

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN - 2 2009

Amended KM

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

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						5. Lease Serial No NMLC029338B			
b. Type of Completion <input 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 COG OPERATING LLC						8. Lease Name and Well No. HARVARD FEDERAL 8			
3. Address 550 W TEXAS, STE 1300 FASKEN TOWER II MIDLAND, TX 79701						9. API Well No 30-015-35130-00-S2			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 990FNL 690FEL At top prod interval reported below At total depth						10. Field and Pool, or Exploratory GRAYBURG JACKSON SR-G-GRBG-SA			
14. Date Spudded 01/21/2007						15. Date T.D. Reached 02/07/2007		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/31/2008	
18. Total Depth: MD 6115 TVD 6115						19. Plug Back T.D.: MD 6098 TVD 6098		20. Depth Bridge Plug Set MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL MICROLO COMPENSATED NEUT						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 Sks. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17.500	13.375	48.0	0	418		448		0	
12.250	8.625 K-55	24.0	0	1390		1180		0	
7.875	5.500 L80	17.0	0	6112		1620		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	5967								
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status		
A) SAN ANDRES	3490	3690	3490 TO 3690		0.410	36	OPEN - CIBP @ 3737		
B)			3760 TO 4230		0.410	72	CLOSED - CIBP @ 4582		
C)			4300 TO 4488		0.410	34	CLOSED		
D)			5025 TO 5991		0.410	154	CLOSED		
27. Acid, Fracture, Treatment, Cement Squeeze, Etc									
Depth Interval		Amount and Type of Material							
3490 TO 3690		ACIDIZE W/2700 GALS 15% ACID.							
3490 TO 3690		FRAC W/51,867 GALS GEL, 66,240# 16/30 BROWN SAND							
3760 TO 4230		ACIDIZE W/3500 GALS 15% ACID							
3760 TO 4230		FRAC W/61,126 GALS GEL, 89,990# 16/30 BRWON 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	
08/02/2008	11/12/2008	24	→	27.0	1.0	758.0	39.8	0.60	
Choke Size	Thg. Press Flwg SI	Csg. Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70.0	→	27	1	758		POW	
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	Thg. 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 reverse side)

ELECTRONIC SUBMISSION #69946 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

ACCEPTED FOR RECORD
MAY 31 2009
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
ELECTRIC PUMPING UNIT

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 Flowg 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 Flowg 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 SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETA YESO	1436 1736 2332 2733 3058 4520 5025	5991		YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETA YESO	1436 1736 2332 2733 3058 4520 4576

32. Additional remarks (include plugging procedure):

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

4030-4230 ACIDIZE W/3500 GALS 15% ACID.

4030-4230 FRAC W/57,104 GALS GEL, 74,500# 16/30 brady SAND,14,570# 16/30 brown sand.

4300-4488 ACIDIZE W/3500 GALS 15% ACID.

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 #69946 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 05/14/2009 (09KMS1360SE)**

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature _____ (Electronic Submission)

Date 05/13/2009

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 ****

Additional data for transaction #69946 that would not fit on the form

32. Additional remarks, continued

4300-4488 FRAC W/ 62,318 GALS GEL, 73,950# 16/30 brady SAND, 20,360# 16/30 brwon sand.

Recompletion to the SA. Will eventually DHC with Yeso. DHC - 4038