

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMLC029338B1a. 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 ☐ Diff. Resvr.
Other _____

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLCContact: CHASITY JACKSON
E-Mail: cjackson@conchoresources.com8. Lease Name and Well No.
HARVARD FEDERAL 173. Address 550 WEST TEXAS AVENUE SUITE 1300
MIDLAND, TX 797013a. Phone No. (include area code)
Ph: 432-686-30879. API Well No.
30-015-38505-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 12 T17S R30E Mer NMP
NWNW 710FNL 550FWL10. Field and Pool, or Exploratory
LOCO HILLS GLORIETA-YESOAt top prod interval reported below
Sec 12 T17S R30E Mer NMP
At total depth NWNW 384FNL 377FWL11. Sec., T., R., M., or Block and Survey
or Area Sec 12 T17S R30E Mer NMP12. County or Parish
EDDY13. State
NM14. Date Spudded
05/29/201115. Date T.D. Reached
06/06/201116. Date Completed
☐ D & A ☒ Ready to Prod.
06/30/201117. Elevations (DF, KB, RT, GL)*
3763 GL18. Total Depth: MD 6255
TVD 625519. Plug Back T.D.: MD 6162
TVD 616220. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
N OTH22. 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 H-40	48.0	0	362		950		0	
11.000	8.625 J-55	24.0	0	1432		500		0	
7.875	5.500 J-55	17.0	0	6242		1100		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	5660							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4660	4935	4660 TO 4935	0.410	26	OPEN, Paddock
B) BLINEBRY	5700	5900	5100 TO 5300	0.410	26	OPEN, Upper Blinebry
C)			5370 TO 5594	0.410	29	OPEN, Middle Blinebry
D)			5700 TO 5900	0.410	26	OPEN, Lower Blinebry

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

Depth Interval	Amount and Type of Material
4660 TO 4935	ACIDIZE W/3,000 GALS 15% ACID
4660 TO 4935	FRAC W/107,000 GALS GEL, 121,062# 16/30 WHITE SAND, 21,301# 16/30 SIBERPROP.
5100 TO 5300	ACIDIZE W/2,500 GALS 15% ACID.
5100 TO 5300	FRAC W/114,000 GALS GEL, 148,099# 16/30 WHITE SAND, 30,671# 16/30 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
07/05/2011	07/05/2011	24	→	102.0	187.0	38.0	37.7	
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status
		70.0	→	102	187	38		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
			→					
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 #114195 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

OCD - Artesia

ACCEPTED FOR RECORD

AUG 7 2011

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
ELECTRIC PUMPING UNITRECEIVED
AUG 15 2011
NMOCD ARTESIA

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	463		DOLOMITE & SAND	YATES	463
SAN ANDRES	3107		SAND	QUEEN	3107
GLORIETA	4558		DOLOMITE & ANHYDRITE	SAN ANDRES	4558
YESO	4642		DOLOMITE & SAND		
TUBB	6018		SAND		

32. Additional remarks (include plugging procedure):

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

5370-5594 ACIDIZE W/2,500 GALS 15% ACID.

5370-5594 FRAC W/116,000 GALS GEL, 148,974# 16/30 WHITE SAND, 29,947# 16/30 SIBERPROP.

5700-5900 ACIDIZE W/2,500 GALS 15% ACID.

5700-5900 FRAC W/112,000 GALS GEL, 148,083# 16/30 WHITE SAND, 28,302# 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 #114195 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 08/01/2011 (11KMS2211SE)

Name (please print) CHASITY JACKSON

Title PREPARER

Signature (Electronic Submission)

Date 08/01/2011

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 ****