Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Hobbs HOBBS OCD S. Lease Serial No. NMNM114988

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use the	ie tarm tar prapacale ta	APILL OF TO PO-	antar an				
abandoned we	is form for proposals to II. Use form 3160-3 (API	D) for such p	roposalsUG 2	9 2017	6. If Indian, Allottee o	r Tribe	Name
SUBMIT IN	TRIPLICATE - Other inst	ructions on	pageRECF	IVE	7. If Unit or CA/Agree	ment,	Name and/or No.
Type of Well ☐ Gas Well ☐ Oth				VED	8. Well Name and No. SEAWOLF 1-12 F	ED 83	BH /
Name of Operator DEVON ENERGY PRODUCT	Contact:	REBECCA D eal@dvn.com	EAL		9. API Well No. 30-025-43764-0	0-X1	
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 73102	10. Field and Pool or Exploratory Area WC025G09S253336D-UPPER WC						
4. Location of Well (Footage, Sec., T	11. County or Parish,	State					
Sec 1 T26S R33E NENW 160FNL 2467FWL							
12. CHECK THE AR	PPROPRIATE BOX(ES)	TO INDICA	ΓE NATURE O	F NOTICE,	REPORT, OR OTH	IER I	DATA
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent	☐ Acidize	□ Deep	oen	☐ Product	ion (Start/Resume)	0 7	Water Shut-Off
	☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclam	ation	"	Well Integrity
☐ Subsequent Report	□ Casing Repair	□ New	Construction	☐ Recomp	olete		Other
☐ Final Abandonment Notice	☐ Change Plans	Plug	and Abandon	☐ Tempor	orarily Abandon		ange to Original A
	☐ Convert to Injection	Plug	Back	☐ Water I	Disposal		
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 fine Changes from APD: Intermediate Hole size: 9.875? hole size from 1000? to interval. Intermediate cement job: 3 Options listed 1.) Light weight lead slurry foll 2.) 2 Stage cement job with D' 3.) Intermediate squeeze cont Mud system changed from sat	ally or recomplete horizontally, rk will be performed or provide to operations. If the operation repandoment Notices must be fil inal inspection. o 9200?. 7 5/8? 29.7# BT casing point. 7 5/8? Flus owed by 14.5# tail V tool set above Delawaringency if well goes on futurated brine to OBM/Cut	give subsurface the Bond No. or sults in a multipl ed only after all a C casing will h joint casing e Il losses durin	locations and measu file with BLM/BIA completion or recoverequirements, including the run from surf will be run through the run through through the run through the run through the run through the run throug	red and true ve. Required sulpmpletion in a ring reclamation	ertical depths of all pertin bsequent reports must be new interval, a Form 316 n, have been completed a	one of the control of	rkers and zones. vithin 30 days ust be filed once operator has
Com	#Electronic Submission For DEVON ENERG mitted to AFMSS for proce	Y PRODUCTI	ON COMPAN, se RLES NIMMER o	nt to the Hob n 08/23/2017	obs (17CN0071SE)	.001	
Name (Printed/Typed) REBECCA	ADEAL		Title REGUL	ATORY CO	MPLIANCE PROFE	551	
Signature (Electronic S	Submission)		Date 08/16/2	017			
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE		
			TitlePETROLE	UM ENGIN	EER		Date 08/23/2017
Notice of Intent Subsequent Report							

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly 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.

which would entitle the applicant to conduct operations thereon.

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

Office Hobbs



Additional data for EC transaction #384882 that would not fit on the form

32. Additional remarks, continued

Please see attached revised Drilling Plan.

Devon Energy, Seawolf 1-12 83H

Casing Program

Hole Cas		g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapse	Bur st	Tension
9.875"	0	9200'	7.625"	29.7	P110	BTC	1.125	1.25	1.6
8.75"	9200'	12,946'	7.625"	29.7	P110	Flushmax III	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

A variance is requested to wave the centralizer requirement for the 7-5/8" flush casing in the 8-3/4" hole

Cementing Program

Casing	# Sks	Wt. lb/ gal	H₂0 gal/sk	Yld ft3/ sack	Slurry Description			
	840	9	13.5	3.27	Lead: Tuned Light® Cement			
7-5/8" Int	217	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			
5	10.9 20.6 3.31 10.9 20.6 3.31 10.9 20.6 3.31 10.9 20.6 3.31 10.9 20.6 3.31 3.31 3.31 3.31 3.31 3.31 3.31 3.							
7-5/8" Int	1st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) 232 14.5 5.31 1.2 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite							
Two								
Stage	230	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			
	217	14.8	6.32	1.33	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake			
	1730	14.8	6.32	1.32	Class C Cement + 0.125 lbs/sack Poly-E-Flake			
7-5/8"	295	13.2	6.32	1.46	Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 Ibs/sack Poly-E-Flake			
Squeeze	220	14.4	6.32	1.2	(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			

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.

