# State of New Mexico

#### Form C-101 Permit 112440

# **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

| COG OP                     | Name and Address<br>ERATING LLC | 2. OGRID Number<br>229137     |  |
|----------------------------|---------------------------------|-------------------------------|--|
|                            | W TEXAS<br>ND , TX 79701        | 3. API Number<br>30-015-37869 |  |
| 4. Property Code<br>302569 | 5. Property Name<br>STATE S-19  | 6. Weti No.<br>034            |  |

## 7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| L        | 19      | 17S      | 29E   | 3       | 1700      | S        | 700       | W        | EDDY   |

## 8. Pool Information

EMPIRE; GLORIETA-YESO 96210

## Additional Well Information

|  | 1401                         |  |   |                         |  |  |
|--|------------------------------|--|---|-------------------------|--|--|
| 9. Work Type<br>New Well                     | 10. Wett<br>OII              |  | 11. Cable/Rotary                              | 12. Lease Type<br>State | 13. Ground Level Elevation<br>3663       |  |
| 14. Multiple<br>N                            | 15. Propos<br>55             | C. C | 16. Formation<br>Yeso Formation               | 17. Contractor          | 18. Spud Date<br>8/31/2010               |  |
| Depth to Ground<br>110                       | Depth to Ground water<br>110 |  | Distance from nearest fresh water well > 1000 |                         | Distance to nearest surface water > 1000 |  |
| Pit: Liner: Synthetic D<br>Closed Loop Syste | _                            | mils thick (                             |   | Drilling Method:        | Diesel/Oil-based Gas/Air                 |  |

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           | 400             | 0             |
| Int1 | 11        | 8.625       | 24               | 850           | 400             | 0             |
| Prod | 7.875     | 5.5         | 17               | 5550          | 900             | 0             |

## Casing/Cement Program: Additional Comments

COG proposes to drill a 17-1/2" hole to 350' w/fr wtr mud system, wt 8.5, vis 28, set 13-3/8" casing & cement to surface. Drill an 11" hole to 850' w/br mud system, wt 10, vis 30. Set 8-5/8" casing & cement to surface. Drill 7-7/8" hole to 5550' w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2" casing & cement to surface. Note: On production string, a caliper will be run, COG will attempt to circulate cement.

Proposed Blowout Prevention Program

|           | 110poscu Dionout 11 | CTCHIOL LIUGIAM |              |
|-----------|---------------------|-----------------|--------------|
| Type      | Working Pressure    | Test Pressure   | Manufacturer |
| DoubleRam | 2000                | 2000            |              |

| I hereby certify that the information given above is true and complete to the bet<br>of my knowledge and belief.<br>I further certify that the drilling pit will be constructed according to | OIL CONSERVATION DIVISION                         |  |  |  |  |
|--|---|--|--|--|--|
| NMOCD guidelines $\overline{X}$ , a general permit $\overline{}$ , or an (attached) alternative OCD-approved plan $\overline{}$ .  | Approved By: Randy Dade                           |  |  |  |  |
| Printed Name: Electronically filed by Diane Kuykendall   | Title: District Supervisor                        |  |  |  |  |
| Title: Regulatory Analyst  | Approved Date: 6/4/2010 Expiration Date: 6/4/2012 |  |  |  |  |
| Email Address: dkuykendall@conchoresources.com   | 200   |  |  |  |  |
| Date: 5/25/2010 Phone: 432-683-7443  | Conditions of Approval Attached                   |  |  |  |  |

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

# State of New Mexico

Form C-102 Permit 112440

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number<br>30-015-37869 | 2. Pool Code<br>96210       | 3. Pool Name<br>EMPIRE; GLORIETA-YESO |
|-------------------------------|-----------------------------|---------------------------------------|
| 4. Property Code<br>302569    | 5. Property 1<br>STATE S    |                                       |
| 7. OGRID No.<br>229137        | 8. Operator 1<br>COG OPERAT |                                       |

### 10. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County | 1 |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|---|
| L        | 19      | 17S      | 29E   |         | 1700      | S        | 700       | W        | EDDY   | l |

# 11. Bottom Hole Location If Different From Surface

| UL - Lot | Section             | Township | Range           | Lot | Idn | Feet From         | N/S L | ine | Feet From | E/W Line      | County |
|----------|---------------------|----------|-----------------|-----|-----|-------------------|-------|-----|-----------|---------------|--------|
| V        | cated Acres<br>7.40 | 13       | Joint or Infill |     | 14  | . Consolidation ( | Code  |     |           | 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

| D |  |  |
|---|--|--|
|   |  |  |

## 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: Diane Kuykendall Title: Regulatory Analyst Date: 5/25/2010

### 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: Ronald Eidson Date of Survey: 5/4/2010 Certificate Number: 3239

# **Permit Comments**

Operator: COG OPERATING LLC , 229137 Well: STATE S-19 #034

API: 30-015-37869

| Created<br>By | Comment  | Comment<br>Date |
|---------------|--|-----------------|
| rodom         | H2S concentrations of wells in this area from surface to TD are low enough that a<br>contingency plan is not required. | 4/14/2010       |

# **Permit Conditions of Approval**

Operator: COG OPERATING LLC , 229137 Well: STATE S-19 #034

API: 30-015-37869

| OCD Reviewer | Condition   |  |
|--------------|---|--|
| pkautz       | Will require administrative order for non-standard spacing unit |  |
| pkautz       | Will require administrative order for non-standard location     |  |