Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

5. Lease Serial No.

SUNDRY	NOTICES AND REPO	RTS ON WELLS ジロじら drill or to re-enter an	9 OCH	NMNM86151	
abandoned wel	I. Use form 3160-3 (API	O) for such proposals		6. If Indian, Allottee o	r Tribe Name
SUBMIT IN 1	RIPLICATE - Other inst	ructions on page 2.	1020	7. If Unit or CA/Agree	ment, Name and/or No.
1. Type of Well Gas Well Oth		- EN	ED	8. Well Name and No. PURRITO 18 FED	COM 214H
Name of Operator DEVON ENERGY PRODUCT	Contact: ION CONTRACTI: jennifer.har	JENNIFER HARMS ms@dvn.∞m		9. API Well No. 30-025-46250-0	0-X1
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 73102		3b. Phone No. (include area code) Ph: 405-552-6560		10. Field and Pool or I WOLFCAMP	Exploratory Area
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description,			11. County or Parish,	State
Sec 18 T23S R32E NENE 71F 32.311562 N Lat, 103.708992				LEA COUNTY,	NM
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICATE NATURE O	F NOTICE,	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION		ТҮРЕ ОГ	ACTION		
Notice of Intent	☐ Acidize	□ Deepen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	Casing Repair	■ New Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	Change Plans	☐ Plug and Abandon	□ Temporarily Abandon		Change to Original A
	Convert to Injection	□ Plug Back	☐ Water D	Disposal	
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fi Devon Energy Production Co. intermediate casing down to 8 Delaware producers. The offss	ally or recomplete horizontally, k will be performed or provide operations. If the operation resonandomment Notices must be file and inspection. L.P. (Devon) respectfully 900' due to the close pro-	give subsurface locations and measurine Bond No. on file with BLM/BIA sults in a multiple completion or record only after all requirements, including requests to have the option of the subsurface of the subsurf	red and true ve a. Required sul- impletion in a re- ling reclamation to move le active	rtical depths of all pertin sequent reports must be new interval, a Form 316 n, have been completed a	ent markers and zones. filed within 30 days 0-4 must be filed once

intermediate string deeper will allow for us to case off potential loss zones. This will allow us to increase mud weight as necessary for well conditions in the production hole, allowing us to better handle any well control issues that may arise while drilling the lateral. This is a contingency plan based on final drilling results. Please see attachments.

Carlsbad Field Office Operator Copy

14. I hereby certify that	the foregoing is true and correct. Electronic Submission #492042 verifie For DEVON ENERGY PRODUCT Committed to AFMSS for processing by PRI	DN COI	MPAN, sent to the Hobbs	
Name (Printed/Typed) JENNIFER HARMS	Title	REGULATORY COMPLIANCE ANAL	YST
Signature	(Electronic Submission) THIS SPACE FOR FEDERA	Date	11/12/2019 STATE OFFICE USE	
Approved By LONG	YO	TitleF	PETROLEUM ENGINEER	Date 12/04/2019
certify that the applicant h	any, are attached. Approval of this notice does not warrant or olds legal or equitable title to those rights in the subject lease plicant to conduct operations thereon.	Office	€ Hobbs	
Title 18 U.S.C. Section 10	01 and Title 43 U.S.C. Section 1212, make it a crime for any pe	rson kno	owingly and willfully to make to any department	or agency of the United

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED



1. Geologic Formations

TVD of target	10720	Pilot hole depth	N/A
MD at TD:	15710	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		
<u></u>			

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

5. Mud Program

6. Depth		T	Weight	77.	
From	To	Туре	(ppg)	Vis	Water Loss
0	979 1006	FW	8.5 – 9.0	28-34	N/C
979 1006	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 loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.			
X	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	
\mathbf{X}	CBL	Production casing
X	Mud log	KOP to TD

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 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.

	prov	ided to the BLM.
į	N	H2S is present
į	Y	H2S Plan attached

2. Casing Program

Hole Size	Casing	Interval	Con Sine Weight Conds	Weight Grade	C	
Hole Size	From	To	Csg. Size	(PPF)	Grade	Conn.
17.5"	0	9791006	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

	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 rd 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 (3-String Primary Design)

Casing	# Sks	тос	Wt. (lb/gal)	H,0 (gal/sk)	Yld (ft3/sack)	Slurry Description
Surface	1022	Surf	13.2	6.33	1.33	Lead: Class C Cement + additives
Int	2034	Surf	9	20.6	1.94	Lead: Class C Cement + additives
	196	500' above shoe	13.2	6.42	1.33	Tail: Class H / C + additives
Production	255	500' tieback	9	20.6	1.94	Lead: Class H / C + additives
	972	КОР	13.2	5.31	1.6	Tail: Class H / C + additives

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%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:
	13-5/8"	3M	Annular		x	50% of rated working pressure
Int 1			Blind Ram			3M
mi i			Pipe Ram			
			Double Ram		X	
			Other*			
			Annular		х	50% of rated working pressure
			Blind Ram			
Production	13-5/8"	5M	Pipe Ram			
			Double Ram		X	5M
			Other *			
			Annular			
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other			
	1		*		1	

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.

Atta	chm	ents
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x Directional Plan Other, describe