

## OCD-ARTESIA

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

5	Lease Serial No	LC-029338B
6	If Indian, Allottee or Tribe Name	---
7	Unit or CA Agreement Name and No.	---
8	Lease Name and Well No.	Harvard Federal #7
9	API Well No.	30-015-35055
10	Field and Pool, or Exploratory	Loco Hills Empire Yeso
11	Sec., T., R., M., on Block and Survey or Area	Sec 12, T17S, R30E
12	County or Parish	Eddy
13	State	NM
17	Elevations (DF, RKB, RT, GL)*	3756' GL

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

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 **1090' FNL & 330' FWL, Unit D**

At top prod. interval reported below

At total depth **991' FNL & 346' FWL, Unit D**14. Date Spudded  
**10/12/2006**15. Date T.D. Reached  
**10/31/2006**16. Date Completed **11/18/2006**  
☐ D & A ☒ Ready to Prod.18. Total Depth: MD **6235'**  
TVD19. Plug Back T.D.: MD **6214'**  
TVD20. Depth Bridge Plug Set: MD **None**  
TVD

21. Type Electric &amp; 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 Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48		425		928 sx Cl C		Surface	
12-1/4	8-5/8	24		1584		800 sx Cl C		Surface	
7-7/8	5-1/2	17		6227		1590 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	5646							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			5037.5' - 5335.5'	2 SPF	56	Open
B) Yeso			5427' - 5629.5'	2 SPF	56	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
5037.5' - 5335.5'	Acidize w/ 3000 gals acid
5427' - 5629.5'	Acidize w/ 3000 gals acid
	Frac w/ 94,453 gals gel, 8017# LiteProp, 90,200 # 16/30 sand

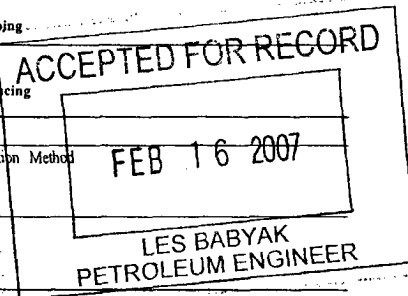
28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method*
11/21/2006	11/25/2006	24	→	137	166	372	0.0		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
Queen	2364				
Grayburg	2772				
San Andres	3095				
Glorieta	4546				
Yeso	4606				
Tubb	6012				

## 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)\*

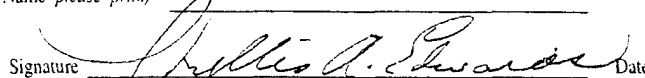
Name (please print)

Phyllis A. Edwards

Title

Regulatory Analyst

Signature



Date

01/15/2007

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.