

RECEIVED**OCD-HOBBS**Form 3160-5
(April 2004)

MAY 22 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**HOBBS****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.

NMLC-029405B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

GC Federal #5

9. API Well No.

30-025-36999

10. Field and Pool, or Exploratory Area

Maljamar: Yeso, West 44500

11. County or Parish, State

LEA, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ 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)

432-685-4340

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2210' FSL & 330' FWL
SEC. 19, T17S, R32E, Unit L**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

- ☐
- Notice of Intent
-
- ☒
- Subsequent Report
-
- ☐
- Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other method of water disposal |
| <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 recompleate 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 recompleation 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.)

Producing Formation: Maljamar; Yeso West
Amount Produced: 37 BWPD
Water stored in 500 bbl Water Tank

Water is transported by 3" SDR 11 Polypipe to COG's 6" trunk line, then into the 8" line to:

Operator: COG Operating LLC
Facility Name: Pronghorn SWD 1 (API # 30-025-32735)
Well Location: NE/4 NW/4 Sec 24, T19S, R32E, Unit B
330 FNL & 1650 FEL
Lea Co., NM

ACCEPTED FOR RECORDMAY 19 2008
/s/ JD Whitlock JrBUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

Diane Kuykendall

Title Regulatory Analyst

Signature

Date

04/01/2008

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

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)



Water Analysis Report

Company:	COG Operating LLC	Sample #:	7004
Area:	Artesia	Analysis ID #:	237
Lease:	GC FEDERAL		
Location:	5		3002536999
Sample Point:	Wellhead		

Sampling Date: 3/6/07 Analysis Date: 3/9/07 Analyst: Mitchell Labs TDS (mg/l or g/m3): 182225 Density (g/cm3): 1.127 Hydrogen Sulfide: 180 Carbon Dioxide: 40 Comments:	Anions <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: right;">mg/l</td> <td style="text-align: right;">meq/l</td> </tr> <tr> <td>Chloride:</td> <td style="text-align: right;">108319.0</td> <td style="text-align: right;">3055.28</td> </tr> <tr> <td>Bicarbonate:</td> <td style="text-align: right;">457.0</td> <td style="text-align: right;">7.49</td> </tr> <tr> <td>Carbonate:</td> <td></td> <td></td> </tr> <tr> <td>Sulfate:</td> <td style="text-align: right;">2800.0</td> <td style="text-align: right;">58.3</td> </tr> </table> pH at time of sampling: 6.5 pH at time of analysis pH used in Calculation: 6.5 Temperature @ lab conditions (F): 78		mg/l	meq/l	Chloride:	108319.0	3055.28	Bicarbonate:	457.0	7.49	Carbonate:			Sulfate:	2800.0	58.3	Cations <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: right;">mg/l</td> <td style="text-align: right;">meq/l</td> </tr> <tr> <td>Sodium:</td> <td style="text-align: right;">67139.1</td> <td style="text-align: right;">2920.39</td> </tr> <tr> <td>Magnesium:</td> <td style="text-align: right;">790.1</td> <td style="text-align: right;">65.</td> </tr> <tr> <td>Calcium:</td> <td style="text-align: right;">2718.0</td> <td style="text-align: right;">135.63</td> </tr> <tr> <td>Strontium:</td> <td></td> <td></td> </tr> <tr> <td>Barium:</td> <td></td> <td></td> </tr> <tr> <td>Iron:</td> <td style="text-align: right;">1.5</td> <td style="text-align: right;">0.05</td> </tr> <tr> <td>Manganese:</td> <td style="text-align: right;">0.260</td> <td style="text-align: right;">0.01</td> </tr> </table> Conductivity (micro-ohms/cm): 215400 Resistivity (ohm meter): .0464		mg/l	meq/l	Sodium:	67139.1	2920.39	Magnesium:	790.1	65.	Calcium:	2718.0	135.63	Strontium:			Barium:			Iron:	1.5	0.05	Manganese:	0.260	0.01
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Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp		Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F											
80		0.37	22.04	-0.16	0.00	-0.14	0.00	0.00	0.00	0.00	0.00
100		0.45	27.62	-0.24	0.00	-0.15	0.00	0.00	0.00	0.00	0.00
120		0.53	33.20	-0.30	0.00	-0.14	0.00	0.00	0.00	0.00	0.00
140		0.61	39.37	-0.38	0.00	-0.10	0.00	0.00	0.00	0.00	0.00