

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.

SOIL CONSERVATION DISTRICT
Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

JAN 31 2019

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
TOMB RAIDER 12-1 FED 516H

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY

Contact: JENNIFER HARMS
Email: jennifer.harms@dvn.com9. API Well No.
30-015-45486-00-X1

3a. Address

333 WEST SHERIDAN AVENUE
OKLAHOMA, OK 731023b. Phone No. (include area code)
Ph: 405-552-656010. Field and Pool or Exploratory Area
LIVINGSTON RIDGE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 12 T23S R31E SWSE 50FSL 1420FEL
32.311699 N Lat, 103.731499 W Lon11. County or Parish, State
EDDY COUNTY, NM

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 APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recompleting 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.

As per the phone conversation with Christopher Walls 1/23/2019

Devon Energy Production Co., L.P. (Devon) respectfully requests that a DV tool will be ran in order to isolate all hydrocarbon bearing formations and loss zones from the Potash portion of this well. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool and Packer combo will be set a minimum of 50 feet below base of salts. If cement is not returned to surface during the 2nd stage of cement job on the intermediate casing string, a planned squeeze job will be conducted immediately after completion of the job.

Please see attachments

Notify BLM if Cement doesn't circulate

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #451607 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COMPANY LP, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 01/23/2019 (19CRW0007SE)	
Name (Printed/Typed) JENNIFER HARMS	Title REGULATORY COMPLIANCE ANALYST
Signature (Electronic Submission)	Date 01/23/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 01/23/2019
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 **

RW2-4-15

Devon Energy, Tomb Raider 12-1 Fed 516H

1. Geologic Formations

TVD of target	8,945'	Pilot hole depth	N/A
MD at TD:	18,883'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	818		
Salado	1196		
Base of Salt	4286		
Delaware	4513		
Bell Canyon	4558		
Cherry Canyon	5443		
Brushy Canyon	6706		
Madera	8103		
Lower Brushy	8413		
1BSLM			
1BSSS	9508		
2BSLM	9730		
2BSSS	10048		
2BSSS UPR	10173		

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

Devon Energy, Tomb Raider 12-1 Fed 516H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn .	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	4,500'	9.625"	40	J-55	BTC	1.15	1.77	4.10
	4,500	8,400'	9.625"	40	HCK-55	BTC	1.18	1.32	3.75
BLM Minimum Safety Factor							1.125	1.00	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

3. Cementing Program

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Int 1 Two Stage w DV @ ~4500 Int 1 Intermediate Squeeze	737	500' above DV	12.9	1.874	1st stage Lead: Class H/C + additives
	165	500' above shoe	13.2	1.33	1st stage Tail: Class H / C + additives
	886	Surf	12.9	1.874	2nd stage Lead: Class C Cement + additives
	165	500' above DV	13.2	1.33	2nd stage Tail: Class H / C + additives
	As Needed	Surf	13.2	1.33	Squeeze Lead: Class C Cement + additives

A DV tool will be ran in order to isolate all Hydrocarbon bearing formations and loss zones from the Potash portion of this well. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool and Packer combo will be set a minimum of 50 feet below base of salts. If cement is not returned to surface during the primary cement job on the intermediate casing string, a planned squeeze job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Intermediate 1	30%
Intermediate 1 (Second Stage)	30%

4. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
843'	8,400'	Cut/Saturated Brine	9.4 -10.2	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 of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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
x	Coring? If yes, explain
	We plan to conduct whole cores through the Leonard Formation (~8,600' to ~9,333')

Additional logs planned		Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	