

New Mexico Oil Conservation Division, District I

1625 N. French Drive

Hobbs, NM 88240

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form 3160-4

(August 2007)

RECEIVED

SEP 15 2010

HOBBSOCD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM105885

- 1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
- b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM1248642. Name of Operator
COG OPERATING LLCContact KANICIA CARRILLO
E-Mail: kcarrillo@conchoresources.com8. Lease Name and Well No
HERCULES FEDERAL COM 2H3 Address 550 WEST TEXAS AVENUE SUITE 100
MIDLAND, TX 79701-42873a Phone No. (include area code)
Ph: 432-685-43329. API Well No
30-005-29049-00-S1

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

At surface NWNW Lot D 660FNL 430FWL 32 01168 N Lat, 103.49004 W Lon

At top prod interval reported below NWNW Lot D 660FNL 430FWL 32.01168 N Lat, 103.49004 W Lon

At total depth NENE Lot A 670FNL 338FEL 308/2 + 4990/W

10. Field and Pool, or Exploratory
~~UNDESIGNATED~~ WOLFCAMP TUL SW11. Sec., T, R, M., or Block and Survey
or Area Sec 15 T15S R31E Mer NMP12 County or Parish
CHAVES13 State
NM14. Date Spudded
04/13/201015 Date T.D. Reached
05/27/201016 Date Completed
☐ D & A ☒ Ready to Prod.
07/08/201017. Elevations (DF, KB, RT, GL)*
4407 GL18 Total Depth. MD
TVD 13106
880519. Plug Back T.D. MD
TVD 13106
880520 Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL22 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 J55	54.5	0	362		1050		0	0
12.750	9.625 K55	40.0	0	4019		1150		0	0
8.750	7.000 P110	26.0	0 3008	8039		1200		0	0
6.125	4.500 P110	11.6	7914	12860		0		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	7883							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) WOLFCAMP	9228	12620	9228 TO 12620		12	OPEN (FRAC PORTS)
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9228 TO 12620	ACIDIZE W/36,000 GALS 15% ACID
9228 TO 12620	FRAC W/ 1,599,150 GALS GEL, 1,661,384# 30/50 OTTAWA 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
07/09/2010	07/16/2010	24	→	212.0	149.0	471.0	46.3	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	
	70	70.0	→	212	149	471		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 pages for additional data on reverse side)

ELECTRONIC SUBMISSION 10/19/80 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

ACCEPTED FOR RECORD
APPROVED FOR 6 MONTH PERIOD
ENDING JAN 31 2011OCT 13 2010
ACCEPTED FOR RECORD
DAVID R. GLASS
AUG 31 2010
DAVID R. GLASS
PETROLEUM ENGINEER

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
QUATERNARY	0	732		ANHYDRITE	732
ANHYDRITE	732	2403	DOLOMITE & SAND	YATES	2403
YATES	2403	4018	SAND	SAN ANDRES	4018
SAN ANDRES	4018	5350	DOLOMITE & ANHYDRITE	GLORIETA	5350
GLORIETA	5350	6747	SAND & DOLOMITE	TUBB	6747
TUBB	6747	7430	DOLOMITE & ANHYDRITE	ABO	7430
ABO	7430	8743	SAND	LOWER ABO	8743
LOWER ABO	8743	8982		WOLFCAMP	8982
WOLFCAMP	9228	12620			

32. Additional remarks (include plugging procedure):
Logs will be sent via mail.

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 #91980 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Roswell

Committed to AFMSS for processing by DAVID GLASS on 08/30/2010 (10DG0207SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature _____ (Electronic Submission)

Date 08/27/2010

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 ****

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
ANHYDRITE	732		DOLOMITE & SAND	DOLOMITE & SAND	732
YATES	2403		SAND	SAND	2403
SAN ANDRES	4018		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	4018
GLORIETA	5350		SAND & DOLOMITE	SAND & DOLOMITE	5350
TUBB	6747		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	6747
ABO	7430		SAND	SAND	7430
LOWER ABO	8743				
WOLFCAMP	8982				

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34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)

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For COG OPERATING LLC, sent to the Roswell

Name (please print) KANICIA CARRILLO

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**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Revisions to Operator-Submitted EC Data for Well Completion #91980

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM105885	NMNM105885
Agreement:		NMNM124864
Operator:	COG OPERATING LLC 550 WEST TEXAS AVE STE 1300 MIDLAND, TX 79701 Ph: 432-685-4332	COG OPERATING LLC 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701-4287 Ph: 432-685-9158
Admin Contact:	KANICIA CARRILLO PREPARER E-Mail: kcarrillo@conchoresources.com Ph: 432-685-4332	KANICIA CARRILLO PREPARER E-Mail: kcarrillo@conchoresources.com Ph: 432-685-4332
Tech Contact:	KANICIA CARRILLO PREPARER E-Mail: kcarrillo@conchoresources.com Ph: 432-685-4332	KANICIA CARRILLO PREPARER E-Mail: kcarrillo@conchoresources.com Ph: 432-685-4332
Well Name. Number:	HERCULES FEDERAL COM 2	HERCULES FEDERAL COM 2H
Location: State: County: S/T/R: Surf Loc:	NM CHAVES Sec 15 T15S R31E Mer Lot D 660FNL 430FEL 32 01168 N Lat, 103.49004 W Lon	NM CHAVES Sec 15 T15S R31E Mer NMP Lot D 660FNL 430FWL 32.01168 N Lat, 103 49004 W Lon
Field/Pool:	WILDCAT;WOLFCAMP	UNDESIGNATED-WOLFCAMP
Logs Run:	COMPENSATED NEUTRON	CNL
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:	ANHYDRITE YATES SAN ANDRES GLORIETA TUBB ABO LOWER ABO WOLFCAMP	QUATERNARY ANHYDRITE YATES SAN ANDRES GLORIETA TUBB ABO LOWER ABO WOLFCAMP
Markers:	DOLOMITE & SAND SAND DOLOMITE & ANHYDRITE SAND & DOLOMITE DOLOMITE & ANHYDRITE SAND	ANHYDRITE YATES SAN ANDRES GLORIETA TUBB ABO LOWER ABO WOLFCAMP