

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 04 2010

HOBBSDO

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMLC029509B

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 JC FEDERAL 20	
3. Address 550 W TEXAS AVE SUITE 1300 MIDLAND, TX 79701		9. API Well No. 30-025-39087-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 22 T17S R32E Mer NMP NWSW 2310FSL 990FWL 32.81908 N Lat, 103.75911 W Lon		10. Field and Pool, or Exploratory MALJAMAR, Yeso, West 44500	
At top prod interval reported below Sec 22 T17S R32E Mer NMP		11. Sec., T., R., M., or Block and Survey or Area Sec 22 T17S R32E Mer NMP	
At total depth NWSW 2310FSL 990FWL 32.81908 N Lat, 103.75911 W Lon		12. County or Parish LEA	
14. Date Spudded 03/12/2010		13. State NM	
15. Date T.D. Reached 03/21/2010		17. Elevations (DF, KB, RT, GL)* 4007 GL	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/14/2010			
18. Total Depth: MD 7048 TVD 7048		19. Plug Back T.D.: MD 6995 TVD 6995	
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATEDNEUT		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 J55	48.0	0	800		650		0	0
11.000	8.625 J55	32.0	0	2126		600		0	0
7.875	5.500 L80	17.0	0	7048		1100		0	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	6777							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) YESO			5477 TO 5620	0.000	23	OPEN
B) PADDOCK	5477	5620	6060 TO 6260	0.000	26	OPEN
C) BLINEBRY	6600	6800	6330 TO 6530	0.000	26	OPEN
D)			6600 TO 6800	0.000	26	OPEN

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

Depth Interval	Amount and Type of Material
5477 TO 5620	ACIDIZE W/2,500 GALS 15% ACID
5477 TO 5620	FRAC W/115,502 GALS GEL, 136,467# 20/40 OTTAWA SAND, 30,610# 16/30 SUPER LC
6060 TO 6260	ACIDIZE W/3,500 GALS 15% ACID
6060 TO 6260	FRAC W/ 116,103 GALS GEL, 146,647# 20/40 OTTAWA SAND, 34,475# 16/30 SUPER-LC

## 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
05/14/2010	05/15/2010	24	→	40.0	201.0	590.0	38.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70.0	→	40	201	590	5025	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
05/14/2010	05/15/2010	24	→	40.0	201.0	590.0	38.0	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	70	70.0	→	40	201	590		POW	

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

ELECTRONIC SUBMISSION #86768 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

ACCEPTED FOR RECORD

ELECTRIC PUMPING UNIT

MAY 29 2010

BUREAU OF LAND MANAGEMENT  
ELECTRIC PUMPING UNIT  
CARLSBAD FIELD OFFICE

PETROLEUM ENGINEER

AUG 04 2010

R.M.

## 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 QUEEN SAN ANDRES GLORIETTA YESO TUBB	2137 3087 3858 5368 5472 6891		DOLOMITE & SAND SAND DOLOMITE & ANHYDRITE SAND & DOLOMITE DOLOMITE & ANHYDRITE		

## 32. Additional remarks (include plugging procedure).

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

6330 - 6530 ACIDIZE W/3,500 GALS 15% ACID.

6330 - 6530 Frac w/ 112,713 gals gel, 151,794# 20/40 Ottawa sand, 28,960# 16/30 Super LC

6600 - 6800 ACIDIZE W/3,500 GALS 15% ACID.

6600 - 6800 FRAC W/113,328 gals gel, 144,225# 20/40 Ottawa sand, 34,960# 16/30 Super LC.

## 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 #86768 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by KURT SIMMONS on 05/25/2010 (10KMS0519SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 05/20/2010

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 #86768 that would not fit on the form**

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

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
6330 TO 6530	gal 15% acid
6330 TO 6530	gal gel, 151794# 20/40 Ottawa sand, 28960# 16/30 Super LC
6600 TO 6800	gal 15% acid
6600 TO 6800	gal gel, 144225# 20/40 Ottawa sand, 34960# 16/30 Super LC