Sundry Print Reports

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

Well Name: Jayhawk 6-7 Fed Well Location: T26S / R34E / SEC 18 / County or Parish/State: LEA /

NENW / 32.0500634 / -103.5125655

Well Number: 16H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM114992 Unit or CA Name: Unit or CA Number:

US Well Number: 3002547705 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2748988

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/31/2023 Time Sundry Submitted: 01:24

Date proposed operation will begin: 08/31/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Name Change from Fighting Orka 18-19 Fed 16H to Jayhawk 6-7 Fed 16H BHL change from 20 FSL & 330 FWL, 19-26S-34E to 20 FNL & 500 FWL, 6-26S-34E. New leases have been added since approved APD and notification has been given. Pool Code change from Wildcat; Lower Wolfcamp Oil to 97347 WC-025 G-10 S263418C;LWR WOLFCAMP Dedicated acreage change from 320 acs to 640 acs. TVD/MD change from 13506'/23858' to 13450'/24023' Casing program change: Surface, Intermediate, and Production Casing size changes. Cement volume changes to accommodate casing change. Please see attached revised C-102 and drilling & directional plans.

NOI Attachments

Procedure Description

JAYHAWK_6_7_FEDERAL_16H_C_102_BHL_NOI_20230831132228.pdf

10.750_40.50lb_H40_20230831132226.pdf

JAYHAWK_6_7_FED_16H_Directional_Plan_08_31_23_20230831132225.pdf

8.625_32lb_P110EC_SPRINT_FJ_VST_20230831132226.pdf

5.5_17lb_P110RY_DWC_C_20230831132225.pdf

JAYHAWK_6_7_FED_16H_20230831132225.pdf

Well Location: T26S / R34E / SEC 18 /

NENW / 32.0500634 / -103.5125655

County or Parish/State: LEA/ 2 of

Well Number: 16H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM114992

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002547705

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Jayhawk 6 7 Fed 16H Sundry ID 2748988 20230919074103.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: AUG 31, 2023 01:22 PM

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: 5752345972 BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved Disposition Date: 09/19/2023

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

AGEMENT	Lease Serial
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SUNDRY NOTICES AND REPORTS OF Do not use this form for proposals to drill of abandoned well. Use Form 3160-3 (APD) for	r to re-e	nter an	-	6. If Indian, Allottee or Tribe Name				
SUBMIT IN TRIPLICATE - Other instructions on	page 2			7. If Unit of CA/Agreer	nent,	Name and/or No.		
1. Type of Well								
Oil Well Gas Well Other				8. Well Name and No.				
2. Name of Operator				9. API Well No.				
3a. Address 3b. Phone	No. (includ	e area code)		10. Field and Pool or E	xplora	atory Area		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)				11. Country or Parish, S	State			
12. CHECK THE APPROPRIATE BOX(ES) TO	INDICATI	E NATURE OF	NOTIO	CE, REPORT OR OTH	ER D	ATA		
TYPE OF SUBMISSION		ТҮРЕ О	F ACT	TION				
Acidize I	Deepen		Produ	action (Start/Resume)		Water Shut-Off		
Notice of Intent \square	Hydraulic Fi	racturing	:	ımation		Well Integrity		
Coging Pensir	New Constri	· =		mplete		Other		
Subsequent Report	Plug and Ab		:	orarily Abandon				
	Plug Back			r Disposal				
3. Describe Proposed or Completed Operation: Clearly state all pertinent deta the proposal is to deepen directionally or recomplete horizontally, give substitute Bond under which the work will be perfonned or provide the Bond No. completion of the involved operations. If the operation results in a multiple completed. Final Abandonment Notices must be filed only after all requirer is ready for final inspection.) 4. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	surface loca on file with completion nents, inclu-	tions and measu BLM/BIA. Rec or recompletion	red and quired a n in a r	d true vertical depths of subsequent reports must new interval, a Form 310	f all pe t be fil 60-4 n	ertinent markers and zones. Attach led within 30 days following nust be filed once testing has been		
	Title							
Signature	Date							
THE SPACE FOR F	EDERAL	OR STATE	OF	ICE USE				
Approved by								
		T:41 -		7.	-4-			
	+	Title		D	ate			
Conditions of approval, if any, are attached. Approval of this notice does not watertify that the applicant holds legal or equitable title to those rights in the subjective would entitle the applicant to conduct operations thereon.		Office						
Fitle 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime finy false, fictitious or fraudulent statements or representations as to any matter			d willf	fully to make to any dep	artme	ent 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, 3162.3-4.

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: NENW / 230 FNL / 1540 FWL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0500634 / LONG: -103.5125655 (TVD: 0 feet, MD: 0 feet) PPP: LOT 1 / 100 FNL / 330 FWL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0504181 / LONG: -103.5164701 (TVD: 13208 feet, MD: 13293 feet) BHL: LOT 4 / 20 FSL / 330 FWL / TWSP: 26S / RANGE: 34E / SECTION: 19 / LAT: 32.0217085 / LONG: -103.5164773 (TVD: 13506 feet, MD: 23858 feet)



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 748-9720

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

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

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

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

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

X AMENDED REPORT

WELL.	LOCATION	AND	ACREAGE	DEDICATION	PLAT

API Number	Pool Code								
	97 34 7- 98347	WC-025 G-10 S263418C;L	WR WOLFCAMP						
Property Code	Prop	Property Name							
315691	JAYHAWK (3-7 FEDERAL	16H						
OGRID No.	Opera	tor Name	Elevation						
6137	DEVON ENERGY PROI	OUCTION COMPANY, L.P.	3362.2'						

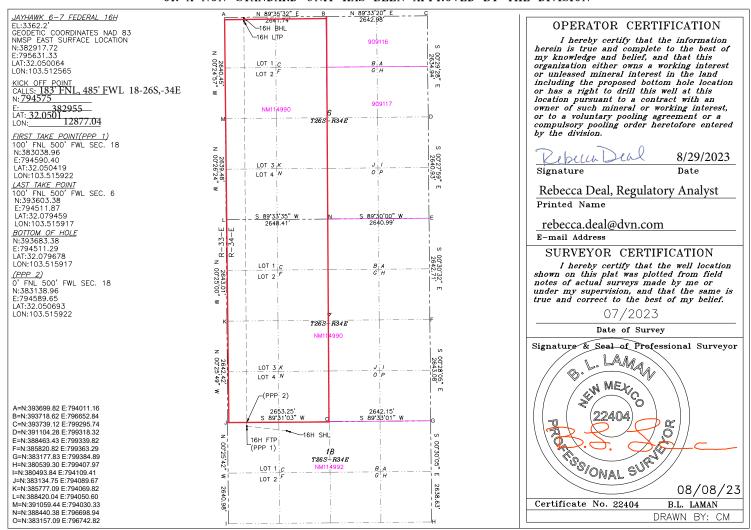
Surface Location

UL o	or lot No.	Section	Township	Range	Lot Idn	Feet from the	et from the North/South line Fe		East/West line	County
	С	18	26-S	34-E		230	NORTH	1540	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	26-S	34-E		20	NORTH	500	WEST	LEA
Dedicated Acres Joint or Infill Consolidation Code			Code Or	der No.			•		
641.6									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Inten	t	As Dril	lled									
API #	ŧ											
DE'	erator Na VON EN MPANY	N	Property N JAYHAW		Well Number 16H							
												l
Kick (Off Point	(KOP)										
UL	Section 18	Township 26S	Range 34E	Lot	Feet 183	From N	I/S	Feet 485		n E/W VL	County	EA
Latit		.0501	0.12		Longitu	ude -103.516	51				NAD 8	33
					ı						ı	
First T	Take Poir Section	t (FTP) Township	Range	Lot	Feet	From N	I/S	Feet	Fron	n E/W	County	
Latit	18	26-S	34-E	1	100 Longitu	NOF	RTH	500	WE	ST	LEA NAD	
	.0504	19				.51592	2				83	
Last ⁻	Гake Poin	t (LTP)										
UL	Section 6	Township 26-S	Range 34-E	Lot 1	Feet 100	From N/S NORTH	Feet 500		n E/W ST	Count		
Latit	_	I.	<u> </u>	-	Longit					NAD 83	•	
Is thi	s well the	defining v	well for th	ne Hori	zontal S	pacing Unit?						
						P						
Is thi	s well an	infill well?										
	ll is yes p ng Unit.	lease prov	ide API if	availal	ole, Ope	rator Name	and we	ell numbe	er for I	Definii	ng well fo	r Horizontal
API #	ŧ											
Оре	rator Na	me:				Property Name:						Well Number
D	EVON ENERG	GY PRODUCTIO	ON COMPAN'	Y, LP		JAYHAWK 6-7 FED						26H
						1						KZ 06/29/2018



U. S. Steel Tubular Products 10.750" 40.50lb/ft (0.350" Wall) H40

MECHANICAL PROPERTIES	Pipe	втс	LTC	STC		
Minimum Yield Strength	40,000				psi	
Maximum Yield Strength	80,000				psi	
Minimum Tensile Strength	60,000				psi	
DIMENSIONS	Pipe	втс	LTC	STC		
Outside Diameter	10.750	0.000	0.000	11.750	in.	
Wall Thickness	0.350				in.	
Inside Diameter	10.050			10.050	in.	
Standard Drift	9.894	9.894	9.894	9.894	in.	
Alternate Drift					in.	
Nominal Linear Weight, T&C	40.50				lb/ft	
Plain End Weight	38.91				lb/ft	
PERFORMANCE	Pipe	втс	LTC	STC		
Minimum Collapse Pressure	1,390	1,390	1,390	1,390	psi	
Minimum Internal Yield Pressure	2,280	2,280	2,280	2,280	psi	
Minimum Pipe Body Yield Strength	457				1,000 lbs	
Joint Strength				314	1,000 lbs	
Reference Length				5,164	ft	
MAKE-UP DATA	Pipe	втс	LTC	STC		
Make-Up Loss				3.50	in.	
Minimum Make-Up Torque				2,360	ft-lb	
Maximum Make-Up Torque				3,930	ft-lb	

