			(CD Hobbs			
orm 3160-5 June 2015) DE BU	UNITED STATES PARTMENT OF THE IN JREAU OF LAND MANAG	NTERIOR GEMENT		cD	FORM A OMB NO Expires: Ja	APPROVED D. 1004-0137 nuary 31, 2018	
SUNDRY	NOTICES AND REPORTS ON WELLS BS			CD	NMNM114992		
Do not use thi abandoned wel	s form for proposals to I. Use form 3160-3 (APL	drill or to re D) for such (proposals.	017	6. If Indian, Allottee of	r Tribe Name	
SUBMIT IN T	TRIPLICATE - Other inst	ructions on	page 2	VED	7. If Unit or CA/Agree	ement, Name and/or No.	
1. Type of Well	ler		REUL		8. Well Name and No. FIGHTING OKRA	18-19 FED 14H	
2. Name of Operator DEVON ENERGY PRODUCT	Contact: ION CONTRAIN: Rebecca.D	REBECCA D eal@dvn.com	EAL		 API Well No. 30-025-43992-0 	0-X1	
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 73102	UE 2	3b. Phone No Ph: 405-22	. (include area code) 28-8429		10. Field and Pool or I WC025G09S25	Exploratory Area 3336D-UPPER WC	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,)			11. County or Parish,	State	
Sec 18 T26S R34E NENW 33 32.049789 N Lat, 103.512062	0FNL 1695FWL 🖌 W Lon				LEA COUNTY,	NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION			TYPE OF	FACTION			
Notice of Intent	□ Acidize	Dee	pen	Product	ion (Start/Resume)	□ Water Shut-Off	
Subsequent Report	□ Alter Casing	Hyd	Iraulic Fracturing	□ Reclam	ation	Well Integrity	
Final Abandonment Notice	Casing Repair		ew Construction lug and Abandon Tempor		arily Abandon	Change to Original	
Change Plans Convert to Injection			g Back	U Water I	Disposal	PD	
13. Describe Proposed or Completed Op If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involvec testing has been completed. Final Al determined that the site is ready for f	eration: Clearly state all pertine ally or recomplete horizontally, rk will be performed or provide (operations. If the operation re bandonment Notices must be fil inal inspection.	nt details, includ give subsurface the Bond No. o sults in a multip ed only after all	Ing estimated startin locations and measu n file with BLM/BIA le completion or reco requirements, includ	g date of any p red and true vo . Required su ompletion in a ling reclamatio	oroposed work and appro ertical depths of all pertir bsequent reports must be new interval, a Form 316 n, have been completed a	ximate duration thereof. ent markers and zones. filed within 30 days 0-4 must be filed once and the operator has	
Devon respectfully requests the	ne following changes to th	ne original AF	D:				
Name change from Jayhawk	7-6 Fed 83H to Fighting C)kra 18-19 Fe	ed 14H.				
BHL location change from 330) FNL & 2188 FWL, Sec.	6-26S-34E to	330 FSL & 1620) FWL, Sec.	19-26S-34E		
Change from 12810'TVD/22,9	67'MD to 12,504'TVD/22,	161'MD					
See attached revised C-102, I	Drilling and Directional Pla	an	SEE A	TTACHE	D FOR		
			COND	ITIONS	OF APPROVA	L	
14. I hereby certify that the foregoing is	true and correct.						
Com	Electronic Submission # For DEVON ENERG mitted to AFMSS for proce	395035 verifie BY PRODUCT essing by CH/	d by the BLM Wel ON COMPAN, se RLES NIMMER o	ll Information nt to the Hol n 11/14/2017	n System obs (18CN0015SE)		
Name (Printed/Typed) REBECC/	ADEAL		Title REGUL	ATORY CO	MPLIANCE PROFE	SSI	
Signature (Electronic S	Submission)		Date 11/14/2	017			
	THIS SPACE FO	OR FEDER	L OR STATE	OFFICE U	SE		
Approved By CHARLES NIMMER	d Approval of this notice does	not warrant or		UM ENGIN	EER	Date 11/14/201	
ertify that the applicant holds legal or equilibrium would entitle the applicant to condu	atable title to those rights in the act operations thereon.	e subject lease	Office Hobbs				
itle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations as	crime for any p to any matter w	erson knowingly and rithin its jurisdiction.	willfully to m	ake to any department or	agency of the United	
				the second s			

1. Geologic Formations

TVD of target	12,504'	Pilot hole depth	n/a
MD at TD:	22,161'	Deepest expected fresh water:	794'

Basin

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Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
RUSTLER	794		
TOP SALT	1149		
BASE OF SALT	5024		
DELAWARE	5279		
LOWER BRUSHY CANYON 8A	9339		
BONE SPRING LIME	9549		
FIRST BONE SPRING SAND	10444		
2ND BONE SPRING LIME	10674		
BONE SPRING 2ND	11039		
BONE SPRING 3RD	11499		
BONE SPRING 3RD	12119		
WOLFCAMP	12554		

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

2. Casing Program

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Hole Size	Casing Interval		Csg.	Weight	Grade	Conn	SF	SF Burst	SF
	From	To	Size	(lbs)			Collapse		Tension
17.5"	0	900'	13.375"	48	H-40	STC	1.125	1.25	1.6
12.25"	0	5,150'	9.625"	40	J-55	BTC	1.125	1.25	1.6
8.75"	0	22,161'	5.5"	17	P-110	BTC	1.125	1.25	1.6

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

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Casing	# Sks	Wt. lb/ gal	H₂0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	666	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1186	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 Ibs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5-1/2"	825	11	17.38	2.81	n/a	1 st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
Prou	2152	13.2	7.44	1.46	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

If a DV tool is run, DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	50%
9-5/8" Intermediate	0'	30%
5-1/2" Production Casing	4950′	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing.	See attached for
IN	schematic.	

