

Well Name: FIGHTING OKRA 18-19 FED	Well Location: T26S / R34E / SEC 18 / NENE / 32.0495993 / -103.5046387	County or Parish/State: LEA / NM
Well Number: 18H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114992	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547575	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2748871

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/31/2023

Time Sundry Submitted: 09:26

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: Pool Code change from Wildcat: Lower Wolfcamp Oil to WC-025 G-10 S263418C; LWR WOLFCAMP Dedicated acreage change from 320 acs to 640 acs. TVD/MD change from 13524'/23821' to 13450'/23778' Surface Casing size change from 17.5"/13.375" to 14.75"/10.75". Cement volume changes to accommodate casing change. Please see attached revised C-102 and drilling & directional plans.

NOI Attachments

Procedure Description

- 8.625_32lb_P110EC_SPRINT_FJ_VST_20230831140032.pdf
- 10.750_40.50lb_H40_20230831140032.pdf
- 5.5_17lb_P110RY_DWC_C_20230831140031.pdf
- FIGHTING_OKRA_18_19_FEDERAL_18H_C_102_BHL_NOI_20230831092418.pdf
- FIGHTING_OKRA_18_19_FED_18H_20230831092415.pdf
- FIGHTING_OKRA_18_19_FED_18H_Directional_Plan_08_30_23_20230831092416.pdf

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Conditions of Approval

Specialist Review

Fighting_Okra_18_19_Fed_18H_Sundry_ID_2748871_20230920124352.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 02:00 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

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: 09/20/2023
Signature: Long Vo	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NENE / 400 FNL / 1300 FEL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0495993 / LONG: -103.5046387 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2122 FEL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0504233 / LONG: -103.5072924 (TVD: 13187 feet, MD: 13237 feet)

BHL: SWSE / 20 FSL / 2122 FEL / TWSP: 26S / RANGE: 34E / SECTION: 19 / LAT: 32.0217219 / LONG: -103.50726 (TVD: 13524 feet, MD: 23821 feet)

CONFIDENTIAL

Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

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

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

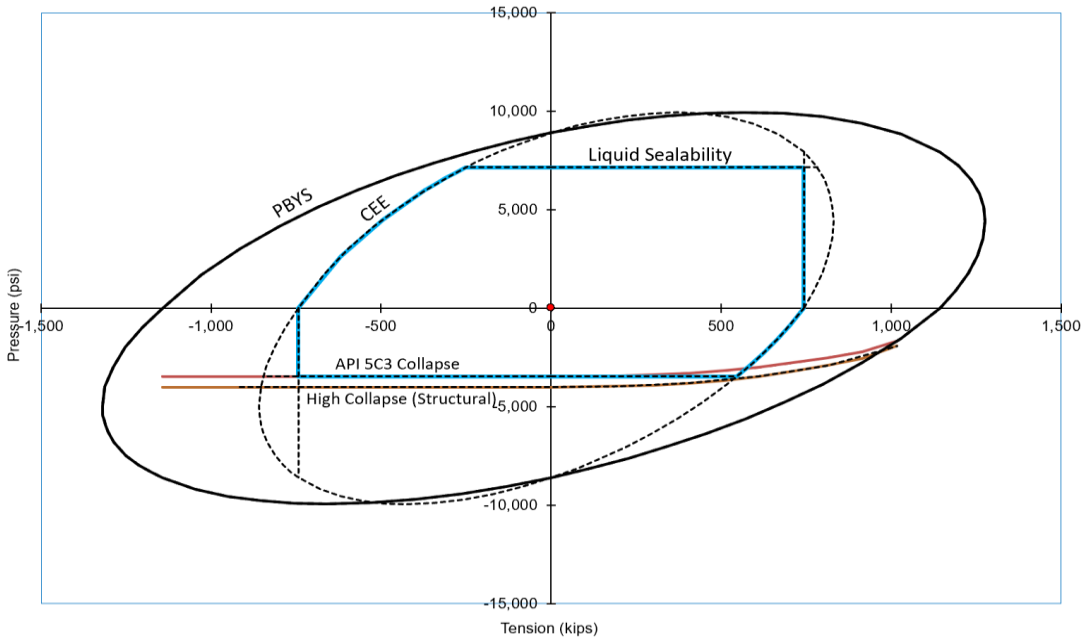
CONNECTION PROPERTIES		
Connection Type	Semi-Premium Integral Flush	
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe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

* 87.5% RBW

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

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.



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

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

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angola@vamfieldservice.com

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

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





U. S. Steel Tubular Products

10.750" 40.50lb/ft (0.350" Wall) H40

11/4/2021 10:14:32 AM

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	BTC	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	BTC	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	BTC	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

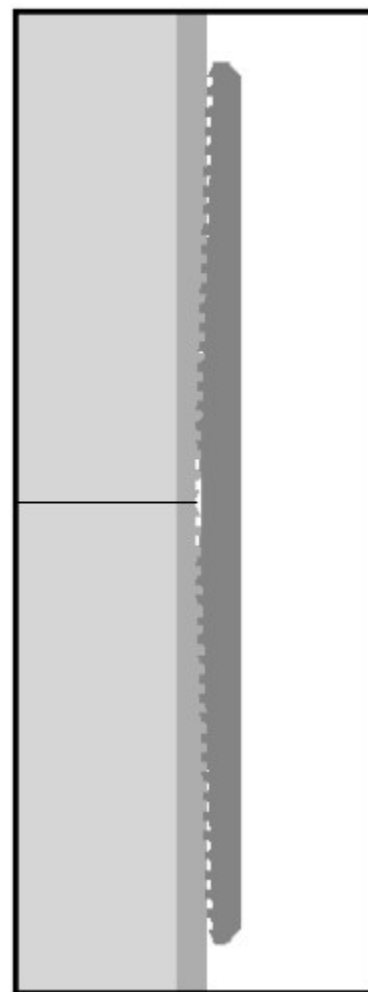
Technical Specifications

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

Material	
P-110RY	Grade
110,000	Minimum Yield Strength (psi)
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 (lbs/ft)
4.962	Nominal Pipe Body Area (sq in)
Pipe Body Performance Properties	
546,000	Minimum Pipe Body Yield Strength (lbs)
7,480	Minimum Collapse Pressure (psi)
10,640	Minimum Internal Yield Pressure (psi)
9,700	Hydrostatic Test Pressure (psi)
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



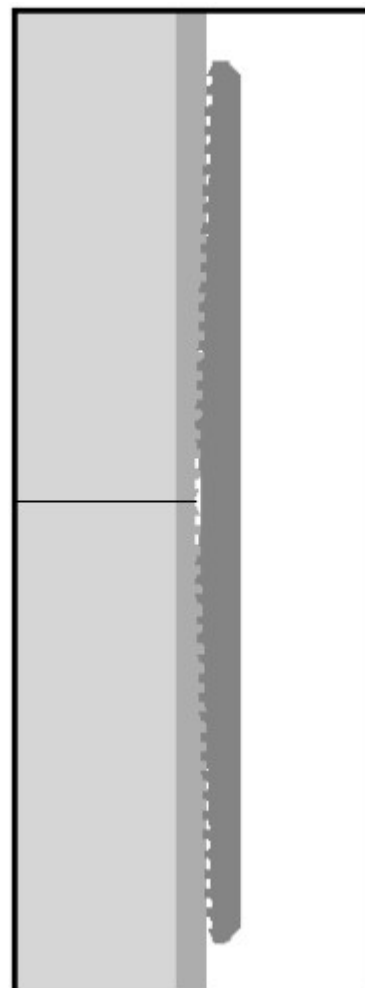
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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.

11/13/2013 3:17:42 PM

**DWC Connection Data Notes:**

1. DWC connections are available with a seal ring (SR) option.
2. 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.
4. 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.
7. 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.
11. 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

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47575	Pool Code 98347	Pool Name WC-025 G-10 S263418C;LWR WOLFCAMP
Property Code 315691	Property Name FIGHTING OKRA 18-19 FEDERAL	Well Number 18H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3369.9'

Surface Location

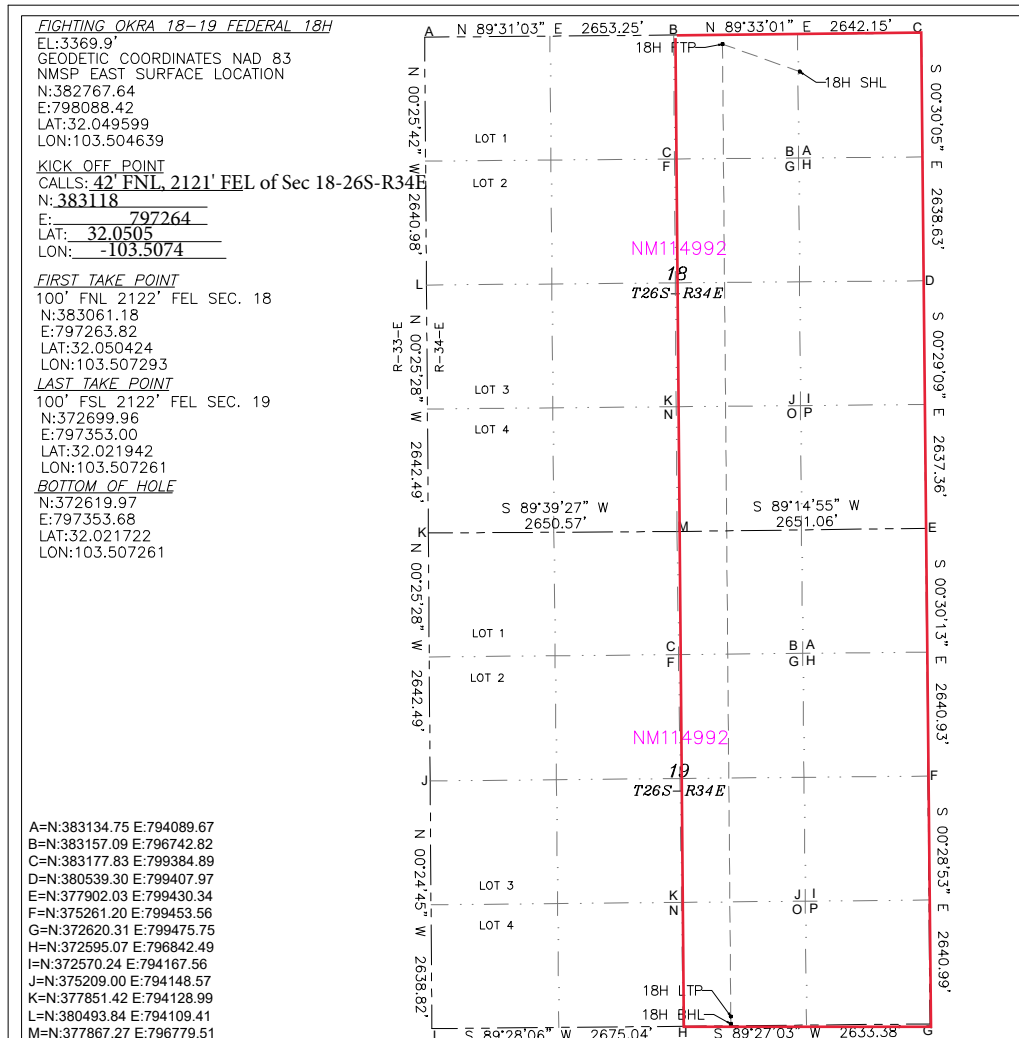
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	26-S	34-E		400	NORTH	1300	EAST	LEA

