17	177.36	307.20	-161.88	2.00	
4500.00	1.42	60.00	4471.07	179.47	310.85	-163.80	2.00	
4570.82	0.00	60.00	4541.88 4571.07	179.91	311.61	-164.20	2.00	Hold Vertical
4600.00 4700.00	0.00	179.53 179.53	4571.07 4671.07	179.91 179.91	311.61 311.61	-164.20 -164.20	0.00	
4800.00	0.00	179.53	4771.07	179.91	311.61	-164.20	0.00	
4900.00	0.00	179.53	4871.07	179.91	311.61	-164.20	0.00	
5000.00	0.00	179.53	4971.07	179.91	311.61	-164.20	0.00	
5098.93	0.00	179.53	5070.00	179.91	311.61	-164.20	0.00	Base of Salt
5100.00	0.00	179.53	5071.07	179.91	311.61	-164.20	0.00	
5200.00	0.00	179.53	5171.07	179.91	311.61	-164.20	0.00	
5300.00	0.00	179.53	5271.07	179.91	311.61	-164.20	0.00	Delauras
5358.93	0.00	179.53	5330.00 5371.07	179.91	311.61	-164.20	0.00	Delaware
5400.00 5500.00	0.00	179.53 179.53	5371.07 5471.07	179.91 179.91	311.61 311.61	-164.20 -164.20	0.00	
5600.00	0.00	179.53	5571.07	179.91	311.61	-164.20	0.00	
5700.00	0.00	179.53	5671.07	179.91	311.61	-164.20	0.00	
5800.00	0.00	179.53	5771.07	179.91	311.61	-164.20	0.00	
5900.00	0.00	179.53	5871.07	179.91	311.61	-164.20	0.00	
6000.00	0.00	179.53	5971.07	179.91	311.61	-164.20	0.00	
6100.00	0.00	179.53	6071.07	179.91	311.61	-164.20	0.00	
6200.00	0.00	179.53	6171.07	179.91	311.61	-164.20	0.00	
6300.00	0.00	179.53	6271.07	179.91	311.61	-164.20	0.00	
6400.00	0.00	179.53	6371.07	179.91	311.61	-164.20	0.00	



Well: BOLL WEEVIL 27-34 FED COM 10H

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	n #1				Zone: 3001 - NM East (NAD83)		
MD	INC	AZI	TVD	NS	EW	vs	DLS	C	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
6403.93	0.00	179.53	6375.00	179.91	311.61	-164.20	0.00	Cherry Canyon	
6500.00	0.00	179.53	6471.07	179.91	311.61	-164.20	0.00		
6600.00	0.00	179.53	6571.07	179.91	311.61	-164.20	0.00		
6700.00	0.00	179.53	6671.07	179.91	311.61	-164.20	0.00		
6800.00	0.00	179.53	6771.07	179.91	311.61	-164.20	0.00		
6900.00	0.00	179.53	6871.07	179.91	311.61	-164.20	0.00		
7000.00	0.00	179.53	6971.07	179.91	311.61	-164.20	0.00		
7100.00	0.00	179.53	7071.07	179.91	311.61	-164.20	0.00		
7200.00	0.00	179.53	7171.07	179.91	311.61	-164.20	0.00		
7300.00	0.00	179.53	7271.07	179.91	311.61	-164.20	0.00		
7400.00	0.00	179.53	7371.07	179.91	311.61	-164.20	0.00		
7500.00	0.00	179.53	7471.07	179.91	311.61	-164.20	0.00		
7600.00	0.00	179.53	7571.07	179.91	311.61	-164.20	0.00		
7700.00 7800.00	0.00	179.53 179.53	7671.07 7771.07	179.91	311.61	-164.20	0.00		
7900.00	0.00	179.53	7871.07	179.91 179.91	311.61 311.61	-164.20 -164.20	0.00		
8000.00	0.00	179.53	7971.07	179.91	311.61	-164.20	0.00		
8008.93	0.00	179.53	7980.00	179.91	311.61	-164.20	0.00	Brushy Canyon	
8100.00	0.00	179.53	8071.07	179.91	311.61	-164.20	0.00	brushly Carlyon	
8200.00	0.00	179.53	8171.07	179.91	311.61	-164.20	0.00		
8300.00	0.00	179.53	8271.07	179.91	311.61	-164.20	0.00		
8400.00	0.00	179.53	8371.07	179.91	311.61	-164.20	0.00		
8500.00	0.00	179.53	8471.07	179.91	311.61	-164.20	0.00		
8600.00	0.00	179.53	8571.07	179.91	311.61	-164.20	0.00		
8700.00	0.00	179.53	8671.07	179.91	311.61	-164.20	0.00		
8800.00	0.00	179.53	8771.07	179.91	311.61	-164.20	0.00		
8900.00	0.00	179.53	8871.07	179.91	311.61	-164.20	0.00		
9000.00	0.00	179.53	8971.07	179.91	311.61	-164.20	0.00		
9100.00	0.00	179.53	9071.07	179.91	311.61	-164.20	0.00		
9200.00	0.00	179.53	9171.07	179.91	311.61	-164.20	0.00		
9300.00	0.00	179.53	9271.07	179.91	311.61	-164.20	0.00		
9400.00	0.00	179.53	9371.07	179.91	311.61	-164.20	0.00		
9500.00	0.00	179.53	9471.07	179.91	311.61	-164.20	0.00		
9600.00	0.00	179.53	9571.07	179.91	311.61	-164.20	0.00		
9700.00	0.00	179.53	9671.07	179.91	311.61	-164.20	0.00		
9800.00	0.00	179.53	9771.07	179.91	311.61	-164.20	0.00		
9900.00	0.00	179.53	9871.07	179.91	311.61	-164.20	0.00		
10000.00	0.00	179.53	9971.07	179.91	311.61	-164.20	0.00		
10100.00	0.00	179.53	10071.07	179.91	311.61	-164.20	0.00		
10200.00	0.00	179.53	10171.07	179.91	311.61	-164.20	0.00		
10300.00	0.00	179.53	10271.07	179.91	311.61	-164.20	0.00		
10400.00	0.00	179.53	10371.07	179.91	311.61	-164.20	0.00		
10500.00 10600.00	0.00	179.53 179.53	10471.07 10571.07	179.91 179.91	311.61 311.61	-164.20 -164.20	0.00		
10600.00	0.00	179.53	10571.07		311.61	-164.20	0.00	Rono Spring 1ct	
10618.93	0.00	179.53	10590.00	179.91 179.91	311.61	-164.20	0.00	Bone Spring 1st	
10800.00	0.00	179.53	10071.07	179.91	311.61	-164.20	0.00		
10900.00	0.00	179.53	10771.07	179.91	311.61	-164.20	0.00		
11000.00	0.00	179.53	10971.07	179.91	311.61	-164.20	0.00		
11100.00	0.00	179.53	11071.07	179.91	311.61	-164.20	0.00		
11168.93	0.00	179.53	11140.00	179.91	311.61	-164.20	0.00	Bone Spring 2nd	
11200.00	0.00	179.53	11171.07	179.91	311.61	-164.20	0.00	. 🤟	
11300.00	0.00	179.53	11271.07	179.91	311.61	-164.20	0.00		
11400.00	0.00	179.53	11371.07	179.91	311.61	-164.20	0.00		
11500.00	0.00	179.53	11471.07	179.91	311.61	-164.20	0.00		
11600.00	0.00	179.53	11571.07	179.91	311.61	-164.20	0.00		
11700.00	0.00	179.53	11671.07	179.91	311.61	-164.20	0.00		
11800.00	0.00	179.53	11771.07	179.91	311.61	-164.20	0.00		
11900.00	0.00	179.53	11871.07	179.91	311.61	-164.20	0.00		
12000.00	0.00	179.53	11971.07	179.91	311.61	-164.20	0.00		
12100.00	0.00	179.53	12071.07	179.91	311.61	-164.20	0.00		
12200.00	0.00	179.53	12171.07	179.91	311.61	-164.20	0.00		
12228.93	0.00	179.53	12200.00	179.91	311.61	-164.20	0.00	Bone Spring 3rd	
12300.00	0.00	179.53	12271.07	179.91	311.61	-164.20	0.00		
12305.98	0.00	179.53	12277.04	179.91	311.61	-164.20	0.00	KOP	
12400.00	9.40	179.53	12370.65	172.21	311.67	-156.51	10.00		
12500.00	19.40	179.53	12467.38	147.37	311.88	-131.69	10.00		
12600.00	29.40	179.53	12558.33	106.11	312.21	-90.46	10.00	Welfaren / Driet of Description	
12673.65	36.77	179.53	12620.00	65.93	312.54	-50.32	10.00	Wolfcamp / Point of Penetration	
12700.00	39.40	179.53	12640.73	49.68	312.68	-34.08	10.00		



