

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

Form C-104  
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address <b>COG Operating LLC</b> One Concho Center 600 West Illinois Ave. Midland, TX 79701		<sup>2</sup> OGRID Number 229137
		<sup>3</sup> Reason for Filing Code/ Effective Date NW Effective 11/14/14
<sup>4</sup> API Number 30 - 015 -41618	<sup>5</sup> Pool Name Empire; Glorieta Yeso, East	<sup>6</sup> Pool Code 96610
<sup>7</sup> Property Code 40088	<sup>8</sup> Property Name Sam Adams 12 Federal Com UBB	<sup>9</sup> Well Number 4H

II. <sup>10</sup> Surface Location

UL or lot no. E	Section 12	Township 17S	Range 29E	Lot Idn	Feet from the 2310	North/South Line North	Feet from the 230	East/West line West	County Eddy
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<sup>11</sup> Bottom Hole Location

UL or lot no. H	Section 12	Township 17S	Range 29E	Lot Idn	Feet from the 2292	North/South line North	Feet from the 351	East/West line East	County Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 11/14/14	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
278421	HollyFrontier Refining & Marketing LLC	O
221115	Frontier Field Services NM OIL CONSERVATION ARTESIA DISTRICT DEC 23 2014 RECEIVED	G

IV. Well Completion Data

<sup>21</sup> Spud Date 9/18/14	<sup>22</sup> Ready Date 11/14/14	<sup>23</sup> TD 9314MD 4836TVD	<sup>24</sup> PBDT 9220	<sup>25</sup> Perforations 5300 - 9200	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17-1/2	13-3/8	271	400sx		
12-1/4	9-5/8	1080	500sx		
8-3/4	7	4271	1600sx		
7-7/8	5-1/2	9288			
	2-7/8tbg	4289			

V. Well Test Data

<sup>31</sup> Date New Oil 11/26/14	<sup>32</sup> Gas Delivery Date 11/26/14	<sup>33</sup> Test Date 11/29/14	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 70	<sup>36</sup> Csg. Pressure 70
<sup>37</sup> Choke Size	<sup>38</sup> Oil 58	<sup>39</sup> Water 703	<sup>40</sup> Gas 61		<sup>41</sup> Test Method P

<sup>42</sup> 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: <i>Chasity Jackson</i>		OIL CONSERVATION DIVISION Approved by: <i>SR Lader</i> Title: <i>Dist 11 Supervisor</i> Approval Date: <i>12/26/30</i>	
Printed name: Chasity Jackson			
Title: Regulatory Analyst			
E-mail Address: cjackson@concho.com			
Date: 12/19/14	Phone: 432-686-3087		

Pending BLM approvals will  
subsequently be reviewed  
and scanned

# NM OIL CONSERVATION ARTESIA DISTRICT

DEC 23 2014

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMNM7752

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
SAM ADAMS 12 FEDERAL COM UBB 4H

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 OPERATING LLC

Contact: CHASITY JACKSON  
E-Mail: cjackson@concho.com

3. Address ONE CONCHO CENTER 600 W. ILLINOIS AVE  
MIDLAND, TX 79701

3a. Phone No. (include area code)  
Ph: 432-686-3087

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

At surface SWNW 2310FNL 230FWL

At top prod interval reported below SWNW 2310FNL 230FWL

At total depth SENE 2292FNL 351FEL

14. Date Spudded  
09/18/2014

15. Date T.D. Reached  
09/29/2014

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
11/14/2014

10. Field and Pool, or Exploratory  
EMPIRE; GLORIETA-YESO, E

11. Sec., T., R., M., or Block and Survey  
or Area Sec 12 T17S R29E Mer NMP

12. County or Parish  
EDDY

13. State  
NM

17. Elevations (DF, KB, RT, GL)\*  
3646 GL

18. Total Depth: MD 9314  
TVD 4836

19. Plug Back T.D.: MD 9220  
TVD 9220

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
COMPENSATED NEUTRON LOG

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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5		271		400			
12.250	9.625 J55	40.0		1080		500			
8.750	7.000 L80	29.0		4271		1600			
7.875	5.500 L80	17.0	4271	9288		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	4289							

### 25. Producing Intervals

### 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	5300	9200	5300 TO 9200	0.430	792	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5300 TO 9200	ACIDIZE W/91,078 GALS 15% ACID. FRAC W/2,879,490 GALS GEL, 297,384 GALS TREATED WATER.
5300 TO 9200	335,440 GALS WATER FRAC. 2,758,681# 20/40 WHITE SAND, 3,036,758# 20/40 BROWN, 1,046,570# 20/40 CRC.

### 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
11/26/2014	11/29/2014	24	→	58.0	61.0	703.0	39.6	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→	58	61	703	1052	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	
			→						

Pending BLM approvals will  
subsequently be reviewed  
and scanned

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

ELECTRONIC SUBMISSION #285873 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.)  
FLARED

## 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
TANSIL	960		LIMESTONE & DOLOMITE	TANSIL	960
YATES	1069		SANDSTONE	YATES	1069
QUEEN	1945		SANDSTONE & DOLOMITE	QUEEN	1945
GRAYBURG	2351		SANDSTONE & DOLOMITE	GRAYBURG	2351
SAN ANDRES	2639		DOLOMITE & LIMESTONE	SAN ANDRES	2639
GLORIETA	4071		SANDSTONE	GLORIETA	4071
PADDOCK	4133			PADDOCK	4133

32. Additional remarks (include plugging procedure):  
Logs Mailed.

## 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 #285873 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) CHASITY JACKSONTitle PREPARER

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

Date 12/19/2014

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 MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM7752
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
Contact: CHASITY JACKSON E-Mail: cjackson@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address ONE CONCHO CENTER 600 W. ILLINOIS AVE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-686-3087	8. Well Name and No. SAM ADAMS 12 FEDERAL COM UBB 4H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T17S R29E Mer NMP SWNW 2310FNL 230FEL		9. API Well No. 30-015-41618
		10. Field and Pool, or Exploratory EMPIRE;GLORIETA-YESO,E
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK 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"/> Fracture Treat	<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	Drilling Operations
	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

10/24/14 Test frac valve to 7500psi. Spotted 2000 gals acid. Set plug @ 9220.  
10/28/14 Perf 22 stages @ 9080 - 9200 w/6 SPF, 36 holes, CBP @ 9045.  
Perf @ 8900 - 9020 w/6SPF, 36 holes, CBP @ 8868.  
Perf @ 8720 - 8840 w/6SPF, 36 holes, CBP @ 8687.  
Perf @ 8540 - 8660 w/6SPF, 36 holes, CBP @ 8508.  
Perf @ 8360 - 8480 w/6SPF, 36 holes, CBP @ 8327.  
Perf @ 8180 - 8300 w/6SPF, 36 holes, CBP @ 8146.  
Perf @ 8000 - 8120 w/6SPF, 36 holes, CBP @ 7965.  
Perf @ 7820 - 7940 w/6SPF, 36 holes, CBP @ 7784.  
Perf @ 7640 - 7760 w/6SPF, 36 holes, CBP @ 7610.  
Perf @ 7460 - 7582 w/6SPF, 36 holes, CBP @ 7430.  
Perf @ 7280 - 7400 w/6SPF, 36 holes, CBP @ 7248.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

DEC 23 2014 *JP*

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14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #285887 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad</b>	
Name (Printed/Typed) CHASITY JACKSON	Title PREPARER
Signature (Electronic Submission)	Date 12/19/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By _____	Title _____
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.	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 and willfully to  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

**Additional data for EC transaction #285887 that would not fit on the form**

**32. Additional remarks, continued**

Perf @ 7100 - 7250 w/6SPF, 36 holes, CBP @ 7068.  
Perf @ 6920 - 7040 w/6SPF, 36 holes, CBP @ 6886.  
Perf @ 6740 - 6860 w/6SPF, 36 holes, CBP @ 6705.  
Perf @ 6560 - 6680 w/6SPF, 36 holes, CBP @ 6524.  
Perf @ 6380 - 6500 w/6SPF, 36 holes, CBP @ 6344.  
Perf @ 6200 - 6320 w/6SPF, 36 holes, CBP @ 6163.  
Perf @ 6020 - 6140 w/6SPF, 36 holes, CBP @ 5982.  
Perf @ 5750 - 5930 w/6SPF, 36 holes, CBP @ 5720.  
Perf @ 5570 - 5690 w/6SPF, 36 holes, CBP @ 5548.  
Perf @ 5480 - 5600 w/6SPF, 36 holes, CBP @ 5368.  
Perf @ 5300 - 5420 w/6SPF, 36 holes. Acidize 22 stages w/91,087 gals acid. Frac w/2,879,490 gals gel, 297,384 gals treated water, 335,440 gals WaterFrac, 3,036,758# 20/40 brown sand, 2,758,681# 20/40 white sand, 1,046,570# 20/40 CRC.  
11/5/14-11/11/14 Drill out plugs. Clean out to PBTD 9220.  
11/13/14 RIH w/130jts 2-7/8" J55 6.5# tbgs, ESP, EOT @ 4289.  
11/14/14 Turn over to production.