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
O	19	26-S	34-E		20	SOUTH	2122	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order 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



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 8/29/2023
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

07/2023

Date of Survey

Signature & Seal of Professional Surveyor



08/08/23

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☒ As Drilled ☐

API # 30-025-47575		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: FIGHTING OKRA 18-19 FEDERAL	Well Number 18H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	18	26S	34E		42	FNL	2121	FEL	LEA
Latitude 32.0505					Longitude -103.5074				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	18	26-S	34-E		100	NORTH	2122	EAST	LEA
Latitude 32.050424					Longitude 103.507293				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	19	26-S	34-E		100	SOUTH	2122	EAST	LEA
Latitude 32.021942					Longitude 103.507261				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NIs this well an infill well? ☐ Y

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

API #		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: FIGHTING OKRA 18-19 FED	Well Number 19H

KZ 06/29/2018

FIGHTING OKRA 18-19 FED 18H

1. Geologic Formations

TVD of target	13450	Pilot hole depth	N/A
MD at TD:	23778	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
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.

FIGHTING OKRA 18-19 FED 18H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	40 1/2	H40	BTC	0	810	0	810
9 7/8	8 5/8	32	P110	Sprint FJ	0	12860	0	12860
7 7/8	5 1/2	17	P110	DWC / C-IS+	0	23778	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	440	Surf	9	3.27	Lead: Class C Cement + additives
	465	8860	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	440	Surf	9	3.27	Lead: Class C Cement + additives
	465	8860	13.2	1.44	Tail: Class H / C + additives
Production	117	10953	9	3.27	Lead: Class H / C + additives
	1433	12953	13.2	1.44	Tail: Class H / C + additives

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

FIGHTING OKRA 18-19 FED 18H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:	
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	10M	Annular (5M)		X	100% of rated working pressure
				Blind Ram		X	10M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

FIGHTING OKRA 18-19 FED 18H

5. Mud Program (Three String Design)

Section	Type	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	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted 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	Specify 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.

Hydrogen 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	H ₂ S is present
Y	H ₂ S plan attached.

FIGHTING OKRA 18-19 FED 18H

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. At that time an approved BOP stack will be nipped 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

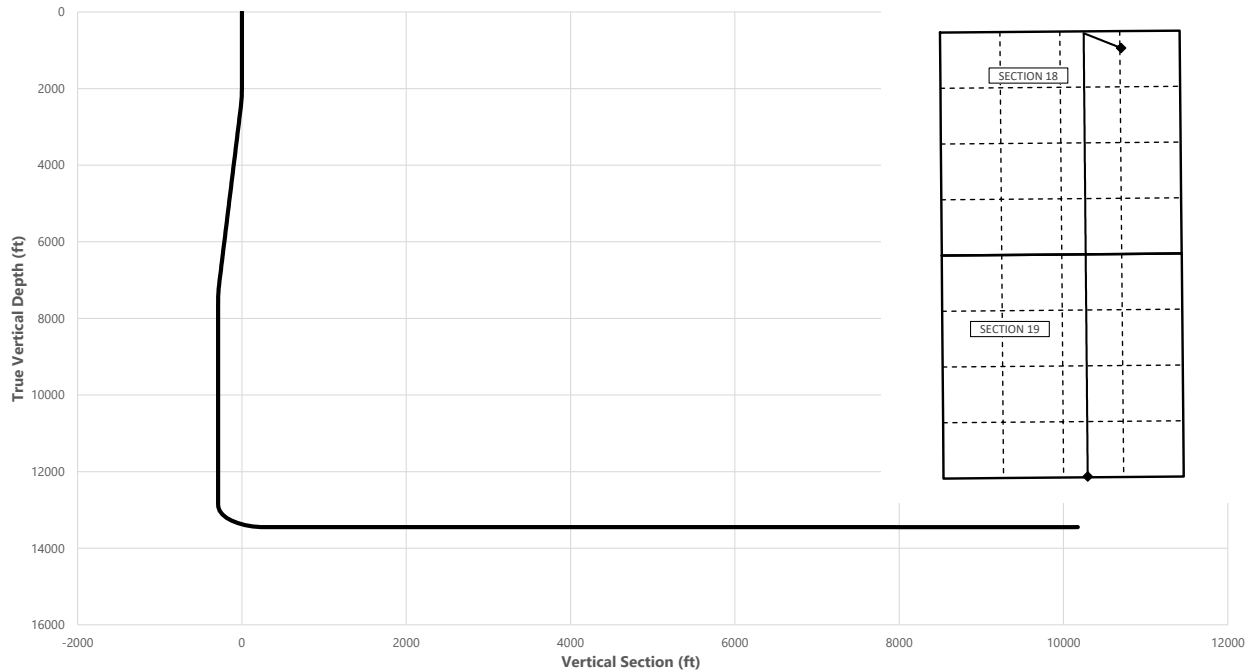
FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	293.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	293.00	2497.47	17.01	-40.06	-14.07	2.00	Hold Tangent
7157.00	10.00	293.00	7083.72	332.98	-784.46	-275.46	0.00	Drop to Vertical
7657.00	0.00	293.00	7581.18	349.99	-824.52	-289.53	2.00	Hold Vertical
12952.86	0.00	179.51	12877.04	349.99	-824.52	-289.53	0.00	KOP
13852.86	90.00	179.51	13450.00	-222.95	-819.62	281.56	10.00	Landing Point
23777.95	90.00	179.51	13450.00	-10147.67	-734.74	10174.23	0.00	BHL

**Key Depths**

	MD (ft)	TVD (ft)
Rustler	785.00	785.00
Salt	1060.00	1060.00
Base of Salt	5295.00	5250.00
Delaware	5345.77	5300.00
Cherry Canyon	6415.01	6353.00
Brushy Canyon	8071.82	7996.00
1st Bone Spring Lime	9604.82	9529.00
Bone Spring 1st	10550.82	10475.00
Bone Spring 2nd	11496.82	11421.00
3rd Bone Spring Lime	11562.82	11487.00
Bone Spring 3rd	12175.82	12100.00
Wolfcamp / Point of Penetration	12635.82	12560.00
exit	23697.95	13450.01

SHL
KOP
Point of Penetration
Exit
BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.0495	-103.5047	400' FNL, 1300' FEL of Sec 18 in T26S, R34E
12952.86	12877.04	32.0505	-103.5074	42' FNL, 2121' FEL of Sec 18 in T26S, R34E
12635.82	12560.00	32.0504	-103.5073	100' FNL, 2122' FEL of Sec 18 in T26S, R34E
23697.95	13450.01	32.0219	-103.5073	100' FSL, 2122' FEL of Sec 19 in T26S, R34E
23777.95	13450.00	32.0216	-103.5073	20' FSL, 2122' FEL of Sec 19 in T26S, R34E

	Y	X	MD
KOP	383118	797264	12952.86

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
 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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	293.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	293.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	293.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	293.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	293.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	293.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	293.00	700.00	0.00	0.00	0.00	0.00	
785.00	0.00	293.00	785.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	293.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	293.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	293.00	1000.00	0.00	0.00	0.00	0.00	
1060.00	0.00	293.00	1060.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	293.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	293.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	293.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	293.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	293.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	293.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	293.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	293.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	293.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	293.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	293.00	2099.98	0.68	-1.61	-0.56	2.00	
2200.00	4.00	293.00	2199.84	2.73	-6.42	-2.26	2.00	
2300.00	6.00	293.00	2299.45	6.13	-14.45	-5.07	2.00	
2400.00	8.00	293.00	2398.70	10.89	-25.66	-9.01	2.00	
2500.00	10.00	293.00	2497.47	17.01	-40.06	-14.07	2.00	Hold Tangent
2600.00	10.00	293.00	2595.95	23.79	-56.05	-19.68	0.00	
2700.00	10.00	293.00	2694.43	30.58	-72.03	-25.29	0.00	
2800.00	10.00	293.00	2792.91	37.36	-88.02	-30.91	0.00	
2900.00	10.00	293.00	2891.39	44.15	-104.00	-36.52	0.00	
3000.00	10.00	293.00	2989.87	50.93	-119.98	-42.13	0.00	
3100.00	10.00	293.00	3088.35	57.72	-135.97	-47.75	0.00	
3200.00	10.00	293.00	3186.83	64.50	-151.95	-53.36	0.00	
3300.00	10.00	293.00	3285.31	71.28	-167.94	-58.97	0.00	
3400.00	10.00	293.00	3383.79	78.07	-183.92	-64.58	0.00	
3500.00	10.00	293.00	3482.27	84.85	-199.91	-70.20	0.00	
3600.00	10.00	293.00	3580.75	91.64	-215.89	-75.81	0.00	
3700.00	10.00	293.00	3679.23	98.42	-231.88	-81.42	0.00	
3800.00	10.00	293.00	3777.72	105.21	-247.86	-87.03	0.00	
3900.00	10.00	293.00	3876.20	111.99	-263.84	-92.65	0.00	
4000.00	10.00	293.00	3974.68	118.78	-279.83	-98.26	0.00	
4100.00	10.00	293.00	4073.16	125.56	-295.81	-103.87	0.00	
4200.00	10.00	293.00	4171.64	132.35	-311.80	-109.49	0.00	
4300.00	10.00	293.00	4270.12	139.13	-327.78	-115.10	0.00	
4400.00	10.00	293.00	4368.60	145.92	-343.77	-120.71	0.00	
4500.00	10.00	293.00	4467.08	152.70	-359.75	-126.32	0.00	
4600.00	10.00	293.00	4565.56	159.49	-375.74	-131.94	0.00	
4700.00	10.00	293.00	4664.04	166.27	-391.72	-137.55	0.00	
4800.00	10.00	293.00	4762.52	173.06	-407.70	-143.16	0.00	
4900.00	10.00	293.00	4861.00	179.84	-423.69	-148.78	0.00	
5000.00	10.00	293.00	4959.48	186.63	-439.67	-154.39	0.00	
5100.00	10.00	293.00	5057.97	193.41	-455.66	-160.00	0.00	
5200.00	10.00	293.00	5156.45	200.20	-471.64	-165.61	0.00	
5295.00	10.00	293.00	5250.00	206.64	-486.83	-170.95	0.00	Base of Salt
5300.00	10.00	293.00	5254.93	206.98	-487.63	-171.23	0.00	
5345.77	10.00	293.00	5300.00	210.09	-494.94	-173.80	0.00	Delaware
5400.00	10.00	293.00	5353.41	213.77	-503.61	-176.84	0.00	
5500.00	10.00	293.00	5451.89	220.55	-519.60	-182.45	0.00	
5600.00	10.00	293.00	5550.37	227.34	-535.58	-188.07	0.00	
5700.00	10.00	293.00	5648.85	234.12	-551.56	-193.68	0.00	
5800.00	10.00	293.00	5747.33	240.91	-567.55	-199.29	0.00	
5900.00	10.00	293.00	5845.81	247.69	-583.53	-204.90	0.00	
6000.00	10.00	293.00	5944.29	254.48	-599.52	-210.52	0.00	
6100.00	10.00	293.00	6042.77	261.26	-615.50	-216.13	0.00	
6200.00	10.00	293.00	6141.25	268.05	-631.49	-221.74	0.00	
6300.00	10.00	293.00	6239.73	274.83	-647.47	-227.36	0.00	
6400.00	10.00	293.00	6338.22	281.62	-663.45	-232.97	0.00	
6415.01	10.00	293.00	6353.00	282.64	-665.85	-233.81	0.00	Cherry Canyon

