Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Month - Year
FEB 26 2007
OCD - ARTESIA, NM

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **LC-054280**

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr,.
Other

6. If Indian, Allottee or Tribe Name ---

7. Unit or CA Agreement Name and No. ---

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

8. Lease Name and Well No. **McIntyre A East #19**

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

3a. Phone No. *(include area code)* **432-685-4340**

9. AFI Well No. **30-015-34806**

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface **675' FSL & 1120' FEL, Unit P**

At top prod. interval reported below

At total depth **996' FSL & 970' FEL, Unit P**

10. Field and Pool, or Exploratory **Loco Hills; Glorieta Yeso**

11. Sec., T., R., M., on Block and Survey or Area **Sec 20, T17S, R30E**

12. County or Parish **Eddy**

13. State **NM**

14. Date Spudded **11/06/2006**

15. Date T.D. Reached **11/24/2006**

16. Date Completed **01/06/2007** ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3627' GL**

18. Total Depth: MD **7120'** TVD

19. Plug Back T.D.: MD **6840'** TVD

20. Depth Bridge Plug Set: MD 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		440		980 sx Cl C		Surface	
12-1/4	8-5/8	24		1201		700 sx Cl C		Surface	
7-7/8	5-1/2	17		7112		1970 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	6688'							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			5876' - 6019'	2 SPF	70	Open
B) Yeso			6120.5' - 6330'	2 SPF	54	Open
C) Yeso			6462.5' - 6656.5'	2 SPF	68	Open
D) Abo	6868' -	6955' and	7057' - 7086'	2 SPF	20 and 14	Plg CIBP @ 7010 & 6840

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

Depth Interval	Amount and Type of Material
5876' - 6019'	See Attachment
6120.5' - 6330'	See Attachment
6462.5' - 6656.5'	See Attachment
6868' - 7086'	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
01/12/2007	02/01/2007	24		39	182	150	38.2		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)

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
Queen	**2223**				
Grayburg	**2648**				
San Andres	**3000**				
Glorieta	**4474**				
Yeso	**4548**				

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 **02/20/2007**

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.

McINTYRE A EAST #19
API#: 30-015-34806
EDDY, NM

C-105 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5876' - 6019'	Acidize w/ 2500 gals acid.
	Frac w/ 105,524 gals gel, 8327# LiteProp,
	& 86,872# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6120.5' – 6330'	Acidize w/ 2500 gals acid.
	Frac w/97,415 gals gel, 8133# LiteProp,
	& 87,867# 16/30 white sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6462.5' – 6656.5'	Acidize w/ 2500 gals acid.
	Frac w/90,266 gals gel, 8531# LiteProp,
	& 83,568# 16/30 white sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6868' – 6955'	Acidize w/ 1500 gals acid.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7057' – 7086'	Acidize w/ 1500 gals acid.