


 UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

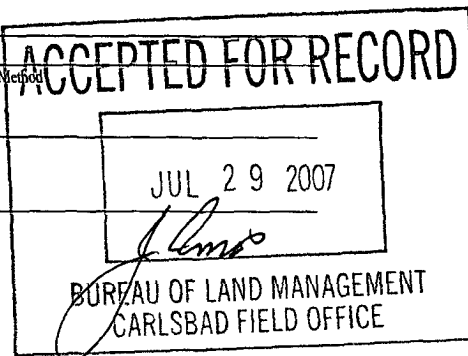
## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCD-ARTESIA

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

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No <b>NM-2933</b>			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff Resvr, Other _____						6. If Indian, Allottee or Tribe Name ---			
2. Name of Operator <b>COG Operating LLC</b>						7. Unit or CA Agreement Name and No. ---			
3. Address <b>550 W. Texas, Suite 1300, Midland, TX 79701</b>				3a. Phone No. (include area code) <b>432-685-4340</b>		8. Lease Name and Well No. <b>Caddo Federal #2</b>			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>330' FNL &amp; 2310' FEL, Unit B</b>  At top prod. interval reported below  At total depth						9. AFI Well No. <b>30-015-35245</b>			
10. Field and Pool, or Exploratory <b>Loco Hills; Glorieta Yeso 96718</b>						11. Sec, T., R., M., on Block and Survey or Area <b>Sec 17, T17S, R30E</b>			
12. County or Parish <b>Eddy</b>						13. State <b>NM</b>			
14. Date Spudded <b>03/27/2007</b>		15. Date TD Reached <b>04/09/2007</b>		16. Date Completed <b>05/02/2007</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* <b>3677' GL</b>			
18. Total Depth MD <b>6030'</b> TVD		19. Plug Back T.D.: MD <b>6013'</b> TVD		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CN / HNGS, Micro CFL / HNGS</b>						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48		427		475 sx Cl C		Surface	
12-1/4	8-5/8	24		1333		800 sx Cl C		Surface	
7-7/8	5-1/2	17		6023		1560 sx Cl C		Surface	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8	5730								
25. Producing Intervals									
Formation		Top	Bottom	26. Perforation Record		Size	No. Holes	Perf. Status	
A) Yeso				4861' - 5172'		2 SPF	74	Open	
B) Yeso				5278' - 5381'		2 SPF	46	Open	
C) Yeso				5520' - 5702'		2 SPF	46	Open	
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
4861' - 5172'		Az w/2500 gals acid. Frac w/ 93,274 gals gel, 8032# LiteProp & 91,360# 16/30 sand.							
5278' - 5381'		Az w/1475 gals acid. Frac w/ 8,006 gals gel, 8000# LiteProp & 81,980# 16/30 sand.							
5520' - 5702'		Az w/1375 gals acid. Frac w/ 82,467 gals gel, 8000# LiteProp & 80,095# 16/30 sand.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/07/2007	05/09/2007	24	→	160	560	360	41.0		Pumping
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					Producing	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Yates	1201				
7 Rivers	1491				
Queen	2100				
Grayburg	2505				
San Andres	2809				
Glorieta	4243				
Yeso	4322				

## 32. Additional remarks (include plugging procedure):

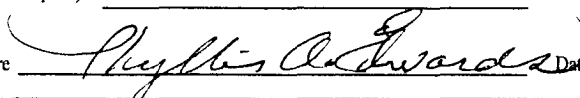
## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)   
 ☐ Geologic Report   
 ☐ DST Report   
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification   
 ☐ Core Analysis   
☒ Other:

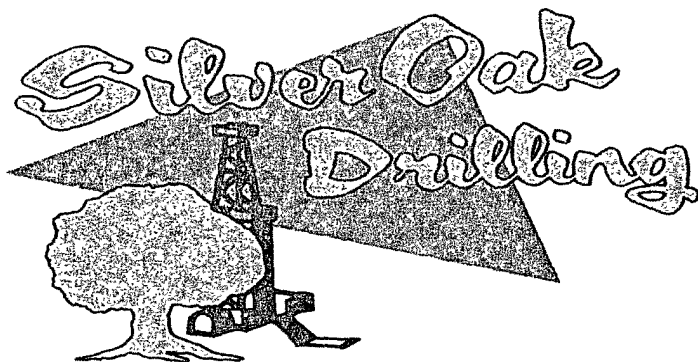
## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Phyllis A. EdwardsTitle Regulatory Analyst

Signature


Date 05/21/2007

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.



PO Box 1370  
Artesia, NM 88211-1370  
(505) 748-1288

April 11, 2007

COG, LLC  
Fasken Center, Tower II  
550 West Texas Ave, Suite 1300  
Midland, TX 79701

RE: Caddo Federal #2  
990' FNL & 990' FEL  
Sec. 17, T17S, R30E  
Eddy County, New Mexico

Dear Sir,

The following is the Deviation Survey for the above captioned well.

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
247'	1/2°	2759'	1 1/4°
390'	3/4°	2949'	1°
613'	3/4°	3498'	1 1/4°
915'	1 1/4°	3775'	1°
1231'	2°	4283'	1°
1327'	1 3/4°	4736'	1°
1640'	1 1/2°	5196'	1 1/2°
1965'	1 1/2°	5586'	1 1/2°
2251'	3/4°	6030'	1/2°

Very truly yours,

Eddie C. LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 11<sup>th</sup> day of April, 2007.

  
Notary Public