

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-104

SEP 11 2017

Revised August 1, 2011

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 - 015-44103	<sup>5</sup> Pool Name WC-015 G-03 S252636M; Bone Spring	<sup>6</sup> Pool Code 97818
<sup>7</sup> Property Code 315065	<sup>8</sup> Property Name Populus Federal	<sup>9</sup> Well Number 4H

**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
D	29	25S	27E		210	North	990	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
M	29	25S	27E		201	South	650	West	Eddy

<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code F	<sup>14</sup> Gas Connection Date 8/21/17	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
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**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
16696	Oxy USA Inc PO Box 4294 Houston, TX 77210	O
	Lucid Energy	G

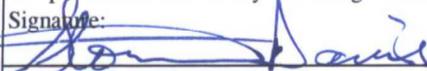
**IV. Well Completion Data**

<sup>21</sup> Spud Date 4/29/17	<sup>22</sup> Ready Date 8/17/17	<sup>23</sup> TD 12105' / 7409'	<sup>24</sup> PBTD 11975'	<sup>25</sup> Perforations 7565-11950'	<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"	370'	520		✓
12 1/4"	9 5/8"	2000'	810		✓
8 3/4"	5 1/2"	12082'	2110		✓
	2 7/8"	6793'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 8/18/17	<sup>32</sup> Gas Delivery Date 8/21/17	<sup>33</sup> Test Date 8/18/17	<sup>34</sup> Test Length 24 Hrs	<sup>35</sup> Tbg. Pressure 560#	<sup>36</sup> Csg. Pressure 190#
<sup>37</sup> Choke Size 34/64"	<sup>38</sup> Oil 22	<sup>39</sup> Water 1311	<sup>40</sup> Gas 300		<sup>41</sup> Test Method 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: 

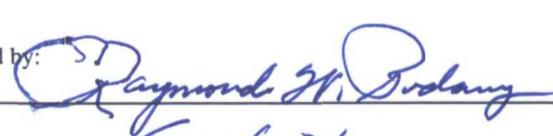
Printed name:  
Stormi Davis

Title:  
Regulatory Analyst

E-mail Address:  
sdavis@concho.com

Date:  
9/5/17

Phone:  
575-748-6946

OIL CONSERVATION DIVISION	
Approved by: 	
Title: Geology St.	
Approval Date: 9-11-2017	

Pending BLM approvals will subsequently be reviewed and scanned

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

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 OPERATING LLC			8. Lease Name and Well No. POPULUS FEDERAL 4H		
3. Address 2208 WEST MAIN ARTESIA, NM 88210			9. API Well No. 30-015-44103		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 29 T25S R27E Mer NMP At surface NWNW 210FNL 990FWL  At top prod interval reported below Sec 29 T25S R27E Mer NMP At total depth SWSW 201FSL 650FWL			10. Field and Pool, or Exploratory WILDCAT; BONE SPRING		
14. Date Spudded 04/29/2017			15. Date T.D. Reached 05/08/2017		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/17/2017			17. Elevations (DF, KB, RT, GL)* 3137 GL		
18. Total Depth: MD 12105 TVD 7409		19. Plug Back T.D.: MD 11975 TVD 7409		20. Depth Bridge Plug Set: MD 11975 TVD 7409	
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	370		430		0	
12.250	9.625 J55	40.0	0	2000		785		0	
8.750	5.500 P110	17.0	0	12082		2000		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	6793	6773						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7565	11950	7565 TO 11900	0.430	1232	OPEN
B)			11940 TO 11950		60	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7565 TO 11900	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
08/18/2017	08/18/2017	24	→	22.0	300.0	1311.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
34/64	SI 560	190.0	→	22	300	1311		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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well	
	SI		→						

