

New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-5
(April 2004)

RECEIVED

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HOBBSSOLD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.	NMNM-105885
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA/Agreement, Name and/or No	N/A
8. Well Name and No.	Hercules Federal Com #2
9. API Well No.	30-005-29049
10. Field and Pool, or Exploratory Area	Wildcat, Wolfcamp; Southwest
11. County or Parish, State	Chaves, NM

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
2. Name of Operator	COG Operating LLC
3a. Address	550 W. Texas Ave., Suite 1300 Midland, TX 79701
3b. Phone No. (include area code)	432-685-4385
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	SHL: 660' FNL & 430' FWL Sec.15, T15S, R31E, Unit D BHL: 660' FNL & 330' FEL Sec.15, T15S, R31E, Unit A

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 Drilling Plan
	<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 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 permission to change the casing program to:

Type	Hole Size	Casing Type	Casing Weight/ft.	Setting Depth	Sacks of Cement	Est TOC
Surf	17.5	13.375	54.5	400	500	0
Int 1	12.25	9.625	40	4000	1300	0
Int 2	8.75	7	26	8000	1200	0
Prod	6.125	4.5	11.6	13039	0	0

COG proposes to drill 17-1/2" hole to 400' w/ fresh water mud system, wt. 8.5, vis 28, set 13-3/8" casing & cement to surf. Drill an 12.25" hole to 4000' w/ brine mud system, wt 10, vis 30, set 9-5/8" casing & cement to surf. Drill 8-3/4" hole to 8000' w/ cut brine mud system, wt 8.7, vis 29-32. Set 7" prod casing @ +/- 8000'. Drill 6-1/8" pilot hole thru Top Lower Abo to +/- 9000', run open hole logs. Spot +/- 250sxs C. Kick off plug from +/- 9000' to +/- 8000'. Drill 6-1/8" hole & kick off @ +/- 8300', building curve over +/- 450' horizontal section in a Easterly direction for +/- 4539' lateral to TD @ +/- 13039' MD, 8750' TVD. Run 4-1/2" prod liner in un-cemented open hole lateral & set isolation packers & liner top packer @ +/- 7900' MD.

COG respectfully requests permission for 100' liner overlap (reduced from 200' rule) to set pump as deep as possible.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Robyn M. Odom

Title Regulatory Analyst

Signature

Date

04/13/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	/S/ DAVID R. GLASS	Title	PETROLEUM ENGINEER	Date	MAY 11 2010
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			
		ROSWELL FIELD OFFICE			

Title 18 USC Section 1001 and Title 43 USC States any false, fictitious or fraudulent statement

(Instructions on page 2)

Note: For Closed Loop Systems In View Of Potential H2S Presence, The Flare Line(S) Discharge Shall Be Located Not Less Than 150 Feet From The Wellhead, Having Straight Lines Unless Turns Are Targeted With Running Tees, And Shall Be Positioned Downwind From The Prevailing Wind Direction And Shall Be Anchored.

any department or agency of the United States

PETROLEUM ENGINEER
JUN - 8 2010