Well: BOLL WEEVIL 27-34 FED COM 10H

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

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

		Permit Plan						Ellipsoid: Clarke 1866
	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	49.40	179.53	12712.09	-20.20	313.25	35.74	10.00	
12900.00	59.40	179.53	12770.22	-101.40	313.92	116.88	10.00	
13000.00	69.40	179.53	12813.37	-101.40	314.66	206.87	10.00	
						302.98	10.00	
13100.00	79.40	179.53	12840.23	-287.66	315.45			
13200.00	89.40	179.53	12849.97	-387.06	316.26	402.29	10.00	Lead's a Defat
13205.98	90.00	179.53	12850.00	-393.03	316.31	408.26	10.00	Landing Point
13300.00	90.00	179.53	12850.00	-487.05	317.08	502.21	0.00	
13400.00	90.00	179.53	12850.00	-587.05	317.90	602.12	0.00	
13500.00	90.00	179.53	12850.00	-687.05	318.72	702.03	0.00	
13600.00	90.00	179.53	12850.00	-787.04	319.54	801.95	0.00	
13700.00	90.00	179.53	12850.00	-887.04	320.36	901.86	0.00	
13800.00	90.00	179.53	12850.00	-987.04	321.18	1001.78	0.00	
13900.00	90.00	179.53	12850.00	-1087.03	322.00	1101.69	0.00	
14000.00	90.00	179.53	12850.00	-1187.03	322.82	1201.60	0.00	
14100.00	90.00	179.53	12850.00	-1287.03	323.64	1301.52	0.00	
14200.00	90.00	179.53	12850.00	-1387.02	324.47	1401.43	0.00	
14300.00	90.00	179.53	12850.00	-1487.02	325.29	1501.35	0.00	
14400.00	90.00	179.53	12850.00	-1587.02	326.11	1601.26	0.00	
14500.00	90.00	179.53	12850.00	-1687.01	326.93	1701.17	0.00	
14600.00	90.00	179.53	12850.00	-1787.01	327.75	1801.09	0.00	
14700.00	90.00	179.53	12850.00	-1887.01	328.57	1901.00	0.00	
14800.00	90.00	179.53	12850.00	-1987.00	329.39	2000.92	0.00	
14900.00	90.00	179.53	12850.00	-2087.00	330.21	2100.83	0.00	
15000.00	90.00	179.53	12850.00	-2187.00	331.03	2200.74	0.00	
15100.00	90.00	179.53	12850.00	-2286.99	331.85	2300.66	0.00	
15200.00	90.00	179.53	12850.00	-2386.99	332.67	2400.57	0.00	
15300.00	90.00	179.53	12850.00	-2486.99	333.49	2500.48	0.00	
15400.00	90.00	179.53	12850.00	-2586.98	334.31	2600.40	0.00	
15500.00	90.00	179.53	12850.00	-2686.98	335.13	2700.31	0.00	
15600.00	90.00	179.53	12850.00	-2786.98	335.95	2800.23	0.00	
15700.00	90.00	179.53	12850.00	-2886.97	336.77	2900.14	0.00	
15800.00	90.00	179.53	12850.00	-2986.97	337.59	3000.05	0.00	
15900.00		179.53	12850.00	-3086.97		3099.97	0.00	
	90.00				338.41			
16000.00	90.00	179.53	12850.00	-3186.96	339.24	3199.88	0.00	
16100.00	90.00	179.53	12850.00	-3286.96	340.06	3299.80	0.00	
16200.00	90.00	179.53	12850.00	-3386.96	340.88	3399.71	0.00	
16300.00	90.00	179.53	12850.00	-3486.95	341.70	3499.62	0.00	
16400.00	90.00	179.53	12850.00	-3586.95	342.52	3599.54	0.00	
16500.00	90.00	179.53	12850.00	-3686.95	343.34	3699.45	0.00	
16600.00	90.00	179.53	12850.00	-3786.94	344.16	3799.37	0.00	
16700.00	90.00	179.53	12850.00	-3886.94	344.98	3899.28	0.00	
16800.00	90.00	179.53	12850.00	-3986.93	345.80	3999.19	0.00	
16900.00	90.00	179.53	12850.00	-4086.93	346.62	4099.11	0.00	
17000.00	90.00	179.53	12850.01	-4186.93	347.44	4199.02	0.00	
17100.00	90.00	179.53	12850.01	-4286.92	348.26	4298.93	0.00	
17200.00	90.00	179.53	12850.01	-4386.92	349.08	4398.85	0.00	
17300.00	90.00	179.53	12850.01	-4486.92	349.90	4498.76	0.00	
17400.00	90.00	179.53	12850.01	-4586.91	350.72	4598.68	0.00	
17500.00	90.00	179.53	12850.01	-4686.91	351.54	4698.59	0.00	
17600.00	90.00	179.53	12850.01	-4786.91	352.36	4798.50	0.00	
17700.00	90.00	179.53	12850.01	-4886.90	353.18	4898.42	0.00	
17800.00	90.00	179.53	12850.01	-4986.90	354.01	4998.33	0.00	
17900.00	90.00	179.53	12850.01	-5086.90	354.83	5098.25	0.00	
18000.00	90.00	179.53	12850.01	-5186.89	355.65	5198.16	0.00	
18100.00	90.00	179.53	12850.01	-5286.89	356.47	5298.07	0.00	
18200.00	90.00	179.53	12850.01	-5386.89	357.29	5397.99	0.00	
18300.00	90.00	179.53	12850.01	-5486.88	358.11	5497.90	0.00	
18400.00	90.00	179.53	12850.01	-5586.88	358.93	5597.81	0.00	
18500.00	90.00	179.53	12850.01	-5686.88	359.75	5697.73	0.00	
18600.00	90.00	179.53	12850.01	-5786.87	360.57	5797.64	0.00	
18700.00	90.00	179.53	12850.01	-5886.87	361.39	5897.56	0.00	
18800.00	90.00	179.53	12850.01	-5986.87	362.21	5997.47	0.00	
18900.00	90.00	179.53	12850.01	-6086.86	363.03	6097.38	0.00	
19000.00	90.00	179.53	12850.01	-6186.86	363.85	6197.30	0.00	
19100.00	90.00	179.53	12850.01	-6286.86	364.67	6297.21	0.00	
19200.00	90.00	179.53	12850.01	-6386.85	365.49	6397.13	0.00	
19300.00	90.00	179.53	12850.01	-6486.85	366.31	6497.04	0.00	
19400.00	90.00	179.53	12850.01	-6586.85	367.13	6596.95	0.00	
19500.00	90.00	179.53	12850.01	-6686.84	367.95	6696.87	0.00	
19600.00	90.00	179.53	12850.01	-6786.84	368.78	6796.78	0.00	



Well: BOLL WEEVIL 27-34 FED COM 10H

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

Geodetic System: US State Plane 1983

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

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19700.00	90.00	179.53	12850.01	-6886.84	369.60	6896.70	0.00	
19800.00	90.00	179.53	12850.01	-6986.83	370.42	6996.61	0.00	
19900.00	90.00	179.53	12850.01	-7086.83	371.24	7096.52	0.00	
20000.00	90.00	179.53	12850.01	-7186.83	372.06	7196.44	0.00	
20100.00	90.00	179.53	12850.01	-7286.82	372.88	7296.35	0.00	
20200.00	90.00	179.53	12850.01	-7386.82	373.70	7396.26	0.00	
20268.69	90.00	179.53	12850.01	-7455.51	374.26	7464.90	0.00	exit
20300.00	90.00	179.53	12850.01	-7486.82	374.52	7496.18	0.00	
20248 60	90.00	170 52	12850.00	7525 51	274 00	75// 92	0.00	RLII