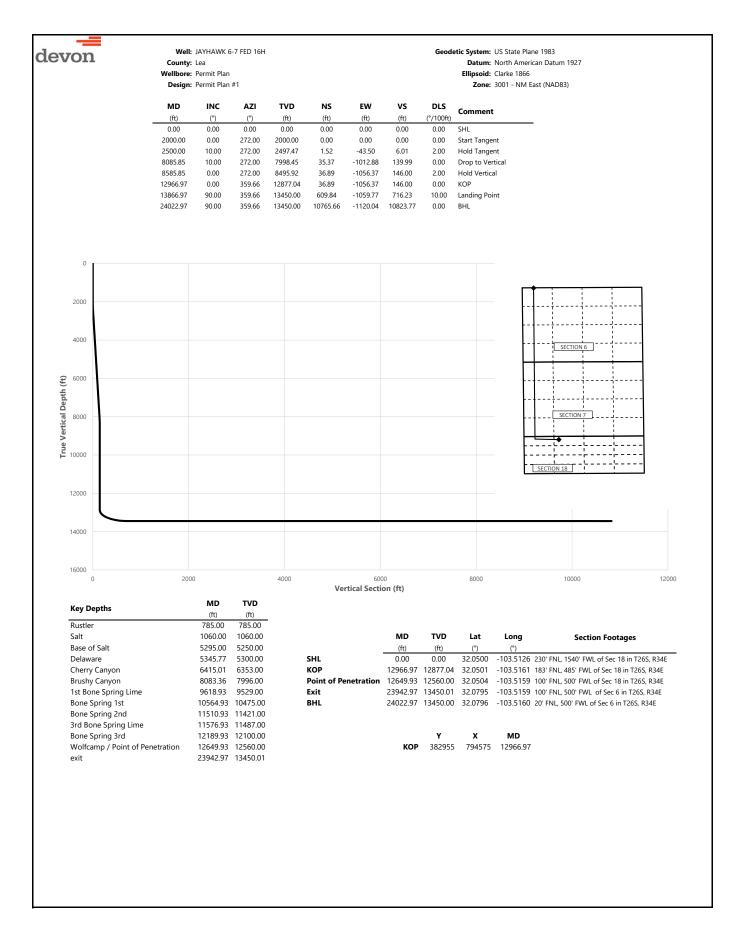
UNCONTROLLED

Notes

Legal Notice

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

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





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	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00 200.00	0.00	272.00 272.00	100.00 200.00	0.00	0.00 0.00	0.00	0.00	
300.00	0.00	272.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	272.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	272.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	272.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	272.00	700.00	0.00	0.00	0.00	0.00	
785.00	0.00	272.00	785.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	272.00	800.00	0.00	0.00	0.00	0.00	
900.00 1000.00	0.00	272.00	900.00	0.00	0.00	0.00	0.00	
1060.00	0.00	272.00 272.00	1000.00 1060.00	0.00	0.00 0.00	0.00	0.00	Salt
1100.00	0.00	272.00	1100.00	0.00	0.00	0.00	0.00	Suit
1200.00	0.00	272.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	272.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	272.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	272.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	272.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	272.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	272.00	1800.00	0.00	0.00	0.00	0.00	
1900.00 2000.00	0.00	272.00 272.00	1900.00 2000.00	0.00	0.00 0.00	0.00	0.00	Start Tangent
2100.00	2.00	272.00	2000.00	0.06	-1.74	0.00	2.00	Start rangelit
2200.00	4.00	272.00	2199.84	0.24	-6.97	0.96	2.00	
2300.00	6.00	272.00	2299.45	0.55	-15.68	2.17	2.00	
2400.00	8.00	272.00	2398.70	0.97	-27.86	3.85	2.00	
2500.00	10.00	272.00	2497.47	1.52	-43.50	6.01	2.00	Hold Tangent
2600.00	10.00	272.00	2595.95	2.12	-60.85	8.41	0.00	
2700.00	10.00	272.00	2694.43	2.73	-78.20	10.81	0.00	
2800.00	10.00	272.00	2792.91	3.34	-95.56	13.21	0.00	
2900.00 3000.00	10.00 10.00	272.00 272.00	2891.39 2989.87	3.94 4.55	-112.91 -130.27	15.61 18.00	0.00	
3100.00	10.00	272.00	3088.35	5.15	-147.62	20.40	0.00	
3200.00	10.00	272.00	3186.83	5.76	-164.98	22.80	0.00	
3300.00	10.00	272.00	3285.31	6.37	-182.33	25.20	0.00	
3400.00	10.00	272.00	3383.79	6.97	-199.68	27.60	0.00	
3500.00	10.00	272.00	3482.27	7.58	-217.04	30.00	0.00	
3600.00	10.00	272.00	3580.75	8.18	-234.39	32.40	0.00	
3700.00	10.00	272.00	3679.23	8.79	-251.75	34.79	0.00	
3800.00	10.00	272.00	3777.72	9.40	-269.10 -286.46	37.19	0.00	
3900.00 4000.00	10.00 10.00	272.00 272.00	3876.20 3974.68	10.00 10.61	-286.46 -303.81	39.59 41.99	0.00	
4100.00	10.00	272.00	4073.16	11.21	-321.16	44.39	0.00	
4200.00	10.00	272.00	4171.64	11.82	-338.52	46.79	0.00	
4300.00	10.00	272.00	4270.12	12.43	-355.87	49.19	0.00	
4400.00	10.00	272.00	4368.60	13.03	-373.23	51.58	0.00	
4500.00	10.00	272.00	4467.08	13.64	-390.58	53.98	0.00	
4600.00	10.00	272.00	4565.56	14.24	-407.93	56.38	0.00	
4700.00	10.00	272.00	4664.04	14.85	-425.29	58.78	0.00	
4800.00	10.00	272.00	4762.52	15.46 16.06	-442.64 460.00	61.18	0.00	
4900.00 5000.00	10.00 10.00	272.00 272.00	4861.00 4959.48	16.06 16.67	-460.00 -477.35	63.58 65.98	0.00	
5100.00	10.00	272.00	5057.97	17.27	-477.35 -494.71	68.37	0.00	
5200.00	10.00	272.00	5156.45	17.88	-512.06	70.77	0.00	
5295.00	10.00	272.00	5250.00	18.46	-528.55	73.05	0.00	Base of Salt
5300.00	10.00	272.00	5254.93	18.49	-529.41	73.17	0.00	
5345.77	10.00	272.00	5300.00	18.76	-537.36	74.27	0.00	Delaware
5400.00	10.00	272.00	5353.41	19.09	-546.77	75.57	0.00	
5500.00	10.00	272.00	5451.89	19.70	-564.12	77.97	0.00	
5600.00	10.00	272.00	5550.37	20.30	-581.48	80.37	0.00	
5700.00 5800.00	10.00 10.00	272.00 272.00	5648.85 5747.33	20.91 21.52	-598.83 -616.19	82.76 85.16	0.00	
5900.00	10.00	272.00	5747.33	21.52	-616.19 -633.54	85.16 87.56	0.00	
6000.00	10.00	272.00	5944.29	22.73	-650.89	89.96	0.00	
6100.00	10.00	272.00	6042.77	23.33	-668.25	92.36	0.00	
6200.00	10.00	272.00	6141.25	23.94	-685.60	94.76	0.00	
6300.00	10.00	272.00	6239.73	24.55	-702.96	97.16	0.00	
6400.00	10.00	272.00	6338.22	25.15	-720.31	99.55	0.00	
6415.01	10.00	272.00	6353.00	25.24	-722.92	99.91	0.00	Cherry Canyon



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 Plar	n #1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	_
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6500.00	10.00	272.00	6436.70	25.76	-737.67	101.95	0.00	
6600.00	10.00	272.00	6535.18	26.36	-755.02	104.35	0.00	
6700.00	10.00	272.00	6633.66	26.97	-772.37	106.75	0.00	
6800.00	10.00	272.00	6732.14	27.57	-789.73	109.15	0.00	
6900.00	10.00	272.00	6830.62	28.18	-807.08	111.55	0.00	
7000.00	10.00	272.00	6929.10	28.79	-824.44	113.95	0.00	
7100.00	10.00	272.00	7027.58	29.39	-841.79	116.34	0.00	
7200.00	10.00	272.00	7126.06	30.00	-859.14	118.74	0.00	
7300.00	10.00	272.00	7224.54	30.60	-876.50	121.14	0.00	
7400.00	10.00	272.00	7323.02	31.21	-893.85	123.54	0.00	
7500.00	10.00	272.00	7421.50	31.82	-911.21	125.94	0.00	
7600.00	10.00	272.00	7519.99	32.42	-928.56	128.34	0.00	
7700.00	10.00	272.00	7618.47	33.03	-945.92	130.74	0.00	
7800.00	10.00	272.00	7716.95	33.63	-963.27	133.13	0.00	
7900.00	10.00	272.00	7815.43	34.24	-980.62	135.53	0.00	
8000.00	10.00	272.00	7913.91	34.85	-997.98	137.93	0.00	
8083.36	10.00	272.00	7996.00	35.35	-1012.44	139.93	0.00	Brushy Canyon
8085.85	10.00	272.00	7998.45	35.37	-1012.88	139.99	0.00	Drop to Vertical
8100.00	9.72	272.00	8012.39	35.46	-1015.30	140.33	2.00	
8200.00	7.72	272.00	8111.23	35.98	-1030.44	142.42	2.00	
8300.00	5.72	272.00	8210.54	36.39	-1042.13	144.04	2.00	
8400.00 8500.00	3.72 1.72	272.00 272.00	8310.20 8410.08	36.68 36.84	-1050.35 -1055.09	145.17 145.83	2.00 2.00	
8585.85	0.00	272.00	8495.92	36.89	-1055.09	145.83		Hold Vertical
8600.00	0.00	359.66	8510.07	36.89	-1056.37	146.00	2.00 0.00	Hold Vertical
8700.00	0.00	359.66	8610.07	36.89	-1056.37	146.01	0.00	
8800.00	0.00	359.66	8710.07	36.89	-1056.37	146.01	0.00	
8900.00	0.00	359.66	8810.07	36.89	-1056.37	146.01	0.00	
9000.00	0.00	359.66	8910.07	36.89	-1056.37	146.01	0.00	
9100.00	0.00	359.66	9010.07	36.89	-1056.37	146.01	0.00	
9200.00	0.00	359.66	9110.07	36.89	-1056.37	146.01	0.00	
9300.00	0.00	359.66	9210.07	36.89	-1056.37	146.01	0.00	
9400.00	0.00	359.66	9310.07	36.89	-1056.37	146.01	0.00	
9500.00	0.00	359.66	9410.07	36.89	-1056.37	146.01	0.00	
9600.00	0.00	359.66	9510.07	36.89	-1056.37	146.01	0.00	
9618.93	0.00	359.66	9529.00	36.89	-1056.37	146.01	0.00	1st Bone Spring Lime
9700.00	0.00	359.66	9610.07	36.89	-1056.37	146.01	0.00	, ,
9800.00	0.00	359.66	9710.07	36.89	-1056.37	146.01	0.00	
9900.00	0.00	359.66	9810.07	36.89	-1056.37	146.01	0.00	
10000.00	0.00	359.66	9910.07	36.89	-1056.37	146.01	0.00	
10100.00	0.00	359.66	10010.07	36.89	-1056.37	146.01	0.00	
10200.00	0.00	359.66	10110.07	36.89	-1056.37	146.01	0.00	
10300.00	0.00	359.66	10210.07	36.89	-1056.37	146.01	0.00	
10400.00	0.00	359.66	10310.07	36.89	-1056.37	146.01	0.00	
10500.00	0.00	359.66	10410.07	36.89	-1056.37	146.01	0.00	
10564.93	0.00	359.66	10475.00	36.89	-1056.37	146.01	0.00	Bone Spring 1st
10600.00	0.00	359.66	10510.07	36.89	-1056.37	146.01	0.00	
10700.00	0.00	359.66	10610.07	36.89	-1056.37	146.01	0.00	
10800.00	0.00	359.66	10710.07	36.89	-1056.37	146.01	0.00	
10900.00	0.00	359.66	10810.07	36.89	-1056.37	146.01	0.00	
11000.00	0.00	359.66	10910.07	36.89	-1056.37	146.01	0.00	
11100.00	0.00	359.66	11010.07	36.89	-1056.37	146.01	0.00	
11200.00	0.00	359.66	11110.07	36.89	-1056.37	146.01	0.00	
11300.00	0.00	359.66	11210.07	36.89	-1056.37	146.01	0.00	
11400.00	0.00	359.66	11310.07	36.89	-1056.37	146.01	0.00	
11500.00	0.00	359.66	11410.07	36.89	-1056.37	146.01	0.00	Devis Codes 2nd
11510.93	0.00	359.66	11421.00	36.89	-1056.37	146.01	0.00	Bone Spring 2nd
11576.93	0.00	359.66	11487.00	36.89	-1056.37	146.01	0.00	3rd Bone Spring Lime
11600.00	0.00	359.66	11510.07	36.89	-1056.37	146.01	0.00	
11700.00	0.00	359.66	11610.07	36.89	-1056.37	146.01	0.00	
11800.00	0.00	359.66	11710.07	36.89	-1056.37	146.01	0.00	
11900.00	0.00	359.66	11810.07	36.89	-1056.37	146.01	0.00	
12000.00	0.00	359.66	11910.07	36.89	-1056.37	146.01	0.00	
12100.00	0.00	359.66	12010.07	36.89	-1056.37	146.01	0.00	Pana Carina 2rd
12189.93	0.00	359.66	12100.00	36.89	-1056.37	146.01	0.00	Bone Spring 3rd
12200.00 12300.00	0.00	359.66	12110.07	36.89	-1056.37	146.01	0.00	
	0.00	359.66	12210.07 12310.07	36.89 36.89	-1056.37 -1056.37	146.01 146.01	0.00	
	0.00				- 1030.37	140.01	0.00	
12400.00	0.00	359.66 359.66				146.01	0.00	
	0.00 0.00 0.00	359.66 359.66	12410.07 12510.07	36.89 36.89	-1056.37 -1056.37	146.01 146.01	0.00	



