

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>Cimarex Energy Co. of Colorado<br>600 N. Marienfeld Street, Suite 600<br>Midland, TX 79701 |  | <sup>2</sup> OGRID Number<br>162683                                   |  |
| <sup>4</sup> API Number<br>30 - 015-37382  |  | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW - 1/13/2014 |  |
| <sup>5</sup> Pool Name<br>Black River ; Delaware, South Cottonwood Draw, B.S.  |  | <sup>6</sup> Pool Code<br>96451 - 97494                               |  |
| <sup>7</sup> Property Code<br>37906  |  | <sup>8</sup> Property Name<br>Marquardt 1 Federal                     |  |
|  |  | <sup>9</sup> Well Number<br>13  |  |

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

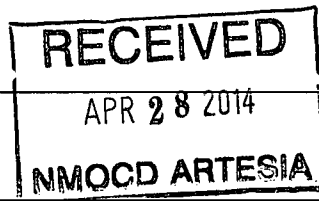
|                    |              |                 |              |         |                      |                           |                       |                        |                |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|----------------|
| UL or lot no.<br>O | Section<br>1 | Township<br>25S | Range<br>26E | Lot Idn | Feet from the<br>150 | North/South Line<br>SOUTH | Feet from the<br>1650 | East/West line<br>EAST | County<br>EDDY |
|--------------------|--------------|-----------------|--------------|---------|----------------------|---------------------------|-----------------------|------------------------|----------------|

<sup>11</sup> Bottom Hole Location

|                             |   |   |                                   |                                    |                                     |                           |                       |                        |                |
|-----------------------------|---|---|-----------------------------------|------------------------------------|-------------------------------------|---------------------------|-----------------------|------------------------|----------------|
| UL or lot no.<br>B          | Section<br>1                                | Township<br>25S                                   | Range<br>26E                      | Lot Idn                            | Feet from the<br>338                | North/South line<br>NORTH | Feet from the<br>1842 | East/West line<br>EAST | County<br>EDDY |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method<br>Code<br>P | <sup>14</sup> Gas Connection<br>Date<br>1/18/2014 | <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 |
| 21778                              | Sunoco Inc. R & M<br>P O Box 2039; Tulsa OK        |                     |
| 226737                             | DCP Midstream.<br>370 17th St., Ste 2500 Denver CO |                     |
|                                    |  |                     |
|                                    |  |                     |
|                                    |  |                     |
|                                    |  |                     |



IV. Well Completion Data

|                                    |                                       |                             |                               |   |                       |
|------------------------------------|---------------------------------------|-----------------------------|-------------------------------|---|-----------------------|
| <sup>21</sup> Spud Date<br>11/3/13 | <sup>22</sup> Ready Date<br>1/13/2014 | <sup>23</sup> TD<br>11,794' | <sup>24</sup> PBDT<br>11,780' | <sup>25</sup> Perforations<br>7137' - 11,765' | <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"                               | 460'                        | 500                           |   |                       |
| 12 1/4"                            | 9 5/8"                                | 1,970'                      | 580                           |   |                       |
| 8 1/2"                             | 5 1/2"                                | 11,794'                     | 1985 TOC 0                    |   |                       |
|                                    | 2 3/8                                 | 6,551'                      |                               |   |                       |

V. Well Test Data

|   |  |                                       |                                       |                                    |                                   |
|---|--|---------------------------------------|---------------------------------------|------------------------------------|-----------------------------------|
| <sup>31</sup> Date New Oil<br>1/16/2014 | <sup>32</sup> Gas Delivery Date<br>1/18/2014 | <sup>33</sup> Test Date<br>01/29/2014 | <sup>34</sup> Test Length<br>24 hours | <sup>35</sup> Tbg. Pressure<br>570 | <sup>36</sup> Csg. Pressure<br>15 |
| <sup>37</sup> Choke Size<br>35/64       | <sup>38</sup> Oil<br>1298                    | <sup>39</sup> Water<br>696            | <sup>40</sup> Gas<br>2182             | <sup>41</sup> Test Method          |                                   |

