Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA
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FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

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 page 2.*

1 Type of Well ☑ Oil Well ☐ Gas Well ☐ Other	5 Lease Serial No NMNM-54856
	6 If Indian, Allottee or Tribe Name
	7 If Unit of CA/Agreement, Name and/or No
	8 Well Name and No Dickens 29 Federal 1H
2. Name of Operator Devon Energy Production Co., LP	9. API Well No 30-015-37385
3a Address 20 North Broadway OKC, OK 73102 3b Phone No. *(include area code)* (405)-552-7802	10. Field and Pool or Exploratory Area Dog Canyon; Wolfcamp
4 Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SESE SL 170' FSL & 790' FEL BHL. 330' FSL & 330' FWL Sec 29-T16S-R28E	11 Country or Parish, State Eddy County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Change Drilling Program
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 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.)

Devon Energy Production Co,. LP respectfully requests approval to deviate from the original approved APD and revise the drilling program per the attached:

Note Please see sundry documentation for the Shakespeare 20 Fed Com 3H API# 30-015-37193; approved by the BLM 11/27/2009 & OCD 12/04/2009

SUBJECT TO LIKE APPROVAL BY STATE
DHC behind pipe

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14 I hereby certify that the foregoing is true and correct Name *(Printed/Typed)* Stephanie A. Ysasaga	Title Sr. Staff Engineering Technician
Signature	Date 04/16/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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	Office

APPROVED
APR 20 2010
/s/ Chris Walls
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

(Instructions on page 2)

devon

Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

April 16, 2010

United States
Department of The Interior
Carlsbad, New Mexico
Re: Dickens 29 Fed 1H
Sec 29-T16S-R28E
Eddy County, New Mexico
API # 30-015-37385

Devon Energy would like to make the following changes to the approved drilling design for the above ~~referred~~ referenced well.

1. The 17 1/2" hole to be drilled to ~~600~~ 590' (as per BLM COA) and at set 13 3/8" 48# H-40 ST&C casing. Cement to surface with 375 sacks 35:65 Pox Class C yield 1.96 cuft/sk and 250 sacks of Class C yield 1.34 cuft/sk.

2. The 12 ¼" hole to be drilled to~2300' and set 9 5/8" 36# J-55 LT&C casing. Cement to surface with: Lead with 600 sx 35:65 Poz Class C Yield 1.97 cf/sk and Tail with 350 sx Class C Yield 1.35 cf/sk.

3. This well will have a **PILOT HOLE.** The 7" and 4 ½" casing described in the approved APD will only be ~~ran~~ run if hole conditions deteriorate and this will be considered as a option.

4. An 8 ¾" hole will be drilled from 2300' to the TMD ~~~10,500~~ 10,475' Per APD.

5. The current proposed production casing will be 5 ½" 17# BT&C & LT&C P110 HC and will be ~~ran~~ run with a Packer type completion system with Swell Packers for isolation in the lateral to a MTD of ~10500'.

6. A Port Collar (PC) will be placed in the 5 ½" casing at KOP (~5900') (see COA / DHC) while running the casing.

7. Once the casing with the completion system is ~~ran~~ run, tubing will be ~~ran~~ run to open the PC (5900') and the 5 ½" casing be cemented from 5900'to surface. Cement volume will be 985 sacks 35:65 Poz Class C with a yield of 1.96 cuft/sk and 380 sacks of Class C with a yield of 1.34 cuft/sk.

8. Data for 5 ½" casing: ~~5000~~ 4525' of 17# P110 BT&C and ~5950' of 17# P 110 LT&C. Safety factors are: Collapse 2.93, Burst 4.01 and Tensile 2.37.

Devon Energy reserves the right to change the tubular design as the well is being drilled and will inform the Carlsbad New Mexico BLM office within 24 hours of any changes which may occur. See COA

Regards
Pat Brown
Drilling Engineer
Devon Energy
Western Region USA
Office: 405-228-8511

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company, LP
LEASE NO.:	NM103873
WELL NAME & NO.:	Dickens 29 Federal 1H
SURFACE HOLE FOOTAGE:	170' FSL & 790' FEL
BOTTOM HOLE FOOTAGE	330' FSL & 330' FWL
LOCATION:	Section 29, T. 16 S., R 28 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

a. Spudding well
b. Setting and/or Cementing of all casing strings
c. BOPE tests

☒ **Eddy County**
Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

4. **The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.**

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High cave/karst.
Possible lost circulation in the Grayburg and San Andres formations.
Possible high pressure gas bursts in the Wolfcamp.

1. The **13-3/8** inch surface casing shall be set at **approximately 590 feet in the Seven Rivers formation** and cemented to the surface. **Fresh water mud is 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 action will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst. This casing is to be set above the Slaughter Zone of the San Andres formation.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

Pilot hole plug is to have a plug at the bottom and must be 170' in length. Plug to be tagged prior to setting second plug. Report tag depth on subsequent report. Operator can set a single plug from the bottom of the hole to the kick-off point and avoid a tag.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
The placement of the ported collar may result in downhole commingling behind the casing and as a result is subject to like approval by State. The operator has provided documentation from offsetting wells that indicates that production does not exist in the portion of the hole that could have commingling issues and based on that data, the BLM is approving the set point for the ported collar.

Contingency casing program:

4. The minimum required fill of cement behind the **7** inch second intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

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

☒ Cement not required – operator using Peak System Iso-pack liner.

6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

    a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8"** intermediate casing shoe shall be **5000 (5M)** psi. **5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. Casing cut-off and BOP installation will not be initiated until the cement has had a minimum of 8 hours setup time for a water basin. The casing shall remain stationary and under pressure for at least eight hours after the operator places the cement. In the potash area, the minimum time is 12 hours and the casing shall remain stationary and under pressure during this time period. Casing shall be under pressure if the operator uses some acceptable means of holding pressure or if the operator employs one or more float valves to hold the cement in place. Testing the BOP/BOPE against a plug can commence after meeting the above conditions plus the BOP installation time.
    b. The tests shall be done by an independent service company utilizing a test plug.

    c. The results of the test shall be reported to the appropriate BLM office.

    d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

g. **Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.**

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.