

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

**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>5215 N. O'CONNOR BLVD.<br>IRVING, TX 75039 |                                           | 2. OGRID Number<br>162683    |
|                                                                                                              |                                           | 3. API Number<br>30-05-29052 |
| 4. Property Code<br>36968                                                                                    | 5. Property Name<br>SARATOGA 30 STATE COM | 6. Well No.<br>002           |

**7. Surface Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| I        | 30      | 15S      | 31E   | I       | 2310      | S        | 330       | E        | CHAVES |

**8. Pool Information**

|             |       |
|-------------|-------|
| WILDCAT ABO | 97019 |
|-------------|-------|

**Additional Well Information**

|                                                                                                                                                                                                                                                                                                                                               |                             |                                        |                         |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 9. Work Type<br>New Well                                                                                                                                                                                                                                                                                                                      | 10. Well Type<br>OIL        | 11. Cable/Rotary                       | 12. Lease Type<br>State | 13. Ground Level Elevation<br>4430 |
| 14. Multiple<br>N                                                                                                                                                                                                                                                                                                                             | 15. Proposed Depth<br>13235 | 16. Formation<br>Abo                   | 17. Contractor          | 18. Spud Date<br>10/1/2008         |
| Depth to Ground water                                                                                                                                                                                                                                                                                                                         |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |
| Pit: Liner: Synthetic <input type="checkbox"/> mils thick    Clay <input type="checkbox"/> Pit Volume:      bbls    Drilling Method:<br>Closed Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/> |                             |                                        |                         |                                    |

**19. 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      | 48               | 350           | 330             | 0             |
| Int1   | 12.25     | 9.625       | 40               | 3950          | 940             | 0             |
| Prod   | 8.75      | 7           | 26               | 9250          | 477             | 3750          |
| Liner1 | 6.125     | 4.5         | 11.6             | 13235         | 0               |               |

**Casing/Cement Program: Additional Comments**

Drill pilot hole and set casing and cement. Set whipstock plug and mill window 8565' to 8575'. Kick off 6-1/8" hole at 8570' and drill to TD of MD 13235' and TVD 8790'. Run 4-1/2" PEAK liner, requiring no cement.

**Proposed Blowout Prevention Program**

| Type      | Working Pressure | Test Pressure | Manufacturer |
|-----------|------------------|---------------|--------------|
| DoubleRam | 5000             | 5000          | Cameron      |

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that the drilling pit will be constructed according to NMOCB guidelines ☐ a general permit ☐ or an (attached) alternative OCB-approved plan ☐.

Printed Name: Electronically filed by Zeno Farris

Title: Manager Operations Administration

Email Address: zfarris@magnumhunter.com

Date: 9/11/2008      Phone: 972-443-6489

**OIL CONSERVATION DIVISION**

Approved By: Paul Kautz

Title: Geologist

Approved Date: 9/17/2008

Expiration Date: 9/17/2010

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(505) 393-6161 Fax:(505) 393-0720

**District II**  
 1301 W. Grand Ave., Artesia, NM 88210  
 Phone:(505) 748-1283 Fax:(505) 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

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Form C-102  
 Permit 81627

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                              |                                                    |                             |
|------------------------------|----------------------------------------------------|-----------------------------|
| 1. API Number<br>30-05-29052 | 2. Pool Code<br>97019                              | 3. Pool Name<br>WILDCAT ABO |
| 4. Property Code<br>36968    | 5. Property Name<br>SARATOGA 30 STATE COM          | 6. Well No.<br>002          |
| 7. OGRID No.<br>162683       | 8. Operator Name<br>CIMAREX ENERGY CO. OF COLORADO | 9. Elevation<br>4430        |

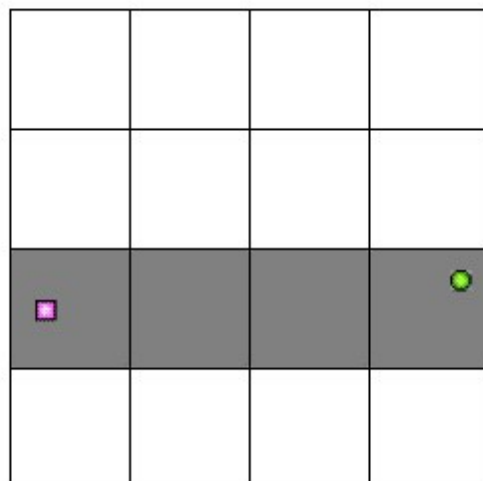
**10. Surface Location**

|               |               |                 |              |         |                   |               |                  |               |                  |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|------------------|
| UL - Lot<br>I | Section<br>30 | Township<br>15S | Range<br>31E | Lot Idn | Feet From<br>2310 | N/S Line<br>S | Feet From<br>330 | E/W Line<br>E | County<br>CHAVES |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|------------------|

**11. Bottom Hole Location If Different From Surface**

|                               |               |                     |              |                                           |                   |               |                  |               |                  |
|-------------------------------|---------------|---------------------|--------------|-------------------------------------------|-------------------|---------------|------------------|---------------|------------------|
| UL - Lot<br>L                 | Section<br>30 | Township<br>15S     | Range<br>31E | Lot Idn<br>3                              | Feet From<br>1980 | N/S Line<br>S | Feet From<br>375 | E/W Line<br>W | County<br>CHAVES |
| 12. Dedicated Acres<br>159.41 |               | 13. Joint or Infill |              | 14. Consolidation Code<br>Communitization |                   | 15. 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**



**OPERATOR CERTIFICATION**

*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(s) 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.*

E-Signed By: Zeno Farris  
 Title: Manager Operations Administration  
 Date: 9/11/2008

**SURVEYOR CERTIFICATION**

*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.*

Surveyed By: Gary L. Jones  
 Date of Survey: 5/10/2008  
 Certificate Number: 7977

## Permit Comments

Operator: CIMAREX ENERGY CO. OF COLORADO , 162683

Well: SARATOGA 30 STATE COM #002

API: 30-05-29052

| Created By | Comment                                                                                                                                                                                                   | Comment Date |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| NKRUEGER   | C-102, C-144, and preliminary directional survey will be emailed to Donna Mull.                                                                                                                           | 9/11/2008    |
| NKRUEGER   | Cimarex Energy Co. does not anticipate that there will be enough H2S from the surface to the Abo formation to meet the OCD's minimum requirements for the submission of a contingency plan for this test. | 9/11/2008    |
| NKRUEGER   | Well is proposed horizontal Abo oil test with SHL in UL I and BHL in UL L. Therefore, it will require a laydown 160-acre N2S2 oil well spacing unit.                                                      | 9/11/2008    |
| DMULL      | Received C-144 "Pit Registration". OCD Permit Number P1-00463.                                                                                                                                            | 9/17/2008    |