

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011  
Permit 244867

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|   |  |                               |
|---|--|-------------------------------|
| 1. Operator Name and Address<br>CIMAREX ENERGY CO.<br>202 S. Cheyenne Ave.<br>Tulsa, OK 74103 |  | 2. OGRID Number<br>215099     |
| 4. Property Code<br>39359   |  | 3. API Number<br>30-025-44213 |
| 5. Property Name<br>CHIEF 30 STATE  |  | 6. Well No.<br>008H           |

**7. Surface Location**

|               |               |                 |              |              |                  |               |                  |               |               |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|
| UL - Lot<br>A | Section<br>30 | Township<br>20S | Range<br>35E | Lot Idn<br>A | Feet From<br>330 | N/S Line<br>N | Feet From<br>660 | E/W Line<br>E | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                  |               |                  |               |               |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|
| UL - Lot<br>P | Section<br>30 | Township<br>20S | Range<br>35E | Lot Idn<br>P | Feet From<br>330 | N/S Line<br>S | Feet From<br>660 | E/W Line<br>E | County<br>Lea |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|---------------|

**9. Pool Information**

|                          |      |
|--------------------------|------|
| BERRY;BONE SPRING, NORTH | 5535 |
|--------------------------|------|

**Additional Well Information**

|                           |                             |  |                         |                                    |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3705 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>16130 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>1/2/2018          |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☐ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 1960          | 1204            | 0             |
| Int1 | 12.25     | 9.625       | 40               | 5760          | 1367            | 0             |
| Prod | 8.75      | 5.5         | 17               | 16130         | 1537            | 5560          |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 2000             | 2000          | Cameron      |
| Double Ram | 3000             | 3000          | Cameron      |

|  |  |
|--|--|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.<br><br>Signature: | <b>OIL CONSERVATION DIVISION</b>                           |
| Printed Name: Electronically filed by Genea A Holloway   | Approved By: Paul Kautz                                    |
| Title: Prod Admin Supervisor   | Title: Geologist   |
| Email Address: gholloway@cimarex.com   | Approved Date: 11/20/2017      Expiration Date: 11/20/2019 |
| Date: 11/20/2017      Phone: 918-295-1658  | Conditions of Approval Attached                            |

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                     |  |  |  |   |                                   |
|-------------------------------------|--|--|--|---|-----------------------------------|
| <sup>1</sup> API Number<br>30-25    |  | <sup>2</sup> Pool Code<br>5535                   |  | <sup>3</sup> Pool Name<br>Berry; Bone Spring, North |                                   |
| <sup>4</sup> Property Code<br>39359 |  | <sup>5</sup> Property Name<br>CHIEF 30 STATE     |  |   | <sup>6</sup> Well Number<br>8H    |
| <sup>7</sup> OGRID No.<br>215099    |  | <sup>8</sup> Operator Name<br>CIMAREX ENERGY CO. |  |   | <sup>9</sup> Elevation<br>3705.3' |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 30      | 20S      | 35E   |         | 330           | NORTH            | 660           | EAST           | LEA    |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no.                        | Section | Township                      | Range | Lot Idn                          | Feet from the | North/South line        | Feet from the | East/West line | County |
|--------------------------------------|---------|-------------------------------|-------|----------------------------------|---------------|-------------------------|---------------|----------------|--------|
| P                                    | 30      | 20S                           | 35E   |                                  | 330           | SOUTH                   | 660           | EAST           | LEA    |
| <sup>12</sup> Dedicated Acres<br>160 |         | <sup>13</sup> Joint or Infill |       | <sup>14</sup> Consolidation Code |               | <sup>15</sup> Order No. |               |                |        |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                   |  |   |
|-------------------|--|---|
| <sup>16</sup><br> |  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Aricka Easterling</i> Date: 11/9/17</p> <p>Aricka Easterling</p> <p>Printed Name</p> <p>aeasterling@cimarex.com</p> <p>E-mail Address</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>October 13, 2017</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p></p> <p>Certificate Number:</p> |
|-------------------|--|---|

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Comments

Permit 244867

**PERMIT COMMENTS**

|  |  |                               |
|--|--|-------------------------------|
| Operator Name and Address:<br>CIMAREX ENERGY CO. [215099]<br>202 S. Cheyenne Ave.<br>Tulsa, OK 74103 |  | API Number:<br>30-025-44213   |
|  |  | Well:<br>CHIEF 30 STATE #008H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

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Form APD Conditions

Permit 244867

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

**PERMIT CONDITIONS OF APPROVAL**

|  |                               |
|--|-------------------------------|
| Operator Name and Address:<br>CIMAREX ENERGY CO. [215099]<br>202 S. Cheyenne Ave.<br>Tulsa, OK 74103 | API Number:<br>30-025-44213   |
|  | Well:<br>CHIEF 30 STATE #008H |

| OCD<br>Reviewer | Condition   |
|-----------------|---|
| pkautz          | Will require a directional survey with the C-104  |
| pkautz          | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string  |
| pkautz          | Pit construction and closure must satisfy all requirements of your approved plan.   |
| pkautz          | If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well.   |
| pkautz          | 1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --  |
| pkautz          | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement  |
| pkautz          | Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water  |
| pkautz          | 1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104                   |
| pkautz          | Stage Tool - 1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe. |
| pkautz          | Gas Capture Plan - Operator to Submit Gas Capture Plan ASAP.  |