

**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 164287

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

|                                                                                                             |                                    |                                                            |
|-------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------|
| 1. Operator Name and Address<br>CIMAREX ENERGY CO. OF COLORADO<br>600 N. Marienfeld St<br>Midland, TX 79701 |                                    | 2. OGRID Number<br>162683<br>3. API Number<br>30-025-41066 |
| 4. Property Code<br>39025                                                                                   | 5. Property Name<br>CHIEF 30 STATE | 6. Well No.<br>004                                         |

**7. Surface Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| D        | 30      | 20S      | 35E   | 1       | 660       | N        | 320       | W        | LEA    |

**8. Proposed Bottom Hole Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| A        | 30      | 20S      | 35E   | A       | 990       | N        | 330       | E        | 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>3696 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>15105 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>4/1/2013          |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Type | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 61               | 1906          | 1800            | 0             |
| Int1 | 12.25     | 9.625       | 40               | 5750          | 1800            | 0             |
| Prod | 8.75      | 5.5         | 17               | 15105         | 2300            | 4750          |

**Casing/Cement Program: Additional Comments**

|                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|
| After setting surf and int csg, drill 8-3/4" hole to KOP @ 10174' and KO lateral to TD @ 15105 MD/11000 TVD |
|-------------------------------------------------------------------------------------------------------------|

**22. Proposed Blowout Prevention Program**

| Type    | Working Pressure | Test Pressure | Manufacturer |
|---------|------------------|---------------|--------------|
| Annular | 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 type="checkbox"/> if applicable.<br>Signature:<br>Printed Name: Electronically filed by TERRI STATHEM<br>Title: Coord. Regulatory Compl<br>Email Address: tstathem@cimarex.com<br>Date: 3/18/2013 | <b>OIL CONSERVATION DIVISION</b><br>Approved By: Paul Kautz<br>Title: Geologist<br>Approved Date: 3/19/2013   Expiration Date: 3/19/2015<br>Conditions of Approval Attached |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

DISTRICT I  
1828 N. French Dr., Hobbs, NM 88240  
Phone (575) 593-5101 Fax: (575) 593-5720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 746-1853 Fax: (505) 746-5782

DISTRICT III  
1000 Rio Drazon Rd., Aztec, NM 87410  
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DISTRICT IV  
1820 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3400 Fax: (505) 476-3401

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to appropriate  
District Office

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

☐ AMENDED REPORT

|                        |                                                 |                                       |
|------------------------|-------------------------------------------------|---------------------------------------|
| API Number             | Pool Code<br>5535                               | Pool Name<br>Berry; Bone Spring North |
| Property Code<br>39025 | Property Name<br>CHIEF 30 STATE                 | Well Number<br>4                      |
| OGRID No.<br>162683    | Operator Name<br>CIMAREX ENERGY CO. Of Colorado | Elevation<br>3696                     |

**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             | 30      | 20 S     | 35 E  |         | 660           | NORTH            | 320           | WEST           | LEA    |

**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 |
|---------------------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| A                         | 30              | 20 S               | 35 E      |         | 990           | NORTH            | 330           | EAST           | LEA    |
| Dedicated Acres<br>160.12 | Joint or Infill | Consolidation Code | 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

|                                                                  |                                                                                                                                                         |                                    |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>N 565310.87<br/>E 798509.31</p> <p>LOT 1 S.L.</p> <p>320'</p> | <p><b>SURFACE LOCATION</b></p> <p>Lot - N 32°32'58.40"<br/>Long - W 103°30'14.91"<br/>NMSPCE- N 564653.9<br/>E 796835.1<br/>(NAD-83)</p> <p>4645.6'</p> | <p>N 565334.51<br/>E 799154.58</p> | <p>N 565361.07<br/>E 801792.98</p> <p>330'</p>                                                                                                        | <p><b>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 working interest, or is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>11/27/12</p> <p>Signature: Terri Stathem Date:</p> <p>Printed Name: tsthathem@cimarex.com</p> <p>Email Address:</p> |
| <p>N 562668.05<br/>E 796532.76</p> <p>LOT 2</p>                  |                                                                                                                                                         |                                    | <p><b>PROPOSED BOTTOM HOLE LOCATION</b></p> <p>Lot - N 32°32'55.21"<br/>Long - W 103°29'20.78"<br/>NMSPCE- N 564368.0<br/>E 801471.0<br/>(NAD-83)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>N 562718.48<br/>E 801814.18</p> <p>LOT 3</p>                  |                                                                                                                                                         |                                    |                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>N 560030.76<br/>E 796556.17</p> <p>LOT 4</p>                  |                                                                                                                                                         | <p>N 560051.56<br/>E 799200.88</p> | <p>N 560074.99<br/>E 801835.55</p>                                                                                                                    | <p><b>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>NOVEMBER 14 2012</p> <p>Date Surveyed: NEW MEXICO<br/>Signature: Gary L. Jones<br/>Professional Surveyor 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p><b>Basin Surveys</b></p>                                                                                                                                                                                                                      |

## Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: CHIEF 30 STATE #004

API: 30-025-41066

| Created By | Comment                                            | Comment Date |
|------------|----------------------------------------------------|--------------|
| CHERRERA   | OCD RECIEVED FORM C144 CLEZ. OCD PERMIT # P1-05919 | 3/19/2013    |
| pkautz     | Land p/S                                           | 3/19/2013    |

## Permit Conditions of Approval

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: CHIEF 30 STATE #004

API: 30-025-41066

| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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          | In order to seal off protectable water, the surface casing must be set 25' below the top of the Rustler Anhydrite.                                                                                                                                                   |