

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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

**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  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator **COG Operating LLC**

3a. Address  
**550 W. Texas Ave., Suite 1300 Midland, TX 79701**

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

**1775' FSL & 2310' FWL  
SEC. 19, T17S, R32E, UNIT K**

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 #4**

9. API Well No.  
**30-025-35935**

10. Field and Pool, or Exploratory Area  
**Maljamar: Yeso, West 44500**

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 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 checked="" 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 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 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.)

Producing Formation: **Maljamar; Yeso West**  
Amount Produced: **9 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 RECORD**

**MAY 19 2008**  
**/s/ JD Whitlock Jr**

**BUREAU 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 #:	10121
Area:	Artesia	Analysis ID #:	828
Lease:	GC FEDERAL		
Location:	4	3002535935	
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	4/22/08	Chloride:	103113.3	Sodium:	41004.5
Analysis Date:	4/28/08	Bicarbonate:	513.2	Magnesium:	2854.8
Analyst:	Mitchell	Carbonate:		Calcium:	18178.4
TDS (mg/l or g/m3):	166085.9	Sulfate:	420.0	Strontium:	
Density (g/cm3):	1.115			Barium:	
Hydrogen Sulfide:				Iron:	1.1
Carbon Dioxide:	30			Manganese:	0.630
Comments:		pH at time of sampling:	6		
		pH at time of analysis:			
		pH used in Calculation:	6		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	171900
				Resistivity (ohm meter):	.0582

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Anhydrite CaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Barite BaSO <sub>4</sub>	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.55	48.92	-0.29	0.00	-0.29	0.00	0.00	0.00	0.00	0.00
100	0.63	55.18	-0.34	0.00	-0.27	0.00	0.00	0.00	0.00	0.00
120	0.71	61.15	-0.38	0.00	-0.23	0.00	0.00	0.00	0.00	0.00
140	0.80	67.12	-0.41	0.00	-0.17	0.00	0.00	0.00	0.00	0.00