

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.*

5. Lease Serial No.  
NMNM28328

6. If Indian, Allottee or Tribe Name

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
RIGEL 20 FED COM 5H

2. Name of Operator  
DEVON ENERGY PRODUCTION CO  
Contact: TRINA C COUCH  
Email: trina.couch@bvm.com

9. API Well No.  
30-015-41514-00-X1

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

3b. Phone No. (include area code)  
Ph: 405-228-7203

10. Field and Pool, or Exploratory  
HACKBERRY

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 19 T19S R31E NENE 480FNL 190FEL  
32.651825 N Lat, 103.900633 W Lon

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
	<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 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 permission to add a DV Tool and External Casing Packer to the 13-3/8" Intermediate 1 casing string due to partial losses encountered below 570 ft. Lost-Circulation Material sweeps were utilized to heal the hole while drilling continued to Intermediate 1 section TD at 2460'. Devon recommends a DV Tool placed on the 13-3/8", 61 ppf, J-55, BTC Intermediate 1 casing with the top of the DV Tool at 528 ft, and the External Casing Packer immediately below at 531-555 ft. Attached, please find the updated Drilling Well Plan with corrected depths, cement slurry descriptions and cement slurry volumes.

Thank you

Accepted for record  
NMOCD 76  
3-14-14

**RECEIVED**  
MAR 12 2014  
NMOCD ARTESIA

*Verbal approval was granted on 03/01/2014*

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

Electronic Submission #237529 verified by the BLM Well Information System  
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad  
Committed to AFMSS for processing by JENNIFER MASON on 03/03/2014 (14JAM0262SE)

Name (Printed/Typed) TRINA C COUCH Title REGULATORY ASSOCIATE

Signature (Electronic Submission) Date 03/03/2014

**ACCEPTED FOR RECORD**

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

Approved By \_\_\_\_\_ Title \_\_\_\_\_

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 \_\_\_\_\_

MAR 4 2014  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD 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.

Sundry to add DVT/ECP to Intermediate 1 at 527'. Data as follows:

1. Casing Program: Rigel 20 Fed Com 5H (API: 30-015-41514)

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
26"	0 - 470	20"	0 - 520	94#	BTC	J/K-55	2.22	8.99	31.73
17-1/2"	470 - 2460	13-3/8"	0 - 2460	61#	BTC	J-55	1.20	2.42	6.83
12-1/4"	2450 - 4000	9-5/8"	0 - 4000	40#	LTC	J-55	1.37	2.11	3.25
8-3/4"	4000 - 7300	5-1/2"	0 - 7300	17#	LTC	P-110	2.25	3.20	2.04
8-3/4"	7300 - 12902	5-1/2"	7300 - 12902	17#	BTC	P-110	1.99	2.84	5.54

Casing Notes: All casing is new and API approved  
Maximum Lateral TVD: 8015'

2. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
Surface	500	13.5	9.14	1.73	Lead	Class C + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.1% Fresh Water
	300	14.8	6.35	1.35	Tail	Class C + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Intermediate 1	1020	12.8	8.82	1.67	1 <sup>st</sup> Lead	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 1% bwoc Sodium Metasilicate + 89.7% Fresh ater
	500	13.8	6.45	1.38	1 <sup>st</sup> Tail	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.8% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.6% Fresh Water
	DVT @ 527'					
	420	12.8	8.4	1.67	2 <sup>nd</sup> Lead	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.25% bwoc FL-52 + 1.5% bwoc Sodium Metasilicate + 3 lbs/sack Kol-Seal, bulk + 85.4% Fresh Water
	100	13.8	6.42	1.38	2 <sup>nd</sup> Tail	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water
Intermediate 2	395	12.6	8.98	1.75	1 <sup>st</sup> Lead	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 3 lbs/sack Kol-Seal, bulk + 91.3% Fresh Water
	300	13.8	6.41	1.38	1 <sup>st</sup> Tail	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.1% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.2% Fresh Water
	DVT @ 2500'					
	390	13.8	6.42	1.38	2 <sup>nd</sup> Lead	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.25% bwoc FL-52 + 1.5% bwoc Sodium Metasilicate + 3 lbs/sack Kol-Seal, bulk + 85.4% Fresh Water
	150	12.8	8.4	1.67	2 <sup>nd</sup> Tail	(60:40) Poz (Fly Ash):Class C + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water

Production	310	12.5	11.02	2.01	1 <sup>st</sup> Lead	(35:65) Poz (Fly Ash):Class H + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.6% Fresh Water
	1475	14.2	5.76	1.28	1 <sup>st</sup> Tail	(50:50) Poz (Fly Ash):Class H + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 57.2% Fresh Water
	DVT @ 5000'					
	190	11.4	17.69	2.88	2 <sup>nd</sup> Lead	Class C + 1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.3% bwoc FL-52 + 3% bwoc Sodium Metasilicate + 157% Fresh Water
	100	13.8	6.4	1.37	2 <sup>nd</sup> Tail	(60:40) Poz (Fly Ash):Class C Cement + 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 all Strings:**

Surface	@	0'
Intermediate	@	0'
Intermediate	@	0'
Production	@	2415' (at least 50' above Capitan)

**Notes:**

- Cement volumes based on an excess of at least Surface 75%, Intermediate 1 at 50%, Intermediate 2 at 50%, and Production 25%.
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data