

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

OCD-HOBBS

FORM APPROVED  
OMB NO. 1004-0137  
EXPIRES: March 31, 2007

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

JUN 04 2012

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD WELL	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP	
3a. Address 20 North Broadway, Ste 1500, Oklahoma City, OK 73102	3b. Phone No. (include area code) 405-552-4615
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980 FSL 1980 FWL K 28 T21S R32E	

5. Lease Serial No. NM 63020
6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No
8. Well Name and No. Bilbrey 28A Federal 1
9. API Well No. 30-025-30664
10. Field and Pool, or Exploratory Area Bilbrey; Delaware, North
11. County or Parish, State Lea 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepens directionally or recompletes horizontally, give subsurface location 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 requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Proposed SWD conversion: Devon is filing form C108 with OCD-Santa Fe to convert this well to SWD in the Delaware Bell Canyon formation from 4785 to 5800.

1. MIRU. POOH rod string and w 2-7/8" production tubing.
2. Spot 65 sx cement plug from 8230' to 8630'. Tag TOC. (Delaware open perfs from 8571-8611)
3. Set CIBP @ 6035'. Cap w/35' cement. 6000' PBD.
4. Perf Delaware Bell Canyon for injection in 7" casing at 4785-4830, 4900-4940, 4966-4990, 5011-5073, 5207-5236, 5256-5300, 5700-5740, and 5758-5800.
5. TIH w/work string and perform step rate test.
6. ~~Frac injection interval 4785-5800 if necessary.~~
7. TIH w/ 3-1/2" IPC tubing and 7" IPC packer. Set packer at 4755'. Circulate w/inhibited packer fluid.
8. Notify OCD & BLM of MIT test. Conduct MIT test and chart.
9. Turn well to injection

wellbore schematic attached

WITNESS  
PLUG BACK

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct Name: <b>Ronnie Slack</b>		Title: <b>Operations Technician</b>
Signature: <i>Ronnie Slack</i>		Date: <i>1/19/12</i>
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by		Date: <b>MAY 31 2012</b>
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 or operations thereon.		Office: <b>WESLEY W. INGRAM PETROLEUM ENGINEER</b>

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

MW/OCD 06-06-12

JUN 07 2012

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: BILBREY 28A FEDERAL #1		Field: BILBREY	
Location: 1980' FSL & 1980' FWL; SEC 28-T215-R32E		County: LEA	State: NM
Elevation: 3709' KB; 3683' GL; 26' KB to GL		Spud Date: 10/2/89	Compl Date: 2/2/90
API#: 30-025-30664	Prepared by: Ronnie Slack	Date: 1/19/12	Rev:

**PROPOSED FOR SWD**

17-1/2" Hole  
13-3/8", 48#, H40, STC, @ 626'  
 Cmt'd w/450 sx C, tail w/250 sx C (circ)

TOC @ 4360' (CBL-6/1/10)

12-1/4" Hole  
9-5/8", 40#, K55, STC, @ 4,650'  
 Cmt'd w/3400 sx, tail w/200 sx (circ)

Proposed:  
 Delaware Bell Canyon SWD Perfs  
 4785' - 4830'  
 4900' - 4940'  
 4966' - 4990'  
 5011' - 5073'

Sqzd csq leak @ 5138-5154 w/250 sx (5/26/10)

Proposed:  
 Delaware Bell Canyon SWD Perfs  
 5207' - 5236'  
 5256' - 5300'  
 5700' - 5740'  
 5758' - 5800'

DELAWARE (6/1/10)  
 8571' - 8611, 2 spf.  
 acidized w/2000 gals 7.5% HCl, frac w/88K# sand

Top of 4-1/2" Liner @ 11,552'

8-3/4" Hole  
7", 26# & 29#, P110 & S95, @ 12,097'  
 Cmt'd w/1650 sx. TOC @ 5430' by temp survey

MORROW (3/23/90)  
 13,902' - 13,912'

MORROW (2/2/90)  
 14,279' - 14,498'

6" hole  
4-1/2", 13.5#, J95, LTC, @ from 11,552' to 14,800'  
 Cmt'd w/450 sx

FORMATION	TOP
Bell Canyon	4755
Cherry Canyon	5834
Brushy Canyon	8384
Bone Spring	8630
Wolfcamp	11754
Strawn	13094
Atoka	13284
Morrow	13753