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Тур)e	~	Tested to:
			Annu	ılar	X	50% of working pressure
			Blind	Ram		
12-1/4"	13-5/8"	3M	Pipe F	Ram		214
			Double Ram		X	3111
			Other*			
			Annu	ılar	X	50% testing pressure
	13-5/8"	3M	Blind Ram			
0 2/1"			Pipe Ram			
0-3/4			Double Ram Other *		X	3M

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	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.

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	Y Are anchors required by manufacturer?								
Y	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.								
	Devon proposes the option of using a multi-bowl wellhead assembly. This assembly will								
	only be tested when installed on the surface casing. Minimum working pressure of the								
	blowout preventer (BOP) and related equipment (BOPE) required for drilling below the								
	surface casing shoe shall be 3000 (3M) psi.								
	• Wellhead will be installed by vendor's representatives.								
	• If the welding is performed by a third party, the vendor's representative will								
	monitor the temperature to verify that it does not exceed the maximum								
	temperature of the seal.								
	• Vendor representative will install the test plug for the initial BOP test.								
	• Vendor will install a solid steel body nack-off to completely isolate the lower head								
	after cementing intermediate casing After installation of the pack-off the pack-								
	off and the lower flange will be tested to 3M as shown on the attached schematic								
	Everything above the pack-off will not have been altered whatsoever from the								
	initial nipple up. Therefore the BOP components will not be retested at that time								
	• If the cement does not circulate and one inch operations would have been possible								
	with a standard wellhead, the well head will be cut and top out operations will be								
	conducted.								
	• Devon will pressure test all seals above and below the mandrel (but still above the								
	casing) to full working pressure rating								
	 Devon will test the casing to 0.22 psi/ft or 1500 psi whichever is greater as per 								
	Onshore Order #2								
	After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum								
	rating of 3M will be installed on the wellhead system and will undergo a 250 psi low								
	pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi								
	low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2.								
	If the well is not complete within 30 days of this BOP test, another full BOP test will be								
	conducted, as per Onshore Order #2.								
	After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8"								
	BOP/BOPE system with a minimum rating of 3M will already be installed on the								
	wellhead.								
	The pipe rams will be operated and checked each 24 hour period and each time the drill								
	pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line								
	and 5° choke line will be incorporated into the drilling spool below the ram BOP. In								
	addition to the rams and annular preventer, additional BOP accessories include a kelly								
	cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.								
	Deven requests a verience to ves a florible line with florest and between the DOD and								
	beyon requests a variance to use a flexible line with flanged ends between the BOP and the shoke manifold (shoke line). The line will be best as straight as reacible with								
	minimal turns								

See attached schematic.

5. Mud Program

Depth		Туре	Weight (ppg)	Viscosity	Water Loss	
From	To					
0	900'	FW Gel	8.6-8.8	28-34	N/C	
900'	5,150'	Saturated Brine	10.0-10.2	28-34	N/C	
5,150'	22,161'	Cut Brine	8.5-9.3	28-34	N/C	

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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL fromTD 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

Add	litional logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Specify what type and where?

BH Pressure at deepest TVD	6800 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions: 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.

Ν	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? Yes

- 1. In the event the spudder rig is unable to drill the surface holes the 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 with either OBM or cut brine 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 or cut brine, 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? Yes

- 1. Spudder rig will move in and drill surface hole.
 - a. Rig will utilize fresh water based mud to drill 17 ½" 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 13-3/8" 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 pad.
- 6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- Drilling operations will be performed with the drilling 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 NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments <u>x</u> Directional Plan Other, describe

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Devon Energy

Lea County, NM (NAD-83) Fighting Okra 18-19 Fed 14H

OH

Plan: Plan #1

Standard Planning Report

13 September, 2017

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	EDM 500 Devon Er Lea Cour Fighting (14H OH Plan #1	0.1 Multi User Db lergy lty, NM (NAD-83) Dkra 18-19 Fed		Local Co- TVD Refer MD Refere North Refe Survey Ca	ordinate Refer rence: ence: erence: liculation Met	rence: hod:	Well 14H 3371.2' GE + 25' 3371.2' GE + 25' Grid Minimum Curvatu	KB @ 3396.20usft KB @ 3396.20usft ire	
Project	Lea Count	y, NM (NAD-83)							
Map System: Geo Datum: Map Zone:	US State PI North Ameri New Mexico	ane 1983 can Datum 1983 e Eastern Zone		System Dat	tum:	Ν	lean Sea Level		
Site	Fighting O	kra 18-19 Fed							
Site Position: From: Position Uncertainty	Map :	0.00 usft	Northing: Easting: Slot Radius:	382 794	,937.52 usft ,421.25 usft 13-3/16 "	Latitude: Longitude: Grid Conve	rgence:	103	32° 3' 0.5157 N 3° 30' 59.2921 W 0.43 °
Well	14H								
Well Position Position Uncertainty	+N/-S +E/-W	-118.54 usft 1,365.70 usft 0.00 usft	Northing: Easting: Wellhead Elev	vation:	382,818.98 795,786.99 3,383.00	Busft La 5usft Lo Dusft G	atitude: ongitude: round Level:	10	32° 2' 59.2402 N 3° 30' 43.4352 W 3,371.20 usft
Magnetics	Mode	I Name HDGM	Sample Date 9/13/2017	Declina (°)	ation 6.80	Dip No.	Angle (°) 59.78	Field Stren (nT)	jth 47,891
Design	Plan #1								
Audit Notes:			Di		_				
Vertical Section:	ing a star	Depth F (u	rom (TVD) Isft)	+N/-S (usft) 0.00	+ (L	e On Depth: E/-W usft) 0.00	Dire 18	ction (°) 0.01	George en
Plan Sections Measured Depth Incli (usft)	nation A (°)	Vertic zimuth Dep (°) (ust	cal th +N/-S ft) (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 11,931.04 12,756.04	0.00 0.00 82.50	0.00 0.00 11,9 180.23 12,4	0.00 0.00 31.04 0.00 99.10 -498.1	0 0.00 0 0.00 7 -2.00	0.00 0.00 10.00	0.0 . 0.0 10.0	0 0.00 0 0.00 0 0.00	0.00 0.00 180.23	
12,831.08 22,161.88	90.00 90.00	180.00 12,5 180.00 12,5	04.00 -572.99 04.00 -9,903.79	9 -2.15 9 -2.15	10.00 0.00	10.0 0.0	0 -0.31 0 0.00	-1.76 0.00 PBHI	. (FO 14H)

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Planning Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Well 14H

Minimum Curvature

Grid

3371.2' GE + 25' KB @ 3396.20usft

3371.2' GE + 25' KB @ 3396.20usft

Database: Company: Project: Site: Well: 14H ОН Wellbore: Design:

EDM 5000.1 Multi User Db Devon Energy Lea County, NM (NAD-83) Fighting Okra 18-19 Fed Plan #1

Planne

d Survey	1997 1997								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (FO 14H)								
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1 000 00	0.00	0.00	1.000.00	0.00	0.00	0.00	0.00	0.00	0.00
1 100 00	0.00	0.00	1 100 00	0.00	0.00	0.00	0.00	0.00	0.00
1 200 00	0.00	0.00	1,200,00	0.00	0.00	0.00	0.00	0.00	0.00
1 300 00	0.00	0.00	1,300,00	0.00	0.00	0.00	0.00	0.00	0.00
1 400 00	0.00	0.00	1,400,00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	.,	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	. 0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2 000 00	0.00	0.00	2 000 00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3 000 00	0.00	0.00	3 000 00	0.00	0.00	0.00	0.00	0.00	0.00
3,100,00	0.00	0.00	3 100 00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,200,00	0.00	0.00	0.00	0.00	0.00	0.00
3 300 00	0.00	0.00	3 300 00	0.00	0.00	0.00	0.00	0.00	0.00
3 400 00	0.00	0.00	3 400 00	0.00	0.00	0.00	0.00	0.00	0.00
0,400.00	0.00	0.00	0,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4 000 00	0.00	0.00	4 000 00	0.00	0.00	0.00	0.00	0.00	0.00
4 100 00	0.00	0.00	4 100 00	0.00	0.00	0.00	0.00	0.00	0.00
4 200 00	0.00	0.00	4 200 00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4 300 00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
			F 000 00						
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00

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COMPASS 5000.1 Build 80

Planning Report

EDM 5000.1 Multi User Db Database: Devon Energy Company: Project: Site: Well: 14H Wellbore: OH Design: Plan #1

Lea County, NM (NAD-83) Fighting Okra 18-19 Fed

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well 14H 3371.2' GE + 25' KB @ 3396.20usft 3371.2' GE + 25' KB @ 3396.20usft Grid Minimum Curvature

Planned	I Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	5 300 00	0.00	0.00	5 300 00	0.00	0.00	0.00	0.00	0.00	0.00
	5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	F 500 00	0.00	0.00	5 500 00	0.00	0.00	0.00	0.00	0.00	0.00
	5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,000.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,800,00	0.00	0.00	5 800 00	0.00	0.00	0.00	0.00	0.00	0.00
	5 900 00	0.00	0.00	5,900,00	0.00	0.00	0.00	0.00	0.00	0.00
	6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	0,400.00	0.00	0.00	0,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,000,00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	8 500 00	0.00	0.00	8 500 00	0.00	0.00	0.00	0.00	0.00	0.00
	8 600 00	0.00	0.00	8 600 00	0.00	0.00	0.00	0.00	0.00	0.00
	8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
100	8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	9 000 00	0.00	0.00	9 000 00	0.00	0.00	0.00	0.00	0.00	0.00
	9,000.00	0.00	0.00	9 100 00	0.00	0.00	0.00	0.00	0.00	0.00
	9 200 00	0.00	0.00	9 200 00	0.00	0.00	0.00	0.00	0.00	0.00
	9 300 00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.500.00	0.00	0.00	0.500.00	0.00	0.00	0.00	0.00	0.00	0.00
	9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	9,600.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	9,800,00	0.00	0.00	9 800 00	0.00	0.00	0.00	0.00	0.00	0.00
	9 900 00	0.00	0.00	9 900 00	0.00	0.00	0.00	0.00	0.00	0.00
	0,000.00	0.00	0.00	0,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	10,600.00	0.00	0.00	10,600.00	0.00	0.00	0.00	0.00	0.00	0.00

