

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<br><b>COG Operating LLC</b><br>One Concho Center<br>600 W. Illinois Ave.<br>Midland, TX 79701 |  | <sup>2</sup> OGRID Number<br>229137  |
|  |  | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW Effective 12/10/16 |
| <sup>4</sup> API Number<br>30 - 015-42967  | <sup>5</sup> Pool Name<br><i>Artesia, Blor-Yeso (o)</i><br><del>Matjamar, Yeso, West</del> | <sup>6</sup> Pool Code<br><del>44500</del> 96830                             |
| <sup>7</sup> Property Code<br>313860   | <sup>8</sup> Property Name<br>Halberd 27 State Com   | <sup>9</sup> Well Number<br>1H   |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 26      | 17S      | 28E   |         | 1003          | South            | 65            | 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                           | 27  | 17S  | 28E                               |                                    | 914                                 | South            | 365           | West           | Eddy   |
| <sup>12</sup> Lse Code<br>P | <sup>13</sup> Producing Method<br>Code<br>P | <sup>14</sup> Gas Connection<br>Date<br>12/10/16 | <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<br>OGRID | <sup>19</sup> Transporter Name<br>and Address   | <sup>20</sup> O/G/W |
|------------------------------------|---|---------------------|
|                                    | Navajo Crude Oil Marketing  | O                   |
|                                    | DCP Midstream <b>NM OIL CONSERVATION</b><br>ARTESIA DISTRICT<br>JAN 12 2017<br>RECEIVED | G                   |
|                                    |   |                     |
|                                    |   |                     |
|                                    |   |                     |

IV. Well Completion Data

|                                    |                                      |                                    |                            |   |                       |
|------------------------------------|--------------------------------------|------------------------------------|----------------------------|---|-----------------------|
| <sup>21</sup> Spud Date<br>10/7/16 | <sup>22</sup> Ready Date<br>12/10/16 | <sup>23</sup> TD<br>8798MD 3850TVD | <sup>24</sup> PBDT<br>8700 | <sup>25</sup> Perforations<br>4271 - 8711 | <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                               | 380                                | 450sx                      |   |                       |
| 12-1/4                             | 9-5/8                                | 927                                | 450sx                      |   |                       |
| 8-3/4                              | 7                                    | 3229                               |                            |   |                       |
| 8-3/4                              | 5-1/2                                | 8798                               | 2200sx                     |   |                       |
|                                    | 2-7/8 tbg                            | 3280                               |                            |   |                       |

V. Well Test Data

|  |   |                                   |                                    |                                   |                                   |
|--|---|-----------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| <sup>31</sup> Date New Oil<br>12/25/16 | <sup>32</sup> Gas Delivery Date<br>1/2/17 | <sup>33</sup> Test Date<br>1/5/17 | <sup>34</sup> Test Length<br>24hrs | <sup>35</sup> Tbg. Pressure<br>70 | <sup>36</sup> Csg. Pressure<br>70 |
| <sup>37</sup> Choke Size               | <sup>38</sup> Oil<br>77                   | <sup>39</sup> Water<br>2786       | <sup>40</sup> Gas<br>181           |                                   | <sup>41</sup> Test Method<br>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:

*Kanicia Castillo*

Printed name:  
Kanicia Castillo

Title:  
Lead Regulatory Analyst

E-mail Address:  
kcastillo@concho.com

Date:  
1/08/17

Phone:  
432-685-4332

OIL CONSERVATION DIVISION

Approved by:

*Raymond M. Palang*  
Geologist

Approval Date:  
3-8-2017

8

GCP 6-17-16

| Submit To Appropriate District Office<br>Two Copies<br><u>District I</u><br>1625 N. French Dr., Hobbs, NM 88240<br><u>District II</u><br>811 S. First St., Artesia, NM 88210<br><u>District III</u><br>1000 Rio Brazos Rd., Aztec, NM 87410<br><u>District IV</u><br>1220 S. St. Francis Dr., Santa Fe, NM 87505   | <b>State of New Mexico</b><br><b>Energy, Minerals and Natural Resources</b><br><br><b>Oil Conservation Division</b><br><b>1220 South St. Francis Dr.</b><br><b>Santa Fe, NM 87505</b> | <b>Form C-105</b><br>Revised August 1, 2011<br>1. WELL API NO.<br><div style="text-align: right;">30-015-42967</div> 2. Type of Lease<br><input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> FED/INDIAN<br>3. State Oil & Gas Lease No. |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
|--|---|---|--------------------------------------|-----------------------------------|---------------------|---|---|--|------------|---------------|----------------|-------------------------------|-------------|--|
| <b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 4. Reason for filing:<br><input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)<br><input checked="" type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC) |   | 5. Lease Name or Unit Agreement Name<br>Halberd 27 State.com<br>6. Well Number: 1H<br><div style="text-align: right;"> <b>ARTESIA DISTRICT</b><br/> <b>JAN 12 2017</b> </div>   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 7. Type of Completion:<br><input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER  |   | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b> </div>  |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 8. Name of Operator<br><div style="text-align: center;">COG Operating LLC</div>  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 10. Address of Operator<br><div style="text-align: center;">           One Concho Center,<br/>           600 W. Illinois Avenue<br/>           Midland, TX 79701         </div>  |   | 11. Pool name or Wildcat<br><div style="text-align: right;">           Red Lake/Glorieta-Yeso, Northeast    96836         </div>  |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 12. Location   | Unit Ltr  | Section   | Township                             | Range                             | Lot                 | Feet from the   | N/S Line                                    | Feet from the  | E/W Line   | County        |                |                               |             |  |
| Surface:   | M   | 26  | 17S                                  | 28E                               |                     | 1003  | South                                       | 65   | West       | Eddy          |                |                               |             |  |
| BH:  | M   | 27  | 17S                                  | 28E                               |                     | 914   | South                                       | 365  | West       | Eddy          |                |                               |             |  |
| 13. Date Spudded<br>10/07/16   |   | 14. Date T.D. Reached<br>10/15/16   |                                      | 15. Date Rig Released<br>10/17/16 |                     | 16. Date Completed (Ready to Produce)<br>12/10/16   |   | 17. Elevations (DF and RKB, RT, GR, etc.) 3680' GR         |            |               |                |                               |             |  |
| 18. Total Measured Depth of Well<br>8798   |   |   | 19. Plug Back Measured Depth<br>8700 |                                   |                     | 20. Was Directional Survey Made?<br>Yes   |   | 21. Type Electric and Other Logs Run<br>CNL/Micro CFL/HNGS |            |               |                |                               |             |  |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name<br><div style="text-align: center;">4271 - 8711 YESO</div>   |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| <b>23. CASING RECORD (Report all strings set in well)</b>  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| CASING SIZE  |   | WEIGHT LB./FT.  |                                      | DEPTH SET                         |                     | HOLE SIZE   |   | CEMENTING RECORD   |            | AMOUNT PULLED |                |                               |             |  |
| 13-3/8   |   | 54.5#   |                                      | 380                               |                     | 17-1/2  |   | 450sx  |            |               |                |                               |             |  |
| 9-5/8  |   | 40#   |                                      | 927                               |                     | 12-1/4  |   | 450sx  |            |               |                |                               |             |  |
| 7  |   | 29  |                                      | 3229                              |                     | 8-3/4   |   |  |            |               |                |                               |             |  |
| 5-1/2  |   | 17#   |                                      | 8798                              |                     | 8-3/4   |   | 2200sx   |            |               |                |                               |             |  |
| <b>24. LINER RECORD</b>  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| SIZE   | TOP   | BOTTOM  |                                      | SACKS CEMENT                      | SCREEN              |   | 25. TUBING RECORD                           |  |            |               |                |                               |             |  |
|  |   |   |                                      |                                   |                     |   | SIZE  | DEPTH SET  | PACKER SET |               |                |                               |             |  |
|  |   |   |                                      |                                   |                     |   | 2-7/8                                       | 3280   |            |               |                |                               |             |  |
| 26. Perforation record (interval, size, and number)<br>4271 - 8711 43 900 holes, Open  |   |   |                                      |                                   |                     | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:40%;">DEPTH INTERVAL</th> <th style="width:60%;">AMOUNT AND KIND MATERIAL USED</th> </tr> <tr> <td style="text-align: center;">4271 - 8711</td> <td>Acidize 25 stages w/98,506 gals 15% HCL. Frac w/4,652,723 gals slick wtr, 308,138 gals treated wtr, 1,500,420# 100 mesh sand, 2,422,940# 40/70 White snd, 519,840# 40/70 Garnet snd.</td> </tr> </table> |   |  |            |               | DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED | 4271 - 8711 | Acidize 25 stages w/98,506 gals 15% HCL. Frac w/4,652,723 gals slick wtr, 308,138 gals treated wtr, 1,500,420# 100 mesh sand, 2,422,940# 40/70 White snd, 519,840# 40/70 Garnet snd. |
| DEPTH INTERVAL   | AMOUNT AND KIND MATERIAL USED   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 4271 - 8711  | Acidize 25 stages w/98,506 gals 15% HCL. Frac w/4,652,723 gals slick wtr, 308,138 gals treated wtr, 1,500,420# 100 mesh sand, 2,422,940# 40/70 White snd, 519,840# 40/70 Garnet snd.  |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| <b>28. PRODUCTION</b>  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| Date First Production<br>12/25/16  |   | Production Method (Flowing, gas lift, pumping - Size and type pump)<br>ESP Pump   |                                      |                                   |                     |   | Well Status (Prod. or Shut-in)<br>Producing |  |            |               |                |                               |             |  |
| Date of Test<br>1/05/17  | Hours Tested<br>24  | Choke Size  | Prod'n For Test Period               | Oil - Bbl<br>77                   | Gas - MCF<br>181    | Water - Bbl<br>2786   | Gas - Oil Ratio<br>2350                     |  |            |               |                |                               |             |  |
| Flow Tubing Press.<br>70   | Casing Pressure<br>70   | Calculated 24-Hour Rate   | Oil - Bbl<br>77                      | Gas - MCF<br>181                  | Water - Bbl<br>2786 | Oil Gravity - API - (Corr.)<br>39.6   |   |  |            |               |                |                               |             |  |
| 29. Disposition of Gas (Sold, used for fuel, vented, etc.)<br>Sold   |   |   |                                      |                                   |                     |   | 30. Test Witnessed By<br>Ron Beasley        |  |            |               |                |                               |             |  |
| 31. List Attachments<br>C-103, C-102, C-104, survey, C-144   |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.   |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| 33. If an on-site burial was used at the well, report the exact location of the on-site burial:  |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| Latitude Longitude NAD 1927 1983   |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |
| I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief<br>Signature  Printed Name Kanicia Castillo Title Lead Regulatory Analyst Date 1/06/17<br>E-mail Address kcastillo@concho.com   |   |   |                                      |                                   |                     |   |   |  |            |               |                |                               |             |  |

