

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**NM OIL & GAS CONSERVATION**  
ARTESIA DISTRICT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**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.*

**FEB 14 2015**

**RECEIVED**

5. Lease Serial No.  
NMNM90534

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
BETELGEUSE 19 FEDERAL 7H

9. API Well No.  
30-015-42032-00-X1

10. Field and Pool, or Exploratory  
HACKBERRY

11. County or Parish, and State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
DEVON ENERGY PRODUCTION CO  
Contact: DAVID H COOK  
Email: david.cook@dvn.com

3a. Address  
333 WEST SHERIDAN AVE  
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)  
Ph: 405-552-7848

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 20 T19S R31E NWSW 2350FSL 0265FWL  
32.645089 N Lat, 103.889132 W Lon

**12. CHECK 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"/> Fracture Treat	<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 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 Company, L.P. respectfully requests running a Multi-Stage Tool with Packer on the 7" x 5.5" combination production casing on the Betelgeuse 19 Fed 7H (API No:30-015-42032).

*RD 2/13/15*  
**Accepted for record**  
**NMOCD**

The well began seeping before reaching a total depth of 12,761 ft.

Lost Circulation Sweeps were pumped during the final circulation and gained full returns before starting to pull out of the hole.

Adding a DVT/ECP at 5000' will increase the chance of success achieving tie-back of 50' above the Capitan Reef, estimated at 2505'.

Please see the attached cementing table.

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**APPROVED**  
**FEB 8 2015**  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

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

Electronic Submission #290893 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad  
Committed to AFMSS for processing by ED FERNANDEZ on 02/09/2015 (15EP002) (SF)

Name (Printed/Typed) DAVID H COOK Title REGULATORY SPECIALIST

Signature (Electronic Submission) Date 02/09/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By EDWARD FERNANDEZ Title PETROLEUM ENGINEER Date 02/09/2015

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**Betelgeuse 19 Fed 7H (API No: 30-015-42032) – Sundry Request**

**AAA 2-7-2015: Add Multi-Stage Tool and Casing Packer to the 7" x 5.5" Combination Production String**

**Sundry Request:**

Devon Energy Production Company, L.P. respectfully requests running a Multi-Stage Tool with Packer on the 7" x 5.5" combination production casing on the Betelgeuse 19 Fed 7H (API No: 30-015-42032). The well began seeping before reaching a total depth of 12,761 ft. Lost Circulation Sweeps were pumped during the final circulation and gained full returns before starting to pull out of the hole. Adding a DVT/ECP at 5000' will increase the chance of success achieving tie-back of 50' above the Capitan Reef, estimated at 2505'. Please find the Cementing Table below:

**CEMENTING TABLE:**

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
7" x 5-1/2" Production Casing 2-Stage	305	12.5	11.02	2.01	1 <sup>st</sup> Lead	(35:65) Poz (Fly Ash):Prem Plus H + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 0.7% bwoc FL-52A + 5 lbs/sack LCM-1 + 105.6% Fresh Water
	1590	14.2	5.76	1.28	1 <sup>st</sup> Tail	(50:50) Poz (Fly Ash):Prem Plus H + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.3% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 57.2% Fresh Water
	<b>Stage Tool/Packer Set @ 5,000 ft</b>					
	155	11.4	17.69	2.88	2 <sup>nd</sup> Lead	Prem Plus C + 1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3% bwoc Sodium Metasilicate + 0.3% bwoc FL-52A + 157% Fresh Water
	100	13.8	6.40	1.37	2 <sup>nd</sup> Tail	(60:40) Poz (Fly Ash):Prem Plus C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water

**TOC for Production String:**

Production @ 2455' (Cement top will tie-back 50' above Capitan Reef at 2505')

**Notes:**

- Cement volumes Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data
- If lost circulation is encountered while drilling the production wellbore, a DV tool will be installed a minimum of 50' below the previous casing shoe and of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately.

**PECOS DISTRICT  
CONDITIONS OF APPROVAL**

<b>OPERATOR'S NAME:</b>	<b>Devon Energy Production Company, LP</b>
<b>LEASE NO.:</b>	<b>NMNM-90534</b>
<b>WELL NAME &amp; NO.:</b>	<b>Betelgeuse 19 Federal 7H (30-015-42032)</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>2350' FSL &amp; 0265' FWL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>1750' FSL &amp; 0340' FWL Sec. 19, T. 19 S., R 31 E.</b>
<b>LOCATION:</b>	<b>Section 20, T. 19 S., R 31 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>
<b>API:</b>	<b>30-015-42032</b>

**The original COAs still stand with the following drilling modifications:**

**Production Casing**

**Operator has proposed DV tool at depth of 5000', but will adjust cement proportionately if moved. 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**

1. The minimum required fill of cement behind the 7 X5-1/2 inch production casing is:

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 approved top of cement on the next stage.

b. Second stage above DV tool:

- Cement should tie-back at least **50 feet above the Capitan Reef**. Operator shall provide method of verification.

**EGF 020715**