Issued on: 24 Oct. 2022 by Logan Van Gorp



Connection Data Sheet

	•				
OD	Weight (lb/ft)	Wall Th.	Grade	API Drift:	Connection
5 1/2 in.	Nominal: 20.00 Plain End: 19.83	0.361 in.	P110 EC	4.653 in.	VAM® SPRINT-TC SC

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

CONNECTION PROPERTIES		
Connection Type		T&C
Connection OD (nom):	5.900	in.
Connection ID (nom):	4.829	in.
Make-Up Loss	3.972	in.
Coupling Length	8.753	in.
Critical Cross Section	5.828	sqin.
Tension Efficiency	100.0	% of pipe
Compression Efficiency	100.0	% of pipe
Internal Pressure Efficiency	100.0	% of pipe
External Pressure Efficiency	100.0	% of pipe

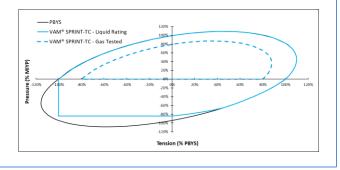
CONNECTION PERFORMANCES	5	
Tensile Yield Strength	729	klb
Compression Resistance	729	klb
Internal Yield Pressure	14,360	psi
Collapse Resistance	12,080	psi
Max. Structural Bending	104	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft
Max. Load on Coupling Face	290	klb

TORQUE VALUES							
Min. Make-up torque	23,000	ft.lb					
Opt. Make-up torque	24,000	ft.lb					
Max. Make-up torque	25,000	ft.lb					
Max. Torque with Sealability (MTS)	39,200	ft.lb					
Min. Locked Flank Torque	1,200	ft.lb					
Max. Locked Flank Torque	16,800	ft.lb					

* 87.5% RBW

Thread compound must be applied as a thin even layer

VAM® SPRINT-TC is a threaded and coupled connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections.



Do you need help on this product? - Remember no one knows VAM^{\otimes} like VAM^{\otimes}

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

uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com

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

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





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

Sundry Print Report

Well Name: BOLL WEEVIL 27-34 FED Well Location: T26S / R34E / SEC 27 / County or Parish/State: LEA /

COM NWNE / 32.021 / -103.455

Well Number: 10H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM100569 Unit or CA Name: Unit or CA Number:

US Well Number: 3002547957 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

LONG VO Digitally signed by LONG VO Date: 2024.05.09 12:41:34 -05'00'

Notice of Intent

Sundry ID: 2787634

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/30/2024 Time Sundry Submitted: 10:57

Date proposed operation will begin: 07/01/2024

Procedure Description: Engineering Only - Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Casing program change to slim hole design: Surface, Intermediate, and Production Casing size changes. Cement volume changes to accommodate casing change. Offline cement variance request. Please see attached revised drilling & directional plans and supporting documentation.

NOI Attachments

Procedure Description

BOLL_WEEVIL_27_34_FED_COM_10H_Slim_Hole_20240430105422.pdf

7_625_29_7lb_P110HSCY_MOFXL_20240430105422.pdf

9.625_40lb_J_55_20240430105422.pdf

 $BOLL_WEEVIL_27_34_FED_COM_10H_Directional_Plan_04_22_24_20240430105422.pdf$

5.5_20lb_P110EC_VAM_SPRINT_TC_SC_20240430105422.pdf

eived by OCD: 5/13/2024 3:24:12 AM Well Name: BOLL WEEVIL 27-34 FED Well Location: T26S / R34E / SEC 27 / COM

NWNE / 32.021 / -103.455

County or Parish/State: Page 20 of

Well Number: 10H Type of Well: OIL WELL **Allottee or Tribe Name:**

Unit or CA Number: Lease Number: NMNM100569 **Unit or CA Name:**

US Well Number: 3002547957 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Operator

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

Signed on: APR 30, 2024 10:54 AM **Operator Electronic Signature: REBECCA DEAL**

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

Devon Energy Production Company LP OPERATOR'S NAME:

NMNM100569 LEASE NO.:

Section 27, T.26 S., R.34 E., NMPM **LOCATION: COUNTY:** •

Lea County, New Mexico

WELL NAME & NO.: Boll Weevil 27-34 Fed Com 10H

SURFACE HOLE FOOTAGE: 225'/N & 1754'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1440'/E ATS/API ID: 3002547957

APD ID: 10400047160 **Sundry ID:** 2787634

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Wolfcamp** 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 1055 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

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 7980' (703 sxs Class H/C+ additives).
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 650 sxs Class C)
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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

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

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

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

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

C. PRESSURE CONTROL

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

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 7-5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 9-5/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Offline Cementing

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

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

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

GENERAL REQUIREMENTS

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

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report when present.
- A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Long Vo (LVO) 5/9/2024

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED)
OMB No. 1004-0137	7
Expires: October 31, 20)2

DEPARTMENT	OF THE INTERIOR			LAL	ones. October 51, 2021	
BUREAU OF LA	AND MANAGEMENT	•		5. Lease Serial No. N	IMNM100569	
SUNDRY NOTICES A				6. If Indian, Allottee o	or Tribe Name	
Do not use this form for pr abandoned well. Use Form						
SUBMIT IN TRIPLICATE	7. If Unit of CA/Agree	ement, Name and/or No.				
1. Type of Well	7			8. Well Name and No.		
Oil Well Gas Well	Other			O ADI Wali No	BOLL WEEVIL 27-34 FED COM/10h	
2. Name of Operator DEVON ENERGY PRODUCT				9. API Well No. 3002		
3a. Address 333 WEST SHERIDAN AVE, OKLAH CITY, OK 73102	(405) 235-36	. (include area code 611	e) 	10. Field and Pool or Exploratory Area WC-025 G-08 S263412K/BONE SPRING		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey SEC 27/T26S/R34E/NMP	Description)			11. Country or Parish, LEA/NM	State	
12. CHECK THE APPR	COPRIATE BOX(ES) TO IN	DICATE NATURE	E OF NOTI	CE, REPORT OR OTH	HER DATA	
TYPE OF SUBMISSION		TY	PE OF ACT	ΓΙΟΝ		
Notice of Intent Acidiz	=	pen raulic Fracturing	=	uction (Start/Resume)	Water Shut-Off Well Integrity	
Subsequent Report Casing	Repair New	Construction	Reco	mplete	Other	
Change		g and Abandon		oorarily Abandon		
Final Abandonment Notice Convertible Tonvertible Proposed or Completed Operation: Clear		g Back		r Disposal		
is ready for final inspection.) Engineering Only - Devon Energy Production change to slim hole design: Surface, Intermoffline cement variance request. Please see	ediate, and Production Ca e attached revised drilling	sing size change	s. Cement	volume changes to	accommodate casing change.	
14. I hereby certify that the foregoing is true and correct REBECCA DEAL / Ph: (303) 299-1406	et. Name (Printed/Typed)	Regulator Title	y Analyst			
Signature (Electronic Submission)				04/30/2	024	
TH	IE SPACE FOR FED	ERAL OR ST	ATE OF	ICE USE		
Approved by						
		Title]	Date	
Conditions of approval, if any, are attached. Approval certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations	those rights in the subject l		RLSBAD			
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section any false, fictitious or fraudulent statements or representations.			ly and will	fully to make to any de	epartment or agency of the United States	