County: Lea Wellbore: Permit Plan 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
12649.93	0.00	359.66	12560.00	36.89	-1056.37	146.01	0.00	Wolfcamp / Point
12700.00	0.00	359.66	12610.07	36.89	-1056.37	146.01	0.00	
12800.00	0.00	359.66	12710.07	36.89	-1056.37	146.01	0.00	
12900.00	0.00	359.66	12810.07	36.89	-1056.37	146.01	0.00	
12966.97	0.00	359.66	12877.04	36.89	-1056.37	146.00	0.00	KOP
13000.00	3.30	359.66	12910.05	37.84	-1056.38	146.95	10.00	
13100.00	13.30	359.66	13008.88	52.26	-1056.46	161.31	10.00	
13200.00 13300.00	23.30 33.30	359.66 359.66	13103.70 13191.63	83.63 130.98	-1056.65 -1056.93	192.52 239.65	10.00 10.00	
13400.00	43.30	359.66	13270.01	192.88	-1057.30	301.25	10.00	
13500.00	53.30	359.66	13336.44	267.45	-1057.74	375.47	10.00	
13600.00	63.30	359.66	13388.92	352.42	-1058.25	460.04	10.00	
13700.00	73.30	359.66	13425.84	445.22	-1058.80	552.40	10.00	
13800.00	83.30	359.66	13446.09	543.02	-1059.38	649.73	10.00	
13866.97	90.00	359.66	13450.00	609.84	-1059.77	716.23	10.00	Landing Point
13900.00	90.00	359.66	13450.00	642.86	-1059.97	749.10	0.00	
14000.00	90.00	359.66	13450.00	742.86	-1060.56	848.62	0.00	
14100.00	90.00	359.66	13450.00	842.86	-1061.16	948.15	0.00	
14200.00 14300.00	90.00 90.00	359.66 359.66	13450.00 13450.00	942.86 1042.86	-1061.75 -1062.35	1047.67 1147.19	0.00	
14400.00	90.00	359.66	13450.00	1142.86	-1062.55	1246.71	0.00	
14500.00	90.00	359.66	13450.00	1242.85	-1063.53	1346.24	0.00	
14600.00	90.00	359.66	13450.00	1342.85	-1064.13	1445.76	0.00	
14700.00	90.00	359.66	13450.00	1442.85	-1064.72	1545.28	0.00	
14800.00	90.00	359.66	13450.00	1542.85	-1065.32	1644.80	0.00	
14900.00	90.00	359.66	13450.00	1642.85	-1065.91	1744.33	0.00	
15000.00	90.00	359.66	13450.00	1742.84	-1066.50	1843.85	0.00	
15100.00	90.00	359.66	13450.00	1842.84	-1067.10	1943.37	0.00	
15200.00	90.00	359.66	13450.00	1942.84	-1067.69	2042.90	0.00	
15300.00	90.00	359.66	13450.00	2042.84	-1068.28	2142.42	0.00	
15400.00 15500.00	90.00 90.00	359.66 359.66	13450.00 13450.00	2142.84 2242.84	-1068.88 -1069.47	2241.94 2341.46	0.00	
15600.00	90.00	359.66	13450.00	2342.83	-1009.47	2440.99	0.00	
15700.00	90.00	359.66	13450.00	2442.83	-1070.66	2540.51	0.00	
15800.00	90.00	359.66	13450.00	2542.83	-1071.25	2640.03	0.00	
15900.00	90.00	359.66	13450.00	2642.83	-1071.85	2739.56	0.00	
16000.00	90.00	359.66	13450.00	2742.83	-1072.44	2839.08	0.00	
16100.00	90.00	359.66	13450.00	2842.83	-1073.04	2938.60	0.00	
16200.00	90.00	359.66	13450.00	2942.82	-1073.63	3038.12	0.00	
16300.00	90.00	359.66	13450.00	3042.82	-1074.22	3137.65	0.00	
16400.00 16500.00	90.00 90.00	359.66 359.66	13450.00 13450.00	3142.82 3242.82	-1074.82 -1075.41	3237.17 3336.69	0.00	
16600.00	90.00	359.66	13450.00	3342.82	-1075.41	3436.22	0.00	
16700.00	90.00	359.66	13450.00	3442.81	-1076.60	3535.74	0.00	
16800.00	90.00	359.66	13450.00	3542.81	-1077.19	3635.26	0.00	
16900.00	90.00	359.66	13450.00	3642.81	-1077.79	3734.78	0.00	
17000.00	90.00	359.66	13450.00	3742.81	-1078.38	3834.31	0.00	
17100.00	90.00	359.66	13450.00	3842.81	-1078.98	3933.83	0.00	
17200.00	90.00	359.66	13450.00	3942.81	-1079.57	4033.35	0.00	
17300.00	90.00	359.66	13450.00	4042.80	-1080.16	4132.88	0.00	
17400.00 17500.00	90.00 90.00	359.66 359.66	13450.00 13450.00	4142.80 4242.80	-1080.76 -1081.35	4232.40 4331.92	0.00	
17600.00	90.00	359.66	13450.00	4342.80	-1081.35	4331.92	0.00	
17700.00	90.00	359.66	13450.00	4442.80	-1082.54	4530.97	0.00	
17800.00	90.00	359.66	13450.01	4542.80	-1083.13	4630.49	0.00	
17900.00	90.00	359.66	13450.01	4642.79	-1083.73	4730.01	0.00	
18000.00	90.00	359.66	13450.01	4742.79	-1084.32	4829.54	0.00	
18100.00	90.00	359.66	13450.01	4842.79	-1084.92	4929.06	0.00	
18200.00	90.00	359.66	13450.01	4942.79	-1085.51	5028.58	0.00	
18300.00	90.00	359.66	13450.01	5042.79	-1086.10	5128.10	0.00	
18400.00 18500.00	90.00 90.00	359.66 359.66	13450.01 13450.01	5142.78 5242.78	-1086.70 -1087.29	5227.63 5327.15	0.00	
18600.00	90.00	359.66	13450.01	5342.78	-1087.29	5327.15 5426.67	0.00	
18700.00	90.00	359.66	13450.01	5442.78	-1087.88	5526.20	0.00	
18800.00	90.00	359.66	13450.01	5542.78	-1089.07	5625.72	0.00	
18900.00	90.00	359.66	13450.01	5642.78	-1089.67	5725.24	0.00	
19000.00	90.00	359.66	13450.01	5742.77	-1090.26	5824.76	0.00	
19100.00	90.00	359.66	13450.01	5842.77	-1090.85	5924.29	0.00	
19200.00	90.00	359.66	13450.01	5942.77	-1091.45	6023.81	0.00	
19300.00	90.00	359.66	13450.01	6042.77	-1092.04	6123.33	0.00	