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
 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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6500.00	10.00	293.00	6436.70	288.40	-679.44	-238.58	0.00	
6600.00	10.00	293.00	6535.18	295.19	-695.42	-244.19	0.00	
6700.00	10.00	293.00	6633.66	301.97	-711.41	-249.81	0.00	
6800.00	10.00	293.00	6732.14	308.76	-727.39	-255.42	0.00	
6900.00	10.00	293.00	6830.62	315.54	-743.38	-261.03	0.00	
7000.00	10.00	293.00	6929.10	322.33	-759.36	-266.65	0.00	
7100.00	10.00	293.00	7027.58	329.11	-775.35	-272.26	0.00	
7157.00	10.00	293.00	7083.72	332.98	-784.46	-275.46	0.00	Drop to Vertical
7200.00	9.14	293.00	7126.12	335.78	-791.04	-277.77	2.00	
7300.00	7.14	293.00	7225.10	341.31	-804.07	-282.35	2.00	
7400.00	5.14	293.00	7324.53	345.49	-813.91	-285.81	2.00	
7500.00	3.14	293.00	7424.26	348.31	-820.56	-288.14	2.00	
7600.00	1.14	293.00	7524.18	349.77	-824.00	-289.35	2.00	
7657.00	0.00	293.00	7581.18	349.99	-824.52	-289.53	2.00	Hold Vertical
7700.00	0.00	179.51	7624.18	349.99	-824.52	-289.53	0.00	
7800.00	0.00	179.51	7724.18	349.99	-824.52	-289.53	0.00	
7900.00	0.00	179.51	7824.18	349.99	-824.52	-289.53	0.00	
8000.00	0.00	179.51	7924.18	349.99	-824.52	-289.53	0.00	
8071.82	0.00	179.51	7996.00	349.99	-824.52	-289.53	0.00	Brushy Canyon
8100.00	0.00	179.51	8024.18	349.99	-824.52	-289.53	0.00	
8200.00	0.00	179.51	8124.18	349.99	-824.52	-289.53	0.00	
8300.00	0.00	179.51	8224.18	349.99	-824.52	-289.53	0.00	
8400.00	0.00	179.51	8324.18	349.99	-824.52	-289.53	0.00	
8500.00	0.00	179.51	8424.18	349.99	-824.52	-289.53	0.00	
8600.00	0.00	179.51	8524.18	349.99	-824.52	-289.53	0.00	
8700.00	0.00	179.51	8624.18	349.99	-824.52	-289.53	0.00	
8800.00	0.00	179.51	8724.18	349.99	-824.52	-289.53	0.00	
8900.00	0.00	179.51	8824.18	349.99	-824.52	-289.53	0.00	
9000.00	0.00	179.51	8924.18	349.99	-824.52	-289.53	0.00	
9100.00	0.00	179.51	9024.18	349.99	-824.52	-289.53	0.00	
9200.00	0.00	179.51	9124.18	349.99	-824.52	-289.53	0.00	
9300.00	0.00	179.51	9224.18	349.99	-824.52	-289.53	0.00	
9400.00	0.00	179.51	9324.18	349.99	-824.52	-289.53	0.00	
9500.00	0.00	179.51	9424.18	349.99	-824.52	-289.53	0.00	
9600.00	0.00	179.51	9524.18	349.99	-824.52	-289.53	0.00	
9604.82	0.00	179.51	9529.00	349.99	-824.52	-289.53	0.00	1st Bone Spring Lime
9700.00	0.00	179.51	9624.18	349.99	-824.52	-289.53	0.00	
9800.00	0.00	179.51	9724.18	349.99	-824.52	-289.53	0.00	
9900.00	0.00	179.51	9824.18	349.99	-824.52	-289.53	0.00	
10000.00	0.00	179.51	9924.18	349.99	-824.52	-289.53	0.00	
10100.00	0.00	179.51	10024.18	349.99	-824.52	-289.53	0.00	
10200.00	0.00	179.51	10124.18	349.99	-824.52	-289.53	0.00	
10300.00	0.00	179.51	10224.18	349.99	-824.52	-289.53	0.00	
10400.00	0.00	179.51	10324.18	349.99	-824.52	-289.53	0.00	
10500.00	0.00	179.51	10424.18	349.99	-824.52	-289.53	0.00	
10550.82	0.00	179.51	10475.00	349.99	-824.52	-289.53	0.00	Bone Spring 1st
10600.00	0.00	179.51	10524.18	349.99	-824.52	-289.53	0.00	
10700.00	0.00	179.51	10624.18	349.99	-824.52	-289.53	0.00	
10800.00	0.00	179.51	10724.18	349.99	-824.52	-289.53	0.00	
10900.00	0.00	179.51	10824.18	349.99	-824.52	-289.53	0.00	
11000.00	0.00	179.51	10924.18	349.99	-824.52	-289.53	0.00	
11100.00	0.00	179.51	11024.18	349.99	-824.52	-289.53	0.00	
11200.00	0.00	179.51	11124.18	349.99	-824.52	-289.53	0.00	
11300.00	0.00	179.51	11224.18	349.99	-824.52	-289.53	0.00	
11400.00	0.00	179.51	11324.18	349.99	-824.52	-289.53	0.00	
11496.82	0.00	179.51	11421.00	349.99	-824.52	-289.53	0.00	Bone Spring 2nd
11500.00	0.00	179.51	11424.18	349.99	-824.52	-289.53	0.00	
11562.82	0.00	179.51	11487.00	349.99	-824.52	-289.53	0.00	3rd Bone Spring Lime
11600.00	0.00	179.51	11524.18	349.99	-824.52	-289.53	0.00	
11700.00	0.00	179.51	11624.18	349.99	-824.52	-289.53	0.00	
11800.00	0.00	179.51	11724.18	349.99	-824.52	-289.53	0.00	
11900.00	0.00	179.51	11824.18	349.99	-824.52	-289.53	0.00	
12000.00	0.00	179.51	11924.18	349.99	-824.52	-289.53	0.00	
12100.00	0.00	179.51	12024.18	349.99	-824.52	-289.53	0.00	
12175.82	0.00	179.51	12100.00	349.99	-824.52	-289.53	0.00	Bone Spring 3rd
12200.00	0.00	179.51	12124.18	349.99	-824.52	-289.53	0.00	
12300.00	0.00	179.51	12224.18	349.99	-824.52	-289.53	0.00	
12400.00	0.00	179.51	12324.18	349.99	-824.52	-289.53	0.00	
12500.00	0.00	179.51	12424.18	349.99	-824.52	-289.53	0.00	
12600.00	0.00	179.51	12524.18	349.99	-824.52	-289.53	0.00	

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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 (ft)	INC (")	AZI (")	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12635.82	0.00	179.51	12560.00	349.99	-824.52	-289.53	0.00	Wolfcamp / Point
12700.00	0.00	179.51	12624.18	349.99	-824.52	-289.53	0.00	
12800.00	0.00	179.51	12724.18	349.99	-824.52	-289.53	0.00	
12900.00	0.00	179.51	12824.18	349.99	-824.52	-289.53	0.00	
12952.86	0.00	179.51	12877.04	349.99	-824.52	-289.53	0.00	KOP
13000.00	4.71	179.51	12924.13	348.05	-824.50	-287.60	10.00	
13100.00	14.71	179.51	13022.57	331.20	-824.36	-270.80	10.00	
13200.00	24.71	179.51	13116.59	297.51	-824.07	-237.22	10.00	
13300.00	34.71	179.51	13203.33	248.01	-823.65	-187.88	10.00	
13400.00	44.71	179.51	13280.16	184.20	-823.10	-124.27	10.00	
13500.00	54.71	179.51	13344.73	108.01	-822.45	-48.34	10.00	
13600.00	64.71	179.51	13395.10	21.77	-821.71	37.62	10.00	
13700.00	74.71	179.51	13429.73	-71.90	-820.91	131.00	10.00	Landing Point
13800.00	84.71	179.51	13447.56	-170.16	-820.07	228.94	10.00	
13852.86	90.00	179.51	13450.00	-222.95	-819.62	281.56	10.00	
13900.00	90.00	179.51	13450.00	-270.09	-819.22	328.54	0.00	
14000.00	90.00	179.51	13450.00	-370.08	-818.36	428.22	0.00	
14100.00	90.00	179.51	13450.00	-470.08	-817.51	527.89	0.00	
14200.00	90.00	179.51	13450.00	-570.08	-816.65	627.56	0.00	
14300.00	90.00	179.51	13450.00	-670.07	-815.79	727.24	0.00	
14400.00	90.00	179.51	13450.00	-770.07	-814.94	826.91	0.00	
14500.00	90.00	179.51	13450.00	-870.06	-814.08	926.58	0.00	
14600.00	90.00	179.51	13450.00	-970.06	-813.23	1026.26	0.00	
14700.00	90.00	179.51	13450.00	-1070.06	-812.37	1125.93	0.00	
14800.00	90.00	179.51	13450.00	-1170.05	-811.52	1225.60	0.00	
14900.00	90.00	179.51	13450.00	-1270.05	-810.66	1325.28	0.00	
15000.00	90.00	179.51	13450.00	-1370.05	-809.81	1424.95	0.00	
15100.00	90.00	179.51	13450.00	-1470.04	-808.95	1524.62	0.00	
15200.00	90.00	179.51	13450.00	-1570.04	-808.09	1624.30	0.00	
15300.00	90.00	179.51	13450.00	-1670.03	-807.24	1723.97	0.00	
15400.00	90.00	179.51	13450.00	-1770.03	-806.38	1823.64	0.00	
15500.00	90.00	179.51	13450.00	-1870.03	-805.53	1923.32	0.00	
15600.00	90.00	179.51	13450.00	-1970.02	-804.67	2022.99	0.00	
15700.00	90.00	179.51	13450.00	-2070.02	-803.82	2122.66	0.00	
15800.00	90.00	179.51	13450.00	-2170.02	-802.96	2222.34	0.00	
15900.00	90.00	179.51	13450.00	-2270.01	-802.11	2322.01	0.00	
16000.00	90.00	179.51	13450.00	-2370.01	-801.25	2421.69	0.00	
16100.00	90.00	179.51	13450.00	-2470.01	-800.40	2521.36	0.00	
16200.00	90.00	179.51	13450.00	-2570.00	-799.54	2621.03	0.00	
16300.00	90.00	179.51	13450.00	-2670.00	-798.68	2720.71	0.00	
16400.00	90.00	179.51	13450.00	-2769.99	-797.83	2820.38	0.00	
16500.00	90.00	179.51	13450.00	-2869.99	-796.97	2920.05	0.00	
16600.00	90.00	179.51	13450.00	-2969.99	-796.12	3019.73	0.00	
16700.00	90.00	179.51	13450.00	-3069.98	-795.26	3119.40	0.00	
16800.00	90.00	179.51	13450.00	-3169.98	-794.41	3219.07	0.00	
16900.00	90.00	179.51	13450.00	-3269.98	-793.55	3318.75	0.00	
17000.00	90.00	179.51	13450.00	-3369.97	-792.70	3418.42	0.00	
17100.00	90.00	179.51	13450.00	-3469.97	-791.84	3518.09	0.00	
17200.00	90.00	179.51	13450.00	-3569.97	-790.99	3617.77	0.00	
17300.00	90.00	179.51	13450.00	-3669.96	-790.13	3717.44	0.00	
17400.00	90.00	179.51	13450.00	-3769.96	-789.27	3817.11	0.00	
17500.00	90.00	179.51	13450.00	-3869.95	-788.42	3916.79	0.00	
17600.00	90.00	179.51	13450.00	-3969.95	-787.56	4016.46	0.00	
17700.00	90.00	179.51	13450.01	-4069.95	-786.71	4116.13	0.00	
17800.00	90.00	179.51	13450.01	-4169.94	-785.85	4215.81	0.00	
17900.00	90.00	179.51	13450.01	-4269.94	-785.00	4315.48	0.00	
18000.00	90.00	179.51	13450.01	-4369.94	-784.14	4415.15	0.00	
18100.00	90.00	179.51	13450.01	-4469.93	-783.29	4514.83	0.00	
18200.00	90.00	179.51	13450.01	-4569.93	-782.43	4614.50	0.00	
18300.00	90.00	179.51	13450.01	-4669.93	-781.58	4714.17	0.00	
18400.00	90.00	179.51	13450.01	-4769.92	-780.72	4813.85	0.00	
18500.00	90.00	179.51	13450.01	-4869.92	-779.86	4913.52	0.00	
18600.00	90.00	179.51	13450.01	-4969.91	-779.01	5013.20	0.00	
18700.00	90.00	179.51	13450.01	-5069.91	-778.15	5112.87	0.00	
18800.00	90.00	179.51	13450.01	-5169.91	-777.30	5212.54	0.00	
18900.00	90.00	179.51	13450.01	-5269.90	-776.44	5312.22	0.00	
19000.00	90.00	179.51	13450.01	-5369.90	-775.59	5411.89	0.00	
19100.00	90.00	179.51	13450.01	-5469.90	-774.73	5511.56	0.00	
19200.00	90.00	179.51	13450.01	-5569.89	-773.88	5611.24	0.00	
19300.00	90.00	179.51	13450.01	-5669.89	-773.02	5710.91	0.00	

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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 (ft)	INC (")	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19400.00	90.00	179.51	13450.01	-5769.88	-772.17	5810.58	0.00	
19500.00	90.00	179.51	13450.01	-5869.88	-771.31	5910.26	0.00	
19600.00	90.00	179.51	13450.01	-5969.88	-770.45	6009.93	0.00	
19700.00	90.00	179.51	13450.01	-6069.87	-769.60	6109.60	0.00	
19800.00	90.00	179.51	13450.01	-6169.87	-768.74	6209.28	0.00	
19900.00	90.00	179.51	13450.01	-6269.87	-767.89	6308.95	0.00	
20000.00	90.00	179.51	13450.01	-6369.86	-767.03	6408.62	0.00	
20100.00	90.00	179.51	13450.01	-6469.86	-766.18	6508.30	0.00	
20200.00	90.00	179.51	13450.01	-6569.86	-765.32	6607.97	0.00	
20300.00	90.00	179.51	13450.01	-6669.85	-764.47	6707.64	0.00	
20400.00	90.00	179.51	13450.01	-6769.85	-763.61	6807.32	0.00	
20500.00	90.00	179.51	13450.01	-6869.84	-762.76	6906.99	0.00	
20600.00	90.00	179.51	13450.01	-6969.84	-761.90	7006.66	0.00	
20700.00	90.00	179.51	13450.01	-7069.84	-761.04	7106.34	0.00	
20800.00	90.00	179.51	13450.01	-7169.83	-760.19	7206.01	0.00	
20900.00	90.00	179.51	13450.01	-7269.83	-759.33	7305.68	0.00	
21000.00	90.00	179.51	13450.01	-7369.83	-758.48	7405.36	0.00	
21100.00	90.00	179.51	13450.01	-7469.82	-757.62	7505.03	0.00	
21200.00	90.00	179.51	13450.01	-7569.82	-756.77	7604.71	0.00	
21300.00	90.00	179.51	13450.01	-7669.82	-755.91	7704.38	0.00	
21400.00	90.00	179.51	13450.01	-7769.81	-755.06	7804.05	0.00	
21500.00	90.00	179.51	13450.01	-7869.81	-754.20	7903.73	0.00	
21600.00	90.00	179.51	13450.01	-7969.80	-753.35	8003.40	0.00	
21700.00	90.00	179.51	13450.01	-8069.80	-752.49	8103.07	0.00	
21800.00	90.00	179.51	13450.01	-8169.80	-751.63	8202.75	0.00	
21900.00	90.00	179.51	13450.01	-8269.79	-750.78	8302.42	0.00	
22000.00	90.00	179.51	13450.01	-8369.79	-749.92	8402.09	0.00	
22100.00	90.00	179.51	13450.01	-8469.79	-749.07	8501.77	0.00	
22200.00	90.00	179.51	13450.01	-8569.78	-748.21	8601.44	0.00	
22300.00	90.00	179.51	13450.01	-8669.78	-747.36	8701.11	0.00	
22400.00	90.00	179.51	13450.01	-8769.78	-746.50	8800.79	0.00	
22500.00	90.00	179.51	13450.01	-8869.77	-745.65	8900.46	0.00	
22600.00	90.00	179.51	13450.01	-8969.77	-744.79	9000.13	0.00	
22700.00	90.00	179.51	13450.01	-9069.76	-743.94	9099.81	0.00	
22800.00	90.00	179.51	13450.01	-9169.76	-743.08	9199.48	0.00	
22900.00	90.00	179.51	13450.01	-9269.76	-742.22	9299.15	0.00	
23000.00	90.00	179.51	13450.01	-9369.75	-741.37	9398.83	0.00	
23100.00	90.00	179.51	13450.01	-9469.75	-740.51	9498.50	0.00	
23200.00	90.00	179.51	13450.01	-9569.75	-739.66	9598.17	0.00	
23300.00	90.00	179.51	13450.01	-9669.74	-738.80	9697.85	0.00	
23400.00	90.00	179.51	13450.01	-9769.74	-737.95	9797.52	0.00	
23500.00	90.00	179.51	13450.01	-9869.73	-737.09	9897.19	0.00	
23600.00	90.00	179.51	13450.01	-9969.73	-736.24	9996.87	0.00	
23697.95	90.00	179.51	13450.01	-10067.67	-735.40	10094.49	0.00	exit
23700.00	90.00	179.51	13450.01	-10069.73	-735.38	10096.54	0.00	
23777.95	90.00	179.51	13450.00	-10147.67	-734.74	10174.23	0.00	BHL

Well Name: FIGHTING OKRA 18-19 FED	Well Location: T26S / R34E / SEC 18 / NENE / 32.0495993 / -103.5046387	County or Parish/State: LEA / NM
Well Number: 18H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114992	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547575	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2748871

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 08/31/2023	Time Sundry Submitted: 09:26
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: Pool Code change from Wildcat: Lower Wolfcamp Oil to WC-025 G-10 S263418C; LWR WOLFCAMP Dedicated acreage change from 320 acs to 640 acs. TVD/MD change from 13524'/23821' to 13450'/23778' Surface Casing size change from 17.5"/13.375" to 14.75"/10.75". Cement volume changes to accommodate casing change. Please see attached revised C-102 and drilling & directional plans.

NOI Attachments

Procedure Description

- 8.625_32lb_P110EC_SPRINT_FJ_VST_20230831140032.pdf
- 10.750_40.50lb_H40_20230831140032.pdf
- 5.5_17lb_P110RY_DWC_C_20230831140031.pdf
- FIGHTING_OKRA_18_19_FEDERAL_18H_C_102_BHL_NOI_20230831092418.pdf
- FIGHTING_OKRA_18_19_FED_18H_20230831092415.pdf
- FIGHTING_OKRA_18_19_FED_18H_Directional_Plan_08_30_23_20230831092416.pdf

Well Name: FIGHTING OKRA 18-19 FED	Well Location: T26S / R34E / SEC 18 / NENE / 32.0495993 / -103.5046387	County or Parish/State: LEA / NM
Well Number: 18H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM114992	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547575	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator

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

Operator Electronic Signature: REBECCA DEAL	Signed on: AUG 31, 2023 02:00 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

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

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 18H
SURFACE HOLE FOOTAGE:	400'/N & 1300'/E
BOTTOM HOLE FOOTAGE:	20'/S & 2122'/E
ATS/API ID:	3002547575
APD ID:	10400057811
Sundry ID:	2748871

COA

H2S	Yes <input type="button" value="v"/>		
Potash	None <input type="button" value="v"/>		
Cave/Karst Potential	Low <input type="button" value="v"/>		
Cave/Karst Potential	<input type="checkbox"/> Critical		
Variance	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Flex Hose	<input checked="" type="checkbox"/> Other
Wellhead	Conventional and Multibowl <input type="button" value="v"/>		
Other	<input type="checkbox"/> 4 String	Capitan Reef <input type="button" value="v"/> None <input type="button" value="v"/>	<input type="checkbox"/> WIPP
Other	Pilot Hole <input type="button" value="v"/> None <input type="button" value="v"/>	<input type="checkbox"/> Open Annulus	
Cementing	Contingency Squeeze <input type="button" value="v"/> Int 1 <input type="button" value="v"/>	Echo-Meter <input type="button" value="v"/> None <input type="button" value="v"/>	Primary Cement Squeeze <input type="button" value="v"/> None <input type="button" value="v"/>
Special Requirements	<input type="checkbox"/> Water Disposal/Injection	<input type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

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.

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 **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 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 9/20/2023

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM114992**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY LP**3a. Address **333 WEST SHERIDAN AVE, OKLAHOMA CITY,** 3b. Phone No. (include area code)
(405) 235-36114. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 18/T26S/R34E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. **FIGHTING OKRA 18-19 FED/18H**9. API Well No. **3002547575**10. Field and Pool or Exploratory Area
Bobcat Draw/LWR WOLFCAMP11. Country or Parish, State
LEA/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Devon Energy Production Company L.P. respectfully requests the following changes to the approved APD:

Pool Code change from Wildcat: Lower Wolfcamp Oil to WC-025 G-10 S263418C; LWR WOLFCAMP

Dedicated acreage change from 320 acs to 640 acs.

TVD/MD change from 13524/23821 to 13450/23778

Surface Casing size change from 17.5/13.375 to 14.75/10.75. Cement volume changes to accommodate casing change.

Please see attached revised C-102 and drilling & directional plans.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
REBECCA DEAL / Ph: (303) 299-1406

Title **Regulatory Analyst**

Signature

Date

08/31/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NENE / 400 FNL / 1300 FEL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0495993 / LONG: -103.5046387 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2122 FEL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0504233 / LONG: -103.5072924 (TVD: 13187 feet, MD: 13237 feet)

BHL: SWSE / 20 FSL / 2122 FEL / TWSP: 26S / RANGE: 34E / SECTION: 19 / LAT: 32.0217219 / LONG: -103.50726 (TVD: 13524 feet, MD: 23821 feet)

CONFIDENTIAL

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 Plain End: 31.13	0.352 in.	P110EC	7.875 in.	VAM® SPRINT-FJ

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

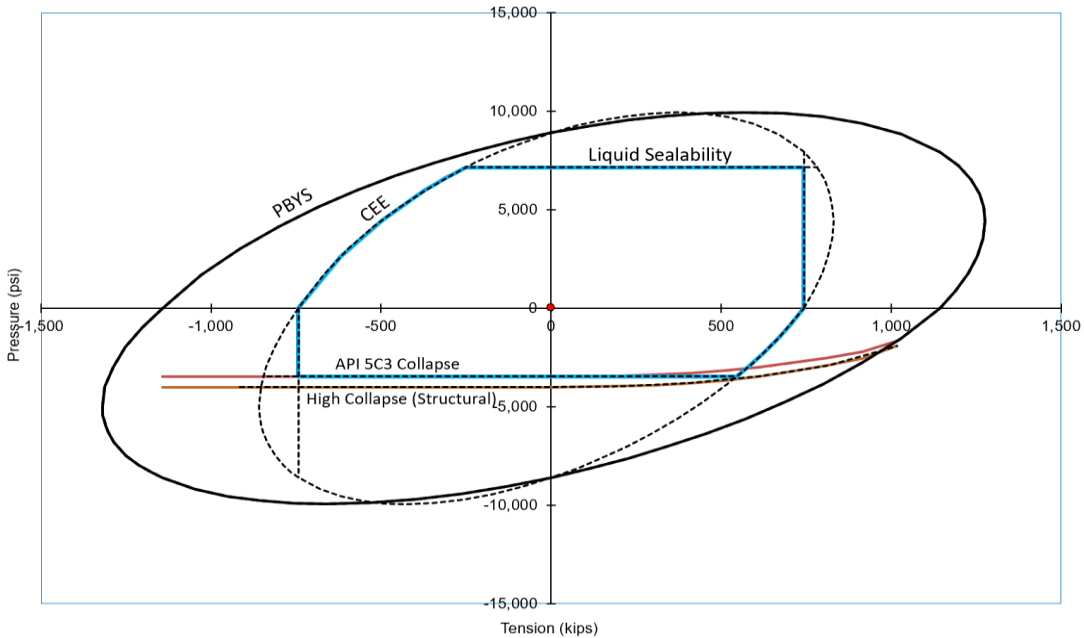
CONNECTION PROPERTIES		
Connection Type	Semi-Premium Integral Flush	
Connection OD (nom):	8.665	in.
Connection ID (nom):	7.954	in.
Make-Up Loss	2.614	in.
Critical Cross Section	6.038	sqin.
Tension Efficiency	65.0	% of pipe
Compression Efficiency	65.0	% of pipe
Internal Pressure Efficiency	80.0	% of pipe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

* 87.5% RBW

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

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® like VAM®

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

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nigeria@vamfieldservice.com
angola@vamfieldservice.com

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

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





U. S. Steel Tubular Products

10.750" 40.50lb/ft (0.350" Wall) H40

11/4/2021 10:14:32 AM

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	BTC	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	BTC	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	BTC	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

Technical Specifications

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

	Material
P-110RY	Grade
110,000	Minimum Yield Strength (psi)
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 (lbs/ft)
4.962	Nominal Pipe Body Area (sq in)

	Pipe Body Performance Properties
546,000	Minimum Pipe Body Yield Strength (lbs)
7,480	Minimum Collapse Pressure (psi)
10,640	Minimum Internal Yield Pressure (psi)
9,700	Hydrostatic Test Pressure (psi)

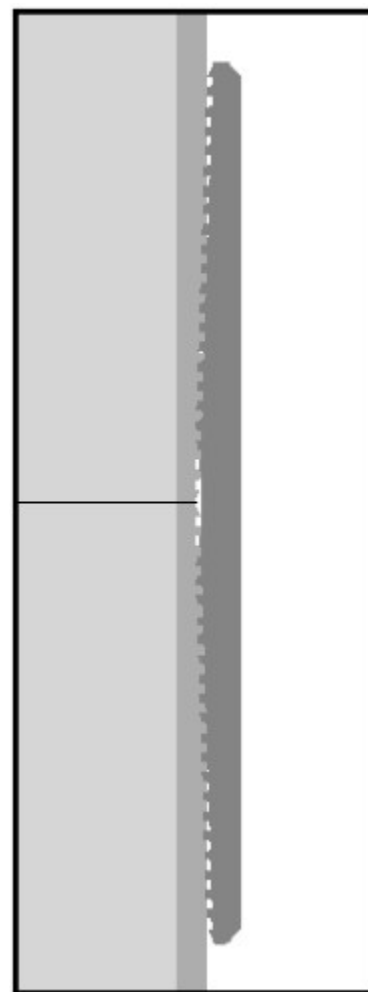
	Connection Dimensions
6.050	Connection O.D. (in)
4.892	Connection I.D. (in)
4.767	Connection Drift Diameter (in)
4.13	Make-up Loss (in)
4.962	Critical Area (sq in)
100.0	Joint Efficiency (%)

	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



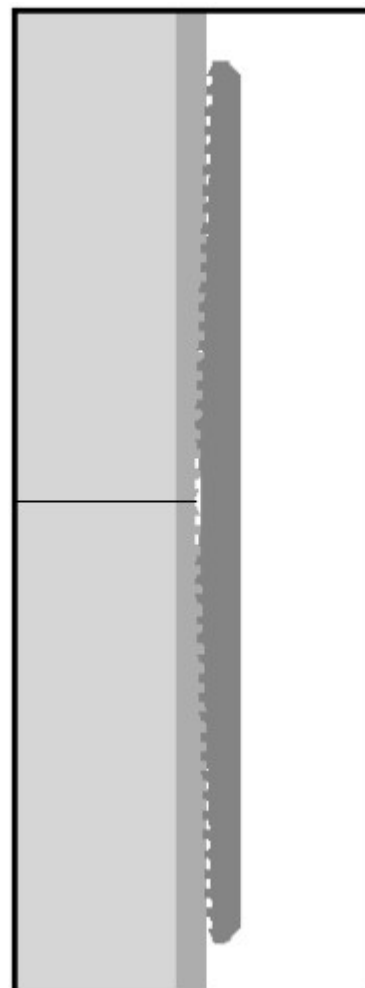
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

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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**DWC Connection Data Notes:**

1. DWC connections are available with a seal ring (SR) option.
2. 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.
4. 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.
7. 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.
11. 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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DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47575	Pool Code 98347	Pool Name WC-025 G-10 S263418C;LWR WOLFCAMP
Property Code 315691	Property Name FIGHTING OKRA 18-19 FEDERAL	Well Number 18H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	Elevation 3369.9'

Surface Location

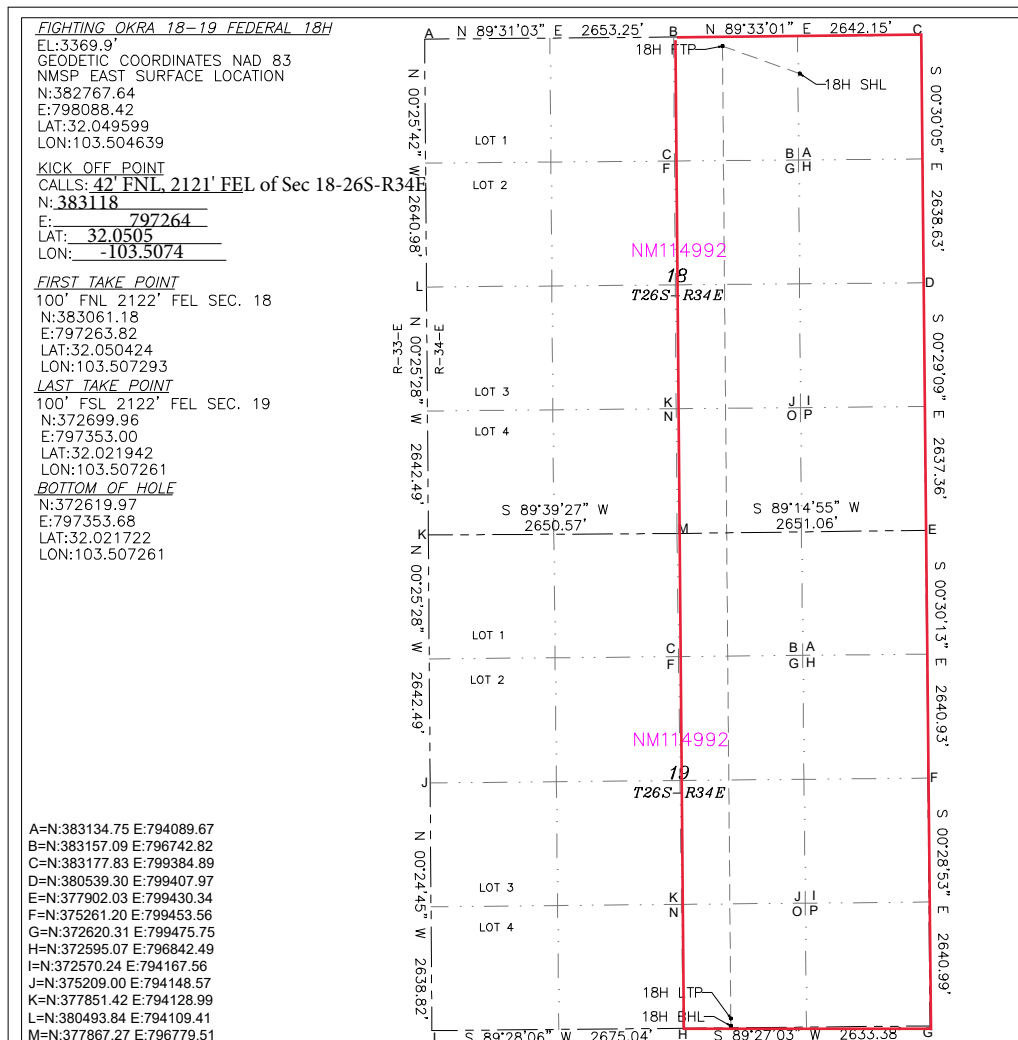
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	18	26-S	34-E		400	NORTH	1300	EAST	LEA

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
O	19	26-S	34-E		20	SOUTH	2122	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order 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



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Rebecca Deal 8/29/2023
Signature Date

Rebecca Deal, Regulatory Analyst
Printed Name

rebecca.deal@dvn.com
E-mail Address

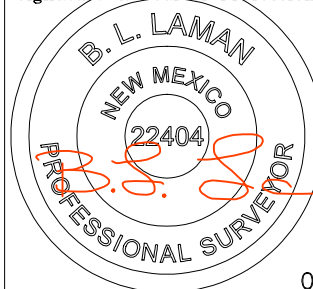
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

07/2023

Date of Survey

Signature & Seal of Professional Surveyor



08/08/23

Certificate No. 22404 B.L. LAMAN
DRAWN BY: CM

Intent ☒ As Drilled ☐

API # 30-025-47575		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, LP.	Property Name: FIGHTING OKRA 18-19 FEDERAL	Well Number 18H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	18	26S	34E		42	FNL	2121	FEL	LEA
Latitude 32.0505					Longitude -103.5074				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	18	26-S	34-E		100	NORTH	2122	EAST	LEA
Latitude 32.050424					Longitude 103.507293				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	19	26-S	34-E		100	SOUTH	2122	EAST	LEA
Latitude 32.021942					Longitude 103.507261				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NIs this well an infill well? ☐ Y

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

API #		
Operator Name: DEVON ENERGY PRODUCTION CO., L.P.	Property Name: FIGHTING OKRA 18-19 FED	Well Number 19H

KZ 06/29/2018

FIGHTING OKRA 18-19 FED 18H

1. Geologic Formations

TVD of target	13450	Pilot hole depth	N/A
MD at TD:	23778	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
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.

FIGHTING OKRA 18-19 FED 18H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	40 1/2	H40	BTC	0	810	0	810
9 7/8	8 5/8	32	P110	Sprint FJ	0	12860	0	12860
7 7/8	5 1/2	17	P110	DWC / C-IS+	0	23778	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	440	Surf	9	3.27	Lead: Class C Cement + additives
	465	8860	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	440	Surf	9	3.27	Lead: Class C Cement + additives
	465	8860	13.2	1.44	Tail: Class H / C + additives
Production	117	10953	9	3.27	Lead: Class H / C + additives
	1433	12953	13.2	1.44	Tail: Class H / C + additives

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

FIGHTING OKRA 18-19 FED 18H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:	
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	10M	Annular (5M)		X	100% of rated working pressure
				Blind Ram		X	10M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

FIGHTING OKRA 18-19 FED 18H

5. Mud Program (Three String Design)

Section	Type	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	
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted 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	Specify 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.

Hydrogen 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	H ₂ S is present
Y	H ₂ S plan attached.

FIGHTING OKRA 18-19 FED 18H

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. At that time an approved BOP stack will be nipped 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

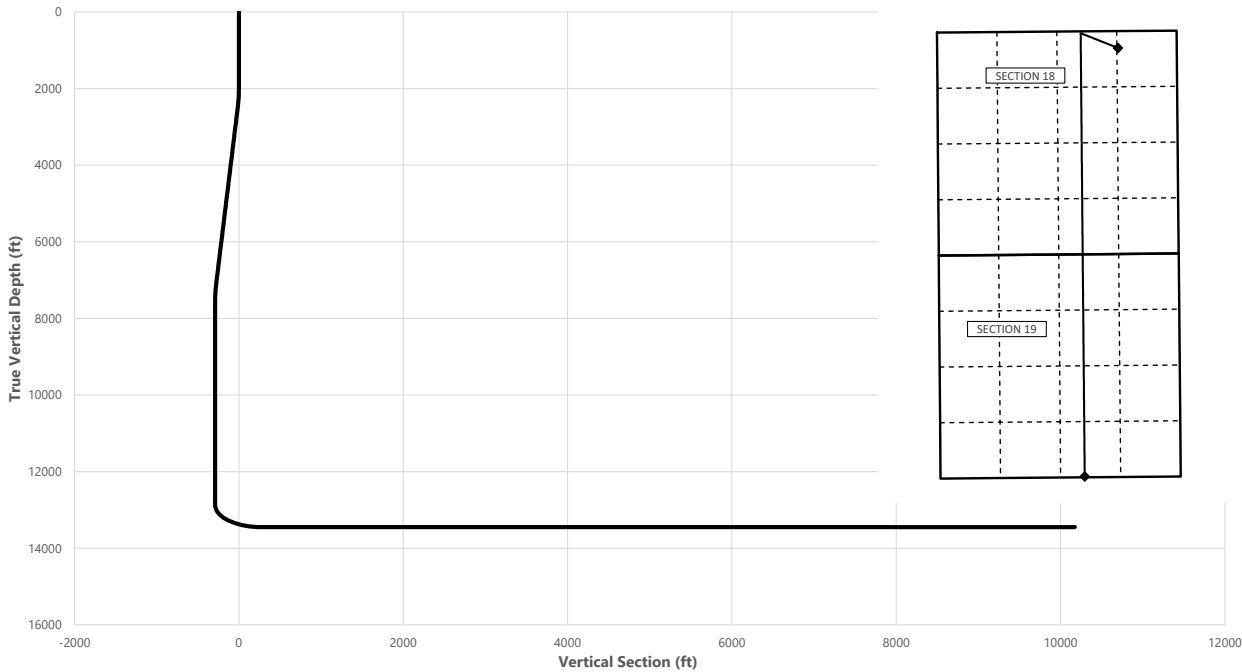
FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	293.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	293.00	2497.47	17.01	-40.06	-14.07	2.00	Hold Tangent
7157.00	10.00	293.00	7083.72	332.98	-784.46	-275.46	0.00	Drop to Vertical
7657.00	0.00	293.00	7581.18	349.99	-824.52	-289.53	2.00	Hold Vertical
12952.86	0.00	179.51	12877.04	349.99	-824.52	-289.53	0.00	KOP
13852.86	90.00	179.51	13450.00	-222.95	-819.62	281.56	10.00	Landing Point
23777.95	90.00	179.51	13450.00	-10147.67	-734.74	10174.23	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	785.00	785.00
Salt	1060.00	1060.00
Base of Salt	5295.00	5250.00
Delaware	5345.77	5300.00
Cherry Canyon	6415.01	6353.00
Brushy Canyon	8071.82	7996.00
1st Bone Spring Lime	9604.82	9529.00
Bone Spring 1st	10550.82	10475.00
Bone Spring 2nd	11496.82	11421.00
3rd Bone Spring Lime	11562.82	11487.00
Bone Spring 3rd	12175.82	12100.00
Wolfcamp / Point of Penetration	12635.82	12560.00
exit	23697.95	13450.01

SHL
KOP
Point of Penetration
Exit
BHL

MD	TVD	Lat	Long	Section Footages
(ft)	(ft)	(°)	(°)	
0.00	0.00	32.0495	-103.5047	400' FNL, 1300' FEL of Sec 18 in T26S, R34E
12952.86	12877.04	32.0505	-103.5074	42' FNL, 2121' FEL of Sec 18 in T26S, R34E
12635.82	12560.00	32.0504	-103.5073	100' FNL, 2122' FEL of Sec 18 in T26S, R34E
23697.95	13450.01	32.0219	-103.5073	100' FSL, 2122' FEL of Sec 19 in T26S, R34E
23777.95	13450.00	32.0216	-103.5073	20' FSL, 2122' FEL of Sec 19 in T26S, R34E

	Y	X	MD
KOP	383118	797264	12952.86

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
 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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	293.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	293.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	293.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	293.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	293.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	293.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	293.00	700.00	0.00	0.00	0.00	0.00	
785.00	0.00	293.00	785.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	293.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	293.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	293.00	1000.00	0.00	0.00	0.00	0.00	
1060.00	0.00	293.00	1060.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	293.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	293.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	293.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	293.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	293.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	293.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	293.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	293.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	293.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	293.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	293.00	2099.98	0.68	-1.61	-0.56	2.00	
2200.00	4.00	293.00	2199.84	2.73	-6.42	-2.26	2.00	
2300.00	6.00	293.00	2299.45	6.13	-14.45	-5.07	2.00	
2400.00	8.00	293.00	2398.70	10.89	-25.66	-9.01	2.00	
2500.00	10.00	293.00	2497.47	17.01	-40.06	-14.07	2.00	Hold Tangent
2600.00	10.00	293.00	2595.95	23.79	-56.05	-19.68	0.00	
2700.00	10.00	293.00	2694.43	30.58	-72.03	-25.29	0.00	
2800.00	10.00	293.00	2792.91	37.36	-88.02	-30.91	0.00	
2900.00	10.00	293.00	2891.39	44.15	-104.00	-36.52	0.00	
3000.00	10.00	293.00	2989.87	50.93	-119.98	-42.13	0.00	
3100.00	10.00	293.00	3088.35	57.72	-135.97	-47.75	0.00	
3200.00	10.00	293.00	3186.83	64.50	-151.95	-53.36	0.00	
3300.00	10.00	293.00	3285.31	71.28	-167.94	-58.97	0.00	
3400.00	10.00	293.00	3383.79	78.07	-183.92	-64.58	0.00	
3500.00	10.00	293.00	3482.27	84.85	-199.91	-70.20	0.00	
3600.00	10.00	293.00	3580.75	91.64	-215.89	-75.81	0.00	
3700.00	10.00	293.00	3679.23	98.42	-231.88	-81.42	0.00	
3800.00	10.00	293.00	3777.72	105.21	-247.86	-87.03	0.00	
3900.00	10.00	293.00	3876.20	111.99	-263.84	-92.65	0.00	
4000.00	10.00	293.00	3974.68	118.78	-279.83	-98.26	0.00	
4100.00	10.00	293.00	4073.16	125.56	-295.81	-103.87	0.00	
4200.00	10.00	293.00	4171.64	132.35	-311.80	-109.49	0.00	
4300.00	10.00	293.00	4270.12	139.13	-327.78	-115.10	0.00	
4400.00	10.00	293.00	4368.60	145.92	-343.77	-120.71	0.00	
4500.00	10.00	293.00	4467.08	152.70	-359.75	-126.32	0.00	
4600.00	10.00	293.00	4565.56	159.49	-375.74	-131.94	0.00	
4700.00	10.00	293.00	4664.04	166.27	-391.72	-137.55	0.00	
4800.00	10.00	293.00	4762.52	173.06	-407.70	-143.16	0.00	
4900.00	10.00	293.00	4861.00	179.84	-423.69	-148.78	0.00	
5000.00	10.00	293.00	4959.48	186.63	-439.67	-154.39	0.00	
5100.00	10.00	293.00	5057.97	193.41	-455.66	-160.00	0.00	
5200.00	10.00	293.00	5156.45	200.20	-471.64	-165.61	0.00	
5295.00	10.00	293.00	5250.00	206.64	-486.83	-170.95	0.00	Base of Salt
5300.00	10.00	293.00	5254.93	206.98	-487.63	-171.23	0.00	
5345.77	10.00	293.00	5300.00	210.09	-494.94	-173.80	0.00	Delaware
5400.00	10.00	293.00	5353.41	213.77	-503.61	-176.84	0.00	
5500.00	10.00	293.00	5451.89	220.55	-519.60	-182.45	0.00	
5600.00	10.00	293.00	5550.37	227.34	-535.58	-188.07	0.00	
5700.00	10.00	293.00	5648.85	234.12	-551.56	-193.68	0.00	
5800.00	10.00	293.00	5747.33	240.91	-567.55	-199.29	0.00	
5900.00	10.00	293.00	5845.81	247.69	-583.53	-204.90	0.00	
6000.00	10.00	293.00	5944.29	254.48	-599.52	-210.52	0.00	
6100.00	10.00	293.00	6042.77	261.26	-615.50	-216.13	0.00	
6200.00	10.00	293.00	6141.25	268.05	-631.49	-221.74	0.00	
6300.00	10.00	293.00	6239.73	274.83	-647.47	-227.36	0.00	
6400.00	10.00	293.00	6338.22	281.62	-663.45	-232.97	0.00	
6415.01	10.00	293.00	6353.00	282.64	-665.85	-233.81	0.00	Cherry Canyon

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6500.00	10.00	293.00	6436.70	288.40	-679.44	-238.58	0.00	
6600.00	10.00	293.00	6535.18	295.19	-695.42	-244.19	0.00	
6700.00	10.00	293.00	6633.66	301.97	-711.41	-249.81	0.00	
6800.00	10.00	293.00	6732.14	308.76	-727.39	-255.42	0.00	
6900.00	10.00	293.00	6830.62	315.54	-743.38	-261.03	0.00	
7000.00	10.00	293.00	6929.10	322.33	-759.36	-266.65	0.00	
7100.00	10.00	293.00	7027.58	329.11	-775.35	-272.26	0.00	
7157.00	10.00	293.00	7083.72	332.98	-784.46	-275.46	0.00	Drop to Vertical
7200.00	9.14	293.00	7126.12	335.78	-791.04	-277.77	2.00	
7300.00	7.14	293.00	7225.10	341.31	-804.07	-282.35	2.00	
7400.00	5.14	293.00	7324.53	345.49	-813.91	-285.81	2.00	
7500.00	3.14	293.00	7424.26	348.31	-820.56	-288.14	2.00	
7600.00	1.14	293.00	7524.18	349.77	-824.00	-289.35	2.00	
7657.00	0.00	293.00	7581.18	349.99	-824.52	-289.53	2.00	Hold Vertical
7700.00	0.00	179.51	7624.18	349.99	-824.52	-289.53	0.00	
7800.00	0.00	179.51	7724.18	349.99	-824.52	-289.53	0.00	
7900.00	0.00	179.51	7824.18	349.99	-824.52	-289.53	0.00	
8000.00	0.00	179.51	7924.18	349.99	-824.52	-289.53	0.00	
8071.82	0.00	179.51	7996.00	349.99	-824.52	-289.53	0.00	Brushy Canyon
8100.00	0.00	179.51	8024.18	349.99	-824.52	-289.53	0.00	
8200.00	0.00	179.51	8124.18	349.99	-824.52	-289.53	0.00	
8300.00	0.00	179.51	8224.18	349.99	-824.52	-289.53	0.00	
8400.00	0.00	179.51	8324.18	349.99	-824.52	-289.53	0.00	
8500.00	0.00	179.51	8424.18	349.99	-824.52	-289.53	0.00	
8600.00	0.00	179.51	8524.18	349.99	-824.52	-289.53	0.00	
8700.00	0.00	179.51	8624.18	349.99	-824.52	-289.53	0.00	
8800.00	0.00	179.51	8724.18	349.99	-824.52	-289.53	0.00	
8900.00	0.00	179.51	8824.18	349.99	-824.52	-289.53	0.00	
9000.00	0.00	179.51	8924.18	349.99	-824.52	-289.53	0.00	
9100.00	0.00	179.51	9024.18	349.99	-824.52	-289.53	0.00	
9200.00	0.00	179.51	9124.18	349.99	-824.52	-289.53	0.00	
9300.00	0.00	179.51	9224.18	349.99	-824.52	-289.53	0.00	
9400.00	0.00	179.51	9324.18	349.99	-824.52	-289.53	0.00	
9500.00	0.00	179.51	9424.18	349.99	-824.52	-289.53	0.00	
9600.00	0.00	179.51	9524.18	349.99	-824.52	-289.53	0.00	
9604.82	0.00	179.51	9529.00	349.99	-824.52	-289.53	0.00	1st Bone Spring Lime
9700.00	0.00	179.51	9624.18	349.99	-824.52	-289.53	0.00	
9800.00	0.00	179.51	9724.18	349.99	-824.52	-289.53	0.00	
9900.00	0.00	179.51	9824.18	349.99	-824.52	-289.53	0.00	
10000.00	0.00	179.51	9924.18	349.99	-824.52	-289.53	0.00	
10100.00	0.00	179.51	10024.18	349.99	-824.52	-289.53	0.00	
10200.00	0.00	179.51	10124.18	349.99	-824.52	-289.53	0.00	
10300.00	0.00	179.51	10224.18	349.99	-824.52	-289.53	0.00	
10400.00	0.00	179.51	10324.18	349.99	-824.52	-289.53	0.00	
10500.00	0.00	179.51	10424.18	349.99	-824.52	-289.53	0.00	
10550.82	0.00	179.51	10475.00	349.99	-824.52	-289.53	0.00	Bone Spring 1st
10600.00	0.00	179.51	10524.18	349.99	-824.52	-289.53	0.00	
10700.00	0.00	179.51	10624.18	349.99	-824.52	-289.53	0.00	
10800.00	0.00	179.51	10724.18	349.99	-824.52	-289.53	0.00	
10900.00	0.00	179.51	10824.18	349.99	-824.52	-289.53	0.00	
11000.00	0.00	179.51	10924.18	349.99	-824.52	-289.53	0.00	
11100.00	0.00	179.51	11024.18	349.99	-824.52	-289.53	0.00	
11200.00	0.00	179.51	11124.18	349.99	-824.52	-289.53	0.00	
11300.00	0.00	179.51	11224.18	349.99	-824.52	-289.53	0.00	
11400.00	0.00	179.51	11324.18	349.99	-824.52	-289.53	0.00	
11496.82	0.00	179.51	11421.00	349.99	-824.52	-289.53	0.00	Bone Spring 2nd
11500.00	0.00	179.51	11424.18	349.99	-824.52	-289.53	0.00	
11562.82	0.00	179.51	11487.00	349.99	-824.52	-289.53	0.00	3rd Bone Spring Lime
11600.00	0.00	179.51	11524.18	349.99	-824.52	-289.53	0.00	
11700.00	0.00	179.51	11624.18	349.99	-824.52	-289.53	0.00	
11800.00	0.00	179.51	11724.18	349.99	-824.52	-289.53	0.00	
11900.00	0.00	179.51	11824.18	349.99	-824.52	-289.53	0.00	
12000.00	0.00	179.51	11924.18	349.99	-824.52	-289.53	0.00	
12100.00	0.00	179.51	12024.18	349.99	-824.52	-289.53	0.00	
12175.82	0.00	179.51	12100.00	349.99	-824.52	-289.53	0.00	Bone Spring 3rd
12200.00	0.00	179.51	12124.18	349.99	-824.52	-289.53	0.00	
12300.00	0.00	179.51	12224.18	349.99	-824.52	-289.53	0.00	
12400.00	0.00	179.51	12324.18	349.99	-824.52	-289.53	0.00	
12500.00	0.00	179.51	12424.18	349.99	-824.52	-289.53	0.00	
12600.00	0.00	179.51	12524.18	349.99	-824.52	-289.53	0.00	

