Reclamation due: 12/19/20

Rec'd 8/4/2020 - NMOCD

Form 3160-4
(August 2007)

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. NMNM108973

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.: HARRIER FEDERAL COM 102H

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.: 30-025-45828-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 2 T26S R32E Mer NMP SWSW 330FSL 750FWL 32.065914 N Lat, 103.651825 W Lon
At top prod interval reported below: Sec 2 T26S R32E Mer NMP SWSW 330FSL 750FWL 32.065914 N Lat, 103.651824 W Lon
At total depth: Sec 35 T25S R32E Mer NMP NWNW 0051FNL 0607FWL

10. Field and Pool, or Exploratory
JENNINGS
~~UNKNOWN~~

11. Sec., T., R., M., or Block and Survey or Area: Sec 2 T26S R32E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 08/14/2019

15. Date T.D. Reached: 10/10/2019

16. Date Completed ☐ D & A ☒ Ready to Prod. 05/16/2020

17. Elevations (DF, KB, RT, GL)*: 3247 GL

18. Total Depth: MD 19312 TVD 9011

19. Plug Back T.D.: MD 19230 TVD 9011

20. Depth Bridge Plug Set: MD 19230 TVD 9011

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	903		458		0	
12.250	9.625 L80	40.0	0	4581		960		0	
8.750	5.500 P110	17.0	0	19297		4195		5500	

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	8228	8218						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING UPPER			9325 TO 19132		1044	OPEN
B) BONE SPRING	9325	19132				
C)						
D)						

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

Depth Interval	Amount and Type of Material
9325 TO 19132	75,420 7 1/2%, 19,909,359# SAND, 22,819,556 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
06/19/2020	06/19/2020	24	→	94.0	674.0	276.0			GAS LIFT

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
14/64	SI 976	496.0	→	94	674	276	7170	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
06/19/2020	06/19/2020	24	→	94.0	674.0	276.0			GAS LIFT

Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
14/64	SI 976	496.0	→	94	674	276		POW

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

ELECTRONIC SUBMISSION #522330 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	758			RUSTLER	758
TOP OF SALT	1153			TOP OF SALT	1153
BASE OF SALT	4409			BASE OF SALT	4409
LAMAR	4597			LAMAR	4597
BELL CANYON	4629			BELL CANYON	4629
CHERRY CANYON	5609			CHERRY CANYON	5609
BRUSHY CANYON	7234			BRUSHY CANYON	7234
BONE SPRING 2ND	8827			BONE SPRING 2ND	8827

32. Additional remarks (include plugging procedure):

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 #522330 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 08/04/2020 (20JAS0157SE)

Name *(please print)* AMANDA AVERY Title REGULATORY ANALYST

Signature (Electronic Submission) Date 07/20/2020

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 fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Revisions to Operator-Submitted EC Data for Well Completion #522330

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM108973	NMNM108973
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:	HARRIER FEDERAL COM 102H	HARRIER FEDERAL COM 102H
Location: State: County: S/T/R: Surf Loc:	 NM LEA Sec 2 T26S R32E Mer NMP SWSW Lot M 330FSL 750FWL 32.065914 N Lat, 103.651825 W Lon	 NM LEA Sec 2 T26S R32E Mer NMP SWSW Lot M 330FSL 750FWL 32.065914 N Lat, 103.651825 W Lon
Field/Pool:	JENNINGS UPPER BS SHALE	JENNINGS
Logs Run:		
Producing Intervals - Formations:	BONE SPRING	BONE SPRING UPPER 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