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

Datum: North American Datum 1927

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

MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19400.00	90.00	359.66	13450.01	6142.77	-1092.64	6222.86	0.00	
19500.00	90.00	359.66	13450.01	6242.77	-1093.23	6322.38	0.00	
19600.00	90.00	359.66	13450.01	6342.76	-1093.82	6421.90	0.00	
19700.00	90.00	359.66	13450.01	6442.76	-1094.42	6521.42	0.00	
19800.00	90.00	359.66	13450.01	6542.76	-1095.01	6620.95	0.00	
19900.00	90.00	359.66	13450.01	6642.76	-1095.61	6720.47	0.00	
20000.00	90.00	359.66	13450.01	6742.76	-1096.20	6819.99	0.00	
20100.00	90.00	359.66	13450.01	6842.75	-1096.79	6919.52	0.00	
20200.00	90.00	359.66	13450.01	6942.75	-1097.39	7019.04	0.00	
20300.00	90.00	359.66	13450.01	7042.75	-1097.98	7118.56	0.00	
20400.00	90.00	359.66	13450.01	7142.75	-1098.58	7218.08	0.00	
20500.00	90.00	359.66	13450.01	7242.75	-1099.17	7317.61	0.00	
20600.00	90.00	359.66	13450.01	7342.75	-1099.76	7417.13	0.00	
20700.00	90.00	359.66	13450.01	7442.74	-1100.36		0.00	
20800.00		359.66		7542.74		7516.65 7616.19		
	90.00		13450.01		-1100.95	7616.18	0.00	
20900.00	90.00	359.66	13450.01	7642.74	-1101.55	7715.70	0.00	
21000.00	90.00	359.66	13450.01	7742.74	-1102.14	7815.22	0.00	
21100.00	90.00	359.66	13450.01	7842.74	-1102.73	7914.74	0.00	
21200.00	90.00	359.66	13450.01	7942.74	-1103.33	8014.27	0.00	
21300.00	90.00	359.66	13450.01	8042.73	-1103.92	8113.79	0.00	
21400.00	90.00	359.66	13450.01	8142.73	-1104.52	8213.31	0.00	
21500.00	90.00	359.66	13450.01	8242.73	-1105.11	8312.84	0.00	
21600.00	90.00	359.66	13450.01	8342.73	-1105.70	8412.36	0.00	
21700.00	90.00	359.66	13450.01	8442.73	-1106.30	8511.88	0.00	
21800.00	90.00	359.66	13450.01	8542.72	-1106.89	8611.40	0.00	
21900.00	90.00	359.66	13450.01	8642.72	-1107.48	8710.93	0.00	
22000.00	90.00	359.66	13450.01	8742.72	-1108.08	8810.45	0.00	
22100.00	90.00	359.66	13450.01	8842.72	-1108.67	8909.97	0.00	
22200.00	90.00	359.66	13450.01	8942.72	-1109.27	9009.50	0.00	
22300.00	90.00	359.66	13450.01	9042.72	-1109.86	9109.02	0.00	
22400.00	90.00	359.66	13450.01	9142.71	-1110.45	9208.54	0.00	
22500.00	90.00	359.66	13450.01	9242.71	-1111.05	9308.06	0.00	
22600.00	90.00	359.66	13450.01	9342.71	-1111.64	9407.59	0.00	
22700.00	90.00	359.66	13450.01	9442.71	-1112.24	9507.11	0.00	
22800.00	90.00	359.66	13450.01	9542.71	-1112.83	9606.63	0.00	
22900.00	90.00	359.66	13450.01	9642.71	-1113.42	9706.16	0.00	
23000.00	90.00	359.66	13450.01	9742.70	-1114.02	9805.68	0.00	
23100.00	90.00	359.66	13450.01	9842.70	-1114.61	9905.20	0.00	
23200.00	90.00	359.66	13450.01	9942.70	-1115.21	10004.72	0.00	
23300.00	90.00	359.66	13450.01	10042.70	-1115.80	10104.25	0.00	
23400.00	90.00	359.66	13450.01	10142.70	-1116.39	10203.77	0.00	
23500.00	90.00	359.66	13450.01	10242.69	-1116.99	10303.29	0.00	
23600.00	90.00	359.66	13450.01	10342.69	-1117.58	10402.82	0.00	
23700.00	90.00	359.66	13450.01	10442.69	-1118.18	10502.34	0.00	
23800.00	90.00	359.66	13450.01	10542.69	-1118.77	10601.86	0.00	
23900.00	90.00	359.66	13450.01	10642.69	-1119.36	10701.38	0.00	
23942.97	90.00	359.66	13450.01	10642.69	-1119.50	10744.15	0.00	exit
	90.00		13450.01					CAIL
24000.00	90.00	359.66		10742.69	-1119.96	10800.91	0.00	RUI
24022.97	90.00	359.66	13450.00	10765.66	-1120.04	10823.77	0.00	BHL

Received by OCD: 9/19/2023 10:09:19 AM

Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-FJ
	Plain End: 31.13				

PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

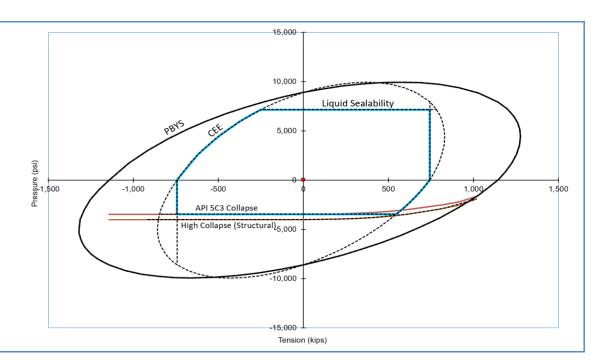
CONNECTION PROP	ERTIES	
Connection Type	Semi-Premium Into	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Bending with Sealability	41	°/100ft
Max. Bending with Sealability	10	°/100ft

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

* 87.5% RBW

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



Do you need help on this product? - Remember no one knows 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



Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY
standard			

	Material	
P-110RY	Grade	
110,000	Minimum Yield Strength (psi)	USA
125 000	Minimum I Iltimate Strength (nci)	

125,000	Minimum Ultimate Strength (psi)	,
	Pipe Dimensions	
5.500	Nominal Pipe Body O.D. (in)	
4.892	Nominal Pipe Body I.D.(in)	
0.304	Nominal Wall Thickness (in)	
17.00	Nominal Weight (lbs/ft)	
16 89	Plain End Weight (lhs/ft)	

4.962	Nominal Pipe Body Area (sq in)
	Pipe Body Performance Properties
546.000	Minimum Pipe Body Yield Strength (lbs)

546,000	Willimum Pipe Body field Strength (ibs
7,480	Minimum Collapse Pressure (psi)
10,640	Minimum Internal Yield Pressure (psi)
9,700	Hydrostatic Test Pressure (psi)

Connection Dimensions

	Connection Dimensions
6.050	Connection O.D. (in)
4.892	Connection I.D. (in)
4.767	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
4.962	Critical Area (sq in)
100.0	Joint Efficiency (%)

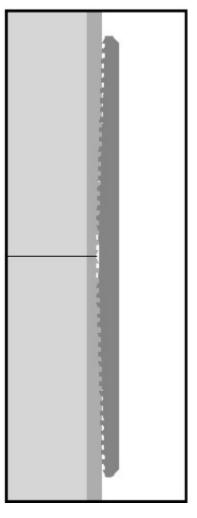
	Connection Performance Properties			
546,000	Joint Strength (lbs)			
22,940	Reference String Length (ft) 1.4 Design Factor			
568,000	API Joint Strength (lbs)			
546,000	Compression Rating (lbs)			
7,480	API Collapse Pressure Rating (psi)			
10,640	API Internal Pressure Resistance (psi)			
91.7	Maximum Uniaxial Bend Rating [degrees/100 ft]			

	Appoximated Field End Torque Values
12,000	Minimum Final Torque (ft-lbs)
13,800	Maximum Final Torque (ft-lbs)
15,500	Connection Yield Torque (ft-lbs)



VAM-USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200 Fax: 713-479-3234

E-mail: VAMUSAsales@vam-usa.com



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

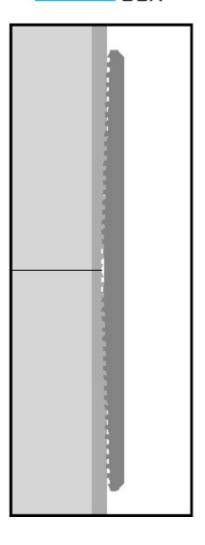
Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained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

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USA

DWC Connection Data Notes:

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



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

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JAYHAWK 6-7 FED 16H

1. Geologic Formations

TVD of target	13450	Pilot hole depth	N/A
MD at TD:	24023	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
1 01 1111112011	from KB	Zone?	110201 05
Rustler	785	Zone.	
Salt	1060		
Base of Salt	5250		
Delaware	5300		
Cherry Canyon	6353		
Brushy Canyon	7996		
1st Bone Spring Lime	9529		
Bone Spring 1st	10475		
Bone Spring 2nd	11421		
3rd Bone Spring Lime	11487		
Bone Spring 3rd	12100		
Wolfcamp	12560		
		•	

^{*}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)
14 3/4	10 3/4	40 1/2	H40	ВТС	0	810	0	810
9 7/8	8 5/8	32	P110	Sprint FJ	0	12760	0	12760
7 7/8	5 1/2	17	P110	DWC / C-IS+	0	24023	0	13450

[•]All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	494	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	435 Surf 9 3.27		Lead: Class C Cement + additives		
IIIt I	465	8760	13.2	1.44	Tail: Class H / C + additives
Int 1	565	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	435	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	8760	13.2	1.44	Tail: Class H / C + additives
Production	117	10967	9	3.27	Lead: Class H /C + additives
	1463	12967	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ty	ype	✓	Tested to:																													
			Annular		X	50% of rated working pressure																													
Int 1	13-5/8"	5M	Blind	d Ram	X																														
IIIt I	13-3/6	JIVI	Pipe	Ram		5M																													
			Doub	le Ram	X	3101																													
			Other*																																
	13-5/8"	1014	Annular (5M)		X	100% of rated working pressure																													
Don't all a			Blind Ram		X	•																													
Production		13-3/8" 101/1	10M	.5/8" TUM	Pipe Ram		Ram		101/																										
																			!															Doub	le Ram
			Other*																																
			Annular (5M)																																
			Blind Ram																																
			Pipe Ram]																													
			Doub	le Ram]																													
			Other*																																
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.																																		
Y A variance is requested to a	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, (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.					

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	7344
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.

JAYHAWK 6-7 FED 16H

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments	1
X	Directional Plan
	Other, describe



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

Sundry Print Reports
09/19/2023

County or Parish/State: LEA /

Well Name: FIGHTING OKRA 18-19 Well Location: T26S / R34E / SEC 18 /

FED NENW / 32.0500634 / -103.5125655

Well Number: 16H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM114992 Unit or CA Name: Unit or CA Number:

US Well Number: 3002547705 Well Status: Approved Application for Operator: DEVON ENERGY

Permit to Drill PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2748988

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/31/2023 Time Sundry Submitted: 01:24

Date proposed operation will begin: 08/31/2023

Procedure Description: Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD: Name Change from Fighting Orka 18-19 Fed 16H to Jayhawk 6-7 Fed 16H BHL change from 20 FSL & 330 FWL, 19-26S-34E to 20 FNL & 500 FWL, 6-26S-34E. New leases have been added since approved APD and notification has been given. Pool Code change from Wildcat; Lower Wolfcamp Oil to 97347 WC-025 G-10 S263418C;LWR WOLFCAMP Dedicated acreage change from 320 acs to 640 acs. TVD/MD change from 13506'/23858' to 13450'/24023' Casing program change: Surface, Intermediate, and Production Casing size changes. Cement volume changes to accommodate casing change. Please see attached revised C-102 and drilling & directional plans.

