

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Lease Serial No
NMLC029405B

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Drill Reservoir		7. Unit or CA Agreement Name and No.	
2. Name of Operator COG OPERATING LLC		8. Lease Name and Well No GC FEDERAL 32	
3. Address 550 W TEXAS AVE SUITE 1300 MIDLAND, TX 79701		9. API Well No 30-025-39270-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements) Sec 20 T17S R32E Mer N1/4P At surface SWSE 485FSL 2065FEL 32 814 19 N Lat, 103 78632 W Lon. At top prod interval reported below Sec 20 T17S R32E Mer NMP At total depth SWSE 330FSL 1650FEL		10. Field and Pool, or Exploratory MALJAMAR	
14. Date Spudded 09/22/2009		15. Date TD Reached 10/03/2009	
16. Date Completed ☐ D & A ☒ Ready to Prod		17. Elevations (DF, KB, RT, GL)* 3978 GL	
18. Total Depth MD 7136 TVD 7114		19. Plug Back TD MD 7021 TVD 6999	
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
17.500	13 375 H40	48.0	0	675		550		0	0
11.000	8 625 J55	32.0	0	2107		700		0	0
7.875	5 500 L80	17.0	0	7123		1000		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	6569		2.875	6569				

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	5424	6810	5424 TO 5530	0.000	18	OPEN
B)			5424 TO 5530		18	
C)			6070 TO 6270	0.000	25	OPEN
D)			6070 TO 6270		25	

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

Depth Interval	Amount and Type of Material
5424 TO 5530	ACIDIZE W/3,000 GALS 15% ACID
5424 TO 5530	FRAC W/ 102 701 GALS GEL, 102,373# 16/30 OTTAWA SAND, 10,535# 16/30 SIBERPROP
5424 TO 5530	gal
5424 TO 5530	gals gel, 102,373# 16/30 white sand, 10,535# 16/30 siberprop.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas ACF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
11/01/2009	11/09/2009	24	→	27.0	2.0	535.0	39.4	0.60	ELECTRIC PUMPING UNIT
Choke Size	Thg Press (Wg)	Csg Press	24 Hr Rate	Oil BBL	Gas ACF	Water BBL	Cross Oil Ratio	Well Status	
	70	70 C	→	27	2	535	74	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas ACF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Thg Press (Wg)	Csg Press	24 Hr Rate	Oil BBL	Gas ACF	Water BBL	Cross Oil Ratio	Well Status	
			→						

APPROVED

DEC 21 2009

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #78790 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 BBL	Water BBL	Oil/Gas Ratio BBL	Gas Gravity	Production Method
Choke Size	Thg. Press. (Hwy. SI)	Csg. Press.	24 Hr. Rate	Oil BBL	Gas BBL	Water BBL	Oil/Gas Ratio	Well Status	

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas BBL	Water BBL	Oil/Gas Ratio BBL	Gas Gravity	Production Method
Choke Size	Thg. Press. (Hwy. SI)	Csg. Press.	24 Hr. Rate	Oil BBL	Gas BBL	Water BBL	Oil/Gas Ratio	Well Status	

29 Disposition of Gas/Sol used for fuel verified on 1 SOLD

30 Summary of Porous Zones (Incl. Aquifers)

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time total open, flowing and shut-in pressures, and recoveries.

31 Formation (Log) Markers

Formation	Top-	Bottom-	Description- Contents, etc	Name	Top Meas. Depth
YATES QUEEN SAN ANDRES GLORIETTA YESO TUBB	2067 3056 3818 5349 5416 6945		DOLOMITE & SAND SAND DOLOMITE & ANHYDRITE SAND & DOLOMITE DOLOMITE & ANHYDRITE SAND		

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

6340-6540 ACIDIZE W/2,500 GALS 15% ACID
6340-6540 FRAC W/126,844 GALS GEL, 152,650# 16/30 Ottawa SAND, 30,329# 16/30 Siberprop
6610-6810 ACIDIZE W/ 500 GALS 15% ACID
6610-6810 FRAC W/126,360 GALS GEL, 149,139# 16/30 Ottawa SAND, 32,514# 16/30 Siberprop

33 Circle enclosed attachments

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (if 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 #78790 Verified by the BLM Well Information System.

For LOG OPERATING LLC, sent to the Hobbs

Committed to AFMIS for processing by KURT SIMMONS on 12/14/2009 (10KMS0143SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 12/14/2009

Title 18 U.S.C. Section 1001 and Title 45 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 a matter within its jurisdiction.

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

Additional data for transaction #78790 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	Nb. Holes	Perf Status
6340 TO 6540		25	
6340 TO 6540	0 000	25	OPEN
6610 TO 6810		27	
6610 TO 6810	0 000	27	OPEN

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

Depth Interval	Amount and Type of Material
6070 TO 6270	ACIDIZE W/2,500 GALS 15% ACID
6070 TO 6270	gals gel, 146,452# 16/30 white sand 30,634# 16/30 siberprop
6070 TO 6270	FRAC W/124,902 GALS GEL, 146,452# 15/30 OTTAWA SAND 30,634# 16/30 SIBERPROP
6070 TO 6270	gal
6340 TO 6540	gal
6340 TO 6540	gals gel, 152,650# 16/30 white sand 30,329# 16/30 siberprop
6610 TO 6810	gals gel, 149,139# 16/30 white sand 32,514# 16/30 siberprop
6610 TO 6810	gal

32. Additional remarks, continued