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Planning Report

Database:	EDM 50
Company:	Devon I
Project:	Lea Co
Site:	Fighting
Well:	14H
Wellbore:	OH
Design:	Plan #1

EDM 5000.1 Multi User Db Devon Energy Lea County, NM (NAD-83) Fighting Okra 18-19 Fed 4H DH Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well 14H

3371.2' GE + 25' KB @ 3396.20usft 3371.2' GE + 25' KB @ 3396.20usft Grid Minimum Curvature

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
10,700.00	0.00	0.00	10,700.00	0.00	0.00	0.00	0.00	0.00	0.00
10,800.00	0.00	0.00	10,800.00	0.00	0.00	0.00	0.00	0.00	0.00
10,900.00	0.00	0.00	10,900.00	0.00	0.00	0.00	0.00	0.00	0.00
11,000,00	0.00	0.00	11,000.00	0.00	0.00	0.00	0.00	0.00	0.00
11,100,00	0.00	0.00	11,100.00	0.00	0.00	0.00	0,00	0.00	0.00
11,200,00	0.00	0.00	11,200.00	0.00	0.00	0.00	0.00	0.00	0.00
11,300.00	0.00	0.00	11,300.00	0.00	0.00	0.00	0.00	0.00	0.00
11,400.00	0.00	0.00	11,400.00	0.00	0.00	0.00	0.00	0.00	0.00
11,500.00	0.00	0.00	11,500.00	0.00	0.00	0.00	0.00	0.00	0.00
11,600.00	0.00	0.00	11,600.00	0.00	0.00	0.00	0.00	0.00	0.00
11,700.00	0.00	0.00	11,700.00	0.00	0.00	0.00	0.00	0.00	0.00
11,800.00	0.00	0.00	11,800.00	0.00	0.00	0.00	0.00	0.00	0.00
11,900.00	0.00	0.00	11,900.00	0.00	0.00	0.00	0.00	0.00	0.00
11,931.04	0.00	0.00	11,931.04	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1	0.00								
11,950.00	1.90	180.23	11,950.00	-0.31	0.00	0.31	10.00	10.00	0.00
12,000.00	6.90	180.23	11,999.83	-4.14	-0.02	4.14	10.00	10.00	0.00
12,050.00	11.90	180.23	12,049.15	-12.31	-0.05	12.31	10.00	10.00	0.00
12,100.00	16.90	180.23	12,097.56	-24.73	-0.10	24.73	10.00	10.00	0.00
12,150.00	21.90	180.23	12,144.71	-41.33	-0.17	41.33	10.00	10.00	0.00
12,200.00	26.90	180.23	12,190.23	-61.98	-0.25	61.98	10.00	10.00	0.00
12,250.00	31.90	180.23	12,233.78	-86.51	-0.35	86.51	10.00	10.00	0.00
12,300.00	36.90	180.23	12,275.02	-114.75	-0.46	114.75	10.00	10.00	0.00
12,350.00	41.90	180.23	12,313.65	-146.47	-0.59	146.47	10.00	10.00	0.00
12,400.00	46.90	180.23	12,349.37	-181.44	-0.73	181.44	10.00	10.00	0.00
12,450.00	51.90	180.23	12,381.90	-219.39	-0.88	219.39	10.00	10.00	0.00
12,500.00	56.90	180.23	12,411.00	-260.03	-1.04	260.03	10.00	10.00	0.00
12,550.00	61.90	180.23	12,436.44	-303.05	-1.22	303.05	10.00	10.00	0.00
12,600.00	66.90	180.23	12,458.04	-348.13	-1.40	348.13	10.00	10.00	0.00
12,650.00	71.90	180.23	12,475.63	-394.91	-1.59	394.91	10.00	10.00	0.00
12,700.00	76.90	180.23	12,489.08	-443.05	-1.78	443.05	10.00	10.00	0.00
12,750.00	81.90	180.23	12,498.28	-492.18	-1.98	492.18	10.00	10.00	0.00
12,756.04	82.50	180.23	12,499.10	-498.17	-2.00	498.17	10.00	10.00	0.00
Start DLS 10).00 TFO -1.76								
12,800.00	86.89	180.09	12,503.16	-541.93	-2.12	541.93	10.00	10.00	-0.31
12,831.08	90.00	180.00	12,504.00	-572.99	-2.15	572.99	10.00	10.00	-0.31
Start 9330.8	0 hold at 12831.0	08 MD							
12,900.00	90.00	180.00	12,504.00	-641.91	-2.15	641.91	0.00	0.00	0.00
13,000.00	90.00	180.00	12,504.00	-741.91	-2.15	741.91	0.00	0.00	0.00
13,100.00	90.00	180.00	12,504.00	-841.91	-2.15	841.91	0.00	0.00	0.00
13,200.00	90.00	180.00	12,504.00	-941.91	-2.15	941.91	0.00	0.00	0.00
13,300.00	90.00	180.00	12,504.00	-1,041.91	-2.15	1,041.91	0.00	0.00	0.00
13,400.00	90.00	180.00	12,504.00	-1,141.91	-2.15	1,141.91	0.00	0.00	0.00
13,500.00	90.00	180.00	12,504.00	-1,241.91	-2.15	1,241.91	0.00	0.00	0.00
13,600.00	90.00	180.00	12,504.00	-1,341.91	-2.15	1,341.91	0.00	0.00	0.00
13,700.00	90.00	180.00	12,504.00	-1,441.91	-2.15	1,441.91	0.00	0.00	0.00
13,800.00	90.00	180.00	12,504.00	-1,541.91	-2.15	1,541.91	0.00	0.00	0.00
13,900.00	90.00	180.00	12,504.00	-1,641.91	-2.15	1,641.91	0.00	0.00	0.00
14,000.00	90.00	180.00	12,504.00	-1,741.91	-2.15	1,741.91	0.00	0.00	0.00
14,100.00	90.00	180.00	12,504.00	-1,841.91	-2.15	1,841.91	0.00	0.00	0.00
14,200.00	90.00	180.00	12,504.00	-1,941.91	-2.15	1,941.91	0.00	0.00	0.00
14,300.00	90.00	180.00	12,504.00	-2,041.91	-2.15	2,041.91	0.00	0.00	0.00
14,400.00	90.00	180.00	12,504.00	-2,141.91	-2.15	2,141.91	0.00	0.00	0.00