Proposed:  
 3-1/2", IPC INJ TUBING

Proposed:  
 7" IPC Packer @ 4755'

TOC @ 5430' (TS-10/27/89)

Proposed:  
 Cap CIBP w/35' cement. PBTD @ 6000  
 Set CIBP @ 6035'

Proposed:  
 Spot 65 sx cement @ 8630. Tag TOC.  
 (Calc. TOC @ 8230)

CIBP @ 11480' w/35' cmt (5/19/11)

CIBP @ 13870' w/35' cmt (5/19/11)

Packer @ 14210' (cmt rpt 2/2/90)

1.78 type FSG blinkg plug in 1.781 F profile @ 14186' (3/21/90)

14790' PBTD

14,800' TD

**DEVON ENERGY PRODUCTION COMPANY LP**

Well Name: BILBREY 28A FEDERAL #1		Field: BILBREY	
Location: 1980' FSL & 1980' FWL; SEC 28-T21S-R32E		County: LEA	State: NM
Elevation: 3709' KB; 3683' GL; 26' KB to GL		Spud Date: 10/2/89	Compl Date: 2/2/90
API#: 30-025-30664	Prepared by: Ronnie Slack	Date: 1/18/12	Rev:

**CURRENT WELLBORE**

17-1/2" Hole

**13-3/8", 48#, H40, STC, @ 626'**

Cmt'd w/450 sx C, tail w/250 sx C (circ)

12-1/4" Hole

**9-5/8", 40#, K55, STC, @ 4,650'**

Cmt'd w/3400 sx, tail w/200 sx (circ)

Ran CBL from 9430. TOC @ 4360' (6/1/10)

Sqzd csg leak @ 5138-5154 w/250 sx (5/26/10)

TOC @ 5430' (TS-10/27/89)

2-7/8", 6.5#, L80 production tubing

TAC @ 8412

Rod Pump

SN @ 8703'

**DELAWARE** (6/1/10)

**8571' - 8611, 2 spf.**

acidized w/2000 gals 7 5% HCl, frac w/88K# sand

CIBP @ 11480' w/35' cmt (5/19/11)

**Top of 4-1/2" Liner @ 11,552'**

8-3/4" Hole

**7", 26# & 29#, P110 & S95, @ 12,097'**

Cmt'd w/1650 sx TOC @ 5430' by temp survey

CIBP @ 13870' w/35' cmt (5/19/11)

**MORROW** (3/23/90)

**13,902' - 13,912'**

Packer @ 14210' (cmtl rpt 2/2/90)

1.78 type FSG blkng plug in 1.781 F profile @ 14186' (3/21/90)

**MORROW** (2/2/90)

**14,279' - 14,498'**

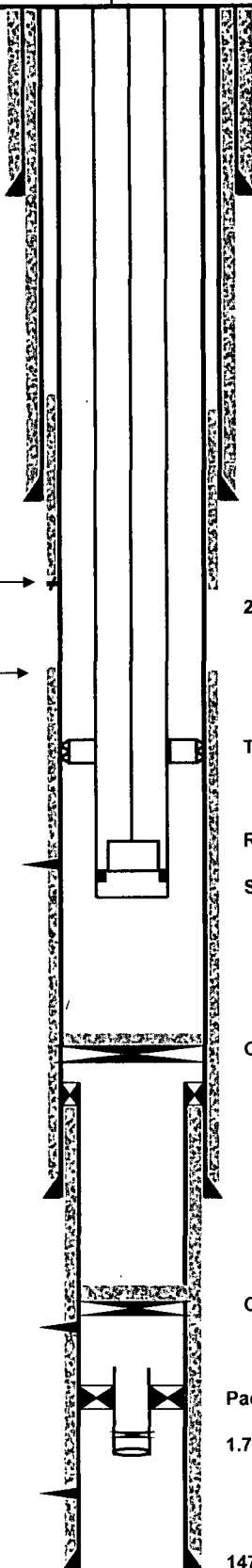
6" hole

**4-1/2", 13.5#, J95, LTC, @ from 11,552' to 14,800'**

Cmt'd w/450 sx

14790' PBDT

14,800' TD



# **Conditions of Approval**

**Devon Energy Production Company, LP**

**Bilbrey 28A Federal 1**

**API 3002530664**

May 31, 2012

1. **A new "Well Location and Acreage Dedication Plat" (NMOCD Form C-102) is required with the notice of intent package when changing formations.**
2. **Prior to initiating injection into this well, a right-of-way and individual well bond shall be in place with the BLM.**
3. Notify BLM 575-393-3612 before plug back procedures. The procedures are to be witnessed. Note the contact, time, & date in your subsequent report.
4. Surface disturbance beyond the existing pad must have prior approval.
5. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
6. H<sub>2</sub>S monitoring equipment to be used on location and functional.
7. A minimum of 5000(5M) BOPE is to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
8. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
9. **The provided CBL does not show cement to surface for three casing strings as required in R-111-P potash. Therefore, the operator shall propose and install an annulus monitoring system for the tubing/casing annulus and casing/casing annulus.**
10. **A fracture treatment will not be approved since this well is in R-111-P potash and close to the base of the salt.**
11. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
12. The BLM inspector is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test (with WOC time of 4 hours) as requested by BLM inspector.

13. Operator received approval on February 25, 2010 to perform a plug back of the Morrow to the Delaware formation. In that approval operator was instructed about several plugs that would be required at abandonment. Since the well is now being converted to a disposal well, those plugs shall be set prior to installing the plugs proposed in this sundry.
14. Operator shall drill out the CIBP at 11480'.
15. Plug required at the top of the Morrow – plug shall be 240' in length. Plug shall be a minimum of 25 sacks, Class H neat (15.6 ppg or 16.4 ppg depending on cement company). BLM inspector to confirm cement volume.
16. Plug required at 7" casing shoe. Plug shall be 220' in length and tagged at 12,000' or shallower. Plug shall be a minimum of 25 sacks, Class H neat (15.6 ppg or 16.4 ppg depending on cement company). BLM inspector to confirm cement volume and witness tag of plug.
17. Plug required across 4-1/2" liner top and Wolfcamp top. Plug shall be set from 11810' to 11450' and tagged at 11450' or shallower. Plug shall be a minimum of 25 sacks, Class H neat (15.6 ppg or 16.4 ppg depending on cement company). BLM inspector to confirm cement volume and witness tag of plug.
18. Operator Step 2: Modify to set from 8730' to 8230' to cover Bone Spring formation top also. Plug shall be Class H neat (15.6 ppg or 16.4 ppg depending on cement company) and tagged at 8500' or shallower.
19. Operator Step 3: Tag to verify PBTD.
20. After tagging the plug in step 3, perform a BLM inspector witnessed charted casing integrity test to 1000 psig. Pressure leakoff may require remediation prior to continuing the conversion work. Include a copy of the chart in the subsequent sundry for this workover.
21. File a subsequent sundry Form 3160-5 within 30 days of the plug back and acid treatment. Include an updated wellbore diagram.
22. An injection profile survey shall be submitted to BLM Carlsbad Field Office within a year of beginning injection.
23. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
24. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

PRS/WWI 053112

#### **Operations for a Well with an Inj Packer**

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.

- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. Phone 575-393-3612 or 575-631-5801. Note the contact, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
- 7) **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
- 8) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization. Approved injection pressure compliance is required. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
- 9) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 10) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 11) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of the annular fluid level at any time.
- 12) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.
- 13) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 14) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.

- 15) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0 psia. Notify the BLM's authorized officer ("Paul R. Swartz" <[pswartz@blm.gov](mailto:pswartz@blm.gov)>, cell phone 575-200-7902). If there is no response phone 575-393-3612.
- 16) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in-line tubing check valve below the packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.

NM Fed Regs & Forms - [http://www.blm.gov/nm/st/en/prog/energy/oil\\_and\\_gas.html](http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html)

#### Use of Form 3160-5 "Sundry Notices and Reports on Wells"

**§ 43 CFR 3162.3-2 Subsequent Well Operations.**

**§ 43 CFR 3160.0-9 (c)(1) Information collection.**

**§ 3162.4-1 (c) Well records and reports.**