Pending BLM approvals will subsequently be reviewed and scanned

AC 9-12-17

Populus Federal 4H

From Bottom to Top	Stage 1	Distance Between Perfs	Shots	Stage 2	Distance Between Perfs	Shots	Stage 3	Distance Between Perfs	Shots	Stage 4	Distance Between Perfs	Shots	Stage 5	Distance Between Perfs	Shots
	11,900	19	6	11,756	28	6	11,589	19	6	11,431	23	6	11,278	19	6
	11,861	20	6	11,725	19	6	11,570	20	6	11,414	19	6	11,259	20	6
	11,831	22	6	11,706	20	6	11,550	19	6	11,395	20	6	11,239	20	6
	11,839	17	6	11,686	19	6	11,531	20	6	11,375	19	6	11,219	19	6
	11,803	20	5	11,667	20	5	11,511	17	5	11,356	19	5	11,200	15	5
	11,783	19	5	11,647	16	5	11,489	17	5	11,365	16	5	11,185	24	5
	11,764	19	5	11,631	23	5	11,472	18	5	11,320	23	5	11,161	19	5
	11,764	19	5	11,608	23	5	11,454	18	5	11,327	23	5	11,142	19	5
Plug to Plug	11,920	178	44	Plug to Plug	147	44	Plug to Plug	158	44	Plug to Plug	153	44	Plug to Plug	161	44
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

From Bottom to Top	Stage 6	Distance Between Perfs	Shots	Stage 7	Distance Between Perfs	Shots	Stage 8	Distance Between Perfs	Shots	Stage 9	Distance Between Perfs	Shots	Stage 10	Distance Between Perfs	Shots
	11,117	25	6	10,967	19	6	10,804	27	6	10,656	19	6	10,490	30	6
	11,100	16	6	10,947	19	6	10,788	17	6	10,656	19	6	10,474	17	6
	11,084	20	6	10,928	22	6	10,771	18	6	10,617	18	6	10,457	15	6
	11,064	24	6	10,906	17	6	10,753	18	6	10,601	23	6	10,442	19	6
	11,040	15	5	10,889	19	5	10,735	21	5	10,578	19	5	10,423	20	5
	11,025	19	5	10,870	20	5	10,714	19	5	10,559	20	5	10,403	19	5
	11,006	20	5	10,850	19	5	10,695	20	5	10,539	19	5	10,384	20	5
	10,986	15	5	10,831	19	5	10,675	20	5	10,520	19	5	10,364	20	5
Plug to Plug	11,925	150	44	Plug to Plug	163	44	Plug to Plug	148	44	Plug to Plug	166	44	Plug to Plug	145	44
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

From Bottom to Top	Stage 11	Distance Between Perfs	Shots	Stage 12	Distance Between Perfs	Shots	Stage 13	Distance Between Perfs	Shots	Stage 14	Distance Between Perfs	Shots	Stage 15	Distance Between Perfs	Shots
	10,345	19	6	10,187	26	6	10,034	19	6	9,886	32	6	9,723	19	6
	10,322	16	6	10,170	20	6	10,014	19	6	9,868	17	6	9,698	14	6
	10,306	19	6	10,150	19	6	9,995	16	6	9,833	16	6	9,684	19	6
	10,287	20	6	10,131	19	6	9,979	23	6	9,817	16	6	9,665	20	6
	10,267	19	5	10,112	20	5	9,955	19	5	9,801	20	5	9,645	19	5
	10,248	20	5	10,092	19	5	9,937	20	5	9,781	19	5	9,626	20	5
	10,228	15	5	10,073	20	5	9,917	19	5	9,762	20	5	9,606	19	5
	10,213	13	5	10,053	19	5	9,898	21	5	9,742	20	5	9,587	19	5
Plug to Plug	10,353	151	44	Plug to Plug	160	44	Plug to Plug	168	44	Plug to Plug	143	44	Plug to Plug	154	44
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

From Bottom to Top	Stage 16	Distance Between Perfs	Shots	Stage 17	Distance Between Perfs	Shots	Stage 18	Distance Between Perfs	Shots	Stage 19	Distance Between Perfs	Shots	Stage 20	Distance Between Perfs	Shots
	9,583	24	6	9,412	26	6	9,250	26	6	9,101	19	6	8,939	26	6
	9,568	20	6	9,397	20	6	9,233	18	6	9,081	19	6	8,922	16	6
	9,528	19	6	9,367	19	6	9,217	19	6	9,062	20	6	8,906	19	6
	9,509	19	6	9,348	14	6	9,198	23	6	9,042	19	6	8,887	23	6
	9,490	20	5	9,334	18	5	9,175	16	5	9,023	16	5	8,864	16	5
	9,470	19	5	9,316	21	5	9,159	18	5	9,007	23	5	8,846	19	5
	9,451	13	5	9,295	19	5	9,141	21	5	8,984	19	5	8,829	20	5
	9,438	13	5	9,276	19	5	9,120	21	5	8,965	19	5	8,809	20	5
Plug to Plug	9,577	157	44	Plug to Plug	162	44	Plug to Plug	149	44	Plug to Plug	162	44	Plug to Plug	149	44
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

