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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. NMLC029405A

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: ROBYN ODOM

8. Lease Name and Well No. BC FEDERAL 23 ✓

3. Address 550 W TEXAS AVE SUITE 1300 MIDLAND, TX 79701

3a. Phone No. (include area code) Ph: 432.686.4385

9. API Well No. 30-025-38742-00-S1 ✓

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SENE 2230FNL 330FEL ✓ Sec 19 T17S R32E Mer NMP
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 19 T17S R32E Mer NMP

12. County or Parish LEA ✓

13. State NM ✓

14. Date Spudded 10/03/2008

15. Date T.D. Reached 10/14/2008

16. Date Completed ☐ D & A ☒ Ready to Prod. 11/07/2008

17. Elevations (DF, KB, RT, GL)* 3955 GL

18. Total Depth: MD 6944 TVD

19. Plug Back T.D.: MD 6944 TVD

20. Depth Bridge Plug Set: MD TVD

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

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	658		600		0	
11.000	8.625 J-55	32.0	0	2198		700		0	
7.875	5.500 L-80	17.0	0	6925	4010	1175		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	5695							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	5800	6610	5800 TO 6000		36	OPEN
B)			6100 TO 6300		36	OPEN
C)			6410 TO 6610		48	OPEN
D)						

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

Depth Interval	Amount and Type of Material
5800 TO 6000	ACIDIZE W/60 BBLS ACID.
5800 TO 6000	FRAC W/3299 BBLS GEL, 197860# SAND.
6100 TO 6300	ACIDIZE W/60 BBLS ACID.
6100 TO 6300	FRAC W/2784 BBLS GEL, 168886# 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
11/07/2008	11/09/2008	24	→	33 0	104.0	583 0	38.6	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	→	33	104	583		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
			→					

ACCEPTED FOR RECORD
DEC 14 2008
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #65533 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.)*
CAPTURED

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	1987		DOLOMITE & SAND		
QUEEN	2967		SAND		
SAN ANDRES	3721		DOLOMITE & ANHYDRITE		
YESO	5302		DOLOMITE & ANHYDRITE		
TUBB	6780		SAND		

32. Additional remarks (include plugging procedure):
6410 - 6610 Acidize w/60 bbls acid.
6410 - 6610 Frac w/2760 bbls gel, 180599# sand.

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 #65533 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by KURT SIMMONS on 12/12/2008 (09KMS0249SE)

Name *(please print)* ROBYN ODOM Title AGENT

Signature (Electronic Submission) Date 12/12/2008

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 #65533 that would not fit on the form

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

Depth Interval	Amount and Type of Material
6410 TO 6610	FRAC W/2760 BBLS GEL, 180599# SAND.
6410 TO 6610	ACIDIZE W/60 BBLS ACID