Form 3160-5 (June 2015)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Hobbs

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

_	Expires, Janua
	Lease Serial No.
	NMNM114988

	NOTICES AND REPO				NMNM114988	
Do not use thi abandoned wel	s form for proposals to I. Use form 3160-3 (API	drill or to re D) for such p	enter an proposals.	0	6. If Indian, Allottee or	Tribe Name
SUBMIT IN 1	RIPLICATE - Other inst	tructions on	page 2		7. If Unit or CA/Agreen	nent, Name and/or No.
Type of Well	er				8. Well Name and No. SEAWOLF 1-12 FE	ED 86H
Name of Operator     DEVON ENERGY PRODUCT	Contact:	REBECCA Deal@dvn.com	EAL		9. API Well No. 30-025-43767	
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 73102		Ph: 405-22	. (include area code) 8-8429		10. Field and Pool or Ex WC-025 G-09 S2	xploratory Area 53336D;U WC
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description,	)	COCOCO	D	11. County or Parish, St	tate
Sec 1 T26S R33E NENE 200F	NL 750FEL /	J	UL 24 2017		LEA COUNTY, N	IM
12. CHECK THE AP	PROPRIATE BOX(ES)	TO INDICA	GEIVED	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	☐ Acidize	☐ Dee	pen	□ Product	tion (Start/Resume)	■ Water Shut-Off
_	Subsequent Report				ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ Nev	v Construction	☐ Recomp	olete	Other Change to Original A
☐ Final Abandonment Notice	☐ Change Plans		g and Abandon		rarily Abandon	PD
	☐ Convert to Injection	☐ Plu	g Back	□ Water I	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 Ab determined that the site is ready for fi	illy or recomplete horizontally, k will be performed or provide operations. If the operation re andonment Notices must be fil nal inspection.	give subsurface the Bond No. o sults in a multip led only after all	locations and measur in file with BLM/BIA. le completion or recor requirements, includi	red and true ve Required su impletion in a	ertical depths of all pertine bsequent reports must be f new interval, a Form 3160	nt markers and zones. iled within 30 days -4 must be filed once
? Casing change from a 17.5	? hole with 13 3/8? casing	g to a 14.75?	hole with 10.75?	casing.		
? Utilize a spudder rig to pre-s	JUL 1 1  BUREAU OF LAND MA	2017	rations.		TTACHED FOR TIONS OF API	
14. I hereby certify that the foregoing is	true and correct SBAD FIELD Electronic Submission #	OFFICE	d by the BLM Well	Information	n System	
	For DEVON ENERG Committed to AFMSS for p	SY PRODUCTI	ON COMPAN, ser	nt to the Hol	obs	
Name (Printed/Typed) REBECCA	The same of the sa	processing by			MPLIANCE PROFES	SSI
Signature (Electronic S	ubmission)		Date 06/22/20	017	ADDR	
	THIS SPACE FO	OR FEDERA	L OR STATE	PACEL	SHED FOR RE	CORD
Approved By	ingku Muchlis Kruer	ng	Title PE	TROLEU	W ENGINEER	Date
Conditions of approval, if any, are attached ertify that the applicant holds legal or equivalent would entitle the applicant to condu	itable title to those rights in the ct operations thereon.	e subject lease	Office	BU		4
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s					ake to any department of a ARLSBAD FIELD OFFIC	

(Instructions on page 2)

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



### Devon Energy Prod. Co., L.P./ Seawolf 1-12 Fed 86H

#### 2. Casing Program

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	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	12,050'	7.625"	29.7	P110	Flushmax III	1.125	1.25	1.6
6.75"	0	22,554'	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

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Casing	# Sks	Wt. lb/ gal	H₂0 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			
	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	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake			

#### Devon Energy Prod. Co., L.P./ Seawolf 1-12 Fed 86H

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	11,850′	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.
- 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.
- 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.

