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Form 3160-4
(August 2007)

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. NMLC029509B

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2 Name of Operator: COG OPERATING LLC
Contact: KANICIA CARRILLO
E-Mail: kcarrillo@conchoresources.com

8. Lease Name and Well No.: JC FEDERAL 27

3. Address: 550 W TEXAS AVE SUITE 1300, MIDLAND, TX 79701
3a Phone No. (include area code): Ph: 432-685-4332

9. API Well No: 30-025-39247-00-S1

4 Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 22 T17S R32E Mer NMP
At surface: SWSW 1240FSL 990FWL 32.84490 N Lat, 103.97108 W Lon
At top prod interval reported below
At total depth

10. Field and Pool, or Exploratory: MALJAMAR

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

12. County or Parish: LEA
13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, KB, RT, GL)*
04/07/2010	04/19/2010	☐ D & A ☒ Ready to Prod. 05/13/2010	4030 GL

18. Total Depth.	MD 7040 TVD 7040	19. Plug Back T.D.:	MD 6955 TVD 6955	20. Depth Bridge Plug Set:	MD TVD

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

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48 0	0	815		650		0	
11.000	8.625 J-55	32 0	0	2130		600		0	
7.875	5.500 L-80	17.0	0	7009		1150		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	6655							

25. Producing Intervals / 26 Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	YESO			5482 TO 5610	0.000	22	OPEN
B)	PADDOCK	5482	5610	6130 TO 6330	0.000	26	OPEN
C)	BLINEBRY	6670	6870	6400 TO 6600	0.000	26	OPEN
D)				6670 TO 6870	0.000	26	OPEN

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

Depth Interval	Amount and Type of Material
5482 TO 5610	FRAC W/107,989 GALS GEL, 109,252# 16/30 OTTAWA SAND, 17,729# 16/30 SIBERPROP SAND.
5482 TO 5610	ACIDIZE W/2,500 GALS 15% ACID
6130 TO 6330	ACIDIZE W/2,500 GALS 15% ACID
6130 TO 6330	FRAC W/ 135,329 GALS GEL, 139,163# 16/30 OTTAWA SAND, 30,870# 16/30 SIBERPROP 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
05/26/2010	06/04/2010	24	→	133 0	137.0	514.0	37 5		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	→	133	137	514	1030	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
05/26/2010	06/04/2010	24	→	133 0	137 0	514.0	37 5	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	→	133	137	514		POW	

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

ELECTRONIC SUBMISSION #88712 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

ACCEPTED FOR RECORD
JUL 4 2010
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
PETROLEUM ENGINEER

JUL 15 2010

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	2167		DOLOMITE & SAND		
QUEEN	3125		SAND		
SAN ANDRES	3921		DOLOMITE & ANHYDRITE		
GLORIETTA	5408		SAND & DOLOMITE		
YESO	5472		DOLOMITE & ANHYDRITE		

32 Additional remarks (include plugging procedure):
Acid, Fracture, Treatment, Cement Squeeze etc. continued...

6400 - 6600 ACIDIZE W/2,500 GALS 15% ACID.
6400 - 6600 Frac w/ 125,271 gals gel, 144,659# 16/30 Ottawa sand, 28,918# 16/30 Siberprop sand.

6670 - 6870 ACIDIZE W/2,500 GALS 15% ACID
6670 - 6870 FRAC W/124,752 gals gel, 141,132# 16/30 Ottawa sand, 30,278# 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 #88712 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by KURT SIMMONS on 06/29/2010 (10KMS0606SE)

Name *(please print)* KANICIA CARRILLO Title PREPARER

Signature (Electronic Submission) Date 06/29/2010

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 fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #88712 that would not fit on the form

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

Depth Interval	Amount and Type of Material
6400 TO 6600	gal 15% acid
6400 TO 6600	gal gel, 144659# 16/30 Ottawa sand, 28918# 16/30 Siberprop sand
6670 TO 6870	gal gel, 141132# 16/30 Ottawa sand, 30278# 16/30 Siberprop sand
6670 TO 6870	gal 15% acid

32. Additional remarks, continued

sand.