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Form 3160-4
(August 2007)

NOV 10 2009

HOBBSOCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NMLC029405B	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr Other		6. If Indian, Allottee or Tribe Name	
2. Name of Operator COG OPERATING LLC		7. Unit or CA Agreement Name and No.	
3. Address 550 W TEXAS AVE SUITE 1300 MIDLAND, TX 79701		8. Lease Name and Well No. GC FEDERAL 31	
3a. Phone No (include area code) Ph 432-685-4332		9. API Well No. 30-025-39266-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements) Sec 20 T17S R32E Mer NMP At surface SWSE 525FSL 1960FWL 32 81430 N Lat, 103 79082 W Lon At top prod interval reported below At total depth		10. Field and Pool, or Exploratory MALJAMAR YES West	
14. Date Spudded 09/26/2009		15. Date T.D. Reached 10/07/2009	
16. Date Completed ☐ D & A ☒ Ready to Prod. 10/27/2009		17. Elevations (DF, KB, RT, GL)* 3957 GL	
18. Total Depth MD TVD 7123		19. Plug Back T.D. MD TVD 7055	
20. Depth Bridge Plug Set MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUT.	
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
12.250	8 625 J55	24.0	0	392		375		0	
17.500	13 375	48.0	0	675		550		0	0
11.000	8.625	32.0	0	2126		700		0	0
7.875	5.500 J55	17.0	0	3617		750		0	0
7.875	5.500	17.0	0	7113		1100		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	6508							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) YESO			5350 TO 5486	0.000	18	OPEN
B) PADDOCK	5350	5486	6020 TO 6220	0.000	26	OPEN
C) BLINEBRY	6560	6760	6290 TO 6490	0.000	26	OPEN
D)			6560 TO 6760	0.000	29	OPEN

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

Depth Interval	Amount and Type of Material
5350 TO 5486	ACIDIZE W/3,000 GALS 10% ACID
5350 TO 5486	FRAC W/100,449 GALS GEL, 104,900# 16/30 BASF SAND, 26,600# 16/30 SUPER LC SAND
6020 TO 6220	ACIDIZE W/3,500 GALS ACID
6020 TO 6220	FRAC W/116,161 GALS GEL, 146,300# 16/30 BASF SAND, 32,200# 16/30 SUPER LC 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
10/31/2009	10/31/2009	24	→	65.0	80.0	487.0	38.6		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		→	65	80	487		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	
			→						

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

ELECTRONIC SUBMISSION #77206 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

ACCEPTED FOR RECORD
NOV 16 2009
Is/ Chris Walls
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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	Thg. 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	Thg. 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	2028		DOLOMITE & SAND		
QUEEN	3010		SAND		
SAN ANDRES	3779		DOLOMITE & ANHYDRITE		
GLORIETTA	5269		SAND & DOLOMITE		
YESO	5338		DOLOMITE & ANHYDRITE		
TUBB	6865		SAND		

32. Additional remarks (include plugging procedure)

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

6290-6490 Acidize w/ 3,500 acid.

6290-6490 Frac w/ 115,110 gals gel, 147,820# 16/30 BASF sand, 30,730# 16/30 Super LC sand.

6560-6760 Acidize w/ 3,500 acid.

6560-6760 Frac w/ 115,518 gals gel, 145,400# 16/30 BASF sand, 33,090# 16/30 Super LC 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. Thereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #77206 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by KURT SIMMONS on 11/12/2009 (10KMS0090SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 11/11/2009

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.

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