

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO 1004-0137  
Expires March 31, 2007

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other

b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr, Other \_\_\_\_\_

2 Name of Operator **COG Operating LLC**

3 Address **550 W. Texas, Ste. 1300  
Midland, Texas 79701** 3a Phone No (include area code) **432-685-4332**

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface **2460 FSL & 2210 FEL, Unit J Sec 21, 17S,32E**  
At top prod interval reported below  
At total depth

5 Lease Serial No **NMLC-029509A**

6 If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

8 Lease Name and Well No **MC Federal #11**

9 AFI Well No **30-025-38387**

10 Field and Pool, or Exploratory **Maljamar; Paddock 44500**

11 Sec, T, R, M, on Block and Survey or Area **Sec 22, T17S, R32E**

12 County or Parish **Lea** 13 State **NM**

14 Date Spudded **07/03/2007** 15 Date T D Reached **07/15/2007** 16 Date Completed **08/09/2007**  
☐ D & A ☒ Ready to Prod

17 Elevations (DF, RKB, RT, GL)\* **4049' GL**

18. Total Depth MD **7015** 19 Plug Back T D MD **6996** 20 Depth Bridge Plug Set MD  
TVD TVD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**CN / HNGS, Micro CFL / HNGS**

22 Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

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 1/2	13 3/8	54.5		<del>6817</del> 817		980		Surface	Circ 300
12 1/4	8 5/8	32		2142		900		Surface	Circ 153
7 7/8	5 1/2	17		7009		1848		Surface	Circ 144

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 7/8	6875							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Paddock			5981 - 6104	0.41	34	Open
B) Paddock			6206 - 6527	0.41	62	Open
C)			6627 - 6854	0.41	52	Open
D)						

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

Depth Interval	Amount and Type of Material
5981 - 6104	Acidize w/ 2000 gals acid. Frac w/ 98,658 gals gel, 96,680# 16/30 sand, 8,000# Lite Prop 14/30 sand.
6206 - 6527	Acidize w/ 2500 gals acid. Frac w/ 91,018 gals gel, 88,500# 16/30 sand, 8,000# Lite Prop 14/30 sand.
6627 - 6854	Acidize w/ 1750 gals acid. Frac w/ 103,543 gals gel, 89,800# 16/30 sand, 8,000# Lite Prop 14/30 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	Production Method
08/11/2007	08/13/2007	24	→	103	100	380	36.3		Pumping
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	Producing
			→						

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	Producing
			→						

(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

AUG 23 2007

JERRY FANT  
PETROLEUM GEOLOGIST

## 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 7 Rivers Queen Grayburg San Andres Glorieta Yeso		2156 2514 3126 3492 3867 5378 5472			

## 32 Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)    ☐ Geologic Report    ☐ DST Report    ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification    ☐ Core Analysis    ☐ Other:

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

Name (please print) Kanicia CarrilloTitle Regulatory AnalystSignature Date 08/20/2007

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.

REFERENCE SHEET FOR  
UNDESIGNATED WELLS

	Fm	Pm	N	Pc
17-21 W	XX	XX		XX

paragraph

1. Date:	9/10/2007
2. Type of Well.	
Oil:	XX Gas.
3. County:	LEA

4. Operator	>> COG OPERATING LLC			API NUMBER	30 - 025 - 38387
5. Address of Operator	>> 550 W TEXAS AVE, STE 1300				
	>> MIDLAND, TX 79701				
6. Lease name or Unit Agreement Name	>> MC FEDERAL			7. Well Number	# - 11
8. Well Location	Unit Letter	J	2460	feet from the	S
	Section	21	Township	17S	Range
				line and	2210
				feet from the	E
				line	
9. Completion Date	8/9/2007	11. Perts	Top	Bottom	ID
			5981	6854	7105
10. Name of Producing Formation(s)	YESO	12. Open Hole Casing shoe	Bottom		PBTD
					6996
13. C-123 Filed	Date	15. Name of Pool Requested or temporary Wildcat designation	Pool ID num		
Y	N	XX	MALJAMAR;YESO		
16. Remarks	EXTEND				

TO BE COMPLETED BY DISTRICT GEOLOGIST		
17. Action taken	18. Pool Name	Pool ID num
EXTEND	MALJAMAR;YESO	97608
<p>T 17 S, R 32 E</p> <p>SEC 21: E/2</p>		

19. Advertised for HEARING	20. Case Number
21. Name of pool for which was advertised	Pool ID num
MALJAMAR;YESO	97608
22. Placed in Pool	23. By order number
	R-