

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. NMNM036379
2. Name of Operator DEVON ENERGY PRODUCTION CO Contact: TRINA C COUCH Email: trina.couch@dvn.com		6. If Indian, Allottee or Tribe Name
3a. Address 333 WEST SHERIDAN AVE OKLAHOMA CITY, OK 73102	3b. Phone No. (include area code) Ph: 405-228-7203	7. If Unit or CA/Agreement, Name and/or No. 891005247X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T24S R31E NENE 200FNL 510FEL 32.181084 N Lat, 103.740038 W Lon		8. Well Name and No. COTTON DRAW UNIT 213H
		9. API Well No. 30-015-41869-00-X1
		10. Field and Pool, or Exploratory PADUCA
		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 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 approval to set 7" intermediate casing due to lost circulation encountered while drilling through the Delaware. A 4.5" production liner will then be tied back 500' into the 7" casing.

Please see attachment for casing design and cement proposal

Thank you

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 31 2014

Accepted for record

NMOCD 16

7-31-14

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #254078 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 07/22/2014 (14CRW0193SE)	
Name (Printed/Typed) TRINA C COUCH	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 07/22/2014

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	JUL 22 2014 /s/ Chris Walls
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 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.

Casing Design and Cement Proposal

Casing Size	Grade & Conn	Hole Size	Casing Wt	Casing Wt (Value)	Setting Depth (MD)	Setting Depth (TVD)	String Length	Max Mud Wt
7"	P-110 LTC	8-3/4"	29#	29	9,700	9,700	9,000	9.0
4-1/2"	P-110 BTC	6-1/8"	13.5#	13.5	14,874	10,400	5,674	9.0

Casing Properties			Design Factors		
Collapse	Burst	Yield Strength	Collapse	Burst	Tension
8,510	11,220	955000	1.87	2.47	3.66
10,670	12,410	443000	2.19	2.55	6.34

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
7" Intermediate Two Stage	310	11.9	13.31	2.31	Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.5% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 79.5% Fresh Water
	140	14.4	5.8	1.25	Tail	50:50) Class H Cement: Poz (Fly Ash) + 2% BWOC Bentonite + 0.2% HR-800 + 0.2% Halad-9 + 63.9% Fresh Water
	DV Tool at 4500ft					
	60	12.9	9.82	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	70	14.8	6.34	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
4-1/2" Liner	550	14.5	5.38	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

7" Intermediate Casing

1st Stage = 4500ft

2nd Stage = 3367ft

4-1/2" Production Liner

9200ft

Notes:

- Cement volumes 7" Intermediate #2 10% excess on stage #1, 30% excess on stage #2 and 25% on the Production Liner. Final DV tool placement will depend on caliper log. DV tool will be set a minimum of 50' below the previous casing shoe set at 4350' and a minimum of 200' above the 7" casing shoe. Cement volumes will be adjusted proportionately to DV tool setting depth.
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-036379
WELL NAME & NO.:	Cotton Draw Unit 213H
SURFACE HOLE FOOTAGE:	0200' FNL & 0510' FEL
BOTTOM HOLE FOOTAGE:	0330' FSL & 0660' FEL
LOCATION:	Section 35, T. 24 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

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

Operator has proposed DV tool at depth of 4500'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

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. **Additional cement may be required as the excess calculates to 13%.**

b. Second stage above DV tool:

- Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

2. The minimum required fill of cement behind the 4-1/2 inch production liner is:

- Cement should tie-back to the top of the liner. Operator shall provide method of verification.

CRW 072214