

New Mexico Oil Conservation Division, District I
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1825 N. French Drive
Hobbs, NM 88240

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
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back
Other _____

2. Name of Operator
COG OPERATING LLC
Contact: CHASITY JACKSON
E-Mail: cjackson@concho.com

3. Address 550 WEST TEXAS AVENUE SUITE 100
MIDLAND, TX 79701-4287
3a. Phone No. (include area code)
Ph: 432-686-3087

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWSW 1980FSL 430FWL
At top prod interval reported below NWSW 1980FSL 430FWL
At total depth NESE 1922FSL 340FEL 2028/S & 4946/W Unit I

5. Lease Serial No.
NMNM105885

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM125999

8. Lease Name and Well No.
HERCULES FEDERAL 3H

9. API Well No.
30-005-29050-00-S1

10. Field and Pool, or Exploratory
WOLF CAMP SOUTHWEST

11. Sec., T., R., M., or Block and Survey
or Area Sec 15 T15S R31E Mer NMP

12. County or Parish
CHAVES

13. State
NM

14. Date Spudded
11/17/2011

15. Date T.D. Reached
12/16/2011

16. Date Completed
☐ D & A
☒ Ready to Prod.
02/08/2012

17. Elevations (DF, KB, RT, GL)*
4400 GL

18. Total Depth MD 13083
TVD 8792

19. Plug Back T.D.: MD 13083
TVD 8781

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMPENSATED NEUT HGNS MCFL HGNS

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 H-40	48.0	0	465		650		0	
12.250	9.625 K-55	40.0	0	4023		1500		0	
8.750	7.000 P-110	26.0	0	8039		1300		0	
6.125	4.500 P-110	11.6	7904	12960		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	7860							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	9154	12914	9154 TO 12914			OPEN PORTS
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9154 TO 12914	ACIDIZE W/40,012 GALS 15% ACID.
9154 TO 12914	FRAC W/1,373,861 GALS GEL, 186,235# WATER FRAC.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cor. API	Gas Gravity	Production Method
02/08/2012	02/15/2012	24	→	370.0	335.0	703.0	39.6	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	
	SI	70.0	→	370	335	703	905	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cor. 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	
	SI		→						

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

ELECTRONIC SUBMISSION #131858 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

APPROVED FOR 6 MONTH PERIOD

ENDING AUG 08 2012

ACCEPTED FOR RECORD

DAVID R. GLASS

PETROLEUM ENGINEER

MAR 27 2012

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	1362	2262	ANHYDRITE	RUSTLER	1362
TANSILL	2262	2412	LIMESTONE & DOLOMITE	TANSILL	2262
YATES	2412	3227	SANDSTONE	YATES	2412
QUEEN	3227	3982	SANDSTONE & DOLOMITE	QUEEN	3227
SAN ANDRES	3982	5493	DOLOMITE & LIMESTONE	SAN ANDRES	3982
GLORIETA	5493	6740	SANDSTONE	GLORIETA	5493
TUBB	6740	7440	SANDSTONE & DOLOMITE	TUBB	6740
ABO	7440	9228	SAND	ABO	7440
WOLFCAMP	9154	12914		WOLFCAMP	8992

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

33. Circle enclosed attachments:

- Electrical/Mechanical Logs (1 full set req'd.)
- Geologic Report
- DST Report
- Directional Survey
- Sundry Notice for plugging and cement verification
- Core Analysis
- 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 #131858 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Roswell
Committed to AFMSS for processing by DAVID GLASS on 02/29/2012 (12DG0173SE)

Name (please print) CHASITY JACKSON

Title PREPARER

Signature (Electronic Submission)

Date 02/28/2012

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 **

Revisions to Operator-Submitted EC Data for Well Completion #131858

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM105885	NMNM105885
Agreement:	NMNM125999	NMNM125999 (NMNM125999)
Operator:	COG OPERATING LLC 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701 Ph: 432-686-3087	COG OPERATING LLC 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701-4287 Ph: 432-685-9158
Admin Contact:	CHASITY JACKSON PREPARER E-Mail: cjackson@concho.com Ph: 432-686-3087	CHASITY JACKSON PREPARER E-Mail: cjackson@concho.com Ph: 432-686-3087
Tech Contact:	CHASITY JACKSON PREPARER E-Mail: cjackson@concho.com Ph: 432-686-3087	CHASITY JACKSON PREPARER E-Mail: cjackson@concho.com Ph: 432-686-3087
Well Name: Number:	HERCULES FEDERAL COM 3H	HERCULES FEDERAL 3H
Location: State: County: S/T/R: Surf Loc:	NM CHAVES Sec 15 T15S R31E Mer NWSW 1980FSL 430FWL	NM CHAVES Sec 15 T15S R31E Mer NMP NWSW 1980FSL 430FWL
Field/Pool:	TULK;WOLFCAMP	TULK-WOLFCAMP, SOUTHWEST
Logs Run:	COMPENSATED NEUTRON/HNGS, MCFL/HNGS	COMPENSATEDNEUT HNGS MCFL HNGS
Producing Intervals - Formations:	ABO	WOLFCAMP
Porous Zones:	RUSTLER TANSILL YATES QUEEN SAN ANDRES GLORIETA TUBB ABO	RUSTLER TANSILL YATES QUEEN SAN ANDRES GLORIETA TUBB ABO WOLFCAMP
Markers:	RUSTLER TANSILL YATES QUEEN SAN ANDRES GLORIETA TUBB ABO	RUSTLER TANSILL YATES QUEEN SAN ANDRES GLORIETA TUBB ABO WOLFCAMP