

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

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other				5. Lease Serial No. NMNM123535	
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	
2. Name of Operator COG OPERATING LLC				7. Unit or CA Agreement Name and No.	
Contact: AMANDA AVERY E-Mail: aavery@concho.com				8. Lease Name and Well No. BROT HELM FEDERAL COM 601H	
3. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287				9. API Well No. 30-025-46065-00-S1	
3a. Phone No. (include area code) Ph: 575-748-6940				10. Field and Pool, or Exploratory RED HILLS-BONE SPRINGS	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 35 T24S R34E Mer NMP At surface NENE 250FNL 407FEL 32.180560 N Lat, 103.433556 W Lon Sec 35 T24S R34E Mer NMP At top prod interval reported below NENE 250FNL 407FEL 32.180560 N Lat, 103.433556 W Lon Sec 2 T25S R34E Mer NMP At total depth SESE 51FSL 282FEL 32.152370 N Lat, 103.433125 W Lon				11. Sec., T., R., M., or Block and Survey or Area Sec 35 T24S R34E Mer NMP	
14. Date Spudded 08/09/2019		15. Date T.D. Reached 10/30/2019		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/11/2020	
17. Elevations (DF, KB, RT, GL)* 3420 GL		18. Total Depth: MD 22913 TVD 12694		19. Plug Back T.D.: MD 22830 TVD 12694	
20. Depth Bridge Plug Set: MD 22830 TVD 12694		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 checked="" type="checkbox"/> No <input type="checkbox"/> 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	61.0	0	1113		964		0	
8.750	7.625 P110	29.7	0	12000	5428	1850		0	
6.750	5.500 P110	23.0	0	22913		1670		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	11786	11776						

## 25. Producing Intervals

## 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING EAST			12780 TO 22804		1470	OPEN
B) BONE SPRING	12780	22804				
C)						
D)						

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

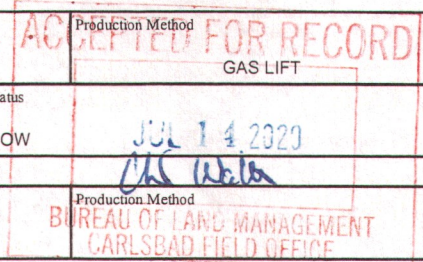
Depth Interval	Amount and Type of Material
12780 TO 22804	129,870 GAL 7 1/2%, 20,085,266# SAND, 20,567,573 GAL FLUID.

## 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
04/26/2020	04/26/2020	24	→	499.0	704.0	4077.0			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
19/48	3698	845.0	→	499	704	4077		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 spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #514323 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

Reclamation due 10/26/2020



## 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	953			RUSTLER	953
TOP OF SALT	1479			TOP OF SALT	1479
BASE OF SALT	5228			BASE OF SALT	5228
LAMAR	5508			LAMAR	5508
BELL CANYON	5555			BELL CANYON	5555
CHERRY CANYON	6516			CHERRY CANYON	6516
BRUSHY CANYON	9294			BONE SPRING 2ND	9294
BONE SPRING 2ND	9294			BRUSHY CANYON	9294

## 32. Additional remarks (include plugging procedure):

FIRST BONE SPRING 10593  
SECOND BONE SPRING 11154  
THIRD BONE SPRING 12299

## 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 #514323 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH HAM on 06/03/2020 (20DMH0073SE)

Name (please print) AMANDA AVERYTitle REGULATORY ANALYST

Signature \_\_\_\_\_ (Electronic Submission)

Date 05/06/2020

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 #514323

	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 601H	BROT HELM FEDERAL COM 601H
Location:		
State:	NM	NM
County:	LEA	LEA
S/T/R:	Sec 35 T24S R34E Mer NMP	Sec 35 T24S R34E Mer NMP
Surf Loc:	NENE Lot A 250FNL 407FEL 32.180560 N Lat, 103.433556 W Lon	NENE Lot A 250FNL 407FEL 32.180560 N Lat, 103.433556 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 BONE SPRING 2ND BRUSHY CANYON