

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No. 1004-0137
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 page 2

| | | |
|--|--|--|
| 1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 5. Lease Serial No. |
| 2. Name of Operator COG Operating, LLC | | 6. If Indian, Allottee or Tribe Name |
| 3a. Address 600 W. Illinois, Midland, TX 79701 | 3b. Phone No. (include area code) 432-686-3087 | 7. If Unit or CA/Agreement, Name and/or No. |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 E T, T17S, R30E 1345 FNL, 1260 FWL | | 8. Well Name and No. Burch Keely Unit 152 |
| | | 9. API Well No. 30-015-04393 |
| | | 10. Field and Pool, or Exploratory Area Grbg Jackson, SR Q Grbg SA |
| | | 11. County or Parish, 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 type="checkbox"/> Other _____ |
| | <input type="checkbox"/> Change Plans | <input checked="" 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.) 2530 2530-2400

1. Set CIBP @ 2560'. Circulate hole w/ mud laden fluid. Pressure test csg. Spot 25 sx @ 2560-2460'.
2. Perf & Sqz 45 sx @ 1100-1000'. WOC & Tag.
3. Perf & Sqz 45 sx @ 565-465'. WOC & Tag.
4. Perf & Sqz 125 sx @ 100-Surface.
5. Cut off well head, verify cmt @ 5 1/2 & 8 5/8 annulus, weld on Dry Hole Marker.

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 06 2017

ATTACHED FOR
COMMENTS OF APPROVAL

RECEIVED

LFC COAs Attached

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

| | |
|---|------------------------|
| Name (Printed Typed) <i>Brian Montgomery</i> | Title <i>Agent</i> |
| Signature <i>Brian Montgomery</i> | Date <i>1-14-17</i> |

Accepted for record
NM/OCD
R. L. B.

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

| | | |
|---|----------------------|-----------------------|
| Approved by <i>Chad Wells</i> | Title <i>Eng</i> | Date <i>2/1/17</i> |
| 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 <i>LFO</i> | |

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)

COG Operating, LLC

Lease & Well #

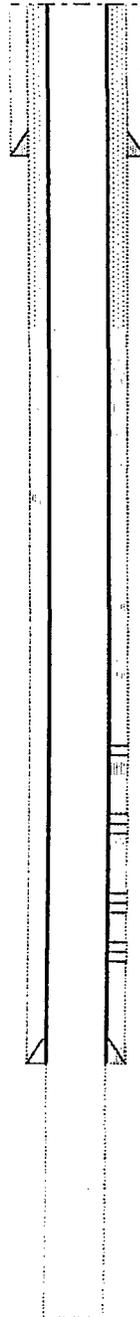
3001504393
 Spud date 10-18-49
 Completion date 12-14-49
 Elevation - 3609

Burch Keely Unit 152

Sec 30 E T 17S R 30E, 1345 FNL & 1260 FWL
 EDDY CO., NM

Calculated TOC @ 392'

Calculated TOC @ 1767'



12 1/4" hole

8 5/8" 24# @ 513, Cmt w/50 sx.

Casing cementing calculations

8 5/8" 28# 12.25" Surface hole

Cement volume = 50 X 1.32 CF/SK = 66 cu. Ft. slurry

66 - 25% slurry loss for shoe joint & hole loss = 50.0 CF

50 CF X ann. Vol. of 2.4229 FT/CF = 121'

513- 121 = 392' estimated (calculated) top of cement.

7" 23# @ 3161' 7 7/8" hole

Cement volume = 100 X 1.32 CF/SK = 132 cu.ft. slurry.

132 - 25% slurry loss for shoe joint & hole loss = 99 CF

99 CF X ann. Vol. of 14.0845 FT/CF = 1394'

3161 - 1394 = 1767' estimated (calculated) top of cement

Set 7" CIBP @ 2548' & TA'd well 4-9-82

Drilled out BP and returned well to production 7-10-96

Grayburg

Perf'd @ 2588-2596' w/ 16 holes.

Frac'd w/27,000 gals GBW & 20,000# 20/40. 6-74

Perf'd @ 2708'-2716' w/ 16 holes.

Frac'd w/ 3,000 gals GBW & 30,000# 20/40. 6-74

Perf'd @ 2915'-2919' w/8 holes. AV 3,500 gals. 6-74

Perf'd @ 2976'-2984' w/ 16 holes.

Frac'd w/ 10,000 gals GBW & 8,000E 20/40. 6-74

7" 23# csg @ 3161' w/ 100 sx.

Acidized OH w/ 7,000 gals 20%

F 15 BOPD 1-6-50

Perf'd @ 3242'-3316'.

Frac'd w/ 35,000 gals GW & 30,000# 20/40. 6-74

IP P 61 BO 2-5-54

Original TD @ 3316'

COG Operating, LLC

Lease & Well #

3001504393
 Spud date 10-18-49
 Completion date 12-14-49
 Elevation - 3609

Burch Keely Unit 152

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Grayburg

Perf'd @ 2580-2596' w/ 16 holes

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Perf'd @ 2700-2716' w/ 16 holes

Frac'd w/ 3,000 gals GBW & 30,000# 20/40. 6-74

Perf'd @ 2915-2919' w/ 8 holes. A/ 3,500 gals. 6-74

Perf'd @ 2970-2984' w/ 16 holes.

Frac'd w/ 10,000 gals GBW & 8,000E 20/40. 6-74

7" 23# csg @ 3161' w/ 100 sx.

Acidized OH w/ 7,000 gals 20%

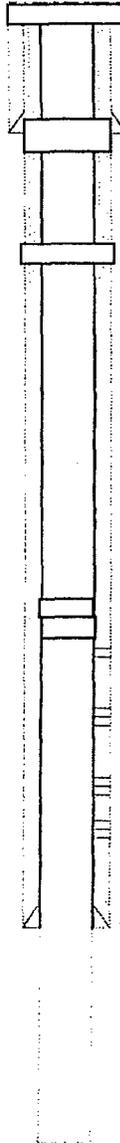
F 15 BOPD 1.6-50

Perf'd @ 3242-3316'

Frac'd w/ 35,000 gals GW & 30,000# 20/40. 6-74

IP P 61 DO 2.5-54

Original TD @ 3316'



4. Perf & Sqz 125 sx @ 100-Surface.

3. Perf & Sqz 45 sx @ 565-465'. WOC & Tag.

2. Perf & Sqz 45 sx @ 1100-1000'. WOC & Tag.

T/Salt 498
 T/MS 1116
 T/SA 2850

1. Set CIBP @ 2560'. Circulate hole w/ mud laden fluid. Pressure test csg.
 Spot 25 sx @ 2560-2460'

2530
 2530-2400

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Permanent Abandonment of Federal Wells
Conditions of Approval (LPC Habitat)**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted