Form 3160-3 (March 2012) HOBBS OCD

FEB 06 2018

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 FF

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVER

5. Lease Serial No.
NMNM114992

APPLICATION FOR PERMIT TO DRI	ILL OF	REENTER		6. If Indian, Afforce	of Tribe Name
1a. Type of work: DRILL REENTER				7 If Unit or CA Agre	ement, Name and No.
Ib. Type of Well: ✓ Oil Well Gas Well Other	√ Sii	ngle Zone Multip	ole Zone /	48. Lease Name and FIGHTING OKRA	Well No. 71956 18-19 FED 5H
2. Name of Operator DEVON ENERGY PRODUCTION COMPAI	NY LP	(6137)		9. API Well No.	44427
	Phone No 05)552-6	(include area code)		10. Field and Pool, or 1 WC-025 G-09 S25	Exploratory 9809 3336D / UPPER WOLI
4. Location of Well (Report location clearly and in accordance with any Stat At surface NENW / 375 FNL / 2605 FWL / LAT 32.0496671 / At proposed prod. zone SWSE / 330 FNL / 2340 FEL / LAT 32.0	LONG	-103.5091289	964	11. Sec., T. R. M. or B SEC 18 / T26S / R	·
4. Distance in miles and direction from nearest town or post office*				12. County or Parish LEA	13. State NM
	No.of a	cres in lease	17. Spacin 320	g Unit dedicated to this v	well
to nearest well, drilling, completed, 1723 feet applied for, on this lease, ft.		22746 feet	FED: CO	BIA Bond No. on file D1104	
	Approxir 2/01/201	nate date work will sta	rt*	23. Estimated duration 45 days	n
Z. / \	4. Attac				
he following, completed in accordance with the requirements of Onshore Oil Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Land SUPO must be filed with the appropriate Forest Service Office).	*	4. Bond to cover the litem 20 above). 5. Operator certification.	he operation	ns unless covered by an	existing bond on file (see
5. Signature (Electronic Submission)		(Printed/Typed) cca Deal / Ph: (405	5)228-8429	9	Date 10/10/2017
itle Regulatory Compliance Professional					
pproved by (Signature)).) (Electronic Submission)		<i>(Printed/Typed)</i> Layton / Ph: (575)2	234-5959		Date . 01/31/2018
itle Supervisor Multiple Resources		SBAD			
pplication approval does not warrant or certify that the applicant holds leg onduct operations thereon./ Conditions of approval, if any, are attached.	al or equi	able title to those righ	ts in the sub	ject lease which would e	ntitle the applicant to
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime tates any false, fictitious or fraudulent statements or representations as to any	for any pe	erson knowingly and vithin its jurisdiction.	villfully to m	ake to any department o	or agency of the United
(Continued on page 2)				*(Inst	ructions on page 2)

PROVED WITH CONDITIONS
Approval Date: 01/31/2018

Ko 106/18

* Doble

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and 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., 25 U.S.C. 396, 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts. ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant-to-civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

(Form 3160-3, page 2)

Approval Date: 01/31/2018

Additional Operator Remarks

Location of Well

1. SHL: NENW / 375 FNL / 2605 FWL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.0496671 / LONG: -103.5091289 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 330 FNL / 2340 FEL / TWSP: 26S / RANGE: 34E / SECTION: 18 / LAT: 32.050814 / LONG: -103.50789 (TVD: 12721 feet, MD: 12850 feet)
BHL: SWSE / 330 FNL / 2340 FEL / TWSP: 26S / RANGE: 34E / SECTION: 19 / LAT: 32.0225727 / LONG: -103.507964 (TVD: 12794 feet, MD: 22746 feet)

BLM Point of Contact

Name: Deborah Ham

Title: Legal Landlaw Examiner

Phone: 5752345965 Email: dham@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.





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

ာ**ာက်tor Certification Data Report** 02/02/2018

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operation's conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Rebecca Deal

Signed on: 10/10/2017

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City

State: OK HOBBS OCD

Zip: 73102

Phone: (405)228-8429

FEB 06 2018

Email address: Rebecca.Deal@dvn.com

RECEIVED

Field Representative

Representative Name: Travis Phibbs

Street Address: 6488 Seven Rivers Hwy

City: Artesia

State: NM

Zip: 88210

Phone: (575)748-9929

Email address: travis.phibbs@dvn.com



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

Application Data Report

APD ID: 10400023190

Submission Date: 10/10/2017

Highlighted data reflects the most

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

recent changes

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400023190

Tie to previous NOS?