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COMPASS 5000.1 Build 80

Planning Report

TVD Reference:

MD Reference:

North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Well 14H

Minimum Curvature

Grid

3371.2' GE + 25' KB @ 3396.20usft

3371.2' GE + 25' KB @ 3396.20usft

Database: Company: Project: Site: Well: Wellbore: Design: EDM 5000.1 Multi User Db Devon Energy Lea County, NM (NAD-83) Fighting Okra 18-19 Fed 14H OH Plan #1

Planned Survey

Vertical Build Measured Vertical Dogleg Turn Depth Depth +N/-S +E/-W Section Rate Rate Rate Inclination Azimuth (°/100usft) (°/100usft) (usft) (usft) (usft) (°/100usft) (°) (°) (usft) (usft) 90.00 180.00 12,504.00 -2,241.91 -2.15 2,241.91 0.00 0.00 0.00 14,500.00 12 504 00 0 00 0.00 0.00 14,600.00 90 00 180.00 -2.341.91-2 15 2 341 91 14,700.00 90.00 180.00 12,504.00 -2,441.91 -2.15 2,441.91 0.00 0.00 0.00 0.00 90.00 180.00 12,504.00 -2.541.91 2 541 91 0.00 0.00 14.800.00 -2.15 180.00 12,504.00 -2,641.91 -2.15 2,641.91 0.00 0.00 0.00 14,900.00 90.00 15,000.00 90.00 180.00 12,504.00 -2,741.91 -2.15 2,741.91 0.00 0.00 0.00 90.00 180.00 12 504 00 -2 841 91 -2 15 2 841 91 0.00 0 00 15 100 00 0 00 15,200.00 90.00 180.00 12,504.00 -2,941.91 -2.15 2.941.91 0.00 0.00 0.00 90.00 0.00 0 00 15,300.00 180.00 12 504 00 -3.041.91-2.15 3 041 91 0.00 15,400.00 90.00 180.00 12,504.00 -3,141.91 -2.15 3,141.91 0.00 0.00 0.00 15,500.00 90 00 180.00 12,504.00 -3,241.91 -2.15 3,241.91 0.00 0.00 0.00 90.00 180.00 12,504,00 -3.341.91 -2.15 3.341.91 0.00 0.00 15 600 00 0.00 15,700.00 90.00 180.00 12,504,00 -3,441.91 -2.15 3,441.91 0.00 0.00 0.00 90.00 180.00 12 504 00 0 00 15 800.00 -3.541.91 -2.15 3 541 91 0 00 0 00 15,900.00 90.00 180.00 12,504.00 -3,641.91 -2.15 3,641.91 0.00 0.00 0.00 16,000.00 90.00 180.00 12,504.00 -3,741.91 -2.15 3,741.91 0.00 0.00 0.00 16 100 00 90.00 180.00 12,504.00 -3.841.91-2.15 3,841,91 0.00 0.00 0.00 16,200.00 90 00 180.00 12,504.00 -3.941.91 -2.15 3,941,91 0.00 0.00 0.00 90.00 180 00 0.00 16 300 00 12 504 00 -4 041 91 -2 15 4 041 91 0 00 0 00 16,400.00 90.00 180.00 12,504.00 -4,141.91 -2.15 4,141.91 0.00 0.00 0.00 16 500 00 90.00 180.00 12 504 00 -4 241 91 -2.15 4 241 91 0 00 0.00 0.00 16,600,00 90.00 180.00 12,504,00 -2.15 0.00 0.00 -4.341.914.341.91 0.00 16,700.00 90 00 180 00 12.504.00 -4.441.91 -2.15 4,441,91 0.00 0.00 0.00 0.00 16 800 00 90.00 180.00 12 504 00 -4 541 91 -2 15 4 541 91 0.00 0 00 16,900.00 90.00 180.00 12.504.00 -4.641.91 -2.15 4.641.91 0.00 0.00 0.00 17 