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Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMND-OCD ARTESIA

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM54398

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.

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

8. Lease Name and Well No.
HOWITZER FEDERAL COM 606H

3. Address 2208 W MAIN STREET
ARTESIA, NM 88210

3a. Phone No. (include area code)
Ph: 575-748-6940

9. API Well No.
30-015-45834

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

Sec 12 T24S R28E Mer NMP
At surface SENE Lot H 2155FNL 300FEL 32.233739 N Lat, 104.033260 W Lon

Sec 12 T24S R28E Mer NMP
At top prod interval reported below SENE Lot H 2155FNL 300FEL 32.233739 N Lat, 104.033260 W Lon

Sec 11 T24S R28E Mer NMP
At total depth SWNW Lot E 2281FNL 206FWL 32.233539 N Lat, 104.066255 W Lon

10. Field and Pool, or Exploratory
PURPLE SAGE; WOLFCAMP11. Sec., T., R., M., or Block and Survey
or Area Sec 12 T24S R28E Mer NMP12. County or Parish
EDDY13. State
NM14. Date Spudded
05/19/201915. Date T.D. Reached
08/20/2019

16. Date Completed
☐ D & A ☒ Ready to Prod.
01/19/2020

17. Elevations (DF, KB, RT, GL)*
2963 GL

18. Total Depth: MD 19945
TVD 9633

19. Plug Back T.D.: MD 19766
TVD 9633

20. Depth Bridge Plug Set: MD 19854
TVD 9633

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
8.500	5.500								
26.000	20.000 J55	94.0		312		1000		0	
17.500	13.375 J55	61.0		2713		2125		0	
12.250	9.625 L80	47.0		9050		1750		0	
8.500	5.500 P110	20.0		19899		4475		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	9145	9135						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	9925	19771	9925 TO 19771		1600	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9925 TO 19771	SEE ATTACHED INFORMATION

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
01/24/2020	01/24/2020	24	→	133.0	1485.0	286.0			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
18/64	2450	1150.0	→	133	1485	286		PGW	

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 #504037 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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	407			RUSTLER	407
TOP OF SALT	967			TOP OF SALT	967
BOTTOM OF SALT	2497			BOTTOM OF SALT	2497
LAMAR	2696			LAMAR	2696
BELL CANYON	2754			BELL CANYON	2754
CHERRY CANYON	3640			CHERRY CANYON	3640
BRUSHY CANYON	4873			BRUSHY CANYON	4873
BONE SPRING LIMESTONE	6447			BONE SPRING LIMESTONE	6447

32. Additional remarks (include plugging procedure):

AVALON 7147
FIRST BONE SPRING 7420
SECOND BONE SPRING 8217
THIRD BONE SPRING 9285
WOLFCAMP 9718

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 #504037 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name (please print) AMANDA AVERYTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 02/21/2020

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.

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