Form 3160-5 (June 2015) B SUNDRY Do not use th abandoned we	UNITED STATES EPARTMENT OF THE IN UREAU OF LAND MANAC NOTICES AND REPOR is form for proposals to o II. Use form 3160-3 (APD TRIPLICATE - Other Instr	ITERIOR GEMENT RTS ON WE drill or to re- o) for such p	HOBES enter arc B roposats:	2020 EINED	OMB N Expires: Ja	APPROVED O. 1004-0137 muary 31, 2018
SUBMIT IN	TRIPLICATE - Other instr	ructions on	page 2 RE	<u>ب</u>	7. If Unit or CA/Agre	ement, Name and/or No
1. Type of Well 50 Oil Well D Gas Well D Oth	her				8. Well Name and No. PURRITO 18 FEI	
2. Name of Operator DEVON ENERGY PRODUCT	Contact:	JENNIFER H ms@dvn.com	ARMS		9. API Well No. 30-025-46249-0	0 <b>0-</b> X1
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 7310	IUE 2	3b. Phone No Ph: 405-55	(include area code) 2-6560		10. Field and Pool or WOLFCAMP	Exploratory Area
4. Location of Well (Footage, Sec., 1					11. County or Parish,	State
Sec 18 T23S R32E NENE 71 32.311562 N Lat, 103.709091	FNL 1196FEL			:	LEA COUNTY,	
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OT	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent		Dee:		-	ion (Start/Resume)	U Water Shut-Of
Subsequent Report	Alter Casing		raulic Fracturing	C Reclam		□ Well Integrity
,	Casing Repair	-	Construction			Change to Origin
Final Abandonment Notice	Change Plans Convert to Injection	🖸 Plug 🖸 Plug	and Abandon	U lempor	arily Abandon	PD
determined that the site is ready for 1 Devon Energy Production Co. intermediate casing down to 8 Delaware producers. The offs intermediate string deeper wil to increase mud weight as ne better handle any well control contingency plan based on fir	. L.P. (Devon) respectfully 9900' due to the close prox et wells have perforations I allow for us to case off po cessary for well conditions issues that may arise whil	imity of deple varying from ptential loss a in the produ	etion from multip 6,500' to 8,800' cones. This will a ction hole, allow	le active . Setting ou Illow us ing us to	r	
Please see attachments.	·		Ca	rlsha	d Field (	<b>)ffice</b>
				-	rator Coj	
14. 1 hereby certify that the foregoing is	s true and correct. Electronic Submission #4 For DEVON ENERG nmitted to AFMSS for proce	Y PRODUCT	ON COMPAN, se	nt to the Hoł	obs	
	R HARMS				MPLIANCE ANALY	ST
Signature (Electronic	Submission)		Date 11/12/2			
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE	
Approved By LONG VO Conditions of approval, if any, are attached certify that the applicant holds legal or eq which would entitle the applicant to condu	uitable title to those rights in the		TitlePETROLE	UM ENGIN	EER	Date 12/04/
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a c statements or representations as	crime for any pe to any matter w	rson knowingly and ithin its jurisdiction.	willfully to m	ake to any department of	agency of the United
(Instructions on page 2)	ISED ** BLM REVISED		****		O ** BLM REVISE	D** /

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### 1. Geologic Formations

TVD of target	10720	Pilot hole depth	N/A
MD at TD:	15735	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	954		
Salado	1309		
Base of Salt	4589		
Delaware	4619		
L Brushy Canyon	8214		
Bone Spring	8574		
Leonard 'A'	8664		
Leonard 'B'	9174		
Leonard 'C'	9384		
1st BSPG Sand	9624		
2nd BSPG Sand	10254		
L 2nd BSPG Sand	10699		
Landing Point	10720	·	
EOL	10694		
·		1 1	

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

1 Drilling Plan Devon - Internal

#### 2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.
1016 5126	From	To	Csg. Size	(PPF)	Graue	C0111.
17.5"	0	979 100	13.375"	48	H-40	STC
12.25"	0	8900	9.625"	40	J-55	BTC
8.75"	0	TD	5.5"	17	P-110	BTC
В	LM Minimu	m Safety Facto	or	Collapse: 1.125	Burst: 1.00	Tension: 1.6 Dry 1.8 Wet

• 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

• Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.

• Variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing. No losses are expected in subsequent hole section.

• Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be revised accordingly if needed.

• A variance is requested to wave the centralizer requirement for the intermediate and production casing strings if drilling conditions dictate

2 Drilling Plan Devon - Internat

	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 <sup>rd</sup> 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 <sup>nd</sup> 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?	1
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Casing	# Sks	тос	Wt. (lb/gal)	H10 (gal/sk)	Yld (ft3/sack)	Slurry Description
Surface	1022	Surf	13.2	6.33	1.33	Lead: Class C Cement + additives
•	2034	Surf	9	20.6	1.94	Lead: Class C Cement + additives
Int	196	500' above shoe	13.2	6.42	1.33	Tail: Class H / C + additives
Production	260	500' tieback	9	20.6	1.94	Lead: Class H / C + additives
Production	972	КОР	13.2	5.31	1.6	Tail: Class H / C + additives

### 3. Cementing Program (3-String Primary Design)

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	100%
Intermediate	50%
Production	10%

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:
			An	nular	x	50% of rated working pressure
Int 1	13-5/8"	3M	Blin	d Ram		
IIII I	13-3/8	5111	Pip	Pipe Ram		3M
	1		Dout	ole Ram	X	5101
			Other*			
				nular	x	50% of rated working
			Annular Blind Ram		pressure	
Production	13-5/8"	5M		e Ram		
				ole Ram	X	5M
			Other *			·
			Ar	nular		
			Blin	d Ram		
			Pip	e Ram		
			Doul	ole Ram		
			Other *			

4. Pressure Control Equipment

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#### 5. Mud Program

6. Depth	Depth	Τ	Weight	¥7±_	Water Loss
From	To	Туре	(ppg)	(ppg) Vis	
0	979 1005	FW	8.5 - 9.0	28-34	N/C
979	8900	Brine	10-10.5	28-34	N/C
8900	TD	WBM	8.5 - 9.0	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 l	 PVT/Pason/Visual Monitoring
What wall be used to monitor the l	L DV/T/Docom/Viewal Monitoring
W DAL WILL DE USED TO THOUTOUT DE L	

### 6. Logging and Testing Procedures

Logg	ing, Coring and Testing.
X	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run
	will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Addi	tional logs planned	Interval	
	Resistivity		_
	Density		
X	CBL	Production casing	
Х	Mud log	KOP to TD	
	1		

#### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5017 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is<br/>detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore<br/>Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be<br/>provided to the BLM.NH2S is present

Y H2S Plan attached

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#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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