000 00 90.00 180.00 12,504.00 -4.741.91 -2.15 4,741.91 0.00 0 00 0.00 90.00 180.00 12,504.00 -2.15 4,841.91 0.00 17,100.00 -4.841.91 0.00 0.00 17,200.00 90.00 180.00 12,504.00 -4.941.91 -2.15 4,941,91 0.00 0.00 0.00 90.00 0.00 17,300.00 180.00 12,504.00 -5.041.91 -2.15 5.041.91 0.00 0.00 17,400.00 90 00 180.00 12,504.00 -5.141.91 -2 15 5,141.91 0 00 0.00 0.00 17,500.00 90.00 180.00 12,504.00 -5,241.91 -2.15 5,241.91 0.00 0.00 0.00 90.00 180.00 12,504.00 -5,341.91 -2.15 5,341.91 0.00 0.00 17,600,00 0.00 180.00 17,700.00 90.00 12,504.00 -5 441 91 -2.15 5,441,91 0.00 0.00 0.00 17,800.00 90.00 180.00 12,504.00 -5,541.91 -2.15 5,541.91 0.00 0.00 0.00 17,900.00 90.00 180.00 12,504,00 -5 641 91 -2.15 5 641 91 0.00 0 00 0 00 18,000.00 90.00 180.00 12,504,00 -5,741.91 -2.15 5.741.91 0.00 0.00 0.00 18,100.00 90 00 180.00 12,504.00 -5 841 91 -2.15 5 841 91 0.00 0 00 0.00 90.00 180.00 12,504,00 -5.941.91 -2.15 5,941,91 0.00 0.00 0.00 18,200.00 18,300.00 90.00 180.00 12,504.00 -6,041.91 -2.15 6,041.91 0.00 0.00 0.00 18,400.00 90.00 180.00 12,504.00 -6.141.91 -2.15 6.141.91 0.00 0.00 0.00 18,500.00 90 00 180.00 12,504.00 -6.241.91 -2.15 6 241 91 0.00 0 00 0.00 180.00 12,504.00 -6,341.91 18,600.00 90.00 -2.15 6,341.91 0.00 0.00 0.00 18,700.00 90.00 180.00 12,504.00 -6,441.91 -2.15 6,441.91 0.00 0.00 0.00 180.00 0.00 0.00 18,800.00 90.00 12,504.00 -6.541.91 -2.15 6.541.91 0.00 18,900.00 90.00 180.00 12,504.00 -6.641.91-2.15 6.641.91 0.00 0.00 0.00 19,000.00 90.00 180.00 12,504.00 -6.741.91 -2.15 6.741.91 0.00 0.00 0.00 19,100.00 90.00 180.00 12,504.00 -6,841.91 -2.15 6.841.91 0.00 0.00 0.00 180 00 12 504 00 0 00 0.00 19.200.00 90.00 -6 941 91 -2 15 6 941 91 0.00 90 00 180.00 12 504 00 -2.15 0.00 0 00 0 00 19 300 00 -7 041 91 7 041 91 19,400.00 90.00 180.00 12,504.00 -7,141.91 -2.15 7,141.91 0.00 0.00 0.00 19,500.00 90 00 180.00 12 504.00 -7,241.91 -2.15 7,241.91 0.00 0.00 0.00 19,600,00 90 00 180.00 12,504,00 -7 341 91 -2.15 7 341 91 0.00 0.00 0.00 90.00 180.00 12,504.00 -7,441.91 -2.15 7,441.91 0.00 0.00 0.00 19,700.00

9/13/2017 11:59:15AM

19,800.00

90.00

180.00

12,504.00

-7,541.91 Page 6 -2.15

7,541.91

0.00

0.00

0.00 COMPASS 5000.1 Build 80

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design: EDM 5000.1 Multi User Db Devon Energy Lea County, NM (NAD-83) Fighting Okra 18-19 Fed 14H OH Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well 14H 3371.2' GE + 25' KB @ 3396.20usft 3371.2' GE + 25' KB @ 3396.20usft Grid Minimum Curvature