Devon Energy, Seawolf 1-12 83H

Casing String	TOC	% Excess
7-5/8" Intermediate	0'	30%
7-5/8" Intermediate Two Stage Option	1 St Stage = 4900' / 2 nd Stage = 0'	30%

Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	ype	*	Tested to:
			An	nular	X	50% of rated working pressure
8-3/4"	13-5/8"	5M	Blin	d Ram	X	
8-3/4	13-3/6	31/1	Pipe	Ram	X	5M
			Double Ram		X	31/1
			Other*			
		1	Pipe	Ram	X	
				le Ram	X	
			Other *			
			An	nular		
			Blin	d Ram		
			Pipe	Ram		
				le Ram		
			Other *			

^{*}Specify if additional ram is utilized.

Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss	
From	To					
1000'	12,946'	OBM/Cut Brine	8.6-10	34-65	N/C - 6	

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	PVT/Pason/Visual Monitoring
of fluid?	

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Co, LP

LEASE NO.: NMNM114988

WELL NAME & NO.: 83H-Seawolf 1 12 Fed SURFACE HOLE FOOTAGE: 160'/N & 2467'/W

BOTTOM HOLE FOOTAGE | 330'/S & 2188'/W LOCATION: | Section 1, T.26 S., R.33 E., NMPM

COUNTY: Lea County, New Mexico

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)

b. Setting and/or Cementing of all casing strings (minimum of 4 hours)

c. BOPE tests (minimum of 4 hours)

⊠ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Wolfcamp formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper

copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Risks:

Medium Cave/Karst

Possibility of water flows in the Castile and in the Salado.

Possibility of lost circulation in the Rustler, in the Red Beds and in the Delaware.

- A. The 13 3/8 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.
 - 1. 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.

- 2. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- 3. 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.
- 4. If cement falls back, remedial cementing will be done prior to drilling out that string.
- B. The minimum required fill of cement behind the 9 5/8 inch intermediate casing (in the basal anhydrite of the Castile Formation) is:
 - ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

The intermediate casing shall be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing, which is calculated by BLM standards.

- C. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

Note: All perforations shall be a minimum of 0330 feet FEL.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- B. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the

- **company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- C. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. 10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- D. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - 1. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - 2. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength,

whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- 3. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- 4. The results of the test shall be reported to the appropriate BLM office.
- 5. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- 6. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

CLN 08232017

103/4	surface	csg in a	14 3/4	inch hole.		Design F	actors	SUR	FACE
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	40.50	J	55	ST&C	10.37	3.46	0.48	1,000	40,500
"B"								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 o	of Proposed t	to 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-Cplg
14 3/4	0.5563	623	835	582	43	8.80	3776	5M	1.50

75/8	casing in	side the	10 3/4			Design	Factors	INTER	MEDIATE
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	Weight
"A"	29.70	P	110	BUTT	2.44	1.68	1.45	9,200	273,240
"B"	29.70	- P	110	BUTT	5.06	1.23	1.16	3,746	111,256
w/8.4#/g	mud, 30min Sfo	Csg Test psig	:				Totals:	12,946	384,496
The c	ement volum	e(s) are inte	ended to ach	nieve a top of	0	ft from su	ırface 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
8 3/4	0.1005	1057	3007	1445	108	10.00	5087	10M	0.13
V Tool(s):			4900				sum of sx	Σ CuFt	Σ%excess
by stage %:		60	63				990	2330	61
ssumed 1/3 F	luid Filled for	Collapse Cal	culation				MASP is with	in 10% of 50	00psig, need

Tail cmt									
5 1/2	5 1/2 casing inside the 7 5/8					Design Fa	actors PROD		UCTION
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	20.00	Р	110	LT&C	2.02	1.61	1.83	12,046	240,920
"B"	20.00	Р	110	LT&C	6.33	1.43	1.83	10,552	211,040
w/8.4#/g	g mud, 30min Sfc	Csg Test psig	2,650				Totals:	22,598	451,960
В	would be:				45.21	1.54	if it were a	vertical we	llbore.
No Di	lot Hole Plan	nod	MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severityo	MEOC
NOPI	iot noie Piari	neu	22598	12610	12610	12046	90	10	12946
The	cement volume	(s) are inte	ended to ach	ieve a top of	11740	ft from s	urface or a	1206	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
6 3/4	0.0835	852	1133	924	23	12.00			0.63
Class 'H' tail cr	mt yld > 1.20								j

8/23/2017