

RECEIVED

SEP 02 2009
OCD HOBBS
HOBBSOCDFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

3a. Phone No. (include area code)
Ph: 432-685-4332

3. Address
550 WEST TEXAS AVE STE 1300
MIDLAND, TX 79701

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Lot M 490FSL 510FWL 32.81408 N Lat, 103.76067 W Lon Unit - M ✓
At top prod interval reported below Lot M 490FSL 510FWL 32.81408 N Lat, 103.76067 W Lon
At total depth Lot M 490FSL 510FWL 32.81408 N Lat, 103.76067 W Lon

5. Lease Serial No
NMLC029509B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No

8. Lease Name and Well No
JC FEDERAL 31

9. API Well No
30-025-39169

10. Field and Pool, or Exploratory
MALJAMAR; YESO West ✓

11. Sec., T., R., M., or Block and Survey
or Area Sec 22 T17S R32E Mer ✓

12. County or Parish
LEA

13. State
NM

14. Date Spudded
07/08/2009

15. Date T.D. Reached
07/22/2009

16. Date Completed
☐ D & A ☒ Ready to Prod.
08/10/2009

17. Elevations (DF, KB, RT, GL)*
4040 GL

18. Total Depth
MD
TVD 7135

19. Plug Back T.D.
MD
TVD 7054

20. Depth Bridge Plug Set:
MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATED NEUTRON

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☒ No ☐ 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	835		700		0	0
11.000	8.625 J55	32.0	0	1940		700		0	0
7.875	5.500 L80	17.0	0	7121		1300		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	6567							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	5554	5690	5554 TO 5690	0.410	36	OPEN
B) BLINEBRY	6040	6240	6040 TO 6240	0.410	36	OPEN
C) BLINEBRY	6320	6520	6320 TO 6520	0.410	36	OPEN
D) BLINEBRY	6590	6790	6590 TO 6790	0.410	36	OPEN

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

Depth Interval	Amount and Type of Material
5554 TO 5690	ACIDIZE W/57 BBL 15% ACID.
5554 TO 5690	FRAC W/ 108508 GALS GEL, 114753# 16/30 OTTAWA SAND, 13932# 16/30 SIBERPROP
6040 TO 6240	ACIDIZE W/2500 GALS 15% ACID.
6040 TO 6240	FRAC W/124965# 16/30 OTTAWA SAND, 29950# 16/30 SIBERPROP.

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
08/22/2009	08/22/2009	24	→	198.0	87.0	479.0	37.5	0.60
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	→					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
			→					
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 #73692 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

ACCEPTED FOR RECORD
SEP 1 2009
/s/ Chris Walls
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 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 GLORIETA YESO	2187		DOLOMITE & SAND	DOLOMITE & SAND	2187
	3158		SAND	SAND	3158
	3925		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	3925
	5479		SAND & DOLOMITE	SAND & DOLOMITE	5479
	5572		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	5572

32. Additional remarks (include plugging procedure):
Logs will be mailed.

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

6320-6520 ACIDIZE W/2,500 GALS 15% ACID

6320-6520 FRAC W/124973 GALS GEL, 148683# 16/30 OTTAWA SAND, 29940# SIBERPROP.

6590-6790 ACIDIZE W/2,500 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 #73692 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 08/26/2009

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Additional data for transaction #73692 that would not fit on the form

32. Additional remarks, continued

6590-6790 FRAC W/ 124231 GALS GEL, 150288# 16/30 OTTAWA SAND, 28425# SIBERPROP.