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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)	
12635.82	0.00	179.51	12560.00	349.99	-824.52	-289.53	0.00	Wolfcamp / Point
12700.00	0.00	179.51	12624.18	349.99	-824.52	-289.53	0.00	
12800.00	0.00	179.51	12724.18	349.99	-824.52	-289.53	0.00	
12900.00	0.00	179.51	12824.18	349.99	-824.52	-289.53	0.00	
12952.86	0.00	179.51	12877.04	349.99	-824.52	-289.53	0.00	KOP
13000.00	4.71	179.51	12924.13	348.05	-824.50	-287.60	10.00	
13100.00	14.71	179.51	13022.57	331.20	-824.36	-270.80	10.00	
13200.00	24.71	179.51	13116.59	297.51	-824.07	-237.22	10.00	
13300.00	34.71	179.51	13203.33	248.01	-823.65	-187.88	10.00	
13400.00	44.71	179.51	13280.16	184.20	-823.10	-124.27	10.00	
13500.00	54.71	179.51	13344.73	108.01	-822.45	-48.34	10.00	
13600.00	64.71	179.51	13395.10	21.77	-821.71	37.62	10.00	
13700.00	74.71	179.51	13429.73	-71.90	-820.91	131.00	10.00	Landing Point
13800.00	84.71	179.51	13447.56	-170.16	-820.07	228.94	10.00	
13852.86	90.00	179.51	13450.00	-222.95	-819.62	281.56	10.00	
13900.00	90.00	179.51	13450.00	-270.09	-819.22	328.54	0.00	
14000.00	90.00	179.51	13450.00	-370.08	-818.36	428.22	0.00	
14100.00	90.00	179.51	13450.00	-470.08	-817.51	527.89	0.00	
14200.00	90.00	179.51	13450.00	-570.08	-816.65	627.56	0.00	
14300.00	90.00	179.51	13450.00	-670.07	-815.79	727.24	0.00	
14400.00	90.00	179.51	13450.00	-770.07	-814.94	826.91	0.00	
14500.00	90.00	179.51	13450.00	-870.06	-814.08	926.58	0.00	
14600.00	90.00	179.51	13450.00	-970.06	-813.23	1026.26	0.00	
14700.00	90.00	179.51	13450.00	-1070.06	-812.37	1125.93	0.00	
14800.00	90.00	179.51	13450.00	-1170.05	-811.52	1225.60	0.00	
14900.00	90.00	179.51	13450.00	-1270.05	-810.66	1325.28	0.00	
15000.00	90.00	179.51	13450.00	-1370.05	-809.81	1424.95	0.00	
15100.00	90.00	179.51	13450.00	-1470.04	-808.95	1524.62	0.00	
15200.00	90.00	179.51	13450.00	-1570.04	-808.09	1624.30	0.00	
15300.00	90.00	179.51	13450.00	-1670.03	-807.24	1723.97	0.00	
15400.00	90.00	179.51	13450.00	-1770.03	-806.38	1823.64	0.00	
15500.00	90.00	179.51	13450.00	-1870.03	-805.53	1923.32	0.00	
15600.00	90.00	179.51	13450.00	-1970.02	-804.67	2022.99	0.00	
15700.00	90.00	179.51	13450.00	-2070.02	-803.82	2122.66	0.00	
15800.00	90.00	179.51	13450.00	-2170.02	-802.96	2222.34	0.00	
15900.00	90.00	179.51	13450.00	-2270.01	-802.11	2322.01	0.00	
16000.00	90.00	179.51	13450.00	-2370.01	-801.25	2421.69	0.00	
16100.00	90.00	179.51	13450.00	-2470.01	-800.40	2521.36	0.00	
16200.00	90.00	179.51	13450.00	-2570.00	-799.54	2621.03	0.00	
16300.00	90.00	179.51	13450.00	-2670.00	-798.68	2720.71	0.00	
16400.00	90.00	179.51	13450.00	-2769.99	-797.83	2820.38	0.00	
16500.00	90.00	179.51	13450.00	-2869.99	-796.97	2920.05	0.00	
16600.00	90.00	179.51	13450.00	-2969.99	-796.12	3019.73	0.00	
16700.00	90.00	179.51	13450.00	-3069.98	-795.26	3119.40	0.00	
16800.00	90.00	179.51	13450.00	-3169.98	-794.41	3219.07	0.00	
16900.00	90.00	179.51	13450.00	-3269.98	-793.55	3318.75	0.00	
17000.00	90.00	179.51	13450.00	-3369.97	-792.70	3418.42	0.00	
17100.00	90.00	179.51	13450.00	-3469.97	-791.84	3518.09	0.00	
17200.00	90.00	179.51	13450.00	-3569.97	-790.99	3617.77	0.00	
17300.00	90.00	179.51	13450.00	-3669.96	-790.13	3717.44	0.00	
17400.00	90.00	179.51	13450.00	-3769.96	-789.27	3817.11	0.00	
17500.00	90.00	179.51	13450.00	-3869.95	-788.42	3916.79	0.00	
17600.00	90.00	179.51	13450.00	-3969.95	-787.56	4016.46	0.00	
17700.00	90.00	179.51	13450.01	-4069.95	-786.71	4116.13	0.00	
17800.00	90.00	179.51	13450.01	-4169.94	-785.85	4215.81	0.00	
17900.00	90.00	179.51	13450.01	-4269.94	-785.00	4315.48	0.00	
18000.00	90.00	179.51	13450.01	-4369.94	-784.14	4415.15	0.00	
18100.00	90.00	179.51	13450.01	-4469.93	-783.29	4514.83	0.00	
18200.00	90.00	179.51	13450.01	-4569.93	-782.43	4614.50	0.00	
18300.00	90.00	179.51	13450.01	-4669.93	-781.58	4714.17	0.00	
18400.00	90.00	179.51	13450.01	-4769.92	-780.72	4813.85	0.00	
18500.00	90.00	179.51	13450.01	-4869.92	-779.86	4913.52	0.00	
18600.00	90.00	179.51	13450.01	-4969.91	-779.01	5013.20	0.00	
18700.00	90.00	179.51	13450.01	-5069.91	-778.15	5112.87	0.00	
18800.00	90.00	179.51	13450.01	-5169.91	-777.30	5212.54	0.00	
18900.00	90.00	179.51	13450.01	-5269.90	-776.44	5312.22	0.00	
19000.00	90.00	179.51	13450.01	-5369.90	-775.59	5411.89	0.00	
19100.00	90.00	179.51	13450.01	-5469.90	-774.73	5511.56	0.00	
19200.00	90.00	179.51	13450.01	-5569.89	-773.88	5611.24	0.00	
19300.00	90.00	179.51	13450.01	-5669.89	-773.02	5710.91	0.00	

FIGHTING OKRA 18-19 FED 18H



Well: FIGHTING OKRA 18-19 FED 18H
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 (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
19400.00	90.00	179.51	13450.01	-5769.88	-772.17	5810.58	0.00	
19500.00	90.00	179.51	13450.01	-5869.88	-771.31	5910.26	0.00	
19600.00	90.00	179.51	13450.01	-5969.88	-770.45	6009.93	0.00	
19700.00	90.00	179.51	13450.01	-6069.87	-769.60	6109.60	0.00	
19800.00	90.00	179.51	13450.01	-6169.87	-768.74	6209.28	0.00	
19900.00	90.00	179.51	13450.01	-6269.87	-767.89	6308.95	0.00	
20000.00	90.00	179.51	13450.01	-6369.86	-767.03	6408.62	0.00	
20100.00	90.00	179.51	13450.01	-6469.86	-766.18	6508.30	0.00	
20200.00	90.00	179.51	13450.01	-6569.86	-765.32	6607.97	0.00	
20300.00	90.00	179.51	13450.01	-6669.85	-764.47	6707.64	0.00	
20400.00	90.00	179.51	13450.01	-6769.85	-763.61	6807.32	0.00	
20500.00	90.00	179.51	13450.01	-6869.84	-762.76	6906.99	0.00	
20600.00	90.00	179.51	13450.01	-6969.84	-761.90	7006.66	0.00	
20700.00	90.00	179.51	13450.01	-7069.84	-761.04	7106.34	0.00	
20800.00	90.00	179.51	13450.01	-7169.83	-760.19	7206.01	0.00	
20900.00	90.00	179.51	13450.01	-7269.83	-759.33	7305.68	0.00	
21000.00	90.00	179.51	13450.01	-7369.83	-758.48	7405.36	0.00	
21100.00	90.00	179.51	13450.01	-7469.82	-757.62	7505.03	0.00	
21200.00	90.00	179.51	13450.01	-7569.82	-756.77	7604.71	0.00	
21300.00	90.00	179.51	13450.01	-7669.82	-755.91	7704.38	0.00	
21400.00	90.00	179.51	13450.01	-7769.81	-755.06	7804.05	0.00	
21500.00	90.00	179.51	13450.01	-7869.81	-754.20	7903.73	0.00	
21600.00	90.00	179.51	13450.01	-7969.80	-753.35	8003.40	0.00	
21700.00	90.00	179.51	13450.01	-8069.80	-752.49	8103.07	0.00	
21800.00	90.00	179.51	13450.01	-8169.80	-751.63	8202.75	0.00	
21900.00	90.00	179.51	13450.01	-8269.79	-750.78	8302.42	0.00	
22000.00	90.00	179.51	13450.01	-8369.79	-749.92	8402.09	0.00	
22100.00	90.00	179.51	13450.01	-8469.79	-749.07	8501.77	0.00	
22200.00	90.00	179.51	13450.01	-8569.78	-748.21	8601.44	0.00	
22300.00	90.00	179.51	13450.01	-8669.78	-747.36	8701.11	0.00	
22400.00	90.00	179.51	13450.01	-8769.78	-746.50	8800.79	0.00	
22500.00	90.00	179.51	13450.01	-8869.77	-745.65	8900.46	0.00	
22600.00	90.00	179.51	13450.01	-8969.77	-744.79	9000.13	0.00	
22700.00	90.00	179.51	13450.01	-9069.76	-743.94	9099.81	0.00	
22800.00	90.00	179.51	13450.01	-9169.76	-743.08	9199.48	0.00	
22900.00	90.00	179.51	13450.01	-9269.76	-742.22	9299.15	0.00	
23000.00	90.00	179.51	13450.01	-9369.75	-741.37	9398.83	0.00	
23100.00	90.00	179.51	13450.01	-9469.75	-740.51	9498.50	0.00	
23200.00	90.00	179.51	13450.01	-9569.75	-739.66	9598.17	0.00	
23300.00	90.00	179.51	13450.01	-9669.74	-738.80	9697.85	0.00	
23400.00	90.00	179.51	13450.01	-9769.74	-737.95	9797.52	0.00	
23500.00	90.00	179.51	13450.01	-9869.73	-737.09	9897.19	0.00	
23600.00	90.00	179.51	13450.01	-9969.73	-736.24	9996.87	0.00	
23697.95	90.00	179.51	13450.01	-10067.67	-735.40	10094.49	0.00	exit
23700.00	90.00	179.51	13450.01	-10069.73	-735.38	10096.54	0.00	
23777.95	90.00	179.51	13450.00	-10147.67	-734.74	10174.23	0.00	BHL

18-26-34-A Sundry ID 2748871 Fighting Okra 18-19 Fed 18H.xlsm

Fighting Okra 18-19 Fed 18H

10 3/4		surface csg in a		14 3/4		inch hole.		Design Factors				Surface		
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	0.54	6.93	32,805
"B"						btc				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,243							Tail Cmt	does not	circ to sfc.	Totals:	810			32,805
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	4185	5M				2.00
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.														
Site plot (pipe racks 3 or 4) as per O.D. 130.D-3-L not found														

8 5/8		casing inside the		10 3/4		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		p 110	vam sprint fj	1.81	0.57	0.97	12,860	1	1.63	0.96	411,520
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: -607								Totals:	12,860			411,520
The cement volume(s) are intended to achieve a top of 0								ft from surface 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	905	2108	1637	29	10.50	4377	5M				0.61
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								905	2108			29
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!!												

5 1/2		casing inside the		8 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	17.00	p 110	dwc/c is+	2.39	1.02	1.45	23,778	1	2.43	1.71	404,226	
"B"							0				0	
"C"							0				0	
"D"			0				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,959							Totals:	23,778	404,226			
The cement volume(s) are intended to achieve a top of							12660	ft from surface or a		200	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg			
7 7/8	0.1733	1550	2446	1927	27	10.50			0.91			
Class 'C' tail cmt yld > 1.35												

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 267489

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 267489
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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