

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM123535

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

2. Name of Operator **COG OPERATING LLC** Contact: **AMANDA AVERY**
E-Mail: **aavery@concho.com**

3. Address **ONE CONCHO CENTER 600 W ILLINOIS AVENUE** 3a. Phone No. (include area code)
MIDLAND, TX 79701-4287 Ph: **575-748-6940**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **NWNE 250FNL 2205FEL 32.180568 N Lat, 103.439367 W Lon**
Sec 35 T24S R34E Mer NMP
At top prod interval reported below **NWNE 250FNL 2205FEL 32.180568 N Lat, 103.439367 W Lon**
Sec 35 T24S R34E Mer NMP
At total depth **SWSE 79FSL 2124FEL 32.152462 N Lat, 103.439078 W Lon**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
BROT HELM FEDERAL COM 603H

9. API Well No.
30-025-46067-00-S1

10. Field and Pool, or Exploratory
RED HILLS-BONE SPRINGS

11. ~~Sec., T., R., M., or Block and Survey~~
RED HILLS-BONE SPRING EAST
or Area **Sec 35 T24S R34E Mer NMP**

12. County or Parish
LEA

13. State
NM

14. Date Spudded
07/19/2019

15. Date T.D. Reached
11/02/2019

16. Date Completed
 D & A Ready to Prod.
04/07/2020

17. Elevations (DF, KB, RT, GL)*
3417 GL

18. Total Depth: MD **22704** TVD **12556**

19. Plug Back T.D.: MD **22595** TVD **12556**

20. Depth Bridge Plug Set: MD **22595** TVD **12556**

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
14.750	10.750 J55	45.5	0	1112		825		0	
8.750	7.625 P110	29.7	0	11955	5440	1605		0	
6.750	5.500 P110	23.0	0	22687		1505		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	11892	11882	2.875	11892	11882			

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING EAST			12745 TO 22570		1290	OPEN
B) BONE SPRING	12745	22570	12745 TO 22570		1290	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
12745 TO 22570	75,576 7 1/2%, 19,708,989# SAND, 20,292,654 GAL FLUID
12745 TO 22570	75,576 7 1/2%, 19,708,989# SAND, 20,292,654 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
04/23/2020	04/23/2020	24	→	133.0	299.0	1549.0			GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
10/64	SI 4200	1400.0	→	133	299	1549	2248	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
04/23/2020	04/23/2020	24	→	133.0	299.0	1549.0			GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
10/64	SI 4200	1400.0	→	133	299	1549		POW	

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

ELECTRONIC SUBMISSION #520708 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

Date First Produced 04/23/2020	Test Date 04/23/2020	Hours Tested 24	Test Production →	Oil BBL 133.0	Gas MCF 299.0	Water BBL 1549.0	Oil Gravity Corr. API	Gas Gravity	Production Method GAS LIFT
Choke Size 10/64	Tbg. Press. Flwg. 4200 SI	Csg. Press. 1400.0	24 Hr. Rate →	Oil BBL 133	Gas MCF 299	Water BBL 1549	Gas:Oil Ratio	Well Status POW	

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	969			RUSTLER	969
TOP OF SALT	1488			TOP OF SALT	1488
BASE OF SALT	5188			BASE OF SALT	5188
LAMAR	5487			LAMAR	5487
BELL CANYON	5529			BELL CANYON	5529
CHERRY CANYON	6471			CHERRY CANYON	6471
BRUSHY CANYON	8078			BRUSHY CANYON	8078
BONE SPRING 2ND	9264			BONE SPRING 2ND	9264

32. Additional remarks (include plugging procedure):

FIRST BONE SPRING 10517
SECOND BONE SPRING 11046
THIRD BONE SPRING 12146

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 #520708 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by JENNIFER SANCHEZ on 08/19/2020 (20JAS0240SE)

Name (please print) AMANDA AVERY Title REGULATORY ANALYST

Signature (Electronic Submission) Date 06/30/2020

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 #520708

	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: Number:	BROT HELM FEDERAL COM 603H	BROT HELM FEDERAL COM 603H
Location:		
State:	NM	NM
County:	LEA	LEA
S/T/R:	Sec 35 T24S R34E Mer NMP	Sec 35 T24S R34E Mer NMP
Surf Loc:	NWNE Lot B 250FNL 2205FEL 32.180568 N Lat, 103.439367 W Lon	NWNE Lot B 250FNL 2205FEL 32.180568 N Lat, 103.439367 W Lon
Field/Pool:	RED HILLS; BONE SPRING	RED HILLS-BONE SPRINGS
Logs Run:		
Producing Intervals - Formations:	BONE SPRING	BONE SPRING EAST BONE SPRING
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 BONE SPRING LIMESTONE	RUSTLER TOP OF SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING 2ND