* 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

SUNDRY NOTICES AND REPORTS ON WELLS had Field Chines 3994
Do not use this form for proposals to drill or to reserve the contract of the contra

abandoned wel	II. Use form 3160-3 (API	D) for such pi) Hob	5 Indian, Allottee or	Tribe Name
SUBMIT IN 1	TRIPLICATE - Other inst	ructions on p	age 2	BSO	7. If Unit or CA/Agreen	nent, Name and/or No.
Type of Well Gas Well	ner	17.	of Well Haile and No.	ER 6-7 FED COM 211H		
Name of Operator DEVON ENERGY PRODUCT	Contact:	BRITTNEY W eaton@dvn.com	HEATON	2017	9. API Well No. 30-025-44145-00)-X1
3a. Address 333 WEST SHERIDAN AVEN OKLAHOMA CITY, OK 73102		3b. Phone No. Ph: 405-228		IVED	10. Field and Pool or E SAND DUNES	xploratory Area
4. Location of Well (Footage, Sec., T.)			11. County or Parish, S	tate
Sec 6 T23S R32E 535FNL 80 32.339249 N Lat, 103.720367		al .		/	LEA COUNTY, N	IM
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICAT	E NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OI	F ACTION		
Notice of Intent	☐ Acidize	☐ Deep	en	☐ Product	tion (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydr	aulic Fracturing	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	□ Recomp	olete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	☐ Tempor	rarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug	Back	☐ Water I	Disposal	
following completion of the involved testing has been completed. Final At determined that the site is ready for final This sundry is being submitted job. The primary goal will be to and lead slurry. However, a D the first stage is not returned to being adjusted to correctly many adjusted to correctly many and the first stage.	pandonment Notices must be filinal inspection. If to change the cement slop lift a single stage cemer V/Packer combo tool for a o surface. The production that where they are calculated where they are calculated and correct.	ed only after all r lurry densities at job to surface a second stage a cement volur ated to be ins	of the intermed e using a stand will be ran in the nes and cemende of intermedia SEE ATT CONDIT	iate casing ard tail he event that tops are alate casing. CACHE	at so D FOR OF APPROV	nd the operator has
Com	#Electronic Submission For DEVON ENERG nmitted to AFMSS for proce	SY PRODUCTION	N COMPAN, se	nt to the Hol	obs	
Name (Printed/Typed) CHANCE	BLAND		Title AUTHO	RIZED REF	PRESENTATIVE	
Signature (Electronic S	Submission)		Date 12/01/2	017		×
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
_Approved_By_MUSTAFA_HAQUE			TitlePETROLE	UM ENGIN	EER	Date 12/04/2017
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conduction of t	Office Hobbs					
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s				willfully to m	ake to any department or a	igency of the United
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISE	O ** BLM RE	VISED ** BLN	N REVISE	** BLM REVISED)** 0/

This sundry is being submitted to change the cement slurry densities of the intermediate casing job. The primary goal will be to lift a single stage cement job to surface using a standard tail and lead slurry. However, a DV/Packer combo tool for a second stage will be ran in the event that the first stage is not returned to surface.

The production cement volumes and cement tops are also being adjusted to correctly match where they are calculated to be inside of intermediate casing.

1. Geologic Formations

TVD of target	10,226	Pilot hole depth	N/A
MD at TD:	20,144	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	781		
Salado	1,279		
Base of Salt	4,591		
Delaware	4,600		
Bell Canyon	4,699		
Cherry Canyon	5,474		
Brushy Canyon	6,720		,4
1 st Bone Spring Lime	8,430		
1st Bone Spring Sand	9,539		
2 nd Bone Spring Lime	9,850		
2 nd Bone Spring Sand Upper	10,135		
	-		

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

2. Casing Program

Hole	Casin	g Interval	Csg.	Csg. Weight	Weight Grade Conn. (lbs)	SF	SF	SF	
Size	From	То	Size	(lbs)			Collapse	Burst	Tension
17.5"	0	806	13.375"	48	H40	BTC	1.4	3.15	14.27
12.25"	0	6000	9.625"	40	J55	BTC	1.15	1.77	4.1
8.75"	0	20191	5.5"	17	P110	BTC	1.45	2.07	2.48
				BLM Min	imum Safe	ty Factor	1.125	1	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

3. Cementing Program

THE RESERVE OF THE PERSON NAMED IN	stage #	# Sks	Wt. lb/	Yld ft3/	HO	500#	Change Description
Casing	Stage #	# SKS	gal	sack	H ₂ 0 gal/sk	Comp. Strength (hours)	Slurry Description
Surf.	1	627	14.8	1.33	6.32	6	Lead: Class C Cement + 0.125 lbs/sack Poly-F-Flake
Inter.	1	614	10.3	3.65	22.06	24	Lead: (50:50) Poz (Silica) 3 lbm/sk Kol-Seal, .125 lbm/sk Poly-E-Flake
	1	153	14.8	1.33	6.32	6	Tail: Class C Cement + 0.125 lbs/sack Poly-F-Flake
	2	697.	12.9	1.87	10.12	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake
	. 2	92	14.8	1.33	6.32	6	Tail: Class C Cement + 0.125 lbs/sack Poly-F-Flake
Prod.	1	490	9	3.27	13.5	21	Lead: Tuned Light Cement
	1	2412	14.5	1.2	5.31	25	Tail: (50:50) Clas H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD- 344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

DV tool 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. Cement volumes in the table above are calculated with an estimated DV tool MD of 3,500°.

Casing String	TOC	% Excess
13-3/8" Surface	0'	50%
9-5/8" Intermediate	0'	30%
5-1/2" Production	5,000'	25%

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	956	FW Gel	8.6-8.8	28-34	N/C
956	6,000	Saturated Brine	10.0-11.0	28-34	N/C
6,000	20,144	Cut Brine	8.5-9.3	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	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.					
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					

Add	itional logs planned	Interval		
	Resistivity	Int. shoe to KOP		
	Density	Int. shoe to KOP		
X	CBL	Production casing		
X	Mud log	KOP to TD		

PEX	
PEA	

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Devon Energy Production Company, L.P.

LEASE NO.: | NMNM63994

WELL NAME & NO.: | Boundary Raider 6-7 Fed Com 211H

SURFACE HOLE FOOTAGE: 535'/N & 800'/W BOTTOM HOLE FOOTAGE 290'/S & 750'/W

LOCATION: | Section 6, T.23 S., R.32 E., NMPM

COUNTY: Lea County, New Mexico

All previous COAs still apply, except for the following:

A. 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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

1. The minimum required fill of cement behind the 9 5/8 inch intermediate casing is:

Operator has proposed a DV tool. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- □ Cement to circulate. If cement does not circulate, contact the appropriate
 □ BLM office before proceeding with second stage cement job. Operator should
 □ have plans as to how they will achieve circulation or approved top of cement
 □ on the next stage.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate to the surface:
- a. 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 remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- c. If cement falls back, remedial cementing will be done prior to drilling out that string.

MHH120042017