## 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.

Sfc Csg Test psi d to Minimum 1 Stage Cmt Sx 623 Segment(s) A inside the Grade	1 Stage CuFt Cmt 835 , B = 3.13, b 10 3/4	Coupling ST&C  Tail Cmt ement Volume Min Cu Ft 582  All > 0.70,  Coupling BUTT	Joint 10.37 does ss 1 Stage % Excess 43 Joint 2.78	Collapse 3.58  circ to sfc.  Drilling Mud Wt 8.50  Design F Collapse 1.19	Burst 0.59  Totals: Calc MASP 2822  Factors Burst 1.24	Length 1,000 0 1,000 Req'd BOPE 3M	Weight 40,500 0 40,500 Min Dist Hole-Cplg 1.50  MEDIATE Weight
Sfc Csg Test psid to Minimum  1 Stage Cmt Sx 623  Segment(s) A  inside the Grade	3: 1,500 Required Co 1 Stage CuFt Cmt 835 , B = 3.13, b 10 3/4	Tail Cmt ement Volume Min Cu Ft 582 All > 0.70,	does 1 Stage % Excess 43	Drilling Mud Wt 8.50  Design F Collapse	Totals:  Calc MASP 2822  Factors Burst	0 1,000 Req'd BOPE 3M	0 40,500 Min Dist Hole-Cplg 1.50 MEDIATE Weight
1 Stage Cmt Sx 623 Segment(s) A inside the Grade	1 Stage CuFt Cmt 835 , B = 3.13, b 10 3/4	Min Cu Ft 582 All > 0.70, Coupling	1 Stage % Excess 43	Drilling Mud Wt 8.50 Design F	Calc MASP 2822	1,000  Req'd BOPE 3M	40,500 Min Dist Hole-Cplg 1.50
1 Stage Cmt Sx 623 Segment(s) A inside the Grade	1 Stage CuFt Cmt 835 , B = 3.13, b 10 3/4	Min Cu Ft 582 All > 0.70, Coupling	1 Stage % Excess 43	Drilling Mud Wt 8.50 Design F	Calc MASP 2822	Req'd BOPE 3M	Min Dist Hole-Cplg 1.50
1 Stage Cmt Sx 623 Segment(s) A inside the Grade	1 Stage CuFt Cmt 835 , B = 3.13, b 10 3/4	Min Cu Ft 582 All > 0.70,	1 Stage % Excess 43	Mud Wt 8.50 Design F Collapse	MASP 2822 Factors Burst	BOPE 3M	Hole-Cplg 1.50 MEDIATE Weight
Cmt Sx 623 Segment(s) A inside the Grade	CuFt Cmt 835 , B = 3.13, b 10 3/4	Cu Ft 582 All > 0.70, Coupling	% Excess 43	Mud Wt 8.50 Design F Collapse	MASP 2822 Factors Burst	BOPE 3M	Hole-Cplg 1.50 MEDIATE Weight
623 Segment(s) A inside the Grade	835 , B = 3.13, b 10 3/4 P 110	582 All > 0.70, Coupling	43 Joint	8.50  Design F Collapse	2822 Factors Burst	3M INTERN	1.50 MEDIATE Weight
inside the Grade	10 3/4 P 110	Coupling		Collapse	Burst	Length	Weight
inside the Grade	10 3/4 P 110	Coupling		Collapse	Burst	Length	Weight
Grade	P 110			Collapse	Burst	Length	Weight
Grade	P 110			Collapse	Burst	_	_
		BUTT	2.78	1.19	1.24	11 400	_
Sfc Csg Test psi	g:					11,700	456,000
Sfc Csg Test psi	g:					0	0
					Totals:	11,400	456,000
ime(s) are inf	ended to acl	nieve a top of	0	ft from su	rface or a	1000	overlap.
1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd	Min Dist
Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
2190	4481	#N/A	#N/A	9.00	4466	5M	1.31
)							
or collapse ca	Iculation						
20 7 200 7 200	o sense se sense se sense	A 200 1 Aug A 100	A Maria de Aprilo de Aria		N AND N AND 1 AND	CO 10 2000 20 2000 2	1 2000 2 2000 2 200
inside the	9 5/8	_		Design Fac	ctors	PROD	UCTION
Grade		Coupling	Body	Collapse	Burst	Length	Weight
J	P 110	BUTT	2.52	1.58	1.74	12,250	245,000
	P 110	BUTT	6.94	1.39	1.74	10,304	206,080
Sfc Csg Test psi	g: 2,695				Totals:	22,554	451,080
e:			69.84	1.53	if it were a	vertical we	ellbore.
	MTD	Max VTD	Csg VD	Curve KOP	Dogleg <sup>o</sup>	Severityo	MEOC
anned	22554	12709	12709	12250	90	12	13001
anned	ended to acl	nieve a top of	11200	ft from su	rface or a	200	overlap.
		Min	1 Stage	Drilling	Calc	Req'd	Min Dist
ıme(s) are int 1 Stage	1 Stage		% Excess	Mud Wt	MASP	BOPE	Hole-Cpl
ume(s) are int 1 Stage Cmt Sx	1 Stage		/ U II/ U U U U	The state of the state of			1.35
		1 /	1 Stage 1 Stage Min	1 Stage 1 Stage Min 1 Stage Cmt Sx CuFt Cmt Cu Ft % Excess	1 Stage 1 Stage Min 1 Stage Drilling Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt	1 Stage 1 Stage Min 1 Stage Drilling Calc Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP	1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd