

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____						6. If Indian, Allottee or Tribe Name			
						7. Unit or CA Agreement Name and No.			
2. Name of Operator                                      Contact: AMANDA AVERY <b>COG OPERATING LLC</b> E-Mail: aaavery@concho.com						8. Lease Name and Well No. <b>BROT HELM FEDERAL COM 603H</b>			
3. Address    ONE CONCHO CENTER    600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287				3a. Phone No. (include area code) Ph: 575-748-6940		9. API Well No. <b>30-025-46067-00-S1</b>			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 35 T24S R34E Mer NMP 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 2 T25S R34E Mer NMP At total depth    SWSE 79FSL 2124FEL 32.152462 N Lat, 103.439078 W Lon						10. Field and Pool, or Exploratory <b>RED HILLS-BONE SPRINGS</b> <div style="background-color: yellow; padding: 2px;">11. Sec., T., R., M., or Block and Survey</div> <b>RED HILLS-BONE SPRING EAST</b> 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 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> 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? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)			

### 23. Casing and Liner Record *(Report all strings set in well)*

[illegible]

## 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

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)						



## 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 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. SI 4200	Csg. Press. 1400.0	24 Hr. Rate 	Oil BBL 133	Gas MCF 299	Water BBL 1549	Gas:Oil Ratio 2248	Well Status POW	

28a. Production - Interval B

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	

(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 TOP OF SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING 2ND	969 1488 5188 5487 5529 6471 8078 9264			RUSTLER TOP OF SALT BASE OF SALT LAMAR BELL CANYON CHERRY CANYON BRUSHY CANYON BONE SPRING 2ND	969 1488 5188 5487 5529 6471 8078 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, 103.433675 W Lon	NWNE Lot B 250FNL 2205FEL 32.180568 N Lat, 103.433675 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