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWNE / 225 FNL / 1754 FEL / TWSP: 26S / RANGE: 34E / SECTION: 27 / LAT: 32.021 / LONG: -103.455 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 100 FNL / 1440 FEL / TWSP: 26S / RANGE: 34E / SECTION: 27 / LAT: 32.0214 / LONG: -103.4539 (TVD: 12620 feet, MD: 12673 feet) BHL: SWSE / 20 FSL / 1440 FEL / TWSP: 26S / RANGE: 34E / SECTION: 34 / LAT: 32.005 / LONG: -103.454 (TVD: 12850 feet, MD: 20268 feet)



BOLL WEEVIL 27-34 FED COM 10H

1. Geologic Formations

TVD of target	12850	Pilot hole depth	N/A
MD at TD:	20349	Deepest expected fresh water	

Basin

Dasin	Depth	Water/Mineral	
TD 4*			TT 1 4
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	860		
Salt	1200		
Base of Salt	5070		
Delaware	5330		
Cherry Canyon	6375		
Brushy Canyon	7980		
Bone Spring 1st	10590		
Bone Spring 2nd	11140		
Bone Spring 3rd	12200		
Wolfcamp	12620		

^{*}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	ВТС	0	1055	0	1055
8 3/4	7 5/8	29.7	P110HSCY	MOFXL	0	12000	0	12000
6 3/4	5 1/2	20	P110	Sprint-TC SC	0	20349	0	12850

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

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	497	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	312	Surf	9	3.27	Lead: Class C Cement + additives
IIIt 1	391	7980	13.2	1.44	Tail: Class H / C + additives
Int 1	650	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	312	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	391	7980	13.2	1.44	Tail: Class H / C + additives
Production	62	10306	9	3.27	Lead: Class H /C + additives
Floduction	513	12306	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:																																	
			Anı	nular	X	50% of rated working pressure																																	
Int 1	13-5/8"	5M	Bline	d Ram	X																																		
III. I	13-3/6	JIVI	Pipe	Ram		5M																																	
			Doub	le Ram	X	J1V1																																	
			Other*																																				
	13-5/8"			Annul	ar (5M)	X	100% of rated working pressure																																
Production		10M	Blind Ram		X																																		
Floduction		13-3/6	13-3/6	TOM	TOM	13-3/8 10W	10101	TOWI	10101	TOWI	TOWI	TOWI	10101	10111	10101	10101	10101	10111	1011	10101	10101	TOWI	10111	10111	10111	10111	TOWI	TOWI	TOWL	1011	10111	1011	10141	1011	10141	Pipe	Ram		10M
							Doub	le Ram	X	10101																													
			Other*																																				
			Annular (5M)																																				
			Blind Ram																																				
			Pipe Ram																																				
			Double Ram]																																	
			Other*																																				
N A variance is requested for the use of a diverter on the surface casing. See attached for schematic.																																							
Y 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	7016
Abnormal temperature	No

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

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

BOLL WEEVIL 27-34 FED COM 10H

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attach	ments
X	Directional Plan
	Other, describe

	MO-FXL			MO-FXL 7-5/8 29.7							
	MO-I XL		CDS#	P110HSCY							
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110HSC	Y MinYS125ksi	OBO	MinYS125ksi Min95%WT							
	Min95%WT	Min95%WT									
	Connection Data	a Sheet	Date	20-Se	p-23						
	Coometry										
	Geometry	<u>Imperia</u>	<u>I</u>	<u>S.I.</u>							
	Pipe Body										
	Grade *	P110HSCY		P110HSCY							
	Pipe OD (D)	7 5/8	in	193.68	mm						
MO-FXL	Weight	29.70	lb/ft	44.25	kg/m						
	Actual weight	29.04		43.26	kg/m						
	Wall Thickness (t)	0.375	in	9.53	mm						
	Pipe ID(d)	6.875	in	174.63	mm						
	Pipe body cross section	8.541	in ²	5,510	mm ²						
	Drift Dia.	6.750	in	171.45	mm						
	Connection										
A [2]	Box OD (W)	7.625	in	193.68	mm						
	PIN ID	6.875	in	174.63	mm mm						
	Make up Loss	4.219	in	107.16	mm						
Box	Box Critical Area	5.714	in ²	3686	mm ²						
area	Joint load efficiency	70	m %	70	mm %						
	Thread Taper	1 / 10 (1.2" per ft)									
	Number of Threads 5 TPI										
← d											
Make											
up											
loss D	Performance Perfor										
.555	Performance										
		or Pipe Body									
Pin	Performance Properties 1 S.M.Y.S. *1	for Pipe Body	kips	4,749	kN						
	Performance Properties 1		kips psi	4,749 80.55	kN MPa						
Pin	Performance Properties 1	1,068		,							
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1	1,068 11,680 7,200	psi psi	80.55 49.66	MPa MPa						
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Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110Hs for Connectio 747 kips 747 kips	psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 80%	80.55 49.66 ngth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of M.I.Y.P.)	MPa MPa dy						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110Hs for Connectio 747 kips 747 kips	psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 80%	80.55 49.66 ngth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110Hs for Connectio 747 kips 747 kips	psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 80%	80.55 49.66 ngth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft)	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110Hs for Connectio 747 kips 747 kips	psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 80%	80.55 49.66 ngth of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110H5 for Connectio 747 kips 747 kips 9,340 psi (psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 100% (80.55 49.66 ngth of Pipe body re of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St	MPa MPa dy						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110H5 for Connectio 747 kips 747 kips 9,340 psi (psi psi LD Stre I Pressu lapse Str SCY Rev (70% (70% 100% (3	80.55 49.66 ngth of Pipe body re of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	MPa MPa dy 3 rength						
Pin	Performance Properties 1 S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specifi M.I.Y.P. = Minim *BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col " 29.7lb/ft P110HS for Connectio 747 kips 747 kips 9,340 psi (psi psi psi LD Stre I Pressu lapse Str SCY Rev 70% 70% 100% 3	80.55 49.66 ngth of Pipe body re of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse St 0	MPa MPa dy 3 rength N-m N-m						
Pin	Performance Properties for S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specific M.I.Y.P. = Minimity *1 Minimit	1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Col " 29.7lb/ft P110HS for Connectio 747 kips 747 kips 9,340 psi (15,500 17,200 18,900 23,600	psi psi psi ID Stre I Pressu lapse Str (70% 80% 100% (3 ft-lb ft-lb ft-lb ft-lb	80.55 49.66 ngth of Pipe body re of Pipe body ength 7,200psi 3, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of S.M.Y.S.) of Collapse St 0 21,000 23,300 25,600 32,000	MPa						

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Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/ images/top/WebsiteTerms Active 20333287 1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.