|  |                        |   |  |
|--|------------------------|---|--|
| <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.<br>Signature: Aricka Easterling |                        | OIL CONSERVATION DIVISION                                       |  |
| Printed name:<br>Aricka Easterling   |                        | Approved by: RRDade   |  |
| Title:<br>Regulatory Analyst   |                        | Title: DIST H SUPERVISOR  |  |
| E-mail Address:<br>aeasterling@cimarex.com   |                        | Approval Date: 4/30/2014  |  |
| Date:<br>4/11/14   | Phone:<br>918-560-7060 | Pending BLM approvals will subsequently be reviewed and scanned |  |

Confidential Status expired 4-13-14

3160-4  
3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMNM14124

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| 1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" 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.<br>Other _____  |  |  | 7. Unit or CA Agreement Name and No.                                     |  |  |
| 2. Name of Operator<br>CIMAREX ENERGY COMPANY  |  |  | Contact: ARICKA EASTERLING<br>E-Mail: aeasterling@cimarex.com            |  |  |
| 3. Address 202 S. CHEYENNE, SUITE 1000<br>TULSA, OK 74103  |  |  | 3a. Phone No. (include area code)<br>Ph: 918-560-7060                    |  |  |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>At surface SWSE 150FSL 1650FEL<br>At top prod interval reported below SWSE 150FSL 1650FEL<br>At total depth NWNE 338FNL 1842FEL  |  |  | 8. Lease Name and Well No.<br>MARQUARDT 1 FEDERAL 13                     |  |  |
| 14. Date Spudded<br>11/03/2013   |  |  | 15. Date T.D. Reached<br>11/16/2013                                      |  |  |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>01/13/2014  |  |  | 9. API Well No.<br>30-015-37382  |  |  |
| 18. Total Depth: MD 11794<br>TVD 7120  |  |  | 19. Plug Back T.D.: MD 11780<br>TVD                                      |  |  |
| 20. Depth Bridge Plug Set: MD<br>TVD   |  |  | 10. Field and Pool, or Exploratory<br>BLACK RIVER, DELAWARE, SO          |  |  |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>DSN & DLL   |  |  | 11. Sec., T., R., M., or Block and Survey<br>or Area Sec 1 T25S R26E Mer |  |  |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) |  |  | 12. County or Parish<br>EDDY   |  |  |
| 13. State<br>NM  |  |  | 17. Elevations (DF, KB, RT, GL)*<br>3272 GL                              |  |  |

## 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 | 48.0        | 0        | 460         |                      | 500                          |                   | 0           | 122           |
| 12.250    | 9.625 J55  | 40.0        | 0        | 1970        |                      | 580                          |                   | 0           | 164           |
| 8.500     | 5.500 P110 | 17.0        | 0        | 11794       |                      | 1985                         |                   | 0           | 190           |
|           |            |             |          |             |                      |                              |                   |             |               |
|           |            |             |          |             |                      |                              |                   |             |               |

## 24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.375 | 6551           | 6551              |      |                |                   |      |                |                   |

## 25. Producing Intervals

| Formation      | Top  | Bottom | Perforated Interval | Size  | No. Holes | Perf. Status |
|----------------|------|--------|---------------------|-------|-----------|--------------|
| A) BONE SPRING | 7137 | 11765  | 7137 TO 11765       | 0.540 | 432       | OPEN         |
| B)             |      |        |                     |       |           |              |
| C)             |      |        |                     |       |           |              |
| D)             |      |        |                     |       |           |              |

## 26. Perforation Record

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

| Depth Interval | Amount and Type of Material                              |
|----------------|--|
| 7137 TO 11765  | FRAC WITH 1,916,338- GAL TOTAL FLUID & 3,008,431 # SAND. |
|                |  |
|                |  |