NOI Attachments

Procedure Description

JAYHAWK_6_7_FEDERAL_16H_C_102_BHL_NOI_20230831132228.pdf

10.750_40.50lb_H40_20230831132226.pdf

JAYHAWK_6_7_FED_16H_Directional_Plan_08_31_23_20230831132225.pdf

8.625_32lb_P110EC_SPRINT_FJ_VST_20230831132226.pdf

5.5_17lb_P110RY_DWC_C_20230831132225.pdf

JAYHAWK_6_7_FED_16H_20230831132225.pdf

eived by OCD: 9/19/2023 10:09:19 AM Well Name: FIGHTING OKRA 18-19

FED

Well Location: T26S / R34E / SEC 18 / NENW / 32.0500634 / -103.5125655

County or Parish/State: Page 23 of

Well Number: 16H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM114992

Unit or CA Name:

Unit or CA Number:

Zip:

US Well Number: 3002547705

Well Status: Approved Application for

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Permit to Drill

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: AUG 31, 2023 01:22 PM **Operator Electronic Signature: REBECCA DEAL**

Name: DEVON ENERGY PRODUCTION COMPANY LP

State:

Title: Regulatory Analyst

Street Address: 333 W SHERIDAN AVE

City: OKLAHOMA CITY State: OK

Phone: (303) 299-1406

Email address: REBECCA.DEAL@DVN.COM

Field

Representative Name:

Street Address:

City:

Phone:

Email address:

Page 2 of 2

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP

LEASE NO.: | NMNM114992

LOCATION: | Section 18, T.26 S., R.34 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: | Fighting Okra 18-19 Fed 16H

SURFACE HOLE FOOTAGE: 230'/N & 1540'/W **BOTTOM HOLE FOOTAGE** 20'/N & 500'/W

ATS/API ID: 3002547705 APD ID: 10400057821 Sundry ID: 2748988

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **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 10-3/4 inch surface casing shall be set at approximately 810 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to the BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 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 10-3/4 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 OOGO2.III.A.2.i must be followed.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43** CFR part **3170** Subpart **3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 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 intergrity 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 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 OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR

part 3170 Subpart 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 9/19/2023

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

	5.	Lease	Serial	No.
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BUR	EAU OF LAND MANAGEMENT	J. Lease Serial No.	NMNM114992			
	IOTICES AND REPORTS ON W	6. If Indian, Allottee	or Tribe Name			
	iorm for proposals to drill or to Use Form 3160-3 (APD) for suc					
SUBMIT IN	TRIPLICATE - Other instructions on pag	ne 2	7. If Unit of CA/Agr	reement, Name and/or No.		
1. Type of Well						
Oil Well Gas V	/ell Other		8. Well Name and No. FIGHTING OKRA 18-19 FED/16H			
2. Name of Operator DEVON ENERG	BY PRODUCTION COMPANY LP		9. API Well No. 300	2547705		
3a. Address 333 WEST SHERIDAN		(include area code)	10. Field and Pool o			
000 1120 101121112111	(405) 235-36	11	Bobcat Draw/LW	R WOLFCAMP		
4. Location of Well (Footage, Sec., T.,F	2.,M., or Survey Description)		11. Country or Paris	h, State		
SEC 18/T26S/R34E/NMP			LEA/NM			
12. CHE	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE (OF NOTICE, REPORT OR OT	THER DATA		
TYPE OF SUBMISSION		TYPE	OF ACTION			
Notice of Intent	Acidize Deep		Production (Start/Resume	· <u> </u>		
_		raulic Fracturing	Reclamation	Well Integrity		
Subsequent Report		Construction	Recomplete	Other		
Final Abandonment Notice		and Abandon Back	Temporarily Abandon Water Disposal			
	peration: Clearly state all pertinent details, i			work and approximate duration thereof If		
Name Change from Fighting C BHL change from 20 FSL & 33 notification has been given. Pool Code change from Wildo Dedicated acreage change fro TVD/MD change from 13506/2 Casing program change: Surfa		116H WL, 6-26S-34E. N	ew leases have been added; ;LWR WOLFCAMP			
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)					
REBECCA DEAL / Ph: (303) 299-1		Regulatory .	Analyst			
Signature		Date	Date 08/31/2023			
	THE SPACE FOR FED	ERAL OR STA	TE OFICE USE			
Approved by						
		Title		Date		
Conditions of approval, if any are attack	ned. Approval of this notice does not warran			Date		
	equitable title to those rights in the subject le					
	3 U.S.C Section 1212, make it a crime for arents or representations as to any matter with		and willfully to make to any	department or agency of the United States		

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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: NENW / 230 FNL / 1540 FWL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0500634 / LONG: -103.5125655 (TVD: 0 feet, MD: 0 feet) PPP: LOT 1 / 100 FNL / 330 FWL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0504181 / LONG: -103.5164701 (TVD: 13208 feet, MD: 13293 feet) BHL: LOT 4 / 20 FSL / 330 FWL / TWSP: 26S / RANGE: 34E / SECTION: 19 / LAT: 32.0217085 / LONG: -103.5164773 (TVD: 13506 feet, MD: 23858 feet)



DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 748-9720

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

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

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

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

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

M AMENDED REPORT

	WELL LOCATION AND A	ACREAGE DEDICATION PLAT				
API Number	Pool Code	Pool Name				
	97347	WC-025 G-10 S263418C;LWR WOLFCAMI				
Property Code	Prop	erty Name	Well Number			
315691	JAYHAWK (16H				
OGRID No.	-	Operator Name				
6137	DEVON ENERGY PROI	DEVON ENERGY PRODUCTION COMPANY, L.P.				

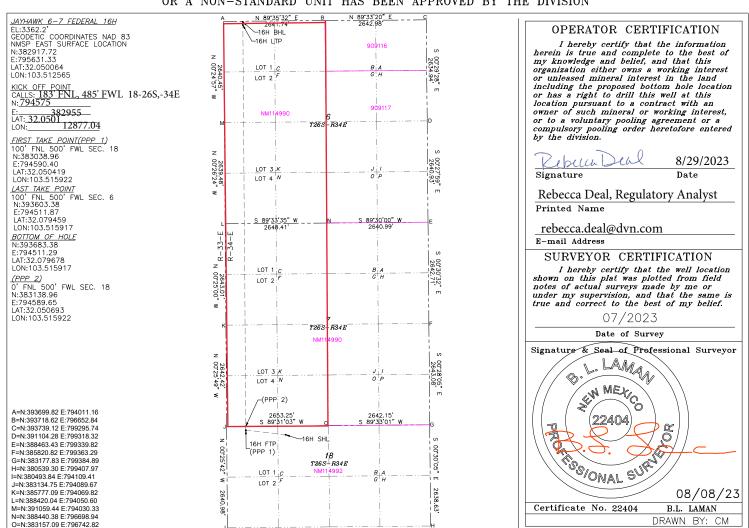
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
С	18	26-S	34-E		230	NORTH	1540	WEST	LEA	

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	26-S	34-E		20	NORTH	500	WEST	LEA
Dedicated Acres Joint or Infill Consolidation Code		Code Or	der No.						
640									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Inten	t	As Dril	led											
API#														
DE\	rator Nai /ON EN MPANY	IERGY F	N		erty Na HAWI			DER	AL			Well Number 16H		
						1								
Kick (Off Point	(K∪b)												
UL	Section	Township	Range	Lot	Feet		From N	/s	Feet		From	n E/W	County	
	18	26S	34E		183		FNL		485			VL		EA .
Latitu		.0501			Longitu		-103.516:	1					NAD 8	3
First	Гаke Poir	nt (FTP)												
UL	Section 18	Township 26-S	Range 34-E	Lot 1	Feet 100		From N,		Feet 500		From	ST	County LEA	
Latitu	ıde	I		1 -	Longitu	ude							NAD	
32.	0504	19			103	.515	922	<u> </u>					83	
Last T	ake Poin	t (LTP)												
UL	Section	Township	Range	Lot	Feet	From		Feet		From	E/W	Count		
Latitu	6 ude	26-S	34-E	1	100 Longitu		RTH	500)	WE:	<u> </u>	LEA NAD	\	
	0794	59				.515	5917	7				83		
										_				
Is this	well the	defining v	vell for th	e Hori	zontal S _l	pacing	Unit?							
Is this	well an	infill well?												
	ll is yes p ng Unit.	lease prov	ide API if	availat	ole, Ope	rator N	lame a	and v	vell n	umbei	r for I	Definir	ng well fo	r Horizontal
API#			7											
						1_								
Ope	rator Nai	me:				Prop	erty Na	ame:						Well Number
DI	EVON ENERG	SY PRODUCTIO	N COMPANY	, LP		JAYH	IAWK 6-7	FED						26H
<u> </u>														KZ 06/20/2019

KZ 06/29/2018

U. S. Steel Tubular Products 10.750" 40.50lb/ft (0.350" Wall) H40

11/4/2021 10:14:32 AM

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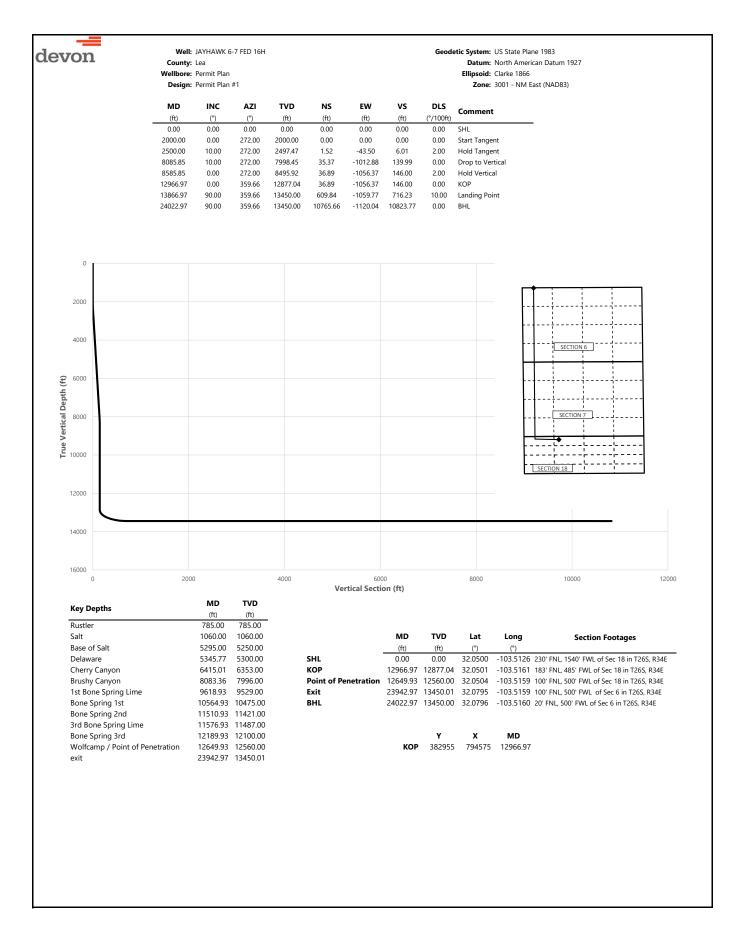
MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC		
Minimum Yield Strength	40,000				psi	
Maximum Yield Strength	80,000				psi	
Minimum Tensile Strength	60,000				psi	
DIMENSIONS	Pipe	втс	LTC	STC		
Outside Diameter	10.750	0.000	0.000	11.750	in.	
Wall Thickness	0.350				in.	
Inside Diameter	10.050			10.050	in.	
Standard Drift	9.894	9.894	9.894	9.894	in.	
Alternate Drift					in.	
Nominal Linear Weight, T&C	40.50				lb/ft	
Plain End Weight	38.91				lb/ft	
PERFORMANCE	Pipe	втс	LTC	STC		
I LIN ONWANGE	ripe	ыс	LIC	0.0		
Minimum Collapse Pressure	1,390	1,390	1,390	1,390	psi	
	•				psi psi	
Minimum Collapse Pressure	1,390	1,390	1,390	1,390		
Minimum Collapse Pressure Minimum Internal Yield Pressure	1,390 2,280	1,390 2,280	1,390 2,280	1,390 2,280	psi	
Minimum Collapse Pressure Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength	1,390 2,280 457	1,390 2,280 	1,390 2,280 	1,390 2,280 	psi 1,000 lbs	
Minimum Collapse Pressure Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength	1,390 2,280 457	1,390 2,280 	1,390 2,280 	1,390 2,280 314	psi 1,000 lbs 1,000 lbs	
Minimum Collapse Pressure Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Reference Length	1,390 2,280 457 	1,390 2,280 	1,390 2,280 	1,390 2,280 314 5,164	psi 1,000 lbs 1,000 lbs	
Minimum Collapse Pressure Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Reference Length MAKE-UP DATA	1,390 2,280 457 Pipe	1,390 2,280 BTC	1,390 2,280 LTC	1,390 2,280 314 5,164 STC	psi 1,000 lbs 1,000 lbs ft	
Minimum Collapse Pressure Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Reference Length MAKE-UP DATA Make-Up Loss	1,390 2,280 457 Pipe	1,390 2,280 BTC	1,390 2,280 LTC	1,390 2,280 314 5,164 STC 3.50	psi 1,000 lbs 1,000 lbs ft in.	

