

HOBBS OCD  
AUG 20 2013

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

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM0315712

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. BRANEX-COG FEDERAL 12

9. API Well No. 30-025-40979-00-S1

10. Field and Pool, or Exploratory MALJAMAR

11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R32E Mer NMP

12. County or Parish LEA 13. State NM

14. Date Spudded 03/04/2013 15. Date T.D. Reached 03/13/2013 16. Date Completed 04/11/2013  D & A  Ready to Prod.

17. Elevations (DF, KB, RT, GL)\* 4072 GL

18. Total Depth: MD 7003 TVD 7003 19. Plug Back T.D.: MD 6940 TVD 6940 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	48.0	0	961		850		0	
11.000	8.625 J-55	32.0	0	2282		775		0	
7.875	5.500 L-80	17.0	0	7003		1200		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		5659						

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	6520	6720	5500 TO 5780		26	OPEN
B)			5920 TO 6120		26	OPEN
C)			6220 TO 6420		26	OPEN
D)			6520 TO 6720		26	OPEN

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

Depth Interval	Amount and Type of Material
5500 TO 5780	ACIDIZE W/2,000 GALS 15% ACID. FRAC W/108,558 GALS GEL, 109,350# 16/30 WHITE SAND, 18,558# SIBERPROP
5920 TO 6120	ACIDIZE W/2,000 GALS 15% ACID. FRAC W/133,843 GALS GEL, 146,152# 16/30 WHITE SAND, 30,493# SIBERPROP
6220 TO 6420	ACIDIZE W/2,000 GALS 15% ACID. FRAC W/133,125 GALS GEL, 146,537# 16/30 WHITE SAND, 29,437# SIBERPROP
6520 TO 6720	ACIDIZE W/2,000 GALS 15% ACID. FRAC W/142,575 GALS GEL, 150,056# 16/30 WHITE SAND, 28,710# 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	Production Method
04/13/2013	05/03/2013	24	→	51.0	47.0	474.0	38.1	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 75.0	24 Hr. Rate →	Oil BBL 51	Gas MCF 47	Water BBL 474	Gas:Oil Ratio 922	Well Status 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	

RECORDED FOR RECORD  
AUG 17 2013  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

(See Instructions and spaces for additional data on reverse side)  
ELECTRONIC SUBMISSION #216729 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* BLM REVISED \*\*

KZ

NOV 12 2013  
RECLAMATION  
DUE 10-11-13

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
RUSTLER	896	2066	ANHYDRITE SALT SANDSTONE SANDSTONE & DOLOMITE SANDSTONE & DOLOMITE SANDSTONE DOLOMITE & ANHYDRITE SAND	RUSTLER	896
SALADO	1269			TOP OF SALT	1269
YATES	2228			YATES	2228
QUEEN	3215			QUEEN	3215
SAN ANDRES	3942			SAN ANDRES	3942
GLORIETTA	5445			GLORIETTA	5445
YESO	5498			YESO	5498
TUBB	6862			TUBB	6862

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

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 #216729 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by JOHNNY DICKERSON on 08/15/2013 (13JLD0566SE)**

Name (please print) ROBYN M ODOM Title PERSON RESPONSIBLE

Signature \_\_\_\_\_ (Electronic Submission) Date 08/12/2013

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.