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico   |                  | Northwestern New Mexico |                  |
|---------------------------|------------------|-------------------------|------------------|
| T. Rustler                | T. Canyon        | T. Ojo Alamo            | T. Penn A"       |
| T. Tansil                 | T. Strawn        | T. Kirtland             | T. Penn. "B"     |
| B. Salt                   | T. Atoka         | T. Fruitland            | T. Penn. "C"     |
| T. Yates <u>560</u>       | T. Miss          | T. Pictured Cliffs      | T. Penn. "D"     |
| T. 7 Rivers <u>823</u>    | T. Devonian      | T. Cliff House          | T. Leadville     |
| T. Queen <u>1400</u>      | T. Silurian      | T. Menefee              | T. Madison       |
| T. Grayburg <u>1825</u>   | T. Montoya       | T. Point Lookout        | T. Elbert        |
| T. San Andres <u>2142</u> | T. Simpson       | T. Mancos               | T. McCracken     |
| T. Glorieta <u>3940</u>   | T. McKee         | T. Gallup               | T. Ignacio Otzte |
| T. Paddock <u>4043</u>    | T. Ellenburger   | Base Greenhorn          | T. Granite       |
| T. Blinebry               | T. Gr. Wash      | T. Dakota               |                  |
| T. Tubb                   | T. Delaware Sand | T. Morrison             |                  |
| T. Drinkard               | T. Bone Springs  | T. Todilto              |                  |
| T. Abo                    | T. Yeso          | T. Entrada              |                  |
| T. Wolfcamp               | T.               | T. Wingate              |                  |
| T. Penn                   | T.               | T. Chinle               |                  |
| T. Cisco (Bough C)        | T.               | T. Permian              |                  |

## OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....  
No. 2, from.....to..... No. 4, from.....to.....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
 No. 2, from.....to.....feet.....  
 No. 3, from.....to.....feet.....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness<br>In Feet | Lithology |
|------|----|----------------------|-----------|
|      |    |                      |           |