Notes

Legal Notice

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

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





County: Lea Wellbore: Permit Plan

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

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

	Design: Permit Plan #1			Zone : 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00 100.00	0.00	0.00 272.00	0.00 100.00	0.00	0.00	0.00	0.00	SHL
200.00	0.00	272.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	272.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	272.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	272.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	272.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	272.00	700.00	0.00	0.00	0.00	0.00	
785.00	0.00	272.00	785.00	0.00	0.00	0.00	0.00	Rustler
800.00 900.00	0.00	272.00 272.00	800.00 900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	272.00	1000.00	0.00	0.00	0.00	0.00	
1060.00	0.00	272.00	1060.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	272.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	272.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	272.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	272.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	272.00	1500.00	0.00	0.00	0.00	0.00	
1600.00 1700.00	0.00	272.00 272.00	1600.00 1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	272.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	272.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	272.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	272.00	2099.98	0.06	-1.74	0.24	2.00	-
2200.00	4.00	272.00	2199.84	0.24	-6.97	0.96	2.00	
2300.00	6.00	272.00	2299.45	0.55	-15.68	2.17	2.00	
2400.00	8.00	272.00	2398.70	0.97	-27.86	3.85	2.00	
2500.00	10.00	272.00	2497.47	1.52	-43.50	6.01	2.00	Hold Tangent
2600.00 2700.00	10.00 10.00	272.00 272.00	2595.95 2694.43	2.12 2.73	-60.85 -78.20	8.41 10.81	0.00	
2800.00	10.00	272.00	2792.91	3.34	-95.56	13.21	0.00	
2900.00	10.00	272.00	2891.39	3.94	-112.91	15.61	0.00	
3000.00	10.00	272.00	2989.87	4.55	-130.27	18.00	0.00	
3100.00	10.00	272.00	3088.35	5.15	-147.62	20.40	0.00	
3200.00	10.00	272.00	3186.83	5.76	-164.98	22.80	0.00	
3300.00	10.00	272.00	3285.31	6.37	-182.33	25.20	0.00	
3400.00	10.00	272.00	3383.79	6.97	-199.68	27.60	0.00	
3500.00 3600.00	10.00 10.00	272.00 272.00	3482.27 3580.75	7.58 8.18	-217.04 -234.39	30.00 32.40	0.00	
3700.00	10.00	272.00	3679.23	8.79	-251.75	34.79	0.00	
3800.00	10.00	272.00	3777.72	9.40	-269.10	37.19	0.00	
3900.00	10.00	272.00	3876.20	10.00	-286.46	39.59	0.00	
4000.00	10.00	272.00	3974.68	10.61	-303.81	41.99	0.00	
4100.00	10.00	272.00	4073.16	11.21	-321.16	44.39	0.00	
4200.00	10.00	272.00	4171.64	11.82	-338.52	46.79	0.00	
4300.00	10.00	272.00	4270.12	12.43	-355.87	49.19	0.00	
4400.00 4500.00	10.00 10.00	272.00 272.00	4368.60 4467.08	13.03 13.64	-373.23 -390.58	51.58 53.98	0.00	
4600.00	10.00	272.00	4565.56	14.24	-390.36 -407.93	56.38	0.00	
4700.00	10.00	272.00	4664.04	14.85	-425.29	58.78	0.00	
4800.00	10.00	272.00	4762.52	15.46	-442.64	61.18	0.00	
4900.00	10.00	272.00	4861.00	16.06	-460.00	63.58	0.00	
5000.00	10.00	272.00	4959.48	16.67	-477.35	65.98	0.00	
5100.00	10.00	272.00	5057.97	17.27	-494.71	68.37	0.00	
5200.00 5295.00	10.00 10.00	272.00 272.00	5156.45 5250.00	17.88 18.46	-512.06 -528.55	70.77 73.05	0.00	Base of Salt
5295.00	10.00	272.00	5250.00 5254.93	18.49	-528.55 -529.41	73.05 73.17	0.00	pase of Salt
5345.77	10.00	272.00	5300.00	18.76	-537.36	74.27	0.00	Delaware
5400.00	10.00	272.00	5353.41	19.09	-546.77	75.57	0.00	
5500.00	10.00	272.00	5451.89	19.70	-564.12	77.97	0.00	
5600.00	10.00	272.00	5550.37	20.30	-581.48	80.37	0.00	
5700.00	10.00	272.00	5648.85	20.91	-598.83	82.76	0.00	
5800.00	10.00	272.00	5747.33	21.52	-616.19	85.16	0.00	
5900.00	10.00	272.00	5845.81	22.12	-633.54	87.56 80.06	0.00	
6000.00 6100.00	10.00 10.00	272.00 272.00	5944.29 6042.77	22.73 23.33	-650.89 -668.25	89.96 92.36	0.00	
6200.00	10.00	272.00	6141.25	23.94	-685.60	94.76	0.00	
6300.00	10.00	272.00	6239.73	24.55	-702.96	97.16	0.00	
6400.00	10.00	272.00	6338.22	25.15	-720.31	99.55	0.00	
6415.01	10.00	272.00	6353.00	25.24	-722.92	99.91	0.00	Cherry Canyon



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						Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6500.00	10.00	272.00	6436.70	25.76	-737.67	101.95	0.00	
6600.00	10.00	272.00	6535.18	26.36	-755.02	104.35	0.00	
6700.00	10.00	272.00	6633.66	26.97	-772.37	106.75	0.00	
6800.00	10.00	272.00	6732.14	27.57	-789.73	109.15	0.00	
6900.00	10.00	272.00	6830.62	28.18	-807.08	111.55	0.00	
7000.00	10.00	272.00	6929.10	28.79	-824.44	113.95	0.00	
7100.00	10.00	272.00	7027.58	29.39	-841.79	116.34	0.00	
7200.00	10.00	272.00	7126.06	30.00	-859.14	118.74	0.00	
7300.00	10.00	272.00	7224.54	30.60	-876.50	121.14	0.00	
7400.00	10.00	272.00	7323.02	31.21	-893.85	123.54	0.00	
7500.00	10.00	272.00	7421.50	31.82	-911.21	125.94	0.00	
7600.00	10.00	272.00	7519.99	32.42	-928.56	128.34	0.00	
7700.00	10.00	272.00	7618.47	33.03	-945.92	130.74	0.00	
7800.00	10.00	272.00	7716.95	33.63	-963.27	133.13	0.00	
7900.00	10.00	272.00	7815.43	34.24	-980.62	135.53	0.00	
8000.00	10.00	272.00	7913.91	34.85	-997.98	137.93	0.00	
8083.36	10.00	272.00	7996.00	35.35	-1012.44	139.93	0.00	Brushy Canyon
8085.85	10.00	272.00	7998.45	35.37	-1012.88	139.99	0.00	Drop to Vertical
8100.00	9.72	272.00	8012.39	35.46	-1015.30	140.33	2.00	DIOP to Vertical
8200.00	7.72	272.00	8111.23	35.98	-1030.44	142.42	2.00	
8300.00	5.72	272.00	8210.54	36.39	-1030.44	144.04	2.00	
8400.00	3.72	272.00	8310.20	36.68	-1042.13	145.17	2.00	
8500.00	1.72	272.00	8410.08	36.84	-1050.35	145.17	2.00	
								Hold Vertical
8585.85 8600.00	0.00	272.00 359.66	8495.92 8510.07	36.89 36.89	-1056.37 -1056.37	146.00 146.01	2.00 0.00	Hold Vertical
8700.00	0.00	359.66	8610.07	36.89	-1056.37	146.01	0.00	
8800.00 8900.00	0.00	359.66	8710.07	36.89	-1056.37	146.01	0.00	
	0.00	359.66	8810.07	36.89	-1056.37	146.01	0.00	
9000.00	0.00	359.66	8910.07	36.89	-1056.37	146.01	0.00	
9100.00	0.00	359.66	9010.07	36.89	-1056.37	146.01	0.00	
9200.00	0.00	359.66	9110.07	36.89	-1056.37	146.01	0.00	
9300.00	0.00	359.66	9210.07	36.89	-1056.37	146.01	0.00	
9400.00	0.00	359.66	9310.07	36.89	-1056.37	146.01	0.00	
9500.00	0.00	359.66	9410.07	36.89	-1056.37	146.01	0.00	
9600.00	0.00	359.66	9510.07	36.89	-1056.37	146.01	0.00	
9618.93	0.00	359.66	9529.00	36.89	-1056.37	146.01	0.00	1st Bone Spring Lime
9700.00	0.00	359.66	9610.07	36.89	-1056.37	146.01	0.00	
9800.00	0.00	359.66	9710.07	36.89	-1056.37	146.01	0.00	
9900.00	0.00	359.66	9810.07	36.89	-1056.37	146.01	0.00	
10000.00	0.00	359.66	9910.07	36.89	-1056.37	146.01	0.00	
10100.00	0.00	359.66	10010.07	36.89	-1056.37	146.01	0.00	
10200.00	0.00	359.66	10110.07	36.89	-1056.37	146.01	0.00	
10300.00	0.00	359.66	10210.07	36.89	-1056.37	146.01	0.00	
10400.00	0.00	359.66	10310.07	36.89	-1056.37	146.01	0.00	
10500.00	0.00	359.66	10410.07	36.89	-1056.37	146.01	0.00	
10564.93	0.00	359.66	10475.00	36.89	-1056.37	146.01	0.00	Bone Spring 1st
10600.00	0.00	359.66	10510.07	36.89	-1056.37	146.01	0.00	
10700.00	0.00	359.66	10610.07	36.89	-1056.37	146.01	0.00	
10800.00	0.00	359.66	10710.07	36.89	-1056.37	146.01	0.00	
10900.00	0.00	359.66	10810.07	36.89	-1056.37	146.01	0.00	
11000.00	0.00	359.66	10910.07	36.89	-1056.37	146.01	0.00	
11100.00	0.00	359.66	11010.07	36.89	-1056.37	146.01	0.00	
11200.00	0.00	359.66	11110.07	36.89	-1056.37	146.01	0.00	
11300.00	0.00	359.66	11210.07	36.89	-1056.37	146.01	0.00	
11400.00	0.00	359.66	11310.07	36.89	-1056.37	146.01	0.00	
11500.00	0.00	359.66	11410.07	36.89	-1056.37	146.01	0.00	
11510.93	0.00	359.66	11421.00	36.89	-1056.37	146.01	0.00	Bone Spring 2nd
11576.93	0.00	359.66	11487.00	36.89	-1056.37	146.01	0.00	3rd Bone Spring Lime
11600.00	0.00	359.66	11510.07	36.89	-1056.37	146.01	0.00	
11700.00	0.00	359.66	11610.07	36.89	-1056.37	146.01	0.00	
11800.00	0.00	359.66	11710.07	36.89	-1056.37	146.01	0.00	
11900.00	0.00	359.66	11810.07	36.89	-1056.37	146.01	0.00	
12000.00	0.00	359.66	11910.07	36.89	-1056.37	146.01	0.00	
12100.00	0.00	359.66	12010.07	36.89	-1056.37	146.01	0.00	
12189.93	0.00	359.66	12100.00	36.89	-1056.37	146.01	0.00	Bone Spring 3rd
12200.00	0.00	359.66	12110.07	36.89	-1056.37	146.01	0.00	٠ - و ١
12300.00	0.00	359.66	12210.07	36.89	-1056.37	146.01	0.00	
12400.00	0.00	359.66	12310.07	36.89	-1056.37	146.01	0.00	
12500.00	0.00	359.66	12410.07	36.89	-1056.37	146.01	0.00	
	0.00	359.66	12510.07	36.89	-1056.37	146.01	0.00	
12600.00								



