

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 COG Production LLC 2208 W. Main Street Artesia, NM 88210		<sup>2</sup> OGRID Number 217955	
		<sup>3</sup> Reason for Filing Code/ Effective Date NW	
<sup>4</sup> API Number 30 - 015-42449	<sup>5</sup> Pool Name Willow Lake; Bone Spring, SE		<sup>6</sup> Pool Code 96217
<sup>7</sup> Property Code 37491	<sup>8</sup> Property Name Patron 23 Federal		<sup>9</sup> Well Number 2H

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

Ul or lot no. C	Section 23	Township 25S	Range 29E	Lot Idn	Feet from the 322	North/South Line North	Feet from the 2085	East/West line West	County Eddy
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<sup>11</sup> Bottom Hole Location

Ul or lot no. N	Section 23	Township 25S	Range 29E	Lot Idn	Feet from the 365	North/South Line South	Feet from the 1991	East/West line West	County Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 4/30/15	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

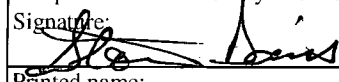
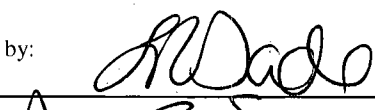
III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
265309	Permian Transport and Trading 415 W. Wall - Ste 1000 Midland, TX 79701	O
241472	Southern Union Gas Services, Ltd 301 Commerce Street - Ste 700 Fort Worth, TX 76102	G
	NM OIL CONSERVATION ARTESIA DISTRICT	
	MAY 26 2015	
	RECEIVED	

IV. Well Completion Data

<sup>21</sup> Spud Date 12/11/14	<sup>22</sup> Ready Date 4/16/15	<sup>23</sup> TD 12215' 7828	<sup>24</sup> PBSD 12135'	<sup>25</sup> Perforations 7977-12095'	<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"	854'	850		
12 1/4"	9 5/8"	3267'	4377		
7 7/8"	5 1/2"	12190'	1675 (TOC @ 750')		
	2 7/8"	7295'			

V. Well Test Data

<sup>31</sup> Date New Oil 4/30/15	<sup>32</sup> Gas Delivery Date 4/30/15	<sup>33</sup> Test Date 5/20/15	<sup>34</sup> Test Length 24 Hrs	<sup>35</sup> Tbg. Pressure 600#	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil 512	<sup>39</sup> Water 2368	<sup>40</sup> Gas 2100		<sup>41</sup> Test Method Pumping
<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: D. B. Sperry		
E-mail Address: sdavis@concho.com			Approval Date: 5-29-15		
Date: 5/21/15		Phone: 575-748-6946			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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. NMNM120895
2. Name of Operator COG PRODUCTION LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2208 W MAIN STREET 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. PATRON 23 FEDERAL 2H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T25S R29E Mer. NMP NENW 322FNL 2085FWL		9. API Well No. 30-015-42449
		10. Field and Pool, or Exploratory WILLOW LAKE; BONE SPRING
		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 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.)

2/3/15 MIRU. Install test plug & test to 9500# for 15 mins. Good test. Load & test 9 5/8" x 5 1/2" annulus to 1500# for 15 mins. Good test. Ran CBL. TOC @ 750'. Set CBP @ 12135'. Test to 8560#. Perforate 12085-12095' (60) & perform injection test.

3/2/15 to 3/8/15 Perforate Bone Spring 7977-12035' (972). Acidz w/87336 gal 7 1/2%; frac w/6420645# sand & 6686671 gal fluid.

3/14/15 to 4/14/15 Drilled out frac plugs. Left frac plug @ 12055' & CBP @ 12135'. Circulate clean.

4/16/15 Set 2 7/8" 6.5# J-55 tbg @ 7295'. Place well on pump.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

MAY 26 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #302501 verified by the BLM Well Information System For COG PRODUCTION LLC, sent to the Carlsbad</b>		<i>LED 6/2/15</i> <b>Accepted for record NMOCB</b>
Name (Printed/Typed) STORMI DAVIS	Title REGULATORY ANALYST	
Signature (Electronic Submission)	Date 05/21/2015	

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____

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 \*\***

**Additional data for EC transaction #302501 that would not fit on the form**

**32. Additional remarks, continued**

4/17/15 Began flowing back & testing.

