

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM94594

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. DOGWOOD FEDERAL 4		
3. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701			9. API Well No. 30-015-39467-00-S1		
3a. Phone No. (include area code) Ph: 432-818-2319			10. Field and Pool, or Exploratory RED LAKE		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENW 2310FNL 2275FWL 32.805887 N Lat, 104.232913 W Lon At top prod interval reported below SENW 2310FNL 2275FWL 32.805887 N Lat, 104.232913 W Lon At total depth SENW 2310FNL 2275FWL 32.805887 N Lat, 104.232913 W Lon			11. Sec, T, R., M., or Block and Survey or Area Sec 25 T17S R27E Mer NMP		
14. Date Spudded 10/26/2011		15. Date T.D. Reached 11/01/2011	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/28/2011		17. Elevations (DF, KB, RT, GL)* 3562 GL
18. Total Depth: MD 4773 TVD 4773		19. Plug Back T.D.: MD 4716 TVD 4716		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPNEUTRONHNGS 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 Sks & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	397		400		0	
11.000	8.625 J-55	24.0	0	1025		400		0	
7.875	5.500 J-55	17.0	0	4763		900			

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	4406							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	3705	4490	3705 TO 3368	0.410	26	OPEN, Upper Blinbry
B)			3980 TO 4205	0.410	26	OPEN, Middle Blinbry
C)			4265 TO 4490	0.410	26	OPEN, Lower Blinbry
D)						

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

Depth Interval	Amount and Type of Material
3368 TO 3705	ACIDIZED W/2500 GALS 10% HCL
3368 TO 3705	FRAC W/114,293 GALS GEL, 145,076# 16/30 WHITE SAND, 27,247# 16/30 CRC
3980 TO 4205	ACIDIZED W/2500 GALS 10% HCL
3980 TO 4205	FRAC W/121,109 GALS GEL, 151,353# 16/30 WHITE SAND, 39,976# 16/30 CRC

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
12/02/2011	12/05/2011	24	→	68.0	89.0	484.0	41.7	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	
N/A	70	70.0	→	68	89	484	1309	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	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 reverse side)

ELECTRONIC SUBMISSION #130164 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

RECEIVED  
FEB 29 2012

RECLAMATION  
DUE 5-28-12

ACCEPTED FOR RECORD

FEB 19 2012

## 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	193		DOLOMITE & SAND	YATES	193
QUEEN	953		SANDSTONE & DOLOMITE	QUEEN	953
GRAYBURG	1392		SANDSTONE & DOLOMITE	GRAYBURG	1392
SAN ANDRES	1732		DOLOMITE & LIMESTONE	SAN ANDRES	1732
GLORIETA	3096		SANDSTONE	GLORIETA	3096
YESO	3137		SAND & DOLOMITE	YESO	3137
TUBB	4599		DOLOMITE & SANDSTONE	TUBB	4599

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

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

4265 - 4490 Acidized w/2500 gals 10% HCL.

4265 - 4490 Frac w/119,041 gals gel, 147,856# 16/30 White sand,

33,372# 16/30 CRC

LOGS WILL BE MAILED

## 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 #130164 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by JAMES (JIM) HUGHES on 02/08/2012 (12JLH0418SE)

Name (please print) NETHA AARON

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 02/06/2012

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 \*\*