

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 24 2009

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

RM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
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 _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			8. Lease Name and Well No. HARVARD FED 12		
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701			9. API Well No 30-015-35961-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 11 T17S R30E Mer NMP At surface NENE 700FNL 700FEL At top prod interval reported below Sec 11 T17S R30E Mer NMP At total depth NENE 330FNL 330FEL			10. Field and Pool, or Exploratory LOCO HILLS		
14. Date Spudded 11/23/2008			15. Date T.D. Reached 12/02/2008		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod 01/01/2009			17. Elevations (DF, KB, RT, GL)* 3745 GL		
18. Total Depth. MD 6086 TVD			19. Plug Back T.D.: MD 6040 TVD		
20. Depth Bridge Plug Set: MD TVD			21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATEDNEWT CCL		
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 analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)					

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	417		475		0	
11.000	8.625 J-55	32.0	0	1325		600		0	
7.875	5.500 J-55	17.0	0	6085	1244	1200		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5569							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA YESO			5060 TO 5260	0.410	36	OPEN
B) YESO	5600	5800	5330 TO 5530	0.410	36	OPEN
C)			5600 TO 5800	0.410	48	OPEN
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5060 TO 5260	ACIDIZE W/ 60 BBLs 15% ACID. FRAC W/ 3980 BBLs SILVERSTIM
5330 TO 5530	ACIDIZE W/ 60 BBLs 15% ACID. FRAC W/ 3570 BBLs SILVERSTIM
5600 TO 5800	ACIDIZE W/ 60 BBLs 15% ACID. FRAC W/ 1584 BBLs SILVERSTIM

28. Production - Interval A

Date First Produced 01/04/2009	Test Date 01/14/2009	Hours Tested 24	Test Production →	Oil BBL 93.0	Gas MCF 61.0	Water BBL 465.0	Oil Gravity Corr API 36.4	Gas Gravity	Production Method ACCEPTED FOR RECORD ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL 93	Gas MCF 61	Water BBL 465	Gas Oil Ratio 656	Well Status POW	
28a Production - Interval B									
Date First Produced 01/04/2009	Test Date 01/14/2009	Hours Tested 24	Test Production →	Oil BBL 93.0	Gas MCF 61.0	Water BBL 465.0	Oil Gravity Corr API 36.4	Gas Gravity 0.60	Production Method ACCEPTED FOR RECORD ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL 93	Gas MCF 61	Water BBL 465	Gas Oil Ratio 656	Well Status POW	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #67404 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

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.)
CAPTURED**
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 QUEEN SAN ANDRES GLORIETA YESO	1435 2345 3081 4558 4638		DOLOMITE AND SAND SAND DOLOMITE AND ANHYDRITE SAND AND DOLOMITE DOLOMITE AND ANHYDRITE		

32. Additional remarks (include plugging procedure)
33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

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

**Electronic Submission #67404 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 02/19/2009 (09KMS0871SE)**

Name (please print) PHYLLIS A EDWARDS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 02/19/2009

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****