

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 25 2019

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM0405444

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

8. Well Name and No.
MALDIVES 15-27 FED COM 232H

9. API Well No.
30-015-45384-00-X1

10. Field and Pool or Exploratory Area
JAMES RANCH

11. County or Parish, State
EDDY COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY
Contact: JENNIFER HARMS
E-Mail: jennifer.harms@dvn.com

3a. Address
333 WEST SHERIDAN AVENUE
OKLAHOMA, OK 73102

3b. Phone No. (include area code)
Ph: 405-552-6560

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 15 T23S R31E NWNW 400FNL 810FWL
32.310638 N Lat, 103.772484 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 Production Co., L. P. (Devon) respectfully requests to have the option to move intermediate casing down to 8250' due to the close proximity of depletion from multiple active Delaware producers. The offset wells have perforations varying from 6,688' to 8,200'. Setting our intermediate string deeper will allow for us to case off potential loss zones. This will allow us to increase mud weight as necessary for well conditions in the production hole, allowing us to better handle any well control issues that may arise while drilling the lateral. This is a contingency plan based on final drilling results.

Drilling also requests the option to change the intermediate hole size to 9.875', intermediate casing size to 8-5/8", production hole size to 7-7/8", and production casing to remain the same at 5-1/2". The intermediate hole size change will allow Devon to more effectively drill the hole section on losses by decreasing the volume of rock remove and increasing annular hole velocity,

Carlsbad Field Office
OCD Artesia

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #461238 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION COM LP, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 04/15/2019 (19PP1666SE)**

Name (Printed/Typed) JENNIFER HARMS	Title REGULATORY COMPLIANCE ANALYST
Signature (Electronic Submission)	Date 04/12/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>LONG VO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>05/20/2019</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office Carlsbad		

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RWP 7-589

2. Casing Program ^{- See COA}

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	574 TVD	13.375"	48	H-40	STC	1.125	1.25	1.6
9.875"	0	8250 TVD	8.625"	32	P110EC	TLW	1.125	1.25	1.6
7.875"	0	TD	5.5"	17	P110	CDC-HTQ	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 97

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 waive the centralizer requirement for the 8-5/8" casing in the 9-7/8" hole and the 5-1/2" casing in the 7-7/8" hole.

8-5/8" Intermediate casing will be kept fluid filled.

3. Cementing Program

Casing	# Sk	TOC	Wt. lb/gal	Yld. ft ³ /sack	Slurry Description
Surface	449.7	Surf	14.8	1.34	Tail: Class H Cement + additives
Int	461.1	Surf	9.0	3.3	Lead: Class C Cement + additives
	103	500' above shoe	14.8	1.34	Tail: Class H Cement + additives
Intermediate (Bradenhead)	1144	Surf	14.8	1.34	Class H Cement + additives
Production	309	500' tieback	10.8	1.41	Lead: Class H/C + additives
	2584	KOP	13.8	1.18	Tail: Class H/C + additives

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	% Excess
Surface	50%
Intermediate	30%
Production	10%

4. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	574608	FW	8.33	28	NC
574608	8,250'	Cut/Saturated Brine	9.4 -10.5	28-34	N/C
8,250'	TD	Cut Brine / DBE	9.2 – 9.7	30-40	30-40

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 of fluid?	PVT/Pason/Visual Monitoring
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U. S. Steel Tubular Products

5 1/2 17.00 lb (0.304) RY 110

USS-CDC HTQ™

PIPE CONNECTION

MECHANICAL PROPERTIES

Minimum Yield Strength	110,000		<i>psi</i>
Maximum Yield Strength	125,000		<i>psi</i>
Minimum Tensile Strength	120,000		<i>psi</i>

DIMENSIONS

Outside Diameter	5.500	6.300	<i>in.</i>
Wall Thickness	0.304		<i>in.</i>
Inside Diameter	4.892	4.892	<i>in.</i>
Drift - API	4.767	4.767	<i>in.</i>
Nominal Linear Weight, T&C	17.00		<i>lbs/ft</i>
Plain End Weight	16.89		<i>lbs/ft</i>

SECTION AREA

Cross Sectional Area Critical Area	4.962	4.962	<i>sq. in.</i>
Joint Efficiency		100.0	<i>%</i>

PERFORMANCE

Minimum Collapse Pressure	7,480	7,480	<i>psi</i>
Minimum Internal Yield Pressure	10,640	10,640	<i>psi</i>
Minimum Pipe Body Yield Strength	546,000		<i>lbs</i>
Joint Strength		550,000	<i>lbs</i>
Compression Rating		330,000	<i>lbs</i>
Reference Length		21,569	<i>ft</i>
Maximum Uniaxial Bend Rating		55.4	<i>deg/100 ft</i>

MAKE-UP DATA

Make-Up Loss		4.63	<i>in.</i>
Minimum Make-Up Torque		10,000	<i>ft-lbs</i>
Maximum Make-Up Torque		14,000	<i>ft-lbs</i>
Connection Yield Torque		17,400	<i>ft-lbs</i>
* Verification of connection shoulder required. Typical shoulder range		5,000 - 7,500	<i>ft-lbs</i>

Notes:

- 1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2) Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4) Reference length is calculated by joint strength divided by nominal T&C weight with 1.5 safety factor.

Legal Notice: USS-CDC HTQ™ (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability, and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application. USS Product Data Sheet 2013 rev14 (June)