Submission Date: 10/10/2017

BLM Office: CARLSBAD Federal/Indian APD: FED User: Rebecca Deal

Title: Regulatory Compliance

Professional

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM114992

Lease Acres: 1283.96

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator letter of designation:

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

Zip: 73102

Operator City: Oklahoma City

State: OK

Operator Phone: (405)552-6571

Operator Internet Address: aletha.dewbre@dvn.com

Section 2 - Well Information

Well in Master Development Plan? EXISTING

Mater Development Plan name: Rattlesnake 1 MDP

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09

Pool Name: UPPER

S253336D

WOLFCAMP

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 18-2

Well Class: HORIZONTAL

RATTLESNAKE 1 MDP PAD

Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type: Distance to town:

Distance to nearest well: 1723 FT

Distance to lease line: 375 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

Fighting_Okra_18_19_Fed_5H_C_102_Signed_20171010091527.pdf

Well work start Date: 02/01/2018

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	375	FNL	260 5	FWL	26S	34E	18	Aliquot NENW	32.04966 71	- 103.5091 289	LEA	I	MEXI CO	F	NMNM 114992	336 5	0	0
KOP Leg #1	330	FNL	234 0	FEL	26S	34E	18	Aliquot NWNE	32.05081 4	- 103.5078 9	LEA	NEW MEXI CO		F	NMNM 114992	- 886 5	122 50	122 30
PPP Leg #1	330	FNL	234 0	FEL	26S	34E	18	Aliquot NWNE	32.05081 4	- 103.5078 9	LEA	NEW MEXI CO	' ' - ' '	F	NMNM 114992	- 935 6	128 50	127 21

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT
EXIT Leg #1	330	FNL	234 0	FEL	26S	34E	19	Aliquot SWSE	32.02257 27	- 103.5079 64	LEA	1	NEW MEXI CO		NMNM 114992	- 942 9	227 46	127 94
BHL Leg #1	330	FNL	234 0	FEL	26S	34E	19	Aliquot SWSE	32.02257 27	- 103.5079 64	LEA	1	NEW MEXI CO		NMNM 114992	- 942 9	227 46	127 94

Well Name: FIGHTING OKRA 18-19 FED Well Number: 5H

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Fighting_Okra_18_19_Fed_5H_10M_BOPE_CHK_20171010152643.pdf

BOP Diagram Attachment:

Fighting Okra_18_19_Fed_5H_10M_BOPE_CHK_20171010152701.pdf

Pressure Rating (PSI): 5M

Rating Depth: 12762

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

Fighting_Okra_18_19_Fed_5H_5M_BOPE__CK_20171010094435.pdf

BOP Diagram Attachment:

Fighting_Okra_18_19_Fed_5H_5M_BOPE__CK_20171010094457.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	875	0	875	-9434	- 10209	875	J-55	40.5	STC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
_	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	9500	0	9484	-9434	- 21034	9500	P- 110		OTHER - BTC	1.12 5	1.25	BUOY	1.6	BUOY	1.6
_	INTERMED IATE	8.75	7.625	NEW	API	N	9500	12950	9484	12762			3450	P- 110		OTHER - FLUSHMAX		1.25	BUOY	1.6	BUOY	1.6
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	22746	0	12794		- 22221	22746	P- 110			1.12 5	1.25	BUOY	1.6	BUOY	1.6

Са	sing Attachments
	Casing ID: 1 String Type: SURFACE
	Inspection Document:
	Spec Document:
	Tapered String Spec:
/	O sing Design Assumptions and Wedgebook's)
	Casing Design Assumptions and Worksheet(s):
	Fighting_Okra_18_19_Fed_5H_Surf_Csg_Ass_20171010094658.pdf
	Casing ID: 2 String Type: INTERMEDIATE
	Inspection Document:
	Spec Document:
	Tapered String Spec:
	Casing Design Assumptions and Worksheet(s):
	Fighting_Okra_18_19_Fed_5H_Int_Csg_Ass_20171010094758.pdf
	Casing ID: 3 String Type: INTERMEDIATE
	Inspection Document:
	Snoe Decument:
	Spec Document:
	Tapered String Spec:
	Casing Design Assumptions and Worksheet(s):
	Fighting_Okra_18_19_Fed_5H_Int_Csg_Ass_20171010094929.pdf

Well Number: 5H

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FIGHTING OKRA 18-19 FED

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Casing Attachments

Casing ID: 4

String Type:PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Fighting_Okra_18_19_Fed_5H_Prod_Csg_Ass_20171010095009.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead		0	0	0	0	0	0	0	SEE DRILLING CONTINGENCY ATTACHMENT	N/A

