Form 3160-5 (June 2015) DI B	Hobbs	FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. NIMNIMI 1008					
Do not use th	NOTICES AND REPO is form for proposals to II. Use form 3160-3 (API	drill or to r	e-enter an		NMNM114988 6. If Indian, Allottee of	Tribe Name	
SUBMIT IN	TRIPLICATE - Other inst	tructions or	n page 2	ango any kanang kana	7. If Unit or CA/Agree	ment, Name and/or No.	
1. Type of Well ☑ Oil Well □ Gas Well □ Ot	her				8. Well Name and No. SEAWOLF 1-12 F	ED 102H 7	
2. Name of Operator DEVON ENERGY PRODUCT	Contact: FION CONTRAN: Rebecca.D	REBECCA Deal@dvn.com	DEAL		9. API Well No. 30-025-43791		
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 7310		3b. Phone Phi: 405-2	CABBS O	CD	10. Field and Pool or E WC-025 G-09 S		
4. Location of Well (Footage, Sec., 7	T., R., M., or Survey Description	JUL 2 4 2017			11. County or Parish, State		
Sec 1 T26S R33E NWNW 20	0FNL 420FWL		RECEIVE	-n	LEA COUNTY, I	NM	
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDIC			REPORT. OR OTH	ER DATA	
TYPE OF SUBMISSION			TYPE OF		,		
Notice of Intent	Acidize	De	epen	Product	tion (Start/Resume)	UWater Shut-Off	
	□ Alter Casing	🗖 Hy	draulic Fracturing	🗖 Reclam	ation	U Well Integrity	
Subsequent Report	Casing Repair	🗆 Ne	w Construction	Recom	plete	Other	
Final Abandonment Notice	 Change Plans Convert to Injection 	Plug and Abandon Plug Back		 Temporarily Abandon Water Disposal 		Change to Original A PD	
testing has been completed. Final A determined that the site is ready for f Devon Energy respectfully rea ? Casing change from a 17.5 ? Utilize a spudder rig to pre- Please see attached drilling p	final inspection. quests the following chang i? hole with 13 3/8? casing set surface casing./FD	ges to the or g to a 14.75	iginal APD: ? hole with 10.75? erations.	casing.			
В	JUL 1 1 2017	VENT	S C	EE ATT ONDIT	ACHED FOR Ions of Appe	ROVAL	
14. I hereby certify that the foregoing is	Electronic Submission # For DEVON ENERG	379557 verifi	ed by the BLM Well	Informatio	n System		
Name (Printed/Typed) REBECC	Committed to AFMSS for	processing b	DEBORAH MCKI	NNEY on 06	/30/2017 () MPLIANCE PROFE	SSI	
Signature (Electronic	Submission)		Date 06/22/20	17			
	THIS SPACE FO	OR FEDER	AL OR STATE (FFICEU	SEPPIPIC RE	GORD	
Approved By	oungku Muchlis Krue	ng	P	ETROLEU	MENGINEER	Date	
Conditions of approval, if any, are attache ertify that the applicant holds legal or equivich would entitle the applicant to condu	uitable title to those rights in the	not warrant or subject lease	Office	RIDEA			
Fitle 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	person knowingly and within its jurisdiction.		ake Bany department of	agency of the United	
States any false, fictitious or fraudulent (Instructions on page 2)	statements or representations as	to any matter	within its jurisdiction.				

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Devon Energy Prod. Co., L.P./ Seawolf 1-12 Fed 102H

2. Casing Program

Hole Casir	g 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	12,433'	7.625"	29.7	P110	Flushmax III	1.125	1.25	1.6
6.75"	0	23,182'	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.

Casing	# Sks	Wt. lb/ gal	H ₂ 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
	368	9	13.5	3.27	Lead: Tuned Light [®] Cement
7-5/8" Int	483	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 st 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	483	14.5	5.31	1.2	1 st 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 nd 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 nd 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

1. Cementing Program

1 Drilling Plan 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 St Stage = 4900' / 2 nd Stage = 0'	30%
5-1/2" Production Casing	12,233′	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.

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103/4	surface	csg in a	14 3/4	inch hole.		Design I	Factors	SUF	FACE
Segment	#/ft	Grade		Coupling Joint		Collapse	Burst	Length Weigh	
"A"	40.50	J	55	ST&C	10.37	3.58	0.59	1,000	40,500
"B"								0	0
w/8.4#/g	mud, 30min Sfo	Csg Test psig:	1,500	Tail Cmt	does	circ to sfc.	Totals:	1,000	40,500
Comparison o	of Proposed t	o Minimum	Required Ce	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-Cplg
14 3/4	0.5563	623	835	582	43	8.50	2797	3M	1.50
Burst Frac Grad	dient(s) for Se	gment(s) A,	B = 3.13, b	All > 0.70,					
#N/A			1948 / 2048 / 2044	10 18041 17 18000 ¥ 14000	5 Mar 4 6839 5 Mar				1. 1.200 N 2.200 N 1990
95/8	casing in:	side the	10 3/4		17 MAR IN JOHN IN JOH	Design I	INTERI	MEDIATE	
Segment			Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	40.00	P	110	BUTT	2.80	1.2	1.19	11,300	452,000
"B"								0	0
w/8.4#/g	mud, 30min Sfc	Csg Test psig:					Totals:	11,300	452,000
The c	ement volum	e(s) are inte	nded to ach	ieve a top of	0	ft from surface or a 1000 over			
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cpl
12 1/4	0.3132	2170	4435	#N/A	#N/A	9.00	4623	5M	1.31
Class 'H' tail cn	nt yld > 1.20						MASP is with	in 10% of 50	00psig, need
Assumed 1/3	fluid filled for	collapse cald	culation						
Tail cmt				a manar a sama a sama					
51/2	casing in	side the	9 5/8		,	Design Fa	ctors	PROD	UCTION
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	Weight
"A"	20.00	Р	110	BUTT	2.44	1.53	1.68	12,634	252,680
"B"	20.00	P	110	BUTT	8.04	1.37	1.68	10,548	210,960
w/8.4#/g	mud, 30min Sfc	: Csg Test psig:	2,779				Totals:	23,182	463,640
B	would be:				61.53	1.47	if it were a	vertical we	ellbore.
			MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity	MEOC
NO PI	ot Hole Plar	nned	23182	13155	13155	12634	90	10	13534
The c	ement volum	e(s) are inte	nded to ach	ieve a top of	11100	ft from su	irface or a	200	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
11010	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cpl
Size	volume	OTHE OK							

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