

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.***Carlsbad Field Office**
OCD Artesia

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No. NMM22080
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Name or Tribe Name
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY Contact: CHANCE BLAND E-Mail: chance.bland@devn.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 6488 SEVEN RIVERS HIGHWAY ARTESIA, NM 88211	3b. Phone No. (include area code) Ph: 405-228-8593	8. Well Name and No. TOMB RAIDER 1-12 FED 61H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T23S R31E Lot 4 200FNL 1310FWL		9. API Well No. 30-015-43592-00-X1
		10. Field and Pool or Exploratory Area LIVINGSTON RIDGE
		11. 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	Drilling Operations
	<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 recompleat 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 recompleat 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 Respectfully requests to set the intermediate casing string at the top of the 1st Bone Spring Limestone in order to cover up the flow and loss zones located in the Lower Brushy and Cherry Canyons. Devon will run a DV tool at the typical 9-5/8" casing shoe to ensure proper cement coverage in the OH and cement to surface. Also Devon will get the TOC on the production string 500' above the DV tool to ensure proper isolation. Please see the attached drilling documents.

5-22-17
Accepted for record - NMOCD

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 22 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #376154 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COM LP, sent to the Carlsbad Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/16/2017 (17DLM1707SE)	
Name (Printed/Typed) CHANCE BLAND	Title REG PROF
Signature (Electronic Submission)	Date 05/15/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Returned</u> Teungku Muchlis Krueng	Title PETROLEUM ENGINEER	Date 05/18/17
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

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 **

Devon Energy, Tomb Raider 1-12 Fed 61H

1. Geologic Formations

TVD of target	10,200'	Pilot hole depth	N/A
MD at TD:	20,203'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	667		
Salado	1048		
Base of Salt	4205		
Delaware	4455		
Bell Canyon	4513		
Cherry Canyon	5383		
Brushy Canyon	6618		
1BSLM	8378		
LNRD A	8428		
LNRD B	8923		
LNRD C	9233		
1BSSS	9355		
2BSLM	9660		
2BSSS	9976		
2BSSS UPR	10075		
2BSSS_Mid	10238		
2BSSS_LWR	10336		

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

Devon Energy, Tomb Raider 1-12 Fed 61H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn .	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	790'	13.375"	48	H-40	STC	1.40	3.15	14.27
12.25"	0	8,390'	9.625"	40	P-110EC	BTC	1.40	2.76	2.62
8.75"	0	20,203'	5.5"	17	P-110	LTC	1.45	2.07	2.48
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

2. Cementing Program

Casing	# Sks	Wt. lb/gal	H ₂ O gal/sk	Yld ft ³ /sack	500# Comp. Strength (hours)	Slurry Description
9-5/8" Inter. Two Stage	400	11	19.82	3.2	45	1 st Stage Lead: NeoCem®
	760	14.5	5.31	1.2	25	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
	DV Tool = 4400ft					
	605	11	19.82	3.2	45	2 nd Stage Lead: NeoCem®
	360	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

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.

Casing String	TOC	% Excess
9-5/8" Intermediate	0'	75%
5-1/2" Production	500' above DV Tool	50%

4. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
790'	8,390'	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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Devon Energy, Tomb Raider 1-12 Fed 61H

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	