SURFACE	Lead		0	875	529	1.34	14.8	708.8	50	С	1% Calcium Chloride
		i						6			

INTERMEDIATE	Lead	0	1145 0	890	3.27	9	2911	30	TUNED	TUNED LIGHT
INTERMEDIATE	Tail	1145 0	1295 0	163	1.2	14.5	196	30	Н	Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
PRODUCTION	Lead	1275 0	2274 6	798	1.33	14.8	1061	25	С	0.125 lbs/sack Poly-E- Flake

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	875	SPUD MUD	8.33	9.1				2			
875	1295 0	SALT SATURATED	8.6	10				2			
875	1295 0	SALT SATURATED	8.6	10				2			
1295 0	2274 6	OIL-BASED MUD	11	13				12			

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will run GRMWD from TD to from KOP. Cement bond logs will be run in vertical to determine top of cement. Stated logs run will be in the Completion Report and submitted to the BLM.

List of open and cased hole logs run in the well:

CALIPER, CBL, DS, GR, MUDLOG

Coring operation description for the well:

N/A

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7320

Anticipated Surface Pressure: 4505.32

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Fighting_Okra_18_19_Fed_5H_H2S_Plan_20171010140746.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fighting_Okra_18_19_Fed_5H_Dir_Svy_20171010140833.pdf ·

Other proposed operations facets description:

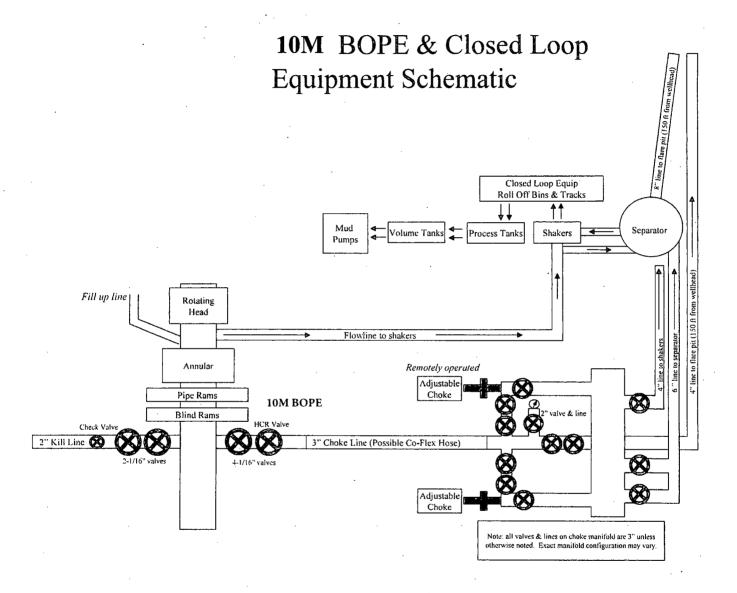
MULTI-BOWL VERBIAGE
MULTI-BOWL WELLHEAD
CLOSED-LOOP PLAN
SPUDDER RIG INFO
DRILLING CONTINGENCY
DRILLING PLAN INCLUDING AC REPORT
GCP FORM
3 Drilling Spec Sheets

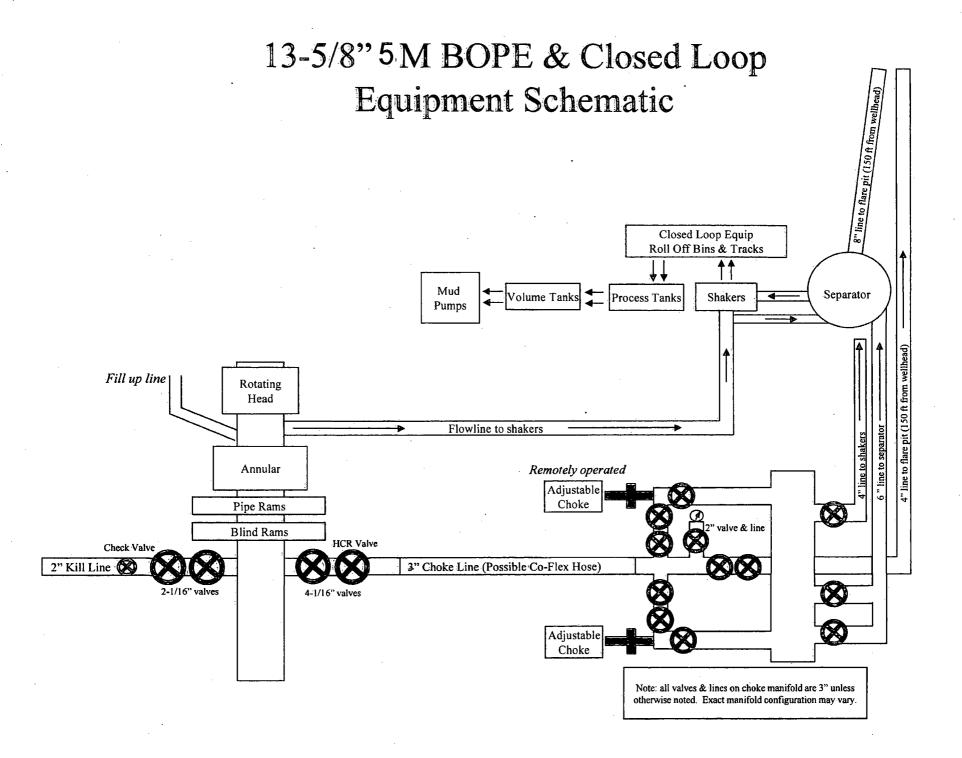
Other proposed operations facets attachment:

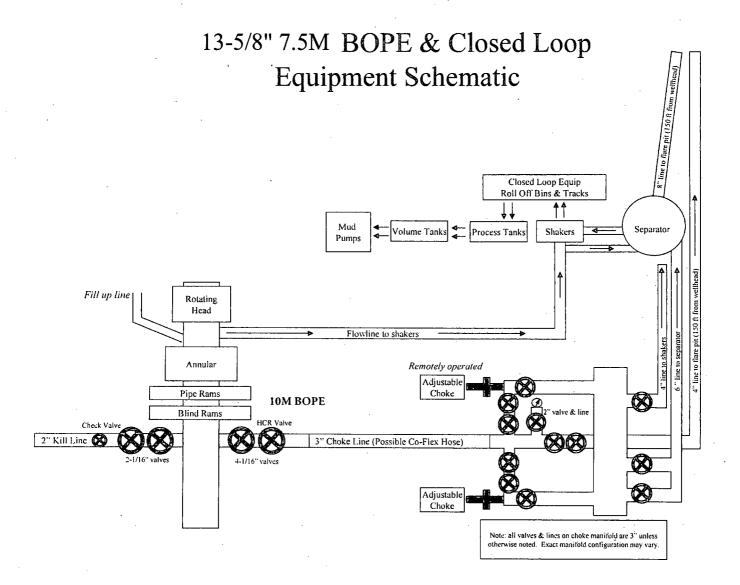
Fighting_Okra_18_19_Fed_5H_Clsd_Loop_20171010140905.pdf
Fighting_Okra_18_19_Fed_5H_MB_Verb_20171010140906.pdf
Fighting_Okra_18_19_Fed_5H_DRLG_CONT_20171010140905.pdf
Fighting_Okra_18_19_Fed_5H_MB_Wellhd_20171010140906.pdf
Fighting_Okra_18_19_Fed_5H_GCP_Form_20171010141231.pdf
Fighting_Okra_18_19_Fed_5H_5.5_x_20_P110_EC_VAMSG_V2_20171101145256.pdf
Fighting_Okra_18_19_Fed_5H_5.5_x_20_P110_EC_VAMTOP_HT_20171101145256.pdf
Fighting_Okra_18_19_Fed_5H_7.625_29.70_P110_Flushmax_20171101145257.pdf

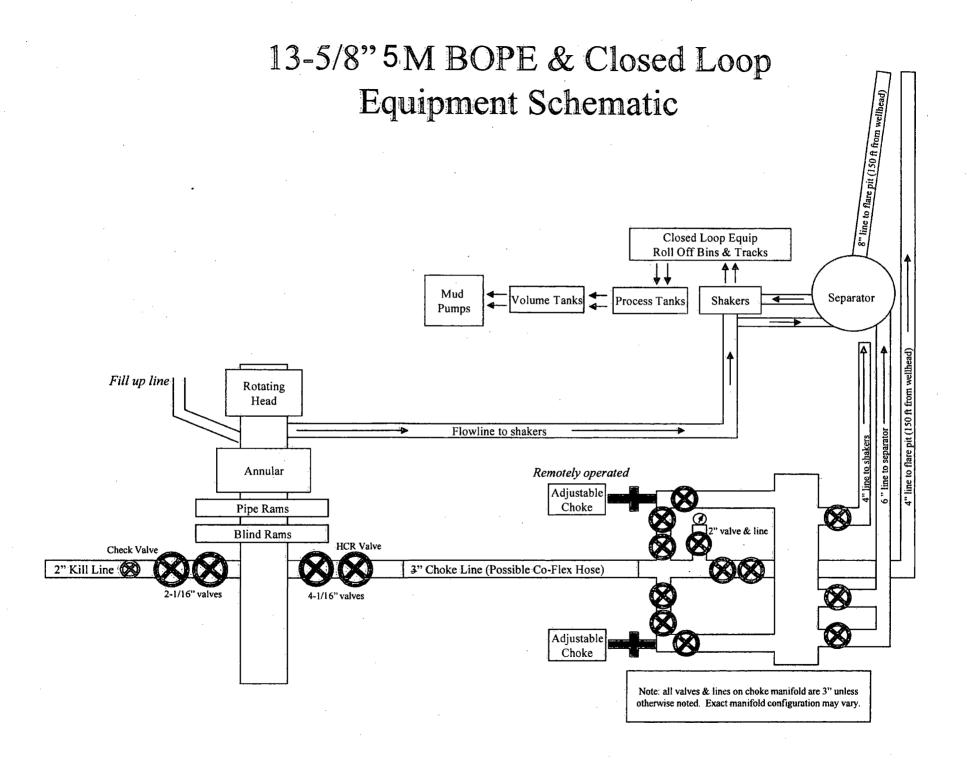
Other Variance attachment:

Fighting_Okra_18_19_Fed_5H_Co_flex_20171010141005.pdf
Fighting_Okra_18_19_Fed_5H_Spudder_Rig_Info_20171010141005.pdf









Issued on: 31 Mar. 2014



Connection Data Sheet

API Drift Weight Wall Th. Grade Connection 20.00 lb/ft 0.361 in. P110 EC 4.653 in. VAM® TOP HT-

PIPE PROPERTIES	- 1
Nominal OD	5.500 in.
Nominal ID	4.778 in.
Nominal Cross Section Area	5.828 sqin.
Grade Type	High Yield
Min: Yield Strength	125 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	135 ksi

CONNECTION PROPERT	TES
Connection Type	Premium T&C
Connection OD (nom)	6.071 in.
Connection ID (nom)	4.715 in.
Make-up Loss	4.382 in.
Coupling Length	10.748 in.
Critical Cross Section	5.828 sqin.
Tension Efficiency	100 % of pipe
Compression Efficiency	80 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

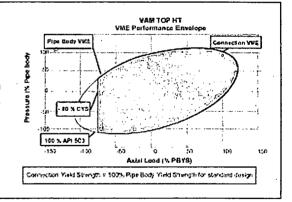
CONNECTION PERFORMANCES								
Tensile Yield Strength	729 klb							
Compression Resistance	583 klb							
Internal Yield Pressure	14360 psi							
External pressure resistance	12090 psi							
Max. bending with sealability	30 °/100 ft							
Max. Load on Coupling Face	388 klb							

TORQUE VALUES		i.
Min. Make-up torque	10850	ft.lb
Opti. Make-up torque	11950	
Max. Make-up torque	13050	ft.lb
Field Liner Max	15900	ft.lb
Mill and Licensees Torque - Min	15900	ft.lb .
Mill and Licensees Torque - Max	17500	ft.lb

VAM® TOP HT (High Torque) is a T&C connection based on the main features of the VAM® TOP connection.

This connection provides reinforced torque capability for liners and where High Torque is anticipated due to string rotation during running operations (torque rotating liner while running, rotating casing when cementing). It has been tested as per ISO13679 CAL IV requirements.

VAM® TOP HT is interchangeable with VAM® TOP product line with the exception of 4 1/2" size.



mexico@vamfieldservice.com// brazil@vamfieldservice.com.

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

canada@vamfieldservice.com china@vamfieldservice.com china@vamfieldservice.com

usa@vamfieldservice.com

baku@vamfieldservice.com

chinapore@vamfieldservice.com

chinapore@vamfieldservice.com ≾ gnigeria@vamfieldservice com angola@vamfieldservice.com

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

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



Surface Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point

Surface Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Surface Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole 3 ft/s		
Service Loads N/A		

Intermediate

Intermediate Casing Burst Design		
Load Case External Pressure Internal Pressur		
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design		
Load Case Assumptions		
Overpull 100kips		
Runing in hole 2 ft/s		
Service Loads	N/A	

Production Casing Burst Design		
Load Case	External Pressure	Internal Pressure
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced water) + test psi
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below surface 8.6 ppg packer fluid
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest frac fluid

Production Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC.	None
Cementing	Wet cement weight	Water (8.33ppg)

Production Casing Tension Design		
Load Case Assumptions		
Overpull	100kips	
Runing in hole 2 ft/s		
Service Loads N/A		

Intermediate

Intermediate Casing Burst Design		
Load Case External Pressure Internal Pressure		
Pressure Test	Formation Pore Pressure	Max mud weight of next hole- section plus Test psi
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole section
Fracture @ Shoe	Formation Pore Pressure	Dry gas

