

**NM OIL CONSERVATION**

ARTESIA DISTRICT

Form C-104

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

APR 04 2016

Revised August 1, 2011

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

Submit one copy to appropriate District Office

RECEIVED

AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		<sup>2</sup> OGRID Number 229137
		<sup>3</sup> Reason for Filing Code/ Effective Date NW
<sup>4</sup> API Number 30 - 015-42485	<sup>5</sup> Pool Name WC-015 G-04 S2627288; Bone Spring	<sup>6</sup> Pool Code 98018 ✓
<sup>7</sup> Property Code 313446	<sup>8</sup> Property Name Horned Owl Federal	<sup>9</sup> Well Number 2H

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

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	25	26S	26E		190	North	1870	West	Eddy

**<sup>11</sup> Bottom Hole Location**

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
N	25	26S	26E		332	South	1932	West	Eddy

<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
F	F	3/15/16			

**III. Oil and Gas Transporters**

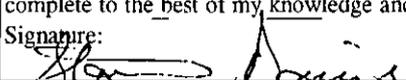
<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
35246	Shell Trading US Company P.O. Box 4604 Houston, TX 77210-4604	O
241472	Southern Union Gas Services, Ltd 301 Commerce Street - Ste 700 Fort Worth, TX 76102	G

**IV. Well Completion Data**

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBDT	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
6/24/15	2/20/16	11903' / 7403	11875'	7544-11850'	
<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"	329'	400		
12 1/4"	9 5/8"	2045'	750		
8 3/4"	5 1/2"	11903'	2325		
	2 7/8"	7520'			

**V. Well Test Data**

<sup>31</sup> Date New Oil	<sup>32</sup> Gas Delivery Date	<sup>33</sup> Test Date	<sup>34</sup> Test Length	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
3/15/16	3/15/16	3/19/16	24 Hrs	775#	
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method	
	797	2351	1829	Flowing	

<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: 	OIL CONSERVATION DIVISION
Printed name: Stormi Davis	Approved by:
Title: Regulatory Analyst	Title:
E-mail Address: sdavis@concho.com	Approval Date:
Date: 3/31/16	Phone: 575-748-6946

Pending BLM approvals will subsequently be reviewed and scanned

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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. NMNM114965
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2208 WEST MAIN ARTESIA, NM 88210		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 575-748-6946		8. Well Name and No. HORNED OWL FEDERAL 2H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T26S R26E Mer NMP NENW 190FNL 1870FWL		9. API Well No. 30-015-42485
10. Field and Pool, or Exploratory WILDCAT; BONE SPRING wc-015 G-04 S2626 EBj		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	
	<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 recomplete 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 recompletion 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.)

7/13/15 to 10/28/15 MIRU. Test backside to 1500#. Good test. Discovered leak @ csg collar @ 4294' while prepping for frac. Set CBP @ 4425'. Dumped 20' cmt on top. RIH to 4220' & set retainer. Perform WellLock sqz w/20 bbls WellLock resin. WOC. Drill out retainer & WellLock & circ clean. Attempted to test csg. Clean out to 11900'. Set CIBP @ 11875'. Circ pkr fluid. Set pkr @ 4319' & test csg to 7000# for 15 mins. Good test. Set csg patch 4283-4303'. Test to 8500# for 15 mins. Good test.  
2/3/16 to 2/20/16 Test annulus to 1500#. Good test. Perforate Bone Spring 7544-11850' (504). Acdz w/42690 gal 7 1/2%; frac w/6301282# sand & 5131326 gal fluid. SI for Horned Owl Federal #4H frac.

3/8/16 to 3/9/16 Drilled out frac plugs. Cleaned down to CIBP @ 11875'.  
3/11/16 Set 2 7/8" 6.5# J-55 tbg @ 7520' & pkr @ 4195'. Installed gas-lift system.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

APR 04 2016

RECEIVED

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #335191 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad

Name (Printed/Typed) STORMI DAVIS	Title PREPARER
Signature (Electronic Submission)	Date 03/31/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICIAL 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 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.

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

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**Additional data for EC transaction #335191 that would not fit on the form**

**32. Additional remarks, continued**

3/12/16 Began flowing back & testing.

3/15/16 Date of first production.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APR 04 2016

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

**RECEIVED**

5. Lease Serial No.  
NMNM114965

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

8. Lease Name and Well No.  
HORNED OWL FEDERAL 2H ✓

3. Address 2208 WEST MAIN  
ARTESIA, NM 88210

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

9. API Well No.  
30-015-42485

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface Sec 25 T26S R26E Mer NMP  
NENW 190FNL 1870FWL  
At top prod interval reported below  
Sec 25 T26S R26E Mer NMP  
At total depth SESW 332FSL 1932FWL

10. Field and Pool, or Exploratory  
WILDCAT; BONE SPRING ✓

11. Sec., T., R., M., or Block and Survey  
or Area Sec 25 T26S R26E Mer NMP

12. County or Parish  
EDDY

13. State  
NM

14. Date Spudded  
06/24/2015

15. Date T.D. Reached  
07/07/2015

16. Date Completed  
 D & A  Ready to Prod.  
02/20/2016

17. Elevations (DF, KB, RT, GL)\*  
3416 GL

18. Total Depth: MD 11903  
TVD 7377

19. Plug Back T.D.: MD 11875  
TVD 7377

20. Depth Bridge Plug Set: MD 11875  
TVD 7377

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
NONE

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
17.500	13.375 J55	54.5	0	329		400		0	
12.250	9.625 J55	40.0	0	2045		750		0	
8.750	5.500 P110	17.0	0	11903		2325		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	7520	4195						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7544	11850	7544 TO 11850	0.430	504	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
7544 TO 11850	SEE ATTACHED

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/15/2016	03/19/2016	24	→	797.0	1829.0	2351.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	775		→	797	1829	2351		POW	

28a. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28b. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
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 #335201 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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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	2001	2050		RUSTLER	199
BELL CANYON	2051	2908		TOP OF SALT	335
CHERRY CANYON	2909	4085		BOTTOM OF SALT	1817
BRUSHY CANYON	4086	5610		LAMAR	2001
BONE SPRING LM	5611	5772		BELL CANYON	2051
LEONARD	5773	6560		CHERRY CANYON	2909
1ST BONE SPRING	6561	7170		BRUSHY CANYON	4086
2ND BONE SPRING	7171	7403		BONE SPRING LM	5611

32. Additional remarks (include plugging procedure):

Perfs 7 1/2%(Gal) Sand(#)  
 11640-11850 1512 449364 355866  
 11325-11504 4536 450326 389256  
 11010-11220 2898 448987 366660  
 10700-10905 3096 449077 370386  
 10380-10590 3024 449517 368802  
 10065-10275 3066 449618 368256  
 9750-9957 3108 451258 367248

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 #335201 Verified by the BLM Well Information System.  
 For COG OPERATING LLC, sent to the Carlsbad

Name (please print) STORMI DAVIS Title PREPARER

Signature (Electronic Submission) Date 03/31/2016

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.

**Additional data for transaction #335201 that would not fit on the form**

**32. Additional remarks, continued**

9433-9644 3024 449243 365652  
9119-9329 3024 450485 364980  
8804-9014 3012 452693 362868  
8489-8700 3024 450846 364224  
8172-8384 3276 450042 363930  
7859-8069 3066 449486 363132  
7544-7757 3024 450340 360066  
Totals 42690 6301282 5131326

**Additional Tops:**

Leonard 5773'  
1st Bone Spring 6561'  
2nd Bone Spring 7171'

Surveys are attached.