

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.
NMNM94186

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
NMNM88526X

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
THISTLE UNIT 53H

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

9. API Well No.
30-025-41794-00-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
TRIPLE X

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 28 T23S R33E NWNE 200FNL 2030FEL
32.282533 N Lat, 103.575401 W Lon

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

HOBBS OCD
SEP 17 2014
RECEIVED

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 run a two stage surface cement job as opposed to the approved one stage job in the original APD. The DV Tool will be placed in 300' MD in open hole.

Please see attachments for volumes and updated data

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVED
SEP 10 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #262499 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Hobbs
Committed to AFMSS for processing by ED FERNANDEZ on 09/11/2014 (14EE0094SE)

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

Signature (Electronic Submission) Date 09/10/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ Title PETROLEUM ENGINEER Date 09/11/2014

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 Hobbs

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 **

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

SFP 19 2014

Additional data for EC transaction #262499 that would not fit on the form

32. Additional remarks, continued

Thank you

Casing program:

Hole Size	Hole Interval	Casing OD	Casing interval	Casing Wt (ppf)	Connection	Casing Grade
17-1/2"	0 - 1,415'	13-3/8"	0 - 1,415'	48	STC	H-40
12-1/4"	1,415 - 5,200'	9-5/8"	0-4,300'	40	BTC	J-55
12-1/4"	1,415 - 5,200'	9-5/8"	4300 - 5200'	40	BTC	HCK-55
8-3/4"	5,200 - 16,080'	7"	0 - 10,650'	29	BTC	P-110
8-3/4"	5,200 - 16,080'	5-1/2"	10,650 - 16,080'	17	BTC	P-110

****13-3/8" DV Tool will be run on the surface casing job at 300' MD****

Design factors:

Casing	Collapse	Burst	Tension
13-3/8" H-40 STC	1.28	3.02	5.06
9-5/8" J-55 BTC	1.15	3.43	4.69
9-5/8" HCK-55 BTC	1.57	4.63	6.07
7" P-110 BTC	1.78	1.25	2.16
5-1/2" P-110 BTC	1.42	1.25	2.07

There is no potential for the intermediate casing to be used as a production string. All casing strings utilized are new.

Mud program:

Depth	Mud Wt. (ppg)	Visc. (cp)	Fluid loss	Type System
0 - 1,415'	8.5 - 8.7	1 - 3	NC	Fresh water
1,415 - 5,200'	9.8 - 10.0	1 - 3	< 100	Brine
5,200 - 16,080'	8.4 - 9.0	1 - 3	< 100	Fresh water/cut brine

Pressure control equipment:

Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

- Wellhead will be installed by FMC's representatives.
- If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- FMC representative will install the test plug for the initial BOP test.
- FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.

- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 70% of burst or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8" intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Devon

Thistle Unit 53H

Cementing Program (cement volumes based on at least Surface 100% excess, Intermediate 75% excess and Production is 25% excess)

13-3/8" Surface
First Stage

Lead: 655 sacks Class C Cement + 0.25 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.8% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

Water Requirement: 9.07 gal/sk

Mix Water Volume: 145bbbls

TOC @ 300'

Tail: 425 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

Water Requirement: 6.32 gal/sk

Mix Water Volume: 85bbbls

13-3/8" Surface
Second Stage

Lead: 470 sacks Class C Cement + 0.25 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.8% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

Water Requirement: 9.07 gal/sk

Mix Water Volume: 145 bbls

TOC @ surface

Tail: 560 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

Water Requirement: 6.32 gal/sk

9-5/8" Intermediate

Lead: 1140 sacks (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, 12.9 ppg

Yield: 1.85 cf/sk

Water Requirement: 9.81gal/sk

Mix Water Volume: 266bbbls

TOC @ surface

Tail: 430 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg

Yield: 1.33 cf/sk

Water Requirement: 6.32 gal/sk

Mix Water Volume: 65bbbls

5-1/2" Production

Lead #1: 550 sacks (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water, 11.9 ppg

Yield: 2.26 cf/sk

Water Requirement: 12.89 gal/sk

Mix Water Volume: 169bbbls

TOC @ 4750ft

Lead #2:330 sacks (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water, 12.5 ppg

Yield: 1.95 cf/sk

Water Requirement: 10.79 gal/sk

Mix Water Volume: 85bbbls

TOC @ 8739ft

Tail: 1400 sacks (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

Yield: 1.22 cf/sk

Water Requirement: 5.38 gal/sk

Mix Water Volume: 180bbbls

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

2.3 Job Volume Estimates Surface Casing - Two Stage Option

Stage 1

Fluid 1: Water Spacer

Red Dye Spacer

0.10 lbm/bbl Rhodamine Red Dye No. 2

Fluid Density: 8.34 lbm/gal

Volume : 20 bbl

Fluid 2: Lead Slurry

HALCEM (TM) SYSTEM

0.1250 lbm Poly-E-Flake

4 % Bentonite

Fluid Weight: 13.5 lbm/gal

Volume: 203.6 bbl

Slurry Yield: 1.719 ft³/sack

Total Mixing Fluid: 9.09 Gal/sack

Top Of Fluid: 0 ft

Calculated Fill: 971 ft

Calculated sack: 665 sack

Proposed sack: 665 sack

Fluid 3: Tail Slurry

HALCEM (TM) SYSTEM

1 % Calcium Chloride - Flake

Fluid Weight: 14.8 lbm/gal

Volume: 101.1 bbl

Slurry Yield: 1.336 ft³/sack

Total Mixing Fluid: 6.36 Gal/sack

Top Of Fluid: 971 ft

Calculated Fill: 479 ft

Calculated sack: 425 sack

Proposed sack: 425 sack

Fluid 4: Water Spacer

Fresh Water Displacement

Fluid Density: 8.34 lbm/gal

Volume : 221.4 bbl

Multiple Stage Cementer

300 ft(MD)

Stage 2

Fluid 1: Water Spacer

Red Dye Spacer

0.10 lbm/bbl Rhodamine Red Dye No. 2

Fluid Density: 8.34 lbm/gal

Volume : 20 bbl

Fluid 2: Tail Slurry

HALCEM (TM) SYSTEM

1 % Calcium Chloride - Flake

Fluid Weight: 14.8 lbm/gal

Volume: 111.8 bbl

Slurry Yield: 1.336 ft³/sack

Total Mixing Fluid: 6.36 Gal/sack

Top Of Fluid: 0 ft

Calculated Fill: 300 ft

Calculated sack: 470 sack

Proposed sack: 470 sack

Fluid 3: Water Spacer

Fresh Water Displacement

Fluid Density: 8.34 lbm/gal

Volume : 47.1 bbl

CONDITIONS OF APPROVAL

Sundry dated 09/10/2014

OPERATOR'S NAME:	Devon Energy Production Company, L.P.
LEASE NO.:	NMNM-94186
WELL NAME & NO.:	Thistle Unit 53H 30-025-41794
SURFACE HOLE FOOTAGE:	0200' FNL & 2030' FEL
LOCATION:	Section 28, T. 23 S., R 33 E., NMPM
COUNTY:	Lea County, New Mexico

The original COAs still stand with the following drilling modifications:

Operator has proposed DV tool at depth of 300'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

1. The 13-3/8 inch surface casing shall be set at approximately **1450 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt)** and cemented to the surface. **Fresh water mud to be used to setting depth.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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.

Second stage above DV tool:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

EGF 091014