OCD-ARTESIA

Month - Year
FEB 16 2007
OCD - ARTESIA, NM

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr,.
Other

5. Lease Serial No. **NM-074935**
6. If Indian, Allottee or Tribe Name ---
7. Unit or CA Agreement Name and No. ---
8. Lease Name and Well No. **Electra Federal #8**
9. AFI Well No. **30-015-34719**
10. Field and Pool, or Exploratory **Loco Hills Glor Emp Yeso**
11. Sec., T., R., M., on Block and Survey or Area **Sec 15, T17S, R30E**
12. County or Parish **Eddy**
13. State **NM**

2. Name of Operator **COG Operating LLC**
3. Address **550 W. Texas, Suite 1300, Midland, TX 79701**
3a. Phone No. *(include area code)* **432-685-4340**
4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface **330' FNL & 2310' FWL, Unit C**
At top prod. interval reported below
At total depth

14. Date Spudded **11/16/2006**
15. Date T.D. Reached **11/30/2006**
16. Date Completed **12/22/2006** ☐ D & A ☑ Ready to Prod.
17. Elevations (DF, RKB, RT, GL)* **3694' GL**

18. Total Depth: MD **6075'** TVD
19. Plug Back T.D.: MD **6054'** TVD
20. Depth Bridge Plug Set: MD **None** TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CN / HNGS, Micro CFL / HNGS

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☑ No ☐ 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		444		447 sx Cl C		Surface	
12-1/4	8-5/8	24		1388		500 sx Cl C		Surface	
7-7/8	5-1/2	17		6054		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	5876							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			4924.5' - 5116'	2 SPF	44	Open
B) Yeso			5201' - 5532.5'	2 SPF	66	Open
C) Yeso			5638' - 5866.5'	2 SPF	58	Open
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
4924.5' - 5116'	See Attachment
5201' - 5532.5'	See Attachment
5638' - 5866.5'	See Attachment

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
12/24/2006	01/02/2007	24		74	117	276	37.2		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)

ACCEPTED FOR RECORD
FEB 14 2007
FREDERICK WRIGHT
PETROLEUM ENGINEER

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	**1301**				
7 Rivers	**1573**				
Queen	**2181**				
Grayburg	**2607**				
San Andres	**2910**				
Glorieta	**4351**				
Yeso	**4464**				

32. Additional remarks (include plugging procedure):

33. Indicate which itmes 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. Edwards** Title **Regulatory Analyst**

Signature *Phyllis A. Edwards* Date **01/29/2007**

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

December 6, 2006

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

RE: Electra Federal #8
330' FNL & 2310' FWL
Sec. 15, T17S, R30E
Eddy County, New Mexico

Dear Sir,

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

DEPTH	DEVIATION	DEPTH	DEVIATION
223'	1/4°	3756'	1 3/4°
622'	1/2°	4200'	1/2°
1062'	1°	4409'	1/2°
1521'	1/2°	4595'	1°
1947'	1°	5035'	1/2°
2413'	1°	5473'	3/4°
2880'	1/2°	5938'	3/4°
3318'	1/2°		

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 6th day of December, 2006.

Regina L. Garner
Notary Public

OFFICIAL SEAL
REGINIA L. GARNER
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires Aug. 30, 2008

ELECTRA FEDERAL #8
API#: 30-015-34719
EDDY, NM

C-105 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4924.5' - 5116'	Acidize w/ 2500 gals acid.
	Frac w/ 100,400 gals gel, 8388# LiteProp,
	& 84,388# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5201' – 5532.5'	Acidize w/ 2500 gals acid.
	Frac w/100,000 gals gel, 8000# LiteProp,
	& 88,500# 16/30 white sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5638' – 5866.5'	Acidize w/ 1800 gals acid.
	Frac w/88,500 gals gel, 8044# LiteProp,
	& 93,400# 16/30 white sand.