

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM114349
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 550 WEST TEXAS AVENUE SUITE 1300 MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 575-748-6958		8. Well Name and No. JACK FEDERAL 1H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T25S R27E NWNW 330FNL 380FWL		9. API Well No. 30-015-38643-00-X1
		10. Field and Pool, or Exploratory HAY HOLLOW <i>W/cmp</i>
		11. County or Parish, and State EDDY COUNTY, NM

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

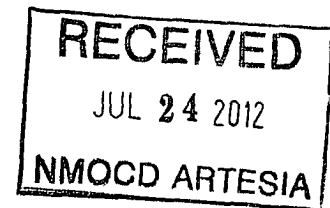
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> 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 checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 recompleat 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.)

COG OPERATING, LLC, RESPECTFULLY REQUESTS TO MAKE THE FOLLOWING CHGS TO THE ORIGINAL APD:

SEE ATTACHED DIRECTIONAL PLAN

Intermediate casing section:  
Drill 12-1/4" hole to 1900'  
Run 9-5/8" 36# J-55 STC csg to 1900'  
Cmt to surface in 1 stg with:  
Lead: 450 sx Class C + 4% Gel + 2% CaCl<sub>2</sub> @ 13.5 ppg/1.75 yield  
Tail: 250 sx Class C + 2% CaCl<sub>2</sub> @ 14.8/1.35 yield  
75% excess on OH



14. I hereby certify that the foregoing is true and correct. Electronic Submission #126904 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JAMES (JIM) HUGHES on 01/03/2012 (12JLH0275SE)	
Name (Printed/Typed) DEBORA WILBOURN	Title OPERATIONS ASSISTANT - NM
Signature (Electronic Submission)	Date 12/28/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>CHRISTOPHER WALLS</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>01/05/2011</u>
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 <u>Carlsbad</u>

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 \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #126904 that would not fit on the form**

**32. Additional remarks, continued**

7? casing section:

Drill an 8-3/4? PH to 10,500?

Run OH logs and Gyro

Plug back from 10,500? to 9300? with 2 plugs:

PHTD plug f/10,500?-9900?: 250 sx Class H @ 17.2ppg/0.98 yield

KO plug f/9900?-9300?: 250 sx Class H @ 17.2ppg/0.98 yield

See attached directional plan.

Kick off and drill curve to 9950? MD / 9792? TVD

Run 7? 29# P-110 LTC csg to 9950? MD

Cmt in 1 state with:

Lead: 850 sx 35:65:6 H + Salt + Gilsonite + CF + CFR-3 @ 12.7 ppg/1.89 yield

Tail: 250 sx Class H @ 16.4/1.1 yield

Minimum tie back to 200? into 9-5/8? csg shoe (designed to circ cmt to sfc)

35% excess on OH

4-1/2? liner section:

See attached directional plan.

Drill 6-1/8? lateral to 13,905? MD / 9860? TVD with 10.0 ? 14.0 ppg WBM system.

Run 4-1/2? 11.6# P-110 LTC and hang @ 9300?MD to 13,905? MD

Cmt to top of liner with:

Lead: 200 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4/1.25 yield

Tail: 350 sx 50:50:2 H + Salt + GasStop + Super CBL + CFR-3 @ 14.4/1.25 yield

Minimum tie back to TOL

35% excess on OH