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

Geodetic System: US State Plane 1983

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

Zone: 3001 - NM East (NAD83)

	Design: Permit Plan #1					Zone: 3001 - NM East (NAD83)			
MD	INC	AZI	TVD	NS	EW	vs	DLS		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
12649.93	0.00	359.66	12560.00	36.89	-1056.37	146.01	0.00	Wolfcamp / Point	
2700.00	0.00	359.66	12610.07	36.89	-1056.37	146.01	0.00	, , , , , , , , , , , , , , , , , , ,	
800.00	0.00	359.66	12710.07	36.89	-1056.37	146.01	0.00		
2900.00	0.00	359.66	12810.07	36.89	-1056.37	146.01	0.00		
2966.97	0.00	359.66	12877.04	36.89	-1056.37	146.00	0.00	KOP	
3000.00	3.30	359.66	12910.05	37.84	-1056.38	146.95	10.00		
3100.00	13.30	359.66	13008.88	52.26	-1056.46	161.31	10.00		
3200.00	23.30	359.66	13103.70	83.63	-1056.65	192.52	10.00		
3300.00	33.30	359.66	13191.63	130.98	-1056.93	239.65	10.00		
3400.00	43.30	359.66	13270.01	192.88	-1057.30	301.25	10.00		
3500.00	53.30	359.66	13336.44	267.45	-1057.74	375.47	10.00		
3600.00	63.30	359.66	13388.92	352.42	-1058.25	460.04	10.00		
3700.00	73.30	359.66	13425.84	445.22	-1058.80	552.40	10.00		
3800.00	83.30	359.66	13446.09	543.02	-1059.38	649.73	10.00		
3866.97	90.00	359.66	13450.00	609.84	-1059.77	716.23	10.00	Landing Point	
3900.00	90.00	359.66	13450.00	642.86	-1059.97	749.10	0.00		
1000.00	90.00	359.66	13450.00	742.86	-1060.56	848.62	0.00		
4100.00	90.00	359.66	13450.00	842.86	-1061.16	948.15	0.00		
4200.00	90.00	359.66	13450.00	942.86	-1061.75	1047.67	0.00		
4300.00	90.00	359.66 359.66	13450.00	1042.86	-1062.35 -1062.94	1147.19	0.00		
4400.00 4500.00	90.00 90.00	359.66 359.66	13450.00 13450.00	1142.86 1242.85	-1062.94 -1063.53	1246.71 1346.24	0.00		
4600.00	90.00	359.66 359.66	13450.00	1342.85	-1063.53	1445.76	0.00		
4700.00	90.00	359.66	13450.00	1442.85	-1064.13	1545.28	0.00		
4800.00	90.00	359.66	13450.00	1542.85	-1064.72	1644.80	0.00		
1900.00	90.00	359.66	13450.00	1642.85	-1065.91	1744.33	0.00		
5000.00	90.00	359.66	13450.00	1742.84	-1066.50	1843.85	0.00		
5100.00	90.00	359.66	13450.00	1842.84	-1067.10	1943.37	0.00		
5200.00	90.00	359.66	13450.00	1942.84	-1067.69	2042.90	0.00		
5300.00	90.00	359.66	13450.00	2042.84	-1068.28	2142.42	0.00		
5400.00	90.00	359.66	13450.00	2142.84	-1068.88	2241.94	0.00		
5500.00	90.00	359.66	13450.00	2242.84	-1069.47	2341.46	0.00		
5600.00	90.00	359.66	13450.00	2342.83	-1070.07	2440.99	0.00		
5700.00	90.00	359.66	13450.00	2442.83	-1070.66	2540.51	0.00		
5800.00	90.00	359.66	13450.00	2542.83	-1071.25	2640.03	0.00		
5900.00	90.00	359.66	13450.00	2642.83	-1071.85	2739.56	0.00		
6000.00	90.00	359.66	13450.00	2742.83	-1072.44	2839.08	0.00		
6100.00	90.00	359.66	13450.00	2842.83	-1073.04	2938.60	0.00		
6200.00	90.00	359.66	13450.00	2942.82	-1073.63	3038.12	0.00		
6300.00	90.00	359.66	13450.00	3042.82	-1074.22	3137.65	0.00		
6400.00	90.00	359.66	13450.00	3142.82	-1074.82	3237.17	0.00		
6500.00	90.00	359.66	13450.00	3242.82	-1075.41	3336.69	0.00		
6600.00	90.00	359.66	13450.00	3342.82	-1076.01	3436.22	0.00		
16700.00	90.00	359.66	13450.00	3442.81	-1076.60	3535.74	0.00		
6800.00	90.00	359.66	13450.00	3542.81	-1077.19	3635.26	0.00		
6900.00	90.00	359.66	13450.00	3642.81	-1077.79	3734.78	0.00		
7000.00	90.00	359.66	13450.00	3742.81	-1078.38	3834.31	0.00		
7100.00	90.00	359.66	13450.00	3842.81	-1078.98	3933.83	0.00		
7200.00	90.00	359.66	13450.00	3942.81	-1079.57	4033.35	0.00		
7300.00	90.00	359.66	13450.00	4042.80	-1080.16	4132.88	0.00		
7400.00	90.00	359.66	13450.00	4142.80	-1080.76	4232.40	0.00		
7500.00	90.00	359.66	13450.00	4242.80	-1081.35	4331.92	0.00		
7600.00	90.00	359.66	13450.00	4342.80	-1081.95	4431.44	0.00		
7700.00 7800.00	90.00	359.66 359.66	13450.01	4442.80	-1082.54 -1083.13	4530.97 4630.49	0.00		
7800.00	90.00 90.00	359.66 359.66	13450.01 13450.01	4542.80 4642.79	-1083.13 -1083.73	4630.49 4730.01	0.00		
8000.00	90.00	359.66	13450.01	4742.79	-1083.73	4829.54	0.00		
8100.00	90.00	359.66	13450.01	4842.79	-1084.32	4929.06	0.00		
8200.00	90.00	359.66	13450.01	4942.79	-1085.51	5028.58	0.00		
8300.00	90.00	359.66	13450.01	5042.79	-1086.10	5128.10	0.00		
8400.00	90.00	359.66	13450.01	5142.78	-1086.70	5227.63	0.00		
8500.00	90.00	359.66	13450.01	5242.78	-1087.29	5327.15	0.00		
18600.00	90.00	359.66	13450.01	5342.78	-1087.88	5426.67	0.00		
18700.00	90.00	359.66	13450.01	5442.78	-1088.48	5526.20	0.00		
18800.00	90.00	359.66	13450.01	5542.78	-1089.07	5625.72	0.00		
8900.00	90.00	359.66	13450.01	5642.78	-1089.67	5725.24	0.00		
9000.00	90.00	359.66	13450.01	5742.77	-1090.26	5824.76	0.00		
9100.00	90.00	359.66	13450.01	5842.77	-1090.85	5924.29	0.00		
19200.00	90.00	359.66	13450.01	5942.77	-1091.45	6023.81	0.00		
9300.00	90.00	359.66	13450.01	6042.77	-1092.04	6123.33	0.00		



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

Datum: North American Datum 1927

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

MD INC TVD EW vs AZI NS DLS Comment (°/100ft) (ft) (°) (°) (ft) (ft) (ft) (ft) 19400.00 90.00 359.66 13450.01 6142.77 -1092.646222.86 0.00 19500.00 90.00 359.66 13450.01 6242.77 -1093.23 6322.38 0.00 19600.00 90.00 359.66 13450.01 6342.76 -1093.82 6421.90 0.00 19700.00 90.00 359.66 13450.01 6442.76 -1094.42 6521.42 0.00 19800.00 90.00 359.66 13450.01 6542.76 -1095.01 6620.95 0.00 19900.00 90.00 359.66 13450.01 6642.76 -1095.61 6720.47 0.00 20000.00 90.00 359.66 13450.01 6742.76 -1096.20 6819.99 0.00 20100.00 90.00 359.66 13450.01 6842.75 -1096.79 6919.52 0.00 20200.00 90.00 359.66 13450.01 6942.75 -1097.39 7019.04 0.00 20300.00 90.00 359.66 13450.01 7042.75 -1097.98 7118.56 0.00 20400.00 359.66 13450.01 7142.75 -1098.58 7218.08 90.00 0.00 20500.00 90.00 359.66 13450.01 7242.75 -1099.17 7317.61 0.00 20600.00 90.00 359.66 13450.01 7342.75 -1099.76 7417.13 0.00 20700.00 90.00 359.66 13450.01 7442.74 -1100.36 7516.65 20800.00 90.00 359.66 13450.01 7542.74 -1100.95 7616.18 0.00 20900.00 90.00 359.66 13450.01 7642.74 -1101.55 7715.70 0.00 21000.00 90.00 359.66 13450.01 7742.74 -1102.14 7815.22 0.00 21100.00 359.66 13450.01 7842.74 -1102.73 7914.74 90.00 0.00 21200.00 90.00 359.66 13450.01 7942.74 -1103.33 8014.27 0.00 21300.00 90.00 359.66 13450.01 8042.73 -1103.92 8113.79 0.00 21400.00 90.00 359.66 13450.01 8142.73 -1104.52 8213.31 0.00 21500.00 90.00 359.66 13450.01 8242.73 -1105.11 8312.84 0.00 21600.00 90.00 359 66 13450 01 8342 73 -1105 70 8412.36 0.00 21700.00 90.00 359.66 13450.01 8442.73 -1106.30 8511.88 0.00 21800.00 90.00 359.66 13450.01 8542.72 -1106.89 8611.40 0.00 21900.00 90.00 359.66 13450.01 8642.72 -1107.48 8710.93 0.00 22000.00 90.00 359.66 13450.01 8742 72 -1108.08 8810.45 0.00 22100.00 90.00 359.66 13450.01 8842.72 -1108.67 8909.97 0.00 22200.00 90.00 359.66 13450.01 8942.72 -1109.27 9009.50 0.00 22300.00 90.00 359.66 13450.01 9042.72 -1109.86 9109.02 0.00 22400.00 90.00 359.66 13450.01 9142.71 -1110.45 9208.54 0.00 22500.00 90.00 13450.01 9242.71 -1111.05 9308.06 0.00 359.66 22600.00 13450.01 9342.71 -1111.64 9407.59 90.00 359.66 0.00 22700.00 90.00 359.66 13450.01 9442.71 -1112.24 9507.11 0.00 22800.00 90.00 359.66 13450.01 9542 71 -1112.83 9606.63 0.00 22900.00 90.00 359.66 13450.01 9642.71 -1113.42 9706.16 0.00 23000.00 90.00 359.66 13450.01 9742.70 -1114.02 9805.68 0.00 23100.00 90.00 359.66 13450.01 9842.70 -1114.61 9905.20 0.00 23200.00 90.00 359.66 13450.01 9942.70 -1115.21 10004.72 23300.00 90.00 359.66 10042.70 -1115.80 10104.25 0.00 13450.01 23400.00 90.00 359.66 13450.01 10142.70 -1116.39 10203.77 0.00 23500.00 90.00 359.66 13450.01 10242.69 -1116.99 10303.29 0.00 23600.00 -1117.58 90.00 359.66 13450.01 10342.69 10402.82 0.00 23700.00 90.00 359.66 13450.01 10442.69 -1118.18 10502.34 0.00 23800.00 90.00 359.66 13450.01 10542.69 -1118.77 10601.86 0.00 23900.00 90.00 359.66 13450.01 10642.69 -1119.36 10701.38 0.00 23942.97 90.00 359.66 13450.01 10685.66 -1119.62 10744.15 0.00 exit 24000.00 359.66 13450.01 10742.69 10800.91 90.00 -1119.96 0.00