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
19,900.00	90.00	180.00	12,504.00	-7,641.91	-2.15	7,641.91	0.00	0.00	0.00
20,000.00	90.00	180.00	12,504.00	-7,741.91	-2.15	7,741.91	0.00	0.00	0.00
20,100.00	90.00	180.00	12,504.00	-7,841.91	-2.15	7,841.91	0.00	0.00	0.00
20,200.00	90.00	180.00	12,504.00	-7,941.91	-2.15	7,941.91	0.00	0.00	0.00
20,300.00	90.00	180.00	12,504.00	-8,041.91	-2.15	8,041.91	0.00	0.00	0.00
20,400.00	90.00	180.00	12,504.00	-8,141.91	-2.15	8,141.91	0.00	0.00	0.00
20,500.00	90.00	180.00	12,504.00	-8,241.91	-2.15	8,241.91	0.00	0.00	0.00
20,600.00	90.00	180.00	12,504.00	-8,341.91	-2.15	8,341.91	0.00	0.00	0.00
20,700.00	90.00	180.00	12,504.00	-8,441.91	-2.15	8,441.91	0.00	0.00	0.00
20,800.00	90.00	180.00	12,504.00	-8,541.91	-2.15	8,541.91	0.00	0.00	0.00
20,900.00	90.00	180.00	12,504.00	-8,641.91	-2.15	8,641.91	0.00	0.00	0.00
21,000.00	90.00	180.00	12,504.00	-8,741.91	-2.15	8,741.91	0.00	0.00	0.00
21,100.00	90.00	180.00	12,504.00	-8,841.91	-2.15	8,841.91	0.00	0.00	0.00
21,200.00	90.00	180.00	12,504.00	-8,941.91	-2.15	8,941.91	0.00	0.00	0.00
21,300.00	90.00	180.00	12,504.00	-9,041.91	-2.15	9,041.91	0.00	0.00	0.00
21,400.00	90.00	180.00	12,504.00	-9,141.91	-2.15	9,141.91	0.00	0.00	0.00
21,500.00	90.00	180.00	12,504.00	-9,241.91	-2.15	9,241.91	0.00	0.00	0.00
21,600.00	90.00	180.00	12,504.00	-9,341.91	-2.15	9,341.91	0.00	0.00	0.00
21,700.00	90.00	180.00	12,504.00	-9,441.91	-2.15	9,441.91	0.00	0.00	0.00
21,800.00	90.00	180.00	12,504.00	-9,541.91	-2.15	9,541.91	0.00	0.00	0.00
21,900.00	90.00	180.00	12,504.00	-9,641.91	-2.15	9,641.91	0.00	0.00	0.00
22,000.00	90.00	180.00	12,504.00	-9,741.91	-2.15	9,741.91	0.00	0.00	0.00
22,100.00	90.00	180.00	12,504.00	-9,841.91	-2.15	9,841.91	0.00	0.00	0.00
22,161.88	90.00	180.00	12,504,00	-9,903,79	-2.15	9,903,79	0.00	0.00	0.00

Design Targets						in ant Albain	hada a ka sa sa s	n an the state of the	ninger and an an
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (FO 14H) - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	382,818.98	795,786.95	32° 2' 59.2402 N	103° 30' 43.4352 W
PBHL (FO 14H) - plan hits target ce - Point	0.00 enter	0.00	12,504.00	-9,903.79	-2.15	372,915.19	795,784.80	32° 1' 21.2389 N	103° 30' 44.3348 W

Plan Annotations Local Coordinates Measured Vertical Depth Depth +N/-S +E/-W (usft) (usft) (usft) (usft) Comment 11,931.04 11,931.04 0.00 0.00 Start Build 10.00 12,756.04 12,499.10 -498.17 -2.00 Start DLS 10.00 TFO -1.76 12,831.08 12,504.00 -572.99 Start 9330.80 hold at 12831.08 MD -2.15 22,161.88 12,504.00 -9,903.79 -2.15 TD at 22161.88

Form C-102 District 1 State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Revised August 1, 2011 Phone: (575) 393-6161 Fax. (575) 393-0720 Energy, Minerals & Natural Resources Department District II Submit one copy to appropriate 811 S. First St., Artesia, NM 88210 OIL CONSERVATION DIVISION Phone: (575) 748-1283 Fax (575) 748-9720 **District** Office District III 1220 South St. Francis Dr. 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 AMENDED REPORT Santa Fe, NM 87505 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name ¹ API Number Pool Code 280 09 S263426B; BONE SPRING 97947 30-025-43992 Property Code Property Name [°] Well Number 66 **FIGHTING OKRA 18-19 FED** 14H 30884 3 8 Operator Name Elevation OGRID No. 6137 DEVON ENERGY PRODUCTION COMPANY, L.P. 3371.2 ¹⁰ Surface Location UL or lot no. Range Lot Idn Feet from the North/South line Feet from the East/West line County Section Township 330 NORTH 1695 WEST 26 S 34 E LEA С 18 "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 19 26 S 34 E 330 SOUTH 1620 WEST LEA N

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.

¹⁵ Order No.