RECEIVED

APR 28 2014

NMOCD ARTESIA

## 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 |
|---------------------|----------------------|----------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
| 01/16/2014          | 01/29/2014           | 24             | →               | 1298.0  | 2182.0  | 696.0     | 44.3                  |             | GAS LIFT          |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press. SI | 24 Hr. Rate →   | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
| 35/64               | 570                  | 15.0           | →               | 1298    | 2182    | 696       | 1681                  | PGW         |                   |

## 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. SI | 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 #243158 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<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio            | Well Status |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date                  | Hours Tested | Test Production<br>→ | Oil BBL | Gas MCF | Water BBL | Oil Gravity<br>Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------------|--------------|----------------------|---------|---------|-----------|--------------------------|-------------|-------------------|
| Choke Size          | Tbg. Press.<br>Flwg.<br>SI | Csg. Press.  | 24 Hr. Rate<br>→     | 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 |
|           |     |        |                              | SALADO             | 1302        |
|           |     |        |                              | CASTILLE           | 1771        |
|           |     |        |                              | BELL CANYON        | 1985        |
|           |     |        |                              | CHERRY CANYON      | 2989        |
|           |     |        |                              | BRUSHY CANYON      | 3950        |
|           |     |        |                              | BONE SPRING        | 5436        |
|           |     |        |                              | BONE SPRING 1ST SS | 6356        |

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

Logs will be sent to the Carlsbad field office via Fed Ex.

## 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 #243158 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name (please print) ARICKA EASTERLING

Title REGULATORY ANALYST

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

Date 04/23/2014

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.*

**CONFIDENTIAL**

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

|  |   |   |
|--|---|---|
| 1. Type of Well<br><input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 5. Lease Serial No.<br>NMNM14124                                |
| 2. Name of Operator<br>CIMAREX ENERGY CO   |   | 6. If Indian, Allottee or Tribe Name                            |
| Contact: ARICKA EASTERLING<br>E-Mail: aeasterling@cimarex.com  |   | 7. If Unit or CA/Agreement, Name and/or No.                     |
| 3a. Address<br>CIMAREX ENERGY 202 S. CHEYENNE, SUITE 1000<br>TULSA, OK 74103   | 3b. Phone No. (include area code)<br>Ph: 918-585-1100<br>Fx: 918-749-8059 | 8. Well Name and No.<br>MARQUARDT, 1 FEDERAL 13                 |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 1 T25S R26E SWSE 150FSL 1650FEL                    |   | 9. API Well No.<br>30-015-37382                                 |
|  |   | 10. Field and Pool, or Exploratory<br>BALCK RIVER; DELAWARE SOU |
|  |   | 11. County or Parish, and State<br>EDDY COUNTY, NM              |

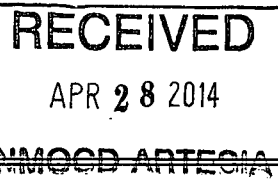
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| 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<br>Drilling Operations |
|   | <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.)

Completion:

1/1/14 Test Casing to 9000# for 30 min, Test good. TOC @ 0'.  
1/2/14 thru 1/8/14 Perf Bone Spring @ 7137-11765, 432 holes. Frac w/ 1,916,338 gal of total fluid & 3,008,431 # Sand.  
1/9/14 thru 1/10/14 Mill out plugs, wash to PBTD @ 11780. Flow Well.  
1/13/14 RIH w/ 2 3/8" tubing & packer set @ 6551'. GLV @ 1883, 2997, 3653, 4146, 4671, 5162, 5657, 6085, 6510. Turn well to production.



|  |                          |
|--|--------------------------|
| 14. I hereby certify that the foregoing is true and correct.<br><b>Electronic Submission #241673 verified by the BLM Well Information System<br/>For CIMAREX ENERGY CO, sent to the Carlsbad</b> |                          |
| Name (Printed/Typed) ARICKA EASTERLING   | Title REGULATORY ANALYST |
| Signature (Electronic Submission)  | Date 04/09/2014          |

**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 \*\***