

Form 3160-4
(August 2007)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.
NMNM1235351a. 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.

2. Name of Operator
COG OPERATING LLCContact: AMANDA AVERY
E-Mail: aavery@concho.com8. Lease Name and Well No.
BROT HELM FEDERAL COM 703H3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE
MIDLAND, TX 79701-42873a. Phone No. (include area code)
Ph: 575-748-69409. API Well No.
30-025-46070-00-S1

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

At surface SESE 250FNL 1255FEL 32.180564 N Lat, 103.436297 W Lon

At top prod interval reported below SESE 250FNL 1255FEL 32.180564 N Lat, 103.436297 W Lon

At total depth SESE 50FSL 1428FEL 32.152378 N Lat, 103.436829 W Lon

10. Field and Pool, or Exploratory
UNKNOWN11. ~~WOLF CAMP, M., or Block and Survey~~
or Area Sec 35 T24S R34E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
07/22/201915. Date T.D. Reached
10/24/201916. Date Completed
☐ D & A ☒ Ready to Prod.
04/11/202017. Elevations (DF, KB, RT, GL)*
3416 GL18. Total Depth: MD 22964
TVD 1291719. Plug Back T.D.: MD 22882
TVD 1291720. Depth Bridge Plug Set: MD 22882
TVD 12917

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

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 J55	54.5	0	1089		950		0	
12.250	9.625 L80	47.0	0	12111	5450	2975		0	
8.500	5.500 P100	23.0	0	22952		4100		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	12002	11992						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12995	22775	12995 TO 22775			OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
12995 TO 22775	42,335 GAL 7 1/2%, 19,553,760# SAND, 20,413,754 GAL FLUID.

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
04/17/2020	04/17/2020	24	→	22.0	163.0	2580.0			FLOWES FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
14/64	SI	1489.0	→	22	163	2580		POW	

28a. Production - Interval B

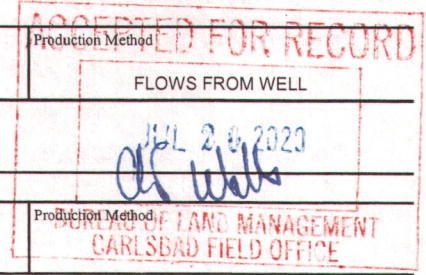
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI			→						

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

ELECTRONIC SUBMISSION #515706 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due 10/17/20



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	950			RUSTLER	950
TOP OF SALT	1467			TOP OF SALT	1467
BASE OF SALT	5215			BASE OF SALT	5215
LAMAR	5499			LAMAR	5499
BELL CANYON	5526			BELL CANYON	5526
CHERRY CANYON	6475			CHERRY CANYON	6475
BRUSHY CANYON	8086			BRUSHY CANYON	8086
BONE SPRING 2ND	9264			BONE SPRING 2ND	9264

32. Additional remarks (include plugging procedure):

FIRST BONE SPRING 10552
SECOND BONE SPRING 11110
THIRD BONE SPRING 12161
WOLFCAMP 12749

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 #515706 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH HAM on 05/28/2020 (20DMH0072SE)

Name (please print) AMANDA AVERYTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 05/18/2020

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 ****

Revisions to Operator-Submitted EC Data for Well Completion #515706

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM123535	NMNM123535
Agreement:		
Operator:	COG OPERATING LLC 2208 W MAIN STREET ARTESIA, NM 88210 Ph: 575-748-6940	COG OPERATING LLC ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287 Ph: 432.685.4342
Admin Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940
Tech Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940
Well Name:	BROT HELM FEDERAL COM	BROT HELM FEDERAL COM
Number:	703H	703H
Location:		
State:	NM	NM
County:	LEA	LEA
S/T/R:	Sec 35 T24S R34E Mer NMP	Sec 35 T24S R34E Mer NMP
Surf Loc:	SESE Lot A 250FNL 1255FEL 32.180564 N Lat, 103.436297 W Lon	SESE Lot A 250FNL 1255FEL 32.180564 N Lat, 103.436297 W Lon
Field/Pool:	WC-025 G-09 S253402N; WC	UNKNOWN
Logs Run:		
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:	RUSTLER TOP OF SALT BOTTOM OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING LIMESTONE	RUSTLER TOP OF SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING 2ND
Markers:	RUSTLER TOP OF SALT BOTTOM OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONESPRING LIMESTONE	RUSTLER TOP OF SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING 2ND