U. S. Steel Tubular Products 9.625" 40.00lbs/ft (0.395" Wall) J55

1/24/2019 2:45:24 PM

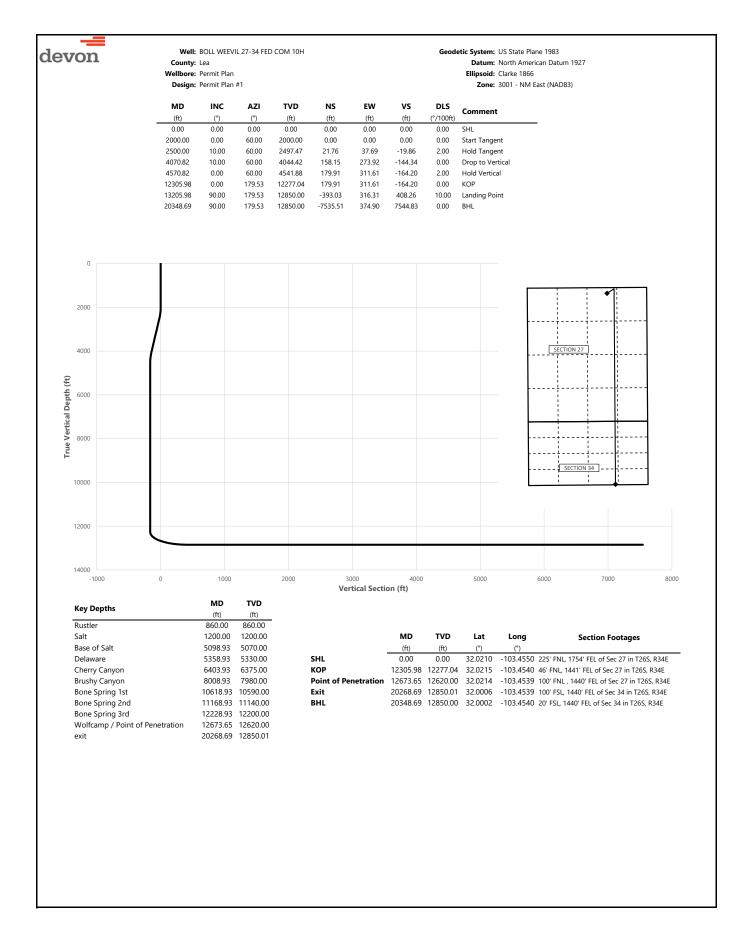
MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	55,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	75,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	9.625	10.625	10.625	10.625	in.
Wall Thickness	0.395				in.
Inside Diameter	8.835	8.835	8.835	8.835	in.
Standard Drift	8.679	8.679	8.679	8.679	in.
Alternate Drift	8.750	8.750	8.750	8.750	in.
Nominal Linear Weight, T&C	40.00				lbs/ft
Plain End Weight	38.97				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	2,570	2,570	2,570	2,570	psi
Minimum Internal Yield Pressure	3,950	3,950	3,950	3,950	psi
Minimum Pipe Body Yield Strength	630				1,000 lbs
Joint Strength		714	520	452	1,000 lbs
Reference Length		11,898	8,665	7,529	ft
MAKE-UP DATA	Pipe	втс	LTC	STC	
Make-Up Loss		4.81	4.75	3.38	in.
Minimum Make-Up Torque			3,900	3,390	ft-lbs
Maximum Make-Up Torque			6,500	5,650	ft-lbs

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

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





Well: BOLL WEEVIL 27-34 FED COM 10H Geodetic System: US State Plane 1983
County: Lea Datum: North American Datu

Wellbore: Permit Plan

Design: Permit Plan #1

Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)

		Permit Plan						Zone: 3001 - NM East (NAD83)
	Design.	T CITITIC T IGI						Zone. 3001 1444 East (14AB03)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(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	60.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	60.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	60.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	60.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	60.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	60.00	600.00	0.00	0.00	0.00	0.00	
700.00 800.00	0.00	60.00	700.00 800.00	0.00	0.00	0.00	0.00	
860.00	0.00	60.00 60.00	860.00	0.00	0.00	0.00	0.00	Rustler
900.00	0.00	60.00	900.00	0.00	0.00	0.00	0.00	KUSUEI
1000.00	0.00	60.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	60.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	60.00	1200.00	0.00	0.00	0.00	0.00	Salt,
1300.00	0.00	60.00	1300.00	0.00	0.00	0.00	0.00	·
1400.00	0.00	60.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	60.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	60.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	60.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	60.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	60.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	60.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	60.00	2099.98	0.87	1.51	-0.80	2.00	
2200.00	4.00	60.00	2199.84	3.49	6.04	-3.18	2.00	
2300.00	6.00	60.00	2299.45	7.85	13.59	-7.16	2.00	
2400.00	8.00	60.00	2398.70	13.94	24.14	-12.72	2.00	
2500.00	10.00	60.00	2497.47	21.76	37.69	-19.86	2.00	Hold Tangent
2600.00	10.00	60.00	2595.95	30.44	52.73	-27.79	0.00	
2700.00	10.00	60.00	2694.43	39.13	67.77	-35.71	0.00	
2800.00 2900.00	10.00	60.00	2792.91 2891.39	47.81	82.81	-43.63 -51.56	0.00	
3000.00	10.00 10.00	60.00 60.00	2989.87	56.49 65.17	97.85 112.88	-51.56	0.00	
3100.00	10.00	60.00	3088.35	73.86	127.92	-67.41	0.00	
3200.00	10.00	60.00	3186.83	82.54	142.96	-75.33	0.00	
3300.00	10.00	60.00	3285.31	91.22	158.00	-83.26	0.00	
3400.00	10.00	60.00	3383.79	99.90	173.04	-91.18	0.00	
3500.00	10.00	60.00	3482.27	108.59	188.08	-99.11	0.00	
3600.00	10.00	60.00	3580.75	117.27	203.11	-107.03	0.00	
3700.00	10.00	60.00	3679.23	125.95	218.15	-114.95	0.00	
3800.00	10.00	60.00	3777.72	134.63	233.19	-122.88	0.00	
3900.00	10.00	60.00	3876.20	143.32	248.23	-130.80	0.00	
4000.00	10.00	60.00	3974.68	152.00	263.27	-138.73	0.00	
4070.82	10.00	60.00	4044.42	158.15	273.92	-144.34	0.00	Drop to Vertical
4100.00	9.42	60.00	4073.18	160.61	278.18	-146.59	2.00	
4200.00	7.42	60.00	4172.10	167.92	290.85	-153.26	2.00	
4300.00	5.42	60.00	4271.47	173.51	300.53	-158.36	2.00	
4400.00	3.42	60.00	4371.17	177.36	307.20	-161.88	2.00	
4500.00	1.42	60.00	4471.07	179.47	310.85	-163.80	2.00	11 LIV 2 L
4570.82	0.00	60.00	4541.88	179.91	311.61	-164.20	2.00	Hold Vertical
4600.00	0.00	179.53	4571.07	179.91	311.61	-164.20	0.00	
4700.00	0.00	179.53	4671.07	179.91	311.61	-164.20	0.00	
4800.00 4900.00	0.00	179.53 179.53	4771.07 4871.07	179.91 179.91	311.61 311.61	-164.20 -164.20	0.00	
5000.00	0.00	179.53	4971.07	179.91	311.61	-164.20	0.00	
5098.93	0.00	179.53	5070.00	179.91	311.61	-164.20	0.00	Base of Salt
5100.00	0.00	179.53	5070.00	179.91	311.61	-164.20	0.00	5450 5. 5410
5200.00	0.00	179.53	5171.07	179.91	311.61	-164.20	0.00	
5300.00	0.00	179.53	5271.07	179.91	311.61	-164.20	0.00	
5358.93	0.00	179.53	5330.00	179.91	311.61	-164.20	0.00	Delaware
5400.00	0.00	179.53	5371.07	179.91	311.61	-164.20	0.00	
5500.00	0.00	179.53	5471.07	179.91	311.61	-164.20	0.00	
5600.00	0.00	179.53	5571.07	179.91	311.61	-164.20	0.00	
5700.00	0.00	179.53	5671.07	179.91	311.61	-164.20	0.00	
5800.00	0.00	179.53	5771.07	179.91	311.61	-164.20	0.00	
5900.00	0.00	179.53	5871.07	179.91	311.61	-164.20	0.00	
6000.00	0.00	179.53	5971.07	179.91	311.61	-164.20	0.00	
6100.00	0.00	179.53	6071.07	179.91	311.61	-164.20	0.00	
6200.00	0.00	179.53	6171.07	179.91	311.61	-164.20	0.00	
6300.00	0.00	179.53	6271.07	179.91	311.61	-164.20	0.00	
6400.00	0.00	179.53	6371.07	179.91	311.61	-164.20	0.00	