From Bottom to Top	Stage 21	Distance Between Perfs	Shots	Stage 22	Distance Between Perfs	Shots	Stage 23	Distance Between Perfs	Shots	Stage 24	Distance Between Perfs	Shots	Stage 25	Distance Between Perfs	Shots
	8,730	19	6	8,625	22	6	8,472	19	6	8,313	30	6	8,168	19	6
	8,710	19	6	8,610	15	6	8,459	19	6	8,297	16	6	8,148	19	6
	8,751	22	6	8,595	19	6	8,440	24	6	8,281	16	6	8,129	20	6
	8,729	17	6	8,576	25	6	8,416	15	6	8,265	20	6	8,109	19	6
	8,712	18	5	8,551	14	5	8,401	19	5	8,245	19	5	8,090	23	5
	8,694	21	5	8,537	19	5	8,382	20	5	8,226	19	5	8,067	16	5
	8,673	19	5	8,518	20	5	8,362	19	5	8,207	20	5	8,051	18	5
	8,654	19	5	8,498	20	5	8,343	19	5	8,187	20	5	8,033	18	5
Plug to Plug	8,798	165	44	Plug to Plug	146	44	Plug to Plug	168	44	Plug to Plug	145	44	Plug to Plug	158	44
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

From Bottom to Top	Stage 26	Distance Between Perfs	Shots	Stage 27	Distance Between Perfs	Shots	Stage 28	Distance Between Perfs	Shots	Stage 29	Distance Between Perfs	Shots	Stage 30	Distance Between Perfs	Shots
	8,010	23	6	7,880	19	6	7,700	19	6						
	7,993	20	6	7,837	19	6	7,683	21	6						
	7,973	19	6	7,818	20	6	7,662	19	6						
	7,954	20	6	7,798	19	6	7,643	20	6						
	7,934	19	5	7,779	20	5	7,623	24	5						
	7,915	14	5	7,759	19	5	7,599	14	5						
	7,891	22	5	7,740	21	5	7,585	20	5						
	7,879	14	5	7,719	19	5	7,565	20	5						
Plug to Plug	8,018	150	44	Plug to Plug	160	44	Plug to Plug	65	44	Plug to Plug	0	0	Plug to Plug	0	0
			Total Shots			Total Shots			Total Shots			Total Shots			Total Shots

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM 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.  
NMNM114348

6. If Indian, Allottee or Tribe Name

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

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
POPULUS FEDERAL 4H

2. Name of Operator  
COG OPERATING LLC

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

9. API Well No.  
30-015-44103

3a. Address  
2208 WEST MAIN  
ARTESIA, NM 88210

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

10. Field and Pool or Exploratory Area  
WILDCAT; BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 29 T25S R27E Mer NMP NWNW 210FNL 990FWL

11. County or Parish, State  
EDDY COUNTY, NM

**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 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 must 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 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.

5/23/17 Test csg to 1500# for 30 mins. Ran CBL. TOC @ surface. Set CBP @ 11975'. Test to 8336#. Perf 11940-11950' (60). Injection test.

7/12/17 to 7/17/17 Perf 7565-11900' (1232). Acdz w/85,596 gal 7 1/2%; frac w/8,744,073# sand & 9,467,934 gal fluid.

8/1/17 to 8/2/17 Drilled out CFP's. Clean down to CBP @ 11975'.

8/9/17 Set 2 7/8" 6.5# J-55 tbg @ 6793' & pkr @ 6773'. Installed gas-lift system.

8/17/17 Began flowing back & testing.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
SEP 11 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #387527 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 09/06/2017

**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 \_\_\_\_\_

Pending BLM approvals will  
subsequently be reviewed  
and scanned

Initialed \_\_\_\_\_

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**

SC 9-12-17

**Additional data for EC transaction #387527 that would not fit on the form**

**32. Additional remarks, continued**

8/18/17 Date of first production.