24022.97

90.00

359.66

13450.00

10765.66 -1120.04

10823.77

0.00 BHL

Received by OCD: 9/19/2023 10:09:19 AM

Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

OD	Weight (lb/ft)	Wall Th.	Grade	Alt. Drift:	Connection
8 5/8 in.	Nominal: 32.00	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-FJ
	Plain End: 31.13		'		

PIPE PROPERTIES		
Nominal OD	8.625	in.
Nominal ID	7.921	in.
Nominal Cross Section Area	9.149	sqin.
Grade Type	Hig	h Yield
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Ultimate Tensile Strength	135	ksi

CONNECTION PRO	NOTITE C	
CONNECTION PRO	PERITES	
Connection Type	Semi-Premium Into	egral Flush
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe
External Pressure Efficiency	100	% of pipe

CONNECTION PERFORMANCES		
Tensile Yield Strength	744	klb
Compression Resistance	744	klb
Max. Internal Pressure	7,150	psi
Structural Collapse Resistance	4,000	psi
Max. Bending with Sealability	41	°/100ft
Max. Bending with Sealability	10	°/100ft

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

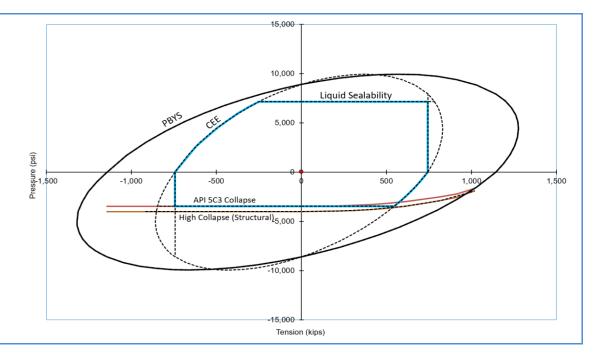
canada@vamfieldservice.com usa@vamfieldservice.com

mexico@vamfieldservice.com

brazil@vamfieldservice.com

* 87.5% RBW

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



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

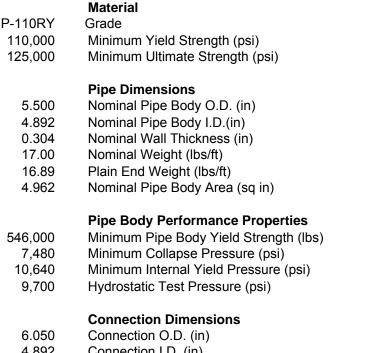
uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

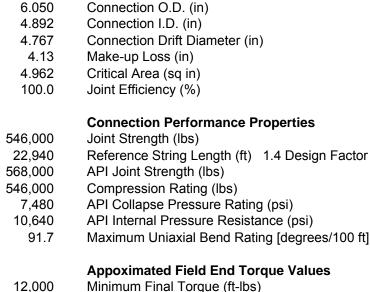
Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance



Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C Casing	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY
standard			
Motor	rial	_	





Maximum Final Torque (ft-lbs)

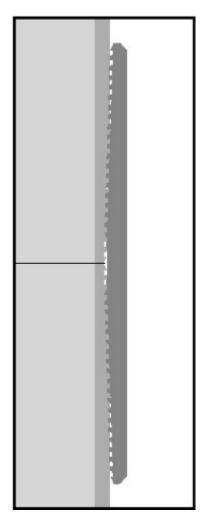
Connection Yield Torque (ft-lbs)



VAM-USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200

E-mail: VAMUSAsales@vam-usa.com

Fax: 713-479-3234



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

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

11/13/2013 3:17:42 PM

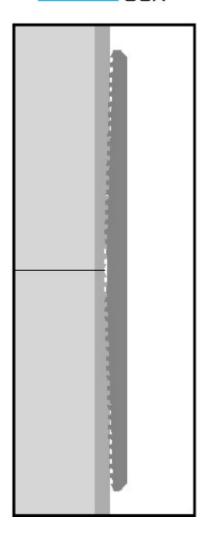
13,800

15,500

VA CUSA

DWC Connection Data Notes:

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



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

11/13/2013 3:17:42 PM

JAYHAWK 6-7 FED 16H

1. Geologic Formations

TVD of target	13450	Pilot hole depth	N/A
MD at TD:	24023	Deepest expected fresh water	

Basin

Dasin	Depth	Water/Mineral	
Fa			II
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	785		
Salt	1060		
Base of Salt	5250		
Delaware	5300		
Cherry Canyon	6353		
Brushy Canyon	7996		
1st Bone Spring Lime	9529		
Bone Spring 1st	10475		
Bone Spring 2nd	11421		
3rd Bone Spring Lime	11487		
Bone Spring 3rd	12100		
Wolfcamp	12560		

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

2. Casing Program (Primary Design)

		Wt	Grade Conn			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)		From (MD)	To (MD)	From (TVD)	To (TVD)		
14 3/4	10 3/4	40 1/2	H40	ВТС	0	810	0	810	
9 7/8	8 5/8	32	P110	Sprint FJ	0	12760	0	12760	
7 7/8	5 1/2	17	P110	DWC / C-IS+	0	24023	0	13450	

[•]All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	494	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	435	Surf	9	3.27	Lead: Class C Cement + additives
1111.1	465	8760	13.2	1.44	Tail: Class H / C + additives
Int 1	565	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	435	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	8760	13.2	1.44	Tail: Class H / C + additives
Duodvotion	117	10967	9	3.27	Lead: Class H /C + additives
Production	1463	12967	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ty	ype	✓	Tested to:						
			Anı	nular	X	50% of rated working pressure						
Int 1	13-5/8"	5M	Blind	d Ram	X							
IIIt I	13-3/6	JIVI	Pipe	Ram		5M						
			Doub	le Ram	X	3101						
			Other*									
	13-5/8"		Annular (5M)		X	100% of rated working pressure						
5		10M	Blind Ram		X							
Production			Pipe Ram			101/						
										Doub	le Ram	X
			Other*									
			Annul	ar (5M)								
			Blind Ram									
			Pipe Ram]						
			Double Ram]						
			Other*									
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				schematic.							
Y A variance is requested to a	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.

Additional l	ogs 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	7344
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.

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8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments	
X	Directional Plan
	Other, describe

Fighting Okra 18-19 Fed 16H

10 3/4	surface o	sg in a	14 3/4	inch hole.		Design I	Factors -		Surfa			ice		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight		
"A"	40.50	h	40	btc	13.93	3.67	0.33	810	6	0.55	6.93	32,805		
"B"				btc				0				0		
w/8.4#	/g mud, 30min Sf	c Csg Test psig:	1,243	Tail Cmt	does not	circ to sfc.	Totals:	810				32,805		
Comparison of	Comparison of Proposed to Minimum Required Cement Volumes													
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist		
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg		
14 3/4	0.5563	494	711	451	58	9.00	4153	5M				2.00		
Burst Frac Grad	dient(s) for Segn	nent(s) A, B =	, b All > 0.70	, OK.										
									,		**			

8 5/8	casing ins	side the	10 3/4	<u>Design Factors</u>					7	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	р	110	vam sprint fj	1.82	0.57	0.97	12,760	1	1.63	0.96	408,320
"B"								0				0
w/8.4	#/g mud, 30min Sf	c Csg Test psig:					Totals:	12,760				408,320
The cement volume(s) are intended to achieve a top of					0	ft from su	ırface or a	810				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	900	2092	1625	29	10.50	4377	5M				0.61
Class 'H' tail cmt yld > 1.20												
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.56, b, c, d <0.70 a												
Problem!!												

Tail cmt Prod 1 casing inside the **Design Factors** 5 1/2 8 5/8 Segment #/ft Grade Coupling Collapse Length a-B a-C Weight Joint **Burst** B@s "A" 17.00 p 110 dwc/c is+ 2.39 1.02 1.45 24,023 2.43 1.71 408,391 "B" 0 0 w/8.4#/g mud, 30min Sfc Csg Test psig: 2,959 Totals: 24,023 408,391 The cement volume(s) are intended to achieve a top of 12560 ft from surface or a 200 overlap. Hole Annular 1 Stage 1 Stage Min 1 Stage **Drilling** Calc Req'd Min Dist Size Volume **Cmt Sx CuFt Cmt** Cu Ft % Excess **Mud Wt MASP BOPE** Hole-Cplg 2434 1987 23 10.50 0.91 7 7/8 0.1733 1580

	<choose casing=""></choose>				actors	Design		5 1/2				0
Weight	a-C	a-B	B@s	Length	Burst	Collapse	#N/A	Coupling		Grade	#/ft	Segment
0			_	0		-		0.00				"A"
0				0				0.00				"B"
0				0	Totals:					Csg Test psig:	t/g mud, 30min Sf	w/8.4#
overlap.				#N/A	rface or a	ft from su	#N/A	TOC intended	ludes this csg,	alc below inc	Cmt vol ca	
Min Dist				Req'd	Calc	Drilling	1 Stage	Min	1 Stage	1 Stage	Annular	Hole
Hole-Cplg				BOPE	MASP	Mud Wt	% Excess	Cu Ft	CuFt Cmt	Cmt Sx	Volume	Size
							#N/A	0	#N/A	#N/A		0
	#N/A Capitan Reef est top XXXX.											
								•				#N/A

Carlsbad Field Office 9/19/2023

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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 266856

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	266856
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	10/26/2023