Intermediate Casing Collapse Design		
Load Case External Pressure Internal Pressure		
Full Evacuation	Water gradient in cement, mud above TOC	None
Cementing	Wet cement weight	Water (8.33ppg)

Intermediate Casing Tension Design				
Load Case Assumptions				
Overpull	100kips			
Runing in hole	2 ft/s			
Service Loads	N/A			



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



APD ID: 10400023190

Submission Date: 10/10/2017

Highlighted data reflects the most

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

recent changes Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Fighting_Okra_18_19_Fed_5H_Access_Rd_20171010143339.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Fighting_Okra_18_19_Fed_5H_New_Access_Rd_20171010145842.pdf

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_NEW_ACC_RD_20171010145859.pdf

New road type: COLLECTOR, RESOURCE

Length: 224

Feet

Width (ft.): 30

Max slope (%): 6

Max grade (%): 4

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: Water drainage ditch.

New road access plan or profile prepared? YES

New road access plan attachment:

Fighting_Okra_18_19_Fed_5H_New_Access_Rd_20171010145948.pdf

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_NEW_ACC_RD_20171010145954.pdf

Devon Energy APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached
- 3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big rig. At that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

Well Name: FIGHTING OKRA 18-19 FED Well Number: 5H

Access road engineering design? YES

Access road engineering design attachment:

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_NEW_ACC_RD_20171010150024.pdf

Fighting Okra 18 19 Fed 5H New Access Rd 20171010150041.pdf

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: See attached Interim reclamation diagram; Interim reclamation will be postponed in accordance to the stipulations within the MDP document.

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: LOW WATER

Drainage Control comments: N/A

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Fighting_Okra_18_19_Fed_5H_1mi_Radius_Map_20171010150133.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: PART OF APPROVED RATTLESNAKE 1 MDP - 9 ATTACHMENTS - 5H FLOWLINE (FLOWLINES BURIED), MDP FLOWLINE CORRIDOR, MDP BATTERY CONNECT GAS & CRUDE, CTB ELECTRIC, CTB PLAT, PRIMARY ELECTRIC PLAT, PAD PLAT, PAD ELECTRIC Production Facilities map:

Page 2 of 11

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Fighting_Okra_18_19_Fed_5H_Flowline_RS_MDP_20171010150215.pdf

Fighting_Okra_18_19_Fed_5H_RS__1_MDP_FL_CORR_20171010150217.PDF

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_BATCON_CRUDE_20171010150219.pdf

Fighting_Okra_18 19 Fed_5H_RS_1_MDP_BATCON_GAS_20171010150221.pdf

Fighting Okra 18 19 Fed 5H RS 1 MDP CTB ELE 20171010150223.pdf

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_CTB_PLAT_20171010150227.pdf

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_ELE_20171010150228.pdf

Fighting_Okra_18 19 Fed_5H_RS_1_MDP_PAD_PLAT_20171010150252.pdf

Fighting_Okra_18_19_Fed_5H_RS_1_MDP_PAD_ELE_20171010150251.PDF

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Water source type: RECYCLED

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: OTHER Source land ownership: FEDERAL

Water source transport method: PIPELINE

Source transportation land ownership: FEDERAL

Water source volume (barrels): 350000

Source volume (acre-feet): 45.112583

Source volume (gal): 14700000

Water source and transportation map:

FIGHTING_OKRA_18_19_FED_5H_Water_Map_20171010151106.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance.

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aguifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad. Caliche Map attached. Grading plan attached.

Construction Materials source location attachment:

Fighting_Okra_18_19_Fed_5H_Caliche_Map 20171010151145.pdf Fighting_Okra_18_19_Fed_5H_Grading_Plan_20171010151146.pdf

Section 7 - Methods for Handling Waste

Waste type: COMPLETIONS/STIMULATION

Waste content description: Flow back water during completion operations.

Amount of waste: 3000

barrels

Waste disposal frequency: One Time Only

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: FLOWBACK

Waste content description: Average produced BWPD over the flowback period (first 30 days of production).

Amount of waste: 8917

barrels

Waste disposal frequency: Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION

Disposal location ownership: STATE

Disposal type description:

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Disposal location description: Produced water during flowback will be disposed of at our Rattlesnake 16 SWD.

Waste type: PRODUCED WATER

Waste content description: Average produced BWPD over the first year of production.

Amount of waste: 1907

barrels

Waste disposal frequency: Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: OFF-LEASE INJECTION

Disposal location ownership: STATE

Disposal type description:

Disposal location description: Produced water will be primarily disposed of at our Rattlesnake 16 SWD. At certain times

during the year, some of the water will be recycled and used for completions.

Waste type: DRILLING

Waste content description: Water and oil based cuttings

Amount of waste: 1740

barrels

Waste disposal frequency: Daily

Safe containment description: N/A

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: All cutting will be disposed of at R360, Sundance, or equivalent.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Fighting_Okra_18_19_Fed_5H_WELL_LAYOUT_20171010151414.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: RATTLESNAKE 1 MDP PAD

Multiple Well Pad Number: 18-2

Recontouring attachment:

Fighting_Okra_18_19_Fed_5H_Interim_Recl_20171010151436.pdf

Drainage/Erosion control construction: Water Drainage Ditch

Drainage/Erosion control reclamation: Water Drainage Ditch

Well Name: FIGHTING OKRA 18-19 FED Well Number: 5H

Well pad proposed disturbance

(acres):

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres):

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres):

Total proposed disturbance:

Well pad interim reclamation (acres):

8.269

Road interim reclamation (acres):

0.154

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres):

0.06887052

Other interim reclamation (acres): 0

Total interim reclamation: 8.491871

Well pad long term disturbance

(acres): 3.221

Road long term disturbance (acres):

0.154

(acres):

Pipeline long term disturbance

(acres): 0.06887052

Other long term disturbance (acres): 0

Total long term disturbance:

3.4438705

Reconstruction method: Operator will use Best Management Practices BMP" to mechanically recontour to obtain the desired outcome.

Topsoil redistribution: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Soil treatment: Topsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.

Existing Vegetation at the well pad: Shinnery, yucca, grasses and mesquite.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Shinnery, yucca, grasses and mesquite.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Seed Type

Pounds/Acre

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Travis

Last Name: Phibbs

Phone: (575)748-9929

Email: travis.phibbs@dvn.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Maintain weeds on an as need basis.

Weed treatment plan attachment:

Monitoring plan description: Monitor as needed.

Monitoring plan attachment:

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

Well Name: FIGHTING OKRA 18-19 FED

Disturbance type: WELL PAD

Describe:

Well Number: 5H

USFS Ranger District:

Section 11 - Surface Ownership

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:
BIA Local Office:
BOR Local Office:
COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:
Military Local Office:
USFWS Local Office:
Other Local Office:
USFS Region:
USFS Forest/Grassland:
•
•
Disturbance type: NEW ACCESS ROAD
Describe:
Surface Owner: BUREAU OF LAND MANAGEMENT
Other surface owner description:
BIA Local Office:
BOR Local Office:
COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:
Military Local Office:
USFWS Local Office:
Other Local Office:
USFS Region:

Well Name: FIGHTING OKRA 18-19 FED	Well Number: 5H		
JSFS Forest/Grassland:	USFS Ranger District:		
	•		
	•		
Disturbance type: EXISTING ACCESS ROAD			
Describe:			
Surface Owner: BUREAU OF LAND MANAGEMENT			
Other surface owner description:			
BIA Local Office:			
BOR Local Office:			
COE Local Office:			
OOD Local Office:			
NPS Local Office:			
State Local Office:			
Military Local Office:			
JSFWS Local Office:	•		
Other Local Office:	•		
JSFS Region:			
JSFS Forest/Grassland:	USFS Ranger District:		
•			

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS, 288100 ROW - O&G Pipeline, FLPMA (Powerline), Other

ROW Applications

SUPO Additional Information: Part of approved Rattlesnake 1 MDP. See section 4 for flowline and MDP reference plats.

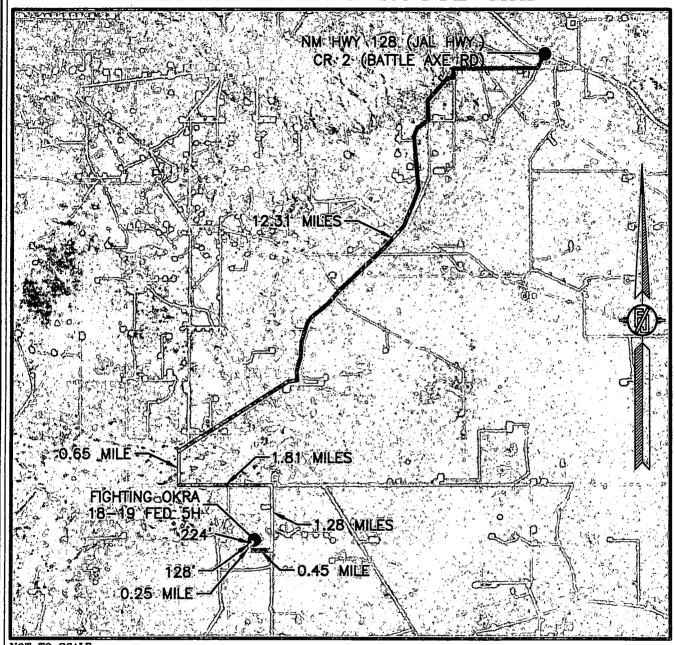
Use a previously conducted onsite? YES

Previous Onsite information: CONDUCTED 11/29/2016

Other SUPO Attachment

Fighting_Okra_18_19_Fed_5H_Misc_Plats_20171010152911.pdf

SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOV. 2015

DEVON ENERGY PRODUCTION COMPANY, L.P.

FIGHTING OKRA 18-19 FED 5H

LOCATED 375 FT. FROM THE NORTH LINE
AND 2605 FT. FROM THE WEST LINE OF

SECTION 18, TOWNSHIP 26 SOUTH,

RANGE 34 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

AUGUST 28, 2017

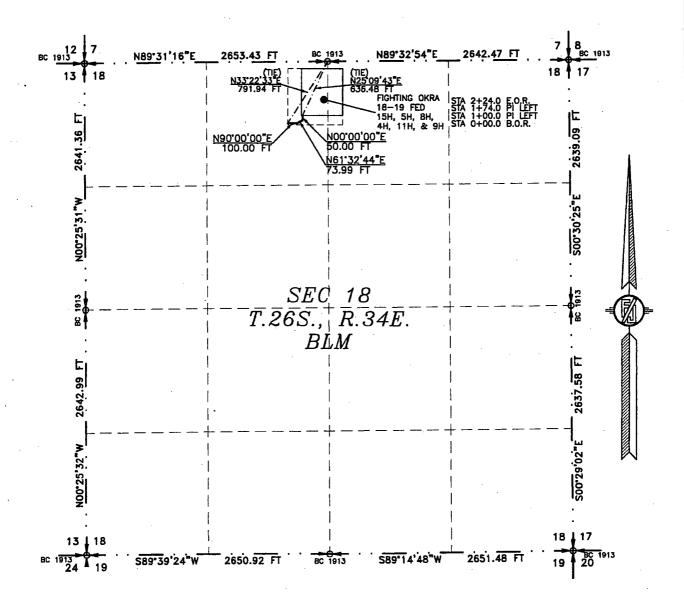
SURVEY NO. 5549
NEW MEXICO

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

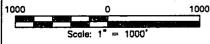
ACCESS ROAD FOR FIGHTING OKRA 18-19 FED 15H, 5H, 8H, 4H, 11H, & 9H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AUGUST 28, 2017



SEE NEXT SHEET (2-2) FOR DESCRIPTION

/INC:



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT:
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING.

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SUBVEY AND PLAY MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICOL.

YING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS DAY OF AUGUST 2017

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234–3341

SURVEY NO. 5549

301 SOUTH CANAL CARLSBAD, NEW MEXICO



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



Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	I
Unlined pit precipitated solids disposal schedule attachme	ent:
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial us	e?
Beneficial use user confirmation:	•
Estimated depth of the shallowest aquifer (feet):	•
Does the produced water have an annual average Total Disthat of the existing water to be protected?	ssolved Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	•
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

	•
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	•
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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

Bond Info Data Report

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:



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

Drilling Plan Data Report 02/02/2018

APD ID: 10400023190

Submission Date: 10/10/2017

Highlighted data reflects the most

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

recent changes

Well Name: FIGHTING OKRA 18-19 FED

Well Number: 5H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured		. v	Producing
ID.	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	UNKNOWN	3365	0	0	OTHER : Surface	NONE .	No
2	RUSTLER	2561	804	804	SANDSTONE,ANHYDRI TE	NONE	No
3	TOP SALT	2211	1154	1154	SALT	NONE	No
4	BASE OF SALT	-1639	5004	5004	LIMESTONE	NONE	No
5	BELL CANYON	-1899	5264	5264	SANDSTONE	NATURAL GAS,OIL	No
6	CHERRY CANYON	-2979	6344	6344	SANDSTONE	NATURAL GAS,OIL	No
7	BRUSHY CANYON	-4709	8074	8074	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING	-6179	9544	9544	SHALE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-7094	10459	10459	SANDSTONE	NATURAL GAS,OIL	No .
10	BONE SPRING 2ND	-7649	11014	11014	SANDSTONE	NATURAL GAS,OIL	No
11	BONE SPRING 3RD	-8729	12094	12094	SANDSTONE	NATURAL GAS,OIL	No
12	WOLFCAMP	-9159	12524	12524	SHALE	NATURAL GAS,OIL	. Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12794

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.