4/30/15 Date of 1st production.

# NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAY 26 2015

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED

5. Lease Serial No.  
NMNM120895

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG PRODUCTION LLC			8. Lease Name and Well No. PATRON 23 FEDERAL 2H		
3. Address 2208 W MAIN ST ARTESIA, NM 88210			9. API Well No. 30-015-42449		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 23 T25S R29E Mer NMP At surface NENW 322FNL 2085FWL At top prod interval reported below Sec 23 T25S R29E Mer NMP At total depth SESW 365FSL 1991FWL			10. Field and Pool, or Exploratory WILLOW LAKE; BONE SPRING		
			11. Sec., T., R., M., or Block and Survey or Area Sec 23 T25S R29E Mer NMP		
			12. County or Parish EDDY		13. State NM
14. Date Spudded 12/11/2014		15. Date T.D. Reached 01/10/2015		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/16/2015	
17. Elevations (DF, KB, RT, GL)* 3113 GL					
18. Total Depth: MD 12215 TVD 7828		19. Plug Back T.D.: MD 12135 TVD 7826		20. Depth Bridge Plug Set: MD 12135 TVD 7826	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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	854		850		0	
12.250	9.625 J55	36.0	0	3267	950	4377		0	
7.875	5.500 P110	17.0	0	12190		1675		750	

### 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	7295							

### 25. Producing Intervals

### 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7977	12095	7977 TO 12035	0.430	972	OPEN
B)			12085 TO 12095		60	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7977 TO 12035	SEE IN REMARKS

### 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
04/30/2015	05/20/2015	24	→	512.0	2100.0	2350.0			ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. 600 SI	Csg. Press.	24 Hr. Rate →	Oil BBL 512	Gas MCF 2100	Water BBL 2350	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 Status	

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

ELECTRONIC SUBMISSION #302500 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
LAMAR	3272	3309		RUSTLER	681
BELL CANYON	3310	4172		TOS	1244
CHERRY CANYON	4173	5442		BOS	3083
BRUSHY CANYON	5443	7045		LAMAR	3272
BONE SPRING LM	7046	7846		BELL CANYON	3310
				CHERRY CANYON	4173
				BRUSHY CANYON	5443
				BONE SPRING LM	7046

## 32. Additional remarks (include plugging procedure):

Perfs 7 1/2" Sand (#) Fluid (gal)  
 11934-12035 4032 247847 269682  
 11781-11883 3024 248209 325942  
 11629-11707 4536 244231 263130  
 11482-11578 3024 244245 243726  
 11327-11426 3024 245664 246142  
 11174-11274 3024 250173 244902  
 11021-11122 3024 247925 242634

## 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 #302500 Verified by the BLM Well Information System.  
 For COG PRODUCTION LLC, sent to the Carlsbad

Name (please print) STORMI DAVIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/21/2015

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 \*\***

**Additional data for transaction #302500 that would not fit on the form**

**32. Additional remarks, continued**

10868-10970 4512 248419 247314  
10716-10822 3066 246092 245784  
10564-10665 3066 245660 245322  
10412-10516 3066 248755 254058  
10260-10361 3024 9105 135366  
10107-10207 3108 247372 256620  
9955-10057 3066 244971 247044  
9808-9905 3066 245440 243264  
9651-9752 3066 245952 242172  
9499-9600 3108 247349 242004  
9347-9448 3024 247276 241584  
9194-9296 3024 246180 248682  
9042-9142 2982 244194 285222  
8890-8991 3024 248947 245238  
8738-8839 3234 242869 241668  
8586-8687 3822 250106 258510  
8434-8530 3024 245875 239694  
8287-8383 3024 245303 244272  
8129-8231 3318 247486 241080  
7977-8078 3024 245000 245616  
Totals 87336 6420645 6686671

Surveys are attached.