Well: BOLL WEEVIL 27-34 FED COM 10H

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

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
5403.93	0.00	179.53	6375.00	179.91	311.61	-164.20	0.00	Cherry Canyon
5500.00	0.00	179.53	6471.07	179.91	311.61	-164.20	0.00	cherry carryon
5600.00	0.00	179.53	6571.07		311.61	-164.20	0.00	
				179.91				
5700.00	0.00	179.53	6671.07	179.91	311.61	-164.20	0.00	
5800.00	0.00	179.53	6771.07	179.91	311.61	-164.20	0.00	
5900.00	0.00	179.53	6871.07	179.91	311.61	-164.20	0.00	
7000.00	0.00	179.53	6971.07	179.91	311.61	-164.20	0.00	
7100.00	0.00	179.53	7071.07	179.91	311.61	-164.20	0.00	
7200.00	0.00	179.53	7171.07	179.91	311.61	-164.20	0.00	
7300.00	0.00	179.53	7271.07	179.91	311.61	-164.20	0.00	
7400.00	0.00	179.53	7371.07	179.91	311.61	-164.20	0.00	
7500.00	0.00	179.53	7471.07	179.91	311.61	-164.20	0.00	
7600.00	0.00	179.53	7571.07	179.91	311.61	-164.20	0.00	
7700.00	0.00	179.53	7671.07	179.91		-164.20	0.00	
					311.61			
7800.00	0.00	179.53	7771.07	179.91	311.61	-164.20	0.00	
7900.00	0.00	179.53	7871.07	179.91	311.61	-164.20	0.00	
3000.00	0.00	179.53	7971.07	179.91	311.61	-164.20	0.00	
3008.93	0.00	179.53	7980.00	179.91	311.61	-164.20	0.00	Brushy Canyon
100.00	0.00	179.53	8071.07	179.91	311.61	-164.20	0.00	
3200.00	0.00	179.53	8171.07	179.91	311.61	-164.20	0.00	
300.00	0.00	179.53	8271.07	179.91	311.61	-164.20	0.00	
3400.00	0.00	179.53	8371.07	179.91	311.61	-164.20	0.00	
3500.00	0.00	179.53	8471.07	179.91	311.61	-164.20	0.00	
3600.00	0.00	179.53	8571.07	179.91	311.61	-164.20	0.00	
3700.00	0.00	179.53	8671.07	179.91	311.61	-164.20	0.00	
3800.00		179.53	8771.07	179.91		-164.20 -164.20		
	0.00				311.61		0.00	
3900.00	0.00	179.53	8871.07	179.91	311.61	-164.20	0.00	
00.000	0.00	179.53	8971.07	179.91	311.61	-164.20	0.00	
9100.00	0.00	179.53	9071.07	179.91	311.61	-164.20	0.00	
9200.00	0.00	179.53	9171.07	179.91	311.61	-164.20	0.00	
9300.00	0.00	179.53	9271.07	179.91	311.61	-164.20	0.00	
9400.00	0.00	179.53	9371.07	179.91	311.61	-164.20	0.00	
9500.00	0.00	179.53	9471.07	179.91	311.61	-164.20	0.00	
9600.00	0.00	179.53	9571.07	179.91	311.61	-164.20	0.00	
9700.00	0.00	179.53	9671.07	179.91	311.61	-164.20	0.00	
9800.00	0.00	179.53	9771.07	179.91	311.61	-164.20	0.00	
9900.00	0.00	179.53	9871.07	179.91	311.61	-164.20	0.00	
0000.00	0.00	179.53	9971.07	179.91	311.61	-164.20	0.00	
0100.00	0.00	179.53	10071.07	179.91	311.61	-164.20	0.00	
0200.00	0.00	179.53	10171.07	179.91	311.61	-164.20	0.00	
0300.00								
	0.00	179.53	10271.07	179.91	311.61	-164.20	0.00	
0400.00	0.00	179.53	10371.07	179.91	311.61	-164.20	0.00	
0500.00	0.00	179.53	10471.07	179.91	311.61	-164.20	0.00	
0600.00	0.00	179.53	10571.07	179.91	311.61	-164.20	0.00	
0618.93	0.00	179.53	10590.00	179.91	311.61	-164.20	0.00	Bone Spring 1st
0700.00	0.00	179.53	10671.07	179.91	311.61	-164.20	0.00	
00.0080	0.00	179.53	10771.07	179.91	311.61	-164.20	0.00	
0900.00	0.00	179.53	10871.07	179.91	311.61	-164.20	0.00	
1000.00	0.00	179.53	10971.07	179.91	311.61	-164.20	0.00	
1100.00	0.00	179.53	11071.07	179.91	311.61	-164.20	0.00	
1168.93	0.00	179.53	11140.00	179.91	311.61	-164.20	0.00	Bone Spring 2nd
1200.00	0.00	179.53	11171.07	179.91	311.61	-164.20	0.00	r J
1300.00	0.00	179.53	11271.07	179.91	311.61	-164.20	0.00	
1400.00	0.00	179.53	11371.07	179.91		-164.20	0.00	
					311.61			
1500.00	0.00	179.53	11471.07	179.91	311.61	-164.20	0.00	
1600.00	0.00	179.53	11571.07	179.91	311.61	-164.20	0.00	
1700.00	0.00	179.53	11671.07	179.91	311.61	-164.20	0.00	
1800.00	0.00	179.53	11771.07	179.91	311.61	-164.20	0.00	
1900.00	0.00	179.53	11871.07	179.91	311.61	-164.20	0.00	
2000.00	0.00	179.53	11971.07	179.91	311.61	-164.20	0.00	
2100.00	0.00	179.53	12071.07	179.91	311.61	-164.20	0.00	
2200.00	0.00	179.53	12171.07	179.91	311.61	-164.20	0.00	
2228.93	0.00	179.53	12200.00	179.91	311.61	-164.20	0.00	Bone Spring 3rd
2300.00	0.00	179.53	12271.07	179.91	311.61	-164.20	0.00	r J.
2305.98	0.00	179.53	12277.04	179.91	311.61	-164.20	0.00	KOP
2400.00	9.40	179.53	12370.65	179.91	311.67	-156.51	10.00	No.
2500.00	19.40	179.53	12467.38	147.37	311.88	-131.69	10.00	
2600.00	29.40	179.53	12558.33	106.11	312.21	-90.46	10.00	Welfer and (Delated Delated)
2673.65	36.77	179.53	12620.00	65.93	312.54	-50.32	10.00	Wolfcamp / Point of Penetration
2700.00	39.40	179.53	12640.73	49.68	312.68	-34.08	10.00	



