Form 3160-5 (June 2015)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Expires: January

5. Lease Serial No.
NMNM114988

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

phandoned well. Use form 3460-3 (APD) for such proposals

6. If Indian, Allottee or Tribe Name

abandoned wei	or in manny, money or	11100 11111110				
SUBMIT IN 1	7. If Unit or CA/Agree	ment, Name and/or No.				
1. Type of Well				8. Well Name and No. SEAWOLF 1-12 F	ED 82H	
☑ Oil Well ☐ Gas Well ☐ Oth	er			SEAWOLF 1-12 F	ED 03H	
<ol><li>Name of Operator DEVON ENERGY PRODUCT</li></ol>	9. API Well No. 30-025-43764					
3a. Address 333 WEST SHERIDAN AVEN	LIE	3b. Phone No. (include area code) Ph: 405-228-8429		10. Field and Pool or E WC-025 G-09 S		
OKLAHOMA CITY, OK 73102		HOBBS OCE		VVG-023 G-09 G	200000,0 000	
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description	HUDDU		11. County or Parish, State		
Sec 1 T26S R33E NENW 160	FNL 2467FWL	JUL 2 4 2017		LEA COUNTY, NM		
		JOL 2 - 2011				
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDIRATE NATURE OF	F NOTICE,	REPORT, OR OTH	ER DATA	
TYPE OF SUBMISSION		TYPE OF	ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off	
_	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclama	ition	■ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	■ New Construction	☐ Recomp	lete	Other	
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Tempora	arily Abandon	Change to Original A PD	
	☐ Convert to Injection	☐ Plug Back	☐ Water D	isposal		
13. Describe Proposed or Completed Ope	eration: Clearly state all pertine	nt details, including estimated starting	g date of any pr	roposed work and approx	timate duration thereof.	

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

Devon Energy respectfully requests the following changes to the original APD:

- ? Casing change from a 17.5? hole with 13 3/8? casing to a 14.75? hole with 10.75? casing.
- ? Utilize a spudder rig to pre-set surface casing.

Please see attached drilling plan and description of spudder rig operations.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the	ne foregoing is true and correct.  Electronic Submission #379562 verifie  For DEVON ENERGY PRODUCTI  Committed to AFMSS for processing by	ON COM	IPAN,	sent t	to the Hob	bs			
Name (Printed/Typed)	REBECCA DEAL	Title	REC	SULAT	ORY CO	MPLIAN	NCE PROF	ESSI	
Signature	(Electronic Submission)	Date	06/2	2/201	ADI	000	VED		
	THIS SPACE FOR FEDERA							1	
Approved By	PETROLEUM ENGINEER	Title	Teu	ngku	Muchli	s Krue	2017		Date
Conditions of approval, if ar certify that the applicant hol which would entitle the appl	Office			UDEALL OF	LAND	MANAGEM	ENT		
Title 18 U.S.C. Section 100	1 and Title 43 U.S.C. Section 1212, make it a crime for any pe	rson kno	wingly	and wil					of the United

(Instructions on page 2)

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



## Devon Energy Prod. Co., L.P./ Seawolf 1-12 Fed 83H

#### 2. Casing Program

Hole Size	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF
	From	То	Size	(lbs)			Collapse	Bur st	Tension
14.75"	0	1,000'	10.75"	40.5	J-55	STC	1.125	1.25	1.6
8.75"	0	11,950'	7.625"	29.7	P110	Flushmax III	1.125	1.25	1.6
6.75"	0	22,500'	5.5"	20	P110	SF/Flush	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

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

A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole and the 5-1/2" SF/Flush casing in the 6-3/4" hole.

1. Cementing Program

. Cementing Program												
Casing	# Sks	Wt. lb/ gal	H <sub>2</sub> 0 gal/sk	Yld ft3/ sack	Slurry Description							
10-3/4" Surface	623	14.8	6.34	1.34	Tail: Class C Cement + 1% Calcium Chloride							
11	368	9	13.5	3.27	Lead: Tuned Light® Cement							
7-5/8" Int	445	14.5	5.31	1.2	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							
	122	10.9	20.6	3.31	1 <sup>st</sup> Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000							
7-5/8" Int	445	14.5	5.31	1.2	1 <sup>st</sup> Stage 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							
Two												
Stage	225	10.9	20.6	3.31	2 <sup>nd</sup> Stage Lead: (50:40:10) Class C: Silicalite: Enhancer 923 + 10% BWOC Bentonite + 0.05% BWOC SA-1015 + 0.3% BWOC HR-800 + 0.2% BWOC FE-2 + 0.125 lb/sk Pol-E-Flake + 0.5 lb/sk D-Air 5000							
	30	14.8	6.32	1.33	2 <sup>nd</sup> Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake							
5-1/2" Inter.	846	14.8	6.32	1.33	ail: Class C Cement + 0.125 lbs/sack Poly-E-Flake							

#### Devon Energy Prod. Co., L.P./ Seawolf 1-12 Fed 83H

If a DV tool is used, 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
10-3/4" Surface	0'	50%
7-5/8" Intermediate	0'	30%
7-5/8" Intermediate Two Stage Option	1 <sup>St</sup> Stage = 4900' / 2 <sup>nd</sup> Stage = 0'	30%
5-1/2" Production Casing	11,750'	25%

#### 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, 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 14 ¾" 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 10 ¾" 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.

### All previous COA still apply except the following:

The 10 3/4 inch surface casing shall be set at approximately 1000 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

103/4	surface	csg in a	14 3/4	inch hole.		Design I	actors	SUR	FACE
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.50	J	55	ST&C	10.37	3.58	0.59	1,000	40,500
"B"				A Section				0	0
w/8.4#/g	mud, 30min Sf	c Csg Test psig	: 1,500	Tail Cmt	does	circ to sfc.	Totals:	1,000	40,500
omparison of	of Proposed t	o Minimum	Required Co	ement Volume	S				
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cpl
14 3/4	0.5563	623	835	582	43	8.50	2797	3M	1.50

95/8	casing in	side the	103/4	_		Design I	Factors	INTERI	MEDIATE
Segment	#/ft	Grade		Coupling	<b>Joint</b>	Collapse	Burst	Length	Weight
"A"	43.50	P	110	BUTT	2.58	1.2	1.25	11,300	491,550
"B"								0	0
w/8.4#/g	mud, 30min Sfo	Csg Test psig:					Totals:	11,300	491,550
The co	ement volum	e(s) are inte	nded to ach	ieve a top of	0	ft from su	rface or a	1000	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	2170	4435	3290	35	9.00	4428	5M	1.31
Class 'H' tail cm	nt yld > 1.20								
*Assumed 1/3	fluid filled for	collapse cald	culation						

5 1/2 casing inside the				95/8		- 1900 A 1990 A 1990	Design Fa	PRODUCTION		
	Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	Weight
ļ	"A"	20.00	P	110	BUTT	2.54	1.6	1.76	12,083	241,660
1	"B"	20.00	Р	110	BUTT	8.05	1.43	1.76	10,351	207,020
-	w/8.4#/	g mud, 30min Sfo	Csg Test psig	2,658				Totals:	22,434	448,680
1	В	would be:				62.00	1.54	if it were a	vertical we	ellbore.
1	No D	ilot Hole Plar	anad	MTD	Max VTD	Csg VD	Curve KOP	Doglego	Severityo	MEOC
1	NOF	liot riole rial	illeu	22434	12600	12600	12083	90	10	12985
F	The	cement volum	e(s) are inte	ended to ach	ieve a top of	11100	ft from s	urface or a	200	overlap.
-	Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
1	Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
1	8 3/4	0.2526	2491	3149	2868	10	11.00			1.35
1										
ſ										

Carlsbad Field Office 7/13/2017