

NMOCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Artesia

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.

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

HOBBS OCD

MAY 20 2018

RECEIVED

5. Lease Serial No.
NMLC061873B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
COTTON DRAW UNIT 507H

9. API Well No.
30-025-43914

10. Field and Pool or Exploratory Area
WC-025 G-06 S253206M; BS

11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY
Contact: LINDA GOOD
Email: linda.good@dvn.com

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

3b. Phone No. (include area code)
Ph: 405-552-6558

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 18 T25S R32E Mer NMP SESW 545FSL 2038FWL

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 checked="" 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 <i>Sundry Drilling Operations</i>
	<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 recomplate 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 recompletion 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.

LOW TOC - BRADENHEAD SQUEEZE

Upon review of the CBL, the TOC does not meet COA requirements. As per the COA the TOC needs to be 4174', UltraView Cement Evaluation Log shows the TOC to be 5186'. The intermediate shoe is at 4374'. After running the cement evaluation log we attempted to establish injection down the 5-1/2"x9-5/8" annulus. We were able to achieve an injection rate of 4 bpm and 450 psi. Indicating that we will be able to perform a bradenhead squeeze down the 5-1/2"x9-5/8" annulus to remediate the low TOC. Attached is the UltraView Log and procedure to remediate the TOC with a bradenhead squeeze.

The cement logs have been emailed to Chris Walls & Mustafa Haque.

RECEIVED

MAY 31 2018

DISTRICT II-ARTESIA OCD

submit new CBL to BLM.

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

Electronic Submission #419379 verified by the BLM Well Information System For DEVON ENERGY PRODUCTION COMPAN, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 05/21/2018

Name (Printed/Typed) LINDA GOOD Title REGULATORY SPECIALIST

Signature (Electronic Submission) Date 05/09/2018

APPROVED

MAY 21 2018

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Approved By _____ Title _____ Date _____

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.

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED**

KA

Cotton Draw Unit 507H – Bradenhead Squeeze Procedure

API: 3002543938

WBS: XX-123653.01.CMP

SHL: Sec 18 of 25S-32E – 545' FSL & 2038' FWL

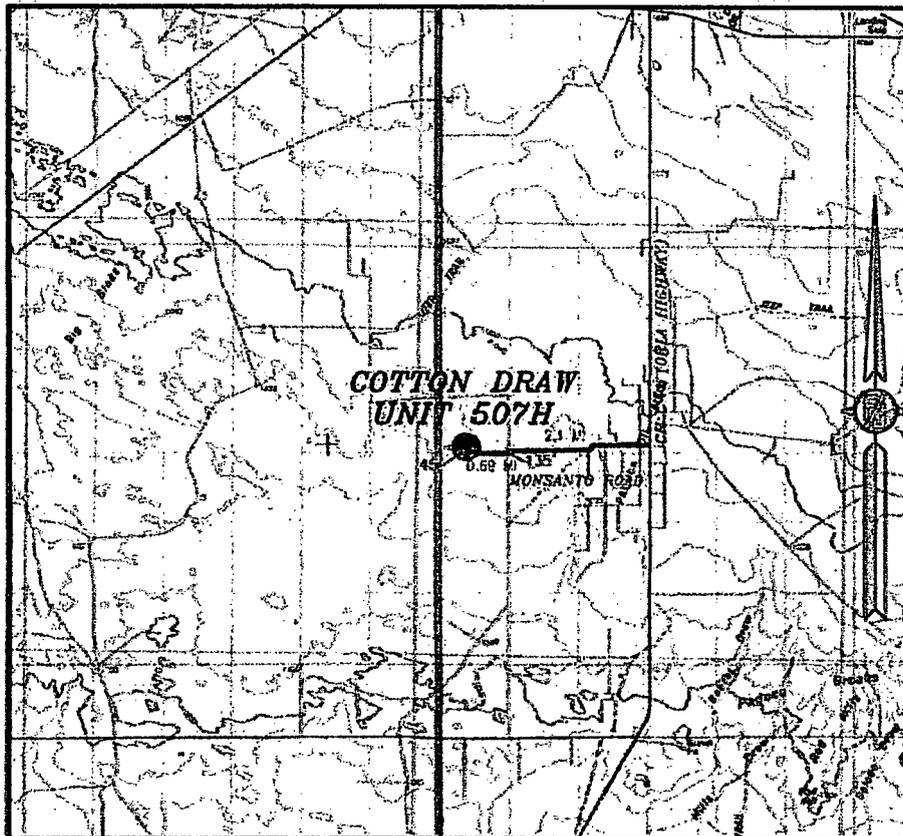
Lea County, NM

Objective:

1. The Cotton Draw Unit 507H was drilled within the Lower 2nd Bone Spring Sand and cased off with a 5-1/2" production casing string.
2. Attempt to establish injection rate down the 5-1/2"x9-5/8" annulus.
3. Perform bradenhead squeeze down the 5-1/2"x9-5/8" annulus to remediate top of cement on the production string. Bring TOC from 5186' to 3300'.
4. Run CBL to verify new TOC.

Directions:

FROM THE INTERSECTION OF CR C-1 (ORLA HIGHWAY) & MONSANTO ROAD GO WEST ON MONSANTO ROAD FOR 2.1 MILES, TURN LEFT (SOUTH) GO SOUTH APPROX. 138' TO A PROPOSED ROAD SURVEY, FOLLOW PROPOSED ROAD SURVEY WEST 0.69 OF A MILE, FOLLOW PROPOSED ROAD SURVEY NORTH 45° TO THE SOUTHWEST CORNER OF COTTON DRAW UNIT 18-18 PAD 2.



GL - 3,407.5'
TD - 20,358'
KOP - 9,991'

KB - 3,432.5' (25')
PBSD - 20,268' (FC)

Casing	OD	WT/FT	Grade	Top (ftKB)	Bottom (ftKB)	80% Collapse (psi)	80% Burst (psi)
Surface	13-3/8"	54.5#	J-55	25'	798'		
Intermediate	9-5/8"	40#	J-55	25'	4,374'		
Production	5-1/2"	17#	P-110RY	25'	20,358'	5,968	8,512

Capacity:

- 5-1/2 17# Casing – (0.0232 bbl/ft)
- 5-1/2 17# Casing X 2-3/8" Tubing – (0.0178 bbl/ft)
- 5-1/2 17# Casing X 2-7/8" Tubing – (0.0152 bbl/ft)

Offset Wells: 1 offsets in same of near formation. See Frac Bash guideline.

Operator	Well	S-T-R	Surf Loc	Distance	Frac Stg	Current Well Status

EHS:

- All personnel will wear hard hats, safety glasses (side shields), FRC, and steel-toed boots while on location and follow all company policies
- Hold PJSM with all vendors on location discussing matters of safety, job procedure, and procedure execution contingencies. For any scope change or shift change, safety meetings need to be held with all personnel on location. Ensure safety shower is set on location and appropriate containments are set prior to start of frac.

Nick Ashley, Completions Engineer
405-552-4641 [office]
405-465-2076 [cell]
Nick.Ashley@dvn.com

Devon Contacts

Devon Contacts	Contact	Office	Office Phone	Cell Phone	E-mail Address
CMP Engineer	Nick Ashley	OKC	405-552-4641	1(405)465-2076	Nick.Ashley@dvn.com
Foreman CMP	Danny Velo	Artesia	1(575)746-5572	1(575)703-3360	Danny.Velo@dvn.com
Manager Completions Engineering	Daniel Wood	Oklahoma City	1(405)228-8514	1(405)974-0892	Daniel.Wood@dvn.com
Sand Coordinator	Mark Briney	OKC	(405)552-4504	(405)833-4771	Mark.Briney@dvn.com

Service Co. Contacts

Service Co.	Contact	Office	Phone	E-mail Address
FTS International	Justin McAtee		405-200-9237	Justin.McAtee@ftsi.com
API	Rodney Browning		817-437-4746	Wr.browning@apiperforating.com
Innospec	Arron Karcher		713-673-9513	Arron.karcher@innspecinc.com
Solaris	Brian Overton		432-788-7282	brian.overton@solarisoilfield.com
Texas Pride	Kyle Finkler		817-371-7206	k.finkler@texaspridefuels.com

Completion Notes:

- **Flotation Collar @ 9,986 MD ~1 deg incl**
 - o **Burst by drilling after floating casing, ID is same as casing (4.892")**
 - o **Have had recent issues with running tools through flotation collar. Contact engineer and foreman before running any tools through this section.**
- **TAM PosiFrac Toe Sleeve @ 20,220' MD - 4.25" ID**
- **All water pumped into the well must be treated with biocide and if fresh water is used it needs to be treated with 2% KCL substitute.**
- **Cement Job**
 - o **Decreasing returns 310 bbls into displacement and lost returns last 86 bbls of displacement.**
- **Previous Operations:**
 - o **CBL already ran and TOC at 5186'.**
 - o **Tied into 9-5/8"x 5-1/2" annulus and able to establish an injection rate of 4 bpm at 450 psi.**
 - o **Production casing tested to 8500 psi for 30 min and Toe sleeve opened.**

Nick Ashley, Completions Engineer
 405-552-4641 [office]
 405-465-2076 [cell]
Nick.Ashley@dvn.com

PROCEDURE:

Prep:

1. MIRU cement truck and associated equipment. Tie into 9-5/8"x5-1/2" annulus.
2. Establish an injection rate. Verify injection rate of 5 bpm without exceeding 1500 psi. Monitor 5-1/2" casing pressure and the 13-3/8"x9-5/8" annulus pressure during injection. If able to establish an injection rate of 5 bpm without exceeding 1500 psi and no pressure communication was observed on the production and surface casing then proceed with the procedure.
3. Pump 20 BBL fresh water ahead.
4. Mix and pump 98 bbls of 12.9 lb/gal 35/65 Poz Class "C" w/ 6% bentonite. Cement volume includes 30% excess for the open hole section.

NOTE: Ensure lab testing with slurry has been completed and results sent to engineer. Verify thickening time meets job requirements.

5. Displace with 153 bbl of fresh water.
 - A. New TOC should be +/- 3300'
- NOTE: Verify volumes with engineer before pumping
6. Monitor annulus pressure for 15 min. If well goes on vacuum call foreman and engineer.
 7. Shut well in, RD from well and wait on cement for 48 hrs.
 8. MIRU wireline, crane, lubricator. RIH with RCBL and log from 6,500' to 500' above where TOC is seen with 2000 psi on well. Well should have ~2000 psi on the well from open toe sleeve. Confirm new TOC and let engineer know TOC.
 9. RDMO wireline, crane, lubricator. Secure Wellhead.
 10. Have CBL and cement report sent to Nick Ashley (Nick.Ashley@dvn.com) and DCWellFileWestern@dvn.com.

Nick Ashley, Completions Engineer
405-552-4641 [office]
405-465-2076 [cell]
Nick.Ashley@dvn.com