

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.*

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM0554775
2. Name of Operator DEVON ENERGY PRODUCTION CO		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 405-228-7203		8. Well Name and No. CAPELLA 14 FEDERAL COM 3H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T19S R31E NENW Lot C 330FNL 1700FWL		9. API Well No. 30-015-39417-00-X1
		10. Field and Pool, or Exploratory HACKBERRY
		11. County or Parish, and State EDDY COUNTY, NM

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 Change to Original APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 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 shall 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 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 to add a DV tool to the 9 5/8" Intermediate Casing. The DV tool will be installed at 2675' (50' above Capitan Reef) and Stage 2 will be circulated to surface. Attached is the amended drilling plan that includes the Casing Program. Additionally, the cement vendor cement slurries components were included.

Thank you.

Accepted for record  
NMOCD 10/22/2013

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL



14. I hereby certify that the foregoing is true and correct. Electronic Submission #221559 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 09/30/2013 (13CRW0150SE)	
Name (Printed/Typed) TRINA C COUCH	Title REGULATORY ASSOCIATE
Signature (Electronic Submission)	Date 09/30/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 09/30/2013
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.

**DRILLING PROGRAM SUNDRY**  
 Devon Energy Production Company, LP  
**Capella 14 Federal Com 3H**

Surface Location: 330' FNL & 1700' FWL, Unit C, Sec 14, T19S R31E, Eddy, NM  
 Bottom Hole Location: 330' FNL & 660' FWL, Lot 4, Sec 2, T25S R31E, Eddy, NM

**1. Casing Program: (All casing is new and API approved.)**

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight	Collar	Grade
17-1/2"	0 - 705'	13-3/8"	0 - 705'	48#	STC	H-40
12-1/4"	705' - 4,550'	9-5/8"	0 - 4,550'	40#	LTC	J-55
8-3/4"	0' - 13,752'	5-1/2"	0' - 13,752'	17#	BTC	HCP-110

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8"	1.8	4.0	7.3
9-5/8"	1.2	1.8	3.0
5-1/2"	1.6	1.9	5.2

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing to be used as the injection string. All casing will be new and to API specification.

**2. Cement Program: (cement volumes Surface 100% / Intermediate 50% Production based on at least 25% excess):**

13-3/8" Surface      **Tail: 755 sacks** Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg  
**Yield:** 1.35 cf/sk  
**TOC @ surface**

9-5/8" Intermediate      **Stage 1: Lead: 735 sacks** (65:40) Class C Cement: Poz (Fly Ash): 5% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 0.5% Sodium Metasilicate at 65.3 % Fresh Water, 12.8 ppg  
**Yield:** 1.38 cf/sk  
**TOC @ DV Tool set @ 2675' (DV Tool placed 50' above Capitan Reef in 9-5/8")**  
**Stage 2: Lead: 1255 sacks** 60:40 POZ Class C Cement + 5% Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 83.4% Fresh Water, 12.8 ppg  
**Yield:** 1.65 cf/sk

**Tail: 150 sacks** 60:40 POZ Class C Cement + 5% Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 65.3% Fresh Water, 13.8 ppg

**Yield:** 1.38 cf/sk

5-1/2" Production 2-Stage

**Stage #1**

**Lead: 484 sacks** (65:35) Class H Cement: Poz (Fly Ash) + 3% BWOC Sodium Chloride + 0.125 pps Cello Flake + 0.7% BWOC FL-52 + 0.3% BWOC ASA-301 + 6% Bentonite + 0.2% BWOC R-3 + 105.5 % Fresh Water, 12.5 ppg

**Yield:** 2.01 cf/sk

**TOC @ 5000 ft** (DV Tool placed above Delaware Fm)

**Tail: 1404 sacks** (50:50) Class H Cement: Poz (Fly Ash) + 5% Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.4% bwoc FL-52 14.2 ppg

**Yield:** 1.28 cf/sk

**Stage #2**

**Lead: 217 sks** (60:40) Class C + 1% BWOC R-3 + 0.125% bwoc Cello Flake + 0.1% BWOC Sodium Metasilicate + 154% Fresh Water; 11.4 ppg

**Yield:** 2.81 cf/sk

**TOC @ 2675'** (50' above Capitan Reef)

**Tail: 104 sacks** Class C Cement + 5% bwow Soduim Chloride + 0.125 Cello Flake + 0.1% BWOC Soduim Metasilicate + 4% BWOC MPA-5 + 65.4% Fresh Water, 13.8 ppg

**Yield:** 1.37 cf/sk

**TOC @ 4550ft**

**The above cement could be revised pending caliper measurement from the open hole logs.**

**3. Proposed Mud Circulation System**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 705'	8.4-9.0	30-34	NC	FW
705' – 4,550'	9.8-10.0	28-32	NC	Brine
4,550' – 13,752'	8.6-9.0	28-30	NC-12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

### Conditions of Approval

1. The minimum required fill of cement behind the **9-5/8** inch intermediate 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 circulation on the next stage.

b. Second stage above DV tool:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.