¹³ Joint or Infill

Dedicated Acres 320 ¹⁴ Consolidation Code

N89'31'16"E 2653.43 FT N89'32'54"E 2642.47 FT	" OPERATOR CERTIFICATION
NW CORNER SEC 18 N/4 CORNER SEC. 18 NE CORNER SEC. 18 NE CORNER SEC. 18	I hereby certify that the information contained herein is true and complete to the
LAT. = 32.0506923'N L 1095 NL LONG. = 103.5089724'W 0LONG. = 103.5004452'W	best of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT) SURFACE NMSP EAST (FT) SURFACE	working interest or unleased mineral interest in the land including the proposed
N = 383134.75 LOCATION E = 794089.79 LI E = 796742.73 NE = 799384.71	bottom hole location or has a right to drill this well at this location pursuant to
≥ 12 FIGHTING OKRA 18-19 FED 14H	a contract with an owner of such a mineral or working interest, or to a
D LAT. = 32.0497889'N (NAD83)	withintary pooling agreement or a compulsory pooling order heretofore entered
W/4 CORNER SEC. 18 LONG. = 103.5120653TW BEL4 CORNER SEC. 18	by the division
LONG. = 103.5175361'W N = 382818.98	
NMSP EAST (FT) E = 795 86.95 N = 180.493 86 H	9/20/2017
E = 794109.39 G	Signature Date
37.5	
× 13	Rebecca Deal, Regulatory Analyst
≥ L4 QUARTER CORNER 20 SI L4 L4T. = 32/03615737N SI	
LONG. = 103.5089841'W	rebecca.deal@dvn.com
SECTION CORNER S N = 377867.23 00 LAT. = 32.0361972'N	E-mail Address
LAT. = 32.0361689'N ⁻ LONG. = 103.5175372'W S89 ⁻ 39'24"wE = 796779.49 S89'14'48"W LONG. = 103.5004293'W	
NMSP EAST (FT) 2610.92 FT 2651.48 FT NMSP EAST (FT) TN = 377902.09	ISURVEYOR CERTIFICATION
R = 37/851.35 $E = 799430.33$ $E = 799430.33$	Learshy cartify that the wall location shown on this plat way
541.	Thereby certify that the weat 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 ONE
W/4 CORNER SEC. 9 0 LAT. = 32.0289053 N Z	A PARTICIPACITY AND A PART
LONG. = 103.5175382W SEC 79 LONG. = 103.5004198W	AUGUST 30, 2017 ENAMEL 72
NMSP EAST (FT) N = 375208.95 E IAT = 32.0225664'N E N = 375261.22	Date of Survey
E = 794148.66 + LONG = 103.5 23152 W	121 (1270x)915D
NMSP EAST (7) N = 372915.19	Val Child al
\tilde{N} $\tilde{E} = 795784.80$	A Charles Allenal
LAT. = 32.0216520'N (C) BOTTOM (C) LAT. = 32.0216642'N (C) LAT. = 32.0216642'N (C) LAT. = 32.0216783'N	- ALAST MALLAND
LONG. = 103.5175419'W & OF HOLE LONG. = 103.5089104'W	Signature and Seal of Professional Surveyor;
NMSP EAST (FT) N = 372550.28 P = 1620' - 1620' N = 372595.02 10 N = 372620.35	Certificate Number: FILIMON F JARAMILLO, PLS 12797
E = 796842.57 E = 7996842.57 E = 799475.65	SURVEY NO 4812D
S89:28'12"W12675.65 FT S89:26'56"W 2633.60 FT	30 KTLT 10, 40120











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ACCESS ROAD PLAT ACCESS ROAD FOR FIGHTING OKRA 18-19 FED 2H. 14H. 82H. 83H. 7H & 3H 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 30. 2017 DESCRIPTION A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY: BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST,

N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N46'36'15"E, A DISTANCE OF 943.64 FEET; THENCE N84'21'22"W A DISTANCE OF 50.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE N39'21'22"W A DISTANCE OF 50.00 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; THENCE NO0'00'02"W A DISTANCE OF 116.55 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHWEST CORNER OF SAID SECTION 18, TOWNSHIP 26 SOUTH, RANGE 34 EAST, N.M.P.M. BEARS N76'07'21"W, A DISTANCE OF 1942.92 FEET;

SAID STRIP OF LAND BEING 216.55 FEET OR 13.12 RODS IN LENGTH, CONTAINING 0.149 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 216.55 L.F. 13.12 RODS 0.149 ACRES

SURVEYOR CERTIFICATE

I, FILIMON 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 SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS COAY OF AUGUST 2017 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 FILMON F. JARAMILO PLS. 12791 SURVEY NO. 4812D INC. (575) 234-3341 CARLSBAD, MADRON SURVEYING, NEW MEXICO

CENERAL 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: 2-2

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Prod Co
LEASE NO.:	NM114992
WELL NAME & NO.:	Fighting Okra 18-19 Fed 14H
SURFACE HOLE FOOTAGE:	330'/N & 1695'/W
BOTTOM HOLE FOOTAGE	330'/S & 1620'/W, sec. 19
LOCATION:	Sec. 18, T. 26 S, R. 34 E
COUNTY:	Lea County

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

I. DRILLING OPERATIONS REQUIREMENTS

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

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

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. 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 Onshore Order 6 requirements, which includes equipment and personnel/public

protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

- 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

II. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware. Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

- A. The 13-3/8 inch surface casing shall be set at approximately 900 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 1. 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.
 - 2. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - 3. 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.
 - 4. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

- B. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

C. 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.
- D. 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.

III. PRESSURE CONTROL

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- B. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- C. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. 10M 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.
 - 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. Operator shall perform the 9-5/8" and 5 1/2" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.
 - 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.

- D. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - 1. 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 when specified), 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).
 - 2. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - 3. 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.
 - 4. The results of the test shall be reported to the appropriate BLM office.
 - 5. 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.
 - 6. 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.
 - 7. 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 Onshore Order No. 2.

IV. 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.

V. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

VI. 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.

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

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