

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Production LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 217955
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 015-44118	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 38529	⁸ Property Name Copperhead 31 Federal Com	⁹ Well Number 21H

II. ¹⁰ Surface Location

Ul or lot no. B	Section 30	Township 26S	Range 29E	Lot Idn	Feet from the 210	North/South Line North	Feet from the 1650	East/West line East	County Eddy
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¹¹ Bottom Hole Location

Ul or lot no. 6	Section 31	Township 26S	Range 29E	Lot Idn	Feet from the 212	North/South Line South	Feet from the 2002	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/18/17	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

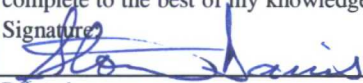
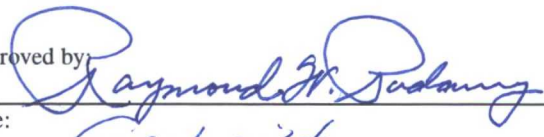
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	Alpha Crude Connector Pipeline	O
285689	Delaware Basin Midstream LLC 1221 Lamar - Ste 1100 Houston, TX 77010	G
NM OIL CONSERVATION ARTESIA DISTRICT SEP 14 2017 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 5/5/17	²² Ready Date 8/14/17	²³ TD 17865'	²⁴ PBDT 17685'	²⁵ Perforations 10981-17660'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
20"	16"	339'	890	✓	
13 1/2"	10 3/4"	2689'	1250	✓	
9 7/8"	7 5/8"	9848'	1000	✓	
6 3/4"	5" & 5 1/2"	17860'	1600	✓	
	2 7/8"	9418'			

V. Well Test Data

³¹ Date New Oil 8/18/17	³² Gas Delivery Date 8/18/17	³³ Test Date 8/20/17	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 4000#	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 100	³⁹ Water 1183	⁴⁰ Gas 2074		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Stormi Davis			Approved by: 		
Title: Regulatory Analyst			Title: Geologist		
E-mail Address: sdavis@concho.com			Approval Date: 9-19-2017		
Date: 9/6/17		Phone: 575-748-6946	Pending BLM approvals will subsequently be reviewed and scanned		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 14 2017

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED

5. Lease Serial No.
NMNM121474

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
COPPERHEAD 31 FEDERAL COM 21H

9. API Well No.
30-015-44118

10. Field and Pool, or Exploratory
PURPLE SAGE; WOLFCAMP

11. Sec., T., R., M., or Block and Survey
or Area Sec 30 T26S R29E Mer NMP

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
2929 GL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

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 PRODUCTION LLC

Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

3. Address 2208 WEST MAIN
ARTESIA, NM 88210

3a. Phone No. (include area code)
Ph: 575-748-6946

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 30 T26S R29E Mer NMP
At surface NWNE 210FNL 1650FEL
At top prod interval reported below
Sec 31 T26S R29E Mer NMP
At total depth SWSE Lot 6 212FSL 2002FEL

14. Date Spudded
05/05/2017

15. Date T.D. Reached
05/29/2017

16. Date Completed
☐ D & A ☒ Ready to Prod.
08/14/2017

18. Total Depth: MD 17865
TVD 10759

19. Plug Back T.D.: MD 17685
TVD 10760

20. Depth Bridge Plug Set: MD 17685
TVD 10760

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL, DLL, SONIC, TCOM

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
20.000	16.000 J55	75.0	0	339		890		0	
13.500	10.750 L80	45.5	0	2689		1250		0	
6.750	5.500 P110	23.0	0	9301		1600		600	
9.875	7.625 P110	29.7	0	9848		1000		0	
6.750	5.000 P110	18.0	9301	17860					

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	9418	9410						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	10981	17660	10981 TO 17660	0.430	1980	OPEN
B)			17715 TO		6	UNDER CBP
C)						
D)						

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

Depth Interval	Amount and Type of Material
10981 TO 17660	SEE ATTACHED

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
08/15/2017	08/20/2017	24	→	100.0	2074.0	1183.0			FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. 4000 SI	Csg. Press.	24 Hr. Rate →	Oil BBL 100	Gas MCF 2074	Water BBL 1183	Gas:Oil Ratio	Well Status 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 :	

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

ELECTRONIC SUBMISSION #388100 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPI

Pending BLM approvals will
subsequently be reviewed
and scanned

SC 9-19-17

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
LAMAR	2719	2760		BOTTOM OF SALT	2530
BELL CANYON	2761	3604		LAMAR	2719
CHERRY CANYON	3605	4861		BELL CANYON	2761
BRUSHY CANYON	4862	6462		CHERRY CANYON	3605
BONE SPRING LM	6463	7371		BRUSHY CANYON	4862
1ST BONE SPRING	7372	8175		BONE SPRING LM	6463
2ND BONE SPRING	8176	9222		1ST BONE SPRING	7372
3RD BONE SPRING	9223	9571		2ND BONE SPRING	8176

32. Additional remarks (include plugging procedure):
Surveys & perms/stimulation are attached.

Additional Tops:
Wolfcamp 9572'
TVD = 10797'

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 #388100 Verified by the BLM Well Information System.
For COG PRODUCTION LLC, sent to the Carlsbad

Name (please print) STORMI DAVISTitle PREPARERSignature (Electronic Submission)Date 09/12/2017

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM121474

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
COPPERHEAD 31 FEDERAL COM 21H9. API Well No.
30-015-4411810. Field and Pool or Exploratory Area
PURPLE SAGE; WOLFCAMP11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG PRODUCTION LLC
Contact: STORMI DAVIS
E-Mail: sdavis@concho.com3a. Address
2208 WEST MAIN
ARTESIA, NM 88210
3b. Phone No. (include area code)
Ph: 575-748-69464. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 30 T26S R29E Mer NMP NWNE 210FNL 1650FEL**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

6/12/17 to 6/15/17 Test annulus to 1500# for 30 mins. Good test. Test 5 1/2" csg to 11000# for 10 mins. Good test. Drill FC, FS and 5' new formation.

6/26/17 to 6/27/17 Test annulus to 1500# for 30 mins. Ran CBL. TOC @ 600'. Set CBP @ 17725'. Perf @ 17715' (6). Tool string stuck. POH w/tool string.
6/29/17 to 7/17/17 Set CBP @ 17685'. Test to 7500#. Good test. Perf 10981-17660' (1980). Acdz w/47,790 gal 7 1/2% and 57,971 gal 15%; frac w/12,150,640# sand and 16,852,364 gal fluid.

7/19/17 to 7/21/17 Drilled out CFP's.

7/22/17 to 7/25/17 Set 2 7/8" 6.5# L-80 tbg @ 9418' & pkr @ 9410'. Test csg to 1500#. Good test.

8/14/17 Began flowing back & testing.

Accepted for record - NMOCD

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 14 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #388093 verified by the BLM Well Information System
For COG PRODUCTION LLC, sent to the Carlsbad

Name (Printed/Typed) STORMI DAVIS

Title PREPARER

Signature (Electronic Submission)

Date 09/12/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title _____
Office _____
Pending BLM approvals will subsequently be reviewed and scanned

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

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

Additional data for EC transaction #388093 that would not fit on the form

32. Additional remarks, continued

8/15/17 Date of first production.