

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
OCD Hobbs
JAN 25 2010
HOBBS

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

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			7 Unit or CA Agreement Name and No		
2. Name of Operator COG OPERATING LLC			8 Lease Name and Well No MC FEDERAL 27		
3. Address 550 W TEXAS AVE SUITE 1300 MIDLAND, TX 79701			9 API Well No 30-025-38996-00-S1		
4 Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 21 T17S R32E Mer NMP At surface SENE 2460FNL 330FEL 32.82048 N Lat, 103.76341 W Lon At top prod interval reported below Sec 21 T17S R32E Mer NMP At total depth SENE 2460FNL 330FEL 32.82048 N Lat, 103.76341 W Lon			10 Field and Pool, or Exploratory MALJAMAR		
14 Date Spudded 11/03/2009			15. Date T.D. Reached 11/14/2009		
16. Date Completed D & A <input type="checkbox"/> 12/09/2009 <input checked="" type="checkbox"/> Ready to Prod			17. Elevations (DF, KB, RT, GL)* 4023 GL		
18. Total Depth: MD 7012 TVD 7012			19. Plug Back T.D.: MD 6960 TVD 6960		
20 Depth Bridge Plug Set: MD TVD			21 Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL		
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 H40	48.0	0	807		650		0	0
11.000	8.625 J55	32.0	0	2147		600		0	0
7.875	5.500 L80	17.0	0	7002		1200		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	6192		2.875	6531				

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO			5160 TO 5270		36	open
B) PADDOCK	5464	5610	5464 TO 5610	0.000	21	OPEN
C) BLINEBRY	6010	6750	5720 TO 5920		36	open
D)			5990 TO 6190		36	open

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

Depth Interval	Amount and Type of Material
5160 TO 5270	ACIDIZE W/3,000 GALS 15% ACID
5160 TO 5270	FRAC W/100,151 GALS GEL, 95,860# 16/30 OTTAWA SAND, 9,759# 16/30 SIBERPROP
5464 TO 5610	ACIDIZE W/4,000 GALS 15% ACID
5464 TO 5610	FRAC W/100,267 GALS GEL, 92,925# 16/30 WHITE SAND, 12,805# 16/30 SIBERPROP

28. Production - Interval A

Date First Produced 12/13/2009	Test Date 12/13/2009	Hours Tested 24	Test Production →	Oil BBL 104.0	Gas MCF 75.0	Water BBL 604.0	Oil Gravity Corr API 40.0	Gas Gravity 0.60	Production Method ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI 70	Csg Press 70.0	24 Hr Rate →	Oil BBL 104	Gas MCF 75	Water BBL 604	Gas Oil Ratio 721	Well Status - POW	

28a. Production - Interval B

Date First Produced 12/13/2009	Test Date 12/13/2009	Hours Tested 24	Test Production →	Oil BBL 104.0	Gas MCF 75.0	Water BBL 604.0	Oil Gravity Corr API 40.0	Gas Gravity 0.60	Production Method ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI 70	Csg Press 70.0	24 Hr Rate →	Oil BBL 104	Gas MCF 75	Water BBL 604	Gas Oil Ratio	Well Status POW	

ACCEPTED FOR RECORD
JAN 21 2010
/s/ Chris Walls
BUREAU OF LAND MANAGEMENT
ELECTRIC PUMPING UNIT
CARTERSVILLE FIELD OFFICE

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

ELECTRONIC SUBMISSION #79751 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)
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	2141 3094 3861 5340 5459 6884		DOLOMITE & SAND SAND DOLOMITE & ANHYDRITE SAND & DOLOMITE DOLOMITE & ANHYDRITE SAND		

32. Additional remarks (include plugging procedure)

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

6280-6480 ACIDIZE W/3,500 GALS 15% ACID.

6280-6480 FRAC W/ 124,074 GALS GEL, 141,591# 16/30 WHITE SAND, 30,512# 16/30 SIBERPROP.

6550-6750 Acidize w/2,500 gals acid.

6550-6750 Frac w/ 123,857 gals gel, 142,769# 16/30 WHITE SAND, 29,475# 16/30 SIBERPROP.

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 #79751 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by KURT SIMMONS on 01/08/2010 (10KMS0167SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 01/07/2010

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 **

Additional data for transaction #79751 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
6010 TO 6210	0.000	26	OPEN
6280 TO 6480	0.000	26	OPEN
6410 TO 6610		24	open
6550 TO 6750	0.000	26	OPEN

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

Depth Interval	Amount and Type of Material
5720 TO 5920	FRAC W/ 124,935 GALS GEL, 146,603# 16/30 OTTAWA SAND, 31,398# 16/30 SIBERPROP.
5720 TO 5920	ACIDIZE W/3,500 GALS 15% ACID.
5990 TO 6190	ACIDIZE W/3,500 GALS 15% ACID.
5990 TO 6190	Frac W/ 125,116 gals gel, 148,044# 16/30 Ottawa Sand, 32,756# 16/30 Siberprop.
6010 TO 6210	FRAC W/ 124,986 GALS GEL, 146,022# 16/30 WHITE SAND, 29,701# 16/30 SUPER LC.
6010 TO 6210	ACIDIZE W/3,500 GALS 15% ACID.
6260 TO 6460	FRAC W/125,040 gals gel, 147,471# 16/30 Ottawa sand, 31,234# 16/30 Siberprop.
6260 TO 6460	ACIDIZE W/3,500 GALS 15% ACID.

32. Additional remarks, continued