Well: BOLL WEEVIL 27-34 FED COM 10H

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

Geodetic System: US State Plane 1983

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

	Design:	Permit Plan	n #1				Zone: 3001 - NM East (NAD83)			
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment		
12800.00	49.40	179.53	12712.09	-20.20	313.25	35.74	10.00			
12900.00	59.40	179.53	12770.22	-101.40	313.92	116.88	10.00			
13000.00	69.40	179.53	12813.37	-191.47	314.66	206.87	10.00			
13100.00	79.40	179.53	12840.23	-287.66	315.45	302.98	10.00			
13200.00	89.40	179.53 179.53	12849.97	-387.06 -393.03	316.26	402.29	10.00	Landing Point		
13205.98 13300.00	90.00 90.00	179.53	12850.00 12850.00	-393.03 -487.05	316.31 317.08	408.26 502.21	10.00 0.00	Landing Point		
13400.00	90.00	179.53	12850.00	-587.05	317.90	602.12	0.00			
13500.00	90.00	179.53	12850.00	-687.05	318.72	702.03	0.00			
13600.00	90.00	179.53	12850.00	-787.04	319.54	801.95	0.00			
13700.00	90.00	179.53	12850.00	-887.04	320.36	901.86	0.00			
13800.00	90.00	179.53	12850.00	-987.04	321.18	1001.78	0.00			
13900.00	90.00	179.53	12850.00	-1087.03	322.00	1101.69	0.00			
14000.00	90.00	179.53	12850.00	-1187.03	322.82	1201.60	0.00			
14100.00 14200.00	90.00 90.00	179.53 179.53	12850.00 12850.00	-1287.03 -1387.02	323.64 324.47	1301.52 1401.43	0.00			
14300.00	90.00	179.53	12850.00	-1487.02	325.29	1501.35	0.00			
14400.00	90.00	179.53	12850.00	-1587.02	326.11	1601.26	0.00			
14500.00	90.00	179.53	12850.00		326.93	1701.17	0.00			
14600.00	90.00	179.53	12850.00	-1787.01	327.75	1801.09	0.00			
14700.00	90.00	179.53	12850.00	-1887.01	328.57	1901.00	0.00			
14800.00	90.00	179.53	12850.00	-1987.00	329.39	2000.92	0.00			
14900.00	90.00	179.53	12850.00	-2087.00	330.21	2100.83	0.00			
15000.00	90.00	179.53	12850.00	-2187.00	331.03	2200.74	0.00			
15100.00 15200.00	90.00 90.00	179.53 179.53	12850.00 12850.00	-2286.99 -2386.99	331.85 332.67	2300.66 2400.57	0.00			
15300.00	90.00	179.53	12850.00	-2486.99	333.49	2500.48	0.00			
15400.00	90.00	179.53	12850.00	-2586.98	334.31	2600.40	0.00			
15500.00	90.00	179.53	12850.00	-2686.98	335.13	2700.31	0.00			
15600.00	90.00	179.53	12850.00	-2786.98	335.95	2800.23	0.00			
15700.00	90.00	179.53	12850.00	-2886.97	336.77	2900.14	0.00			
15800.00	90.00	179.53	12850.00	-2986.97	337.59	3000.05	0.00			
15900.00	90.00	179.53	12850.00	-3086.97	338.41	3099.97	0.00			
16000.00 16100.00	90.00 90.00	179.53 179.53	12850.00 12850.00	-3186.96 -3286.96	339.24 340.06	3199.88 3299.80	0.00			
16200.00	90.00	179.53	12850.00	-3386.96	340.88	3399.71	0.00			
16300.00	90.00	179.53	12850.00	-3486.95	341.70	3499.62	0.00			
16400.00	90.00	179.53	12850.00	-3586.95	342.52	3599.54	0.00			
16500.00	90.00	179.53	12850.00	-3686.95	343.34	3699.45	0.00			
16600.00	90.00	179.53	12850.00	-3786.94	344.16	3799.37	0.00			
16700.00	90.00	179.53	12850.00	-3886.94	344.98	3899.28	0.00			
16800.00	90.00	179.53	12850.00	-3986.93	345.80	3999.19	0.00			
16900.00 17000.00	90.00 90.00	179.53 179.53	12850.00 12850.01	-4086.93 -4186.93	346.62 347.44	4099.11 4199.02	0.00			
17100.00	90.00	179.53	12850.01	-4286.92	348.26	4298.93	0.00			
17200.00	90.00	179.53	12850.01	-4386.92	349.08	4398.85	0.00			
17300.00	90.00	179.53	12850.01	-4486.92	349.90	4498.76	0.00			
17400.00	90.00	179.53	12850.01	-4586.91	350.72	4598.68	0.00			
17500.00	90.00	179.53	12850.01	-4686.91	351.54	4698.59	0.00			
17600.00	90.00	179.53	12850.01	-4786.91	352.36	4798.50	0.00			
17700.00 17800.00	90.00	179.53	12850.01	-4886.90	353.18	4898.42	0.00			
17800.00	90.00 90.00	179.53 179.53	12850.01 12850.01	-4986.90 -5086.90	354.01 354.83	4998.33 5098.25	0.00			
18000.00	90.00	179.53	12850.01	-5186.89	355.65	5198.16	0.00			
18100.00	90.00	179.53	12850.01	-5286.89	356.47	5298.07	0.00			
18200.00	90.00	179.53	12850.01	-5386.89	357.29	5397.99	0.00			
18300.00	90.00	179.53	12850.01	-5486.88	358.11	5497.90	0.00			
18400.00	90.00	179.53	12850.01	-5586.88	358.93	5597.81	0.00			
18500.00	90.00	179.53	12850.01	-5686.88	359.75	5697.73	0.00			
18600.00	90.00	179.53	12850.01	-5786.87	360.57	5797.64	0.00			
18700.00 18800.00	90.00 90.00	179.53 179.53	12850.01 12850.01	-5886.87 -5986.87	361.39 362.21	5897.56 5997.47	0.00			
18900.00	90.00	179.53	12850.01	-6086.86	363.03	6097.38	0.00			
19000.00	90.00	179.53	12850.01	-6186.86	363.85	6197.30	0.00			
19100.00	90.00	179.53	12850.01	-6286.86	364.67	6297.21	0.00			
19200.00	90.00	179.53	12850.01	-6386.85	365.49	6397.13	0.00			
19300.00	90.00	179.53	12850.01	-6486.85	366.31	6497.04	0.00			
19400.00	90.00	179.53	12850.01	-6586.85	367.13	6596.95	0.00			
19500.00	90.00	179.53	12850.01	-6686.84	367.95	6696.87	0.00			
19600.00	90.00	179.53	12850.01	-6786.84	368.78	6796.78	0.00			



Well: BOLL WEEVIL 27-34 FED COM 10H

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

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19700.00	90.00	179.53	12850.01	-6886.84	369.60	6896.70	0.00	
19800.00	90.00	179.53	12850.01	-6986.83	370.42	6996.61	0.00	
19900.00	90.00	179.53	12850.01	-7086.83	371.24	7096.52	0.00	
20000.00	90.00	179.53	12850.01	-7186.83	372.06	7196.44	0.00	
20100.00	90.00	179.53	12850.01	-7286.82	372.88	7296.35	0.00	
20200.00	90.00	179.53	12850.01	-7386.82	373.70	7396.26	0.00	
20268.69	90.00	179.53	12850.01	-7455.51	374.26	7464.90	0.00	exit
20300.00	90.00	179.53	12850.01	-7486.82	374.52	7496.18	0.00	
20348.69	90.00	179.53	12850.00	-7535.51	374.90	7544.83	0.00	BHL

Issued on: 24 Oct. 2022 by Logan Van Gorp



Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	API Drift:	Connection
5 1/2 in.	Nominal: 20.00 Plain End: 19.83	0.361 in.	P110 EC	4.653 in.	VAM® SPRINT-TC SC

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

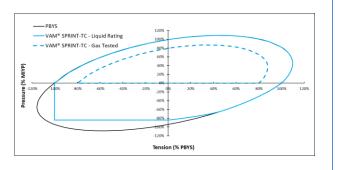
CONNECTION PROPERTIES		
Connection Type		T&C
Connection OD (nom):	5.900	in.
Connection ID (nom):	4.829	in.
Make-Up Loss	3.972	in.
Coupling Length	8.753	in.
Critical Cross Section	5.828	sqin.
Tension Efficiency	100.0	% of pipe
Compression Efficiency	100.0	% of pipe
Internal Pressure Efficiency	100.0	% of pipe
External Pressure Efficiency	100.0	% of pipe

CONNECTION PERFORMANCES	5	
Tensile Yield Strength	729	klb
Compression Resistance	729	klb
Internal Yield Pressure	14,360	psi
Collapse Resistance	12,080	psi
Max. Structural Bending	104	°/100ft
Max. Bending with ISO/API Sealability	30	°/100ft
Max. Load on Coupling Face	290	klb

TORQUE VALUES							
Min. Make-up torque	23,000	ft.lb					
Opt. Make-up torque	24,000	ft.lb					
Max. Make-up torque	25,000	ft.lb					
Max. Torque with Sealability (MTS)	39,200	ft.lb					
Min. Locked Flank Torque	1,200	ft.lb					
Max. Locked Flank Torque	16,800	ft.lb					

Thread compound must be applied as a thin even layer

VAM® SPRINT-TC is a threaded and coupled connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections.



Do you need help on this product? - Remember no one knows VAM^{\otimes} like VAM^{\otimes}

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





^{* 87.5%} RBW

Boll Weevil 27-34 Fed Com 10H

Segment	Jui	face csg in a	13 1/2	inch hole.		<u>Design</u> l	Factors			Surface		
	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weig
"A"	40.00		j 55	btc	14.93	5.21	0.6	1,055	8	1.01	9.84	42,20
"B"			•	btc				0				0
	w/8.4#	/g mud, 30min Sfc Csg Test	psig: 1.500	Tail Cmt	does not	circ to sfc.	Totals:	1,055				42,2
omparison of		linimum Required Cen						,				,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min D
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
13 1/2	0.4887	497	716	516	39	9.00	3905	5M				1.4
urst Frac Gradi	ient(s) for Segme	ent(s) A, B = , b All > 0).70, OK.									
··								·-·-·-				
7 5/8		ng inside the	9 5/8			Design I				Int 1	•	144
Segment	#/ft	Grade	440	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weig
"A"	29.70		p 110	mo-fxl	1.84	1.08	1.08	12,000	1	1.81	1.81	356,4
"B"								0				0
	w/8.4#	g mud, 30min Sfc Csg Test					Totals:	12,000				356,4
_		The cement v	olume(s) are intend	led to achieve a top of	0	ft from su	rface or a	1055				overlap
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min D
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
8 3/4	0.1005	703	1583	1214	30	10.50	4182	5M				0.5
D V Tool(s):			7980				sum of sx	Σ CuFt				Σ%exc
by stage % :		292	15				1353	2519				107
Tail cmt												
5 1/2		ng inside the	7 5/8			Design Fa				Prod 1		
5 1/2 Segment	#/ft	ng inside the Grade		Coupling	Body	Collapse	Burst	Length	B@s	а-В	a-C	
5 1/2 Segment "A"			75/8 p 110	Coupling vam sprint-tc sc	Body 2.49			20,349	B@s 2		a-C 2.89	406,9
5 1/2 Segment "A" "B"	#/ft				-	Collapse	Burst	20,349 0		а-В		406,9 0
5 1/2 Segment "A" "B" "C"	#/ft				-	Collapse	Burst	20,349 0 0		а-В		406,9 0 0
5 1/2 Segment "A" "B"	#/ft				-	Collapse	Burst	20,349 0		а-В		406,9 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00		p 110		-	Collapse	Burst	20,349 0 0		а-В		406,9 0 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade Jg mud, 30min Sfc Csg Test	p 110		-	Collapse	Burst 2.05 Totals:	20,349 0 0 0		а-В	2.89	406,9 0 0 0 406,9
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade Jg mud, 30min Sfc Csg Test	p 110	vam sprint-tc sc	2.49	Collapse 1.72	Burst 2.05 Totals:	20,349 0 0 0 0 20,349		а-В	2.89	406,9 0 0 0 406,9 overlap
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4#	Grade J/g mud, 30min Sfc Csg Test The cement v	p 110 p spsig: 2,827 volume(s) are intend	vam sprint-tc sc	2.49	Collapse 1.72	Burst 2.05 Totals:	20,349 0 0 0 20,349 200		а-В	2.89	406,9 0 0 406,9 overlap Min D
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4#	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage	p 110 p sig: 2,827 rolume(s) are intend 1 Stage	vam sprint-tc sc	2.49 11800 1 Stage	Collapse 1.72 ft from su Drilling	Burst 2.05 Totals: rface or a Calc	20,349 0 0 0 20,349 200 Req'd		а-В	2.89	0
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4# Annular Volume 0.0835	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 p 510 p	vam sprint-tc sc led to achieve a top of Min Cu Ft	2.49 11800 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 2.05 Totals: rface or a Calc	20,349 0 0 0 20,349 200 Req'd		а-В	2.89	406,9 0 0 406,9 overlap Min D Hole-C
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt	#/ft 20.00 w/8.4# Annular Volume 0.0835	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 p 5:psig: 2,827 rolume(s) are intend 1 Stage CuFt Cmt 941	vam sprint-tc sc led to achieve a top of Min Cu Ft	2.49 11800 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.05 Totals: rface or a Calc MASP	20,349 0 0 0 20,349 200 Req'd	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min E Hole-0
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3 3/4 Class 'C' tail cmt	#/ft 20.00 w/8.4# Annular Volume 0.0835 tyld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt 5x 575	p 110 p 510 p	led to achieve a top of Min Cu Ft 716	2.49 11800 1 Stage % Excess 32	ft from su Drilling Mud Wt 10.50	Burst 2.05 Totals: rface or a Calc MASP	20,349 0 0 0 20,349 200 Req'd BOPE	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min D Hole-C
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt #N/A 0 Segment	#/ft 20.00 w/8.4# Annular Volume 0.0835	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 p 5:psig: 2,827 rolume(s) are intend 1 Stage CuFt Cmt 941	led to achieve a top of Min Cu Ft 716 Coupling	2.49 11800 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.05 Totals: rface or a Calc MASP	20,349 0 0 0 20,349 200 Req'd BOPE	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min D Hole-C 0.4
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt #N/A 0 Segment "A"	#/ft 20.00 w/8.4# Annular Volume 0.0835 tyld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt 5x 575	p 110 p 5:psig: 2,827 rolume(s) are intend 1 Stage CuFt Cmt 941	vam sprint-tc sc led to achieve a top of Min Cu Ft 716 Coupling 0.00	2.49 11800 1 Stage % Excess 32	ft from su Drilling Mud Wt 10.50	Burst 2.05 Totals: rface or a Calc MASP	20,349 0 0 0 20,349 200 Req'd BOPE	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min E Hole-C 0.4
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt #N/A 0 Segment	#/ft 20.00 w/8.4# Annular Volume 0.0835 tyld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt 5x 575	p 110 p 5:psig: 2,827 rolume(s) are intend 1 Stage CuFt Cmt 941	led to achieve a top of Min Cu Ft 716 Coupling	2.49 11800 1 Stage % Excess 32	ft from su Drilling Mud Wt 10.50	Totals: Totals: rface or a Calc MASP	20,349 0 0 0 20,349 200 Req'd BOPE	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min E Hole-C 0.4
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt #N/A 0 Segment "A"	#/ft 20.00 w/8.4# Annular Volume 0.0835 t yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 575 Grade	p 110 p 110 p spsig: 2,827 volume(s) are intend 1 Stage CuFt Cmt 941 5 1/2	led to achieve a top of Min Cu Ft 716 Coupling 0.00 0.00	2.49 11800 1 Stage % Excess 32 #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: rface or a Calc MASP Factors Burst Totals:	20,349 0 0 20,349 200 Req'd BOPE Length 0 0	2	a-B 3.43	2.89	406,5 0 0 406,5 overlap Min E Hole-C 0.4
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 class 'C' tail cmt #N/A 0 Segment "A" "B"	#/ft 20.00 w/8.4# Annular Volume 0.08835 t yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 575 Grade	p 110 p 110 p spsig: 2,827 volume(s) are intend 1 Stage CuFt Cmt 941 5 1/2	vam sprint-tc sc led to achieve a top of Min Cu Ft 716 Coupling 0.00 0.00 his csg, TOC intended	2.49 11800 1 Stage % Excess 32 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Factors Burst Totals:	20,349 0 0 0 20,349 200 Req'd BOPE	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min E Hole-C 0.4 Weig 0 0 overlap
51/2 Segment "A" "B" "C" "D" Hole Size 63/4 Class 'C' tail cmt #N/A 0 Segment "A"	#/ft 20.00 w/8.4# Annular Volume 0.0835 t yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 575 Grade	p 110 p 110 p spsig: 2,827 volume(s) are intend 1 Stage CuFt Cmt 941 5 1/2	led to achieve a top of Min Cu Ft 716 Coupling 0.00 0.00	2.49 11800 1 Stage % Excess 32 #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: rface or a Calc MASP Factors Burst Totals:	20,349 0 0 20,349 200 Req'd BOPE Length 0 0	2	a-B 3.43	2.89	406,9 0 0 406,9 overlap Min D Hole-C 0.43
51/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cmt #N/A 0 Segment "A" "B"	#/ft 20.00 w/8.4# Annular Volume 0.08835 t yld > 1.35	Grade //g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 575 Grade	p 110 p 110 p p 110 p p p p p p p p p p p p p p p p p p p	vam sprint-tc sc led to achieve a top of Min Cu Ft 716 Coupling 0.00 0.00 his csg, TOC intended	2.49 11800 1 Stage % Excess 32 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Factors Burst Totals:	20,349 0 0 20,349 200 Req'd BOPE Length 0 0 4N/A	2	a-B 3.43	2.89	406,S 0 0 406,S overlap Min E Hole-C 0.4

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

CONDITIONS

Action 343354

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	343354
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY.	6/15/2024