

**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 141122

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

|                                                                                       |                                        |                               |
|---------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>COG OPERATING LLC<br>550 W TEXAS<br>MIDLAND, TX 79701 |                                        | 2. OGRID Number<br>229137     |
|                                                                                       |                                        | 3. API Number<br>30-015-39970 |
| 4. Property Code<br>38979                                                             | 5. Property Name<br>PINTO 36 STATE COM | 6. Well No.<br>005H           |

**7. Surface Location**

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| M        | 36      | 18S      | 25E   | M       | 150       | S        | 1040      | W        | EDDY   |

**8. Pool Information**

|                              |       |
|------------------------------|-------|
| PENASCO DRAW;SA-YESO (ASSOC) | 50270 |
|------------------------------|-------|

**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>3494          |
| 14. Multiple<br>N            | 15. Proposed Depth<br>7323 | 16. Formation<br>Yeso Formation                  | 17. Contractor          | 18. Spud Date<br>4/30/2012                  |
| Depth to Ground water<br>110 |                            | Distance from nearest fresh water well<br>> 1000 |                         | Distance to nearest surface water<br>> 1000 |

**19. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Type | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 12.25     | 9.625       | 36               | 825           | 600             | 0             |
| Int1 | 8.75      | 7           | 26               |               | 0               | 0             |
| Prod | 7.875     | 5.5         | 17               | 7323          | 300             |               |

**Casing/Cement Program: Additional Comments**

COG proposes to drill a 12 1/4" hole to 825' w/ fresh water, run 9 5/8" 36# J-55 and cement to surface. Drill a 8 1/4" hole to 2273' MD and kick off and drill curve to 3023' MD. Drill a 7 7/8" lateral to new BHL @ 2750' TVD 7323' MD. Run a tapered string with 7" 26# L-80 from surface to 2273' & 5 1/2" 17# L-80 casing to TD with DV/ECP Combo Tool at 2273' and isolation packers in the open hole. Set isolation packers and ECP. Open DV tool and cement from 2273' to surface.

**Proposed Blowout Prevention Program**

| Type      | Working Pressure | Test Pressure | Manufacturer |
|-----------|------------------|---------------|--------------|
| DoubleRam | 2000             | 2000          |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|
| I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify that the drilling pit will be constructed according to NMOC guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .<br>Printed Name: Electronically filed by Diane Kuykendall<br>Title: Production Reporting Mgr<br>Email Address: dkuykendall@conchoresources.com<br>Date: 2/23/2012      Phone: 432-683-7443 | <b>OIL CONSERVATION DIVISION</b> |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Approved By: Randy Dade          |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Title: District Supervisor       |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Approved Date: 2/23/2012         | Expiration Date: 2/23/2014 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conditions of Approval Attached  |                            |

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

Form C-102  
August 1, 2011  
Permit 141122

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                               |                                        |                                              |
|-------------------------------|----------------------------------------|----------------------------------------------|
| 1. API Number<br>30-015-39970 | 2. Pool Code<br>50270                  | 3. Pool Name<br>PENASCO DRAW;SA-YESO (ASSOC) |
| 4. Property Code<br>38979     | 5. Property Name<br>PINTO 36 STATE COM | 6. Well No.<br>005H                          |
| 7. OGRID No.<br>229137        | 8. Operator Name<br>COG OPERATING LLC  | 9. Elevation<br>3494                         |

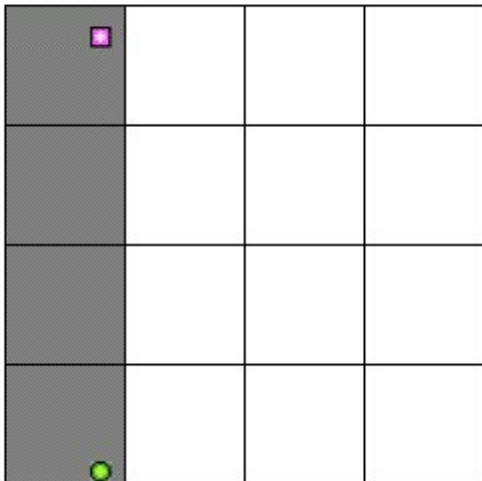
**10. Surface Location**

|               |               |                 |              |         |                  |               |                   |               |                |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|-------------------|---------------|----------------|
| UL - Lot<br>M | Section<br>36 | Township<br>18S | Range<br>25E | Lot Idn | Feet From<br>150 | N/S Line<br>S | Feet From<br>1040 | E/W Line<br>W | County<br>EDDY |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|-------------------|---------------|----------------|

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

|                                                    |               |                     |              |                        |                  |               |                   |               |                |
|----------------------------------------------------|---------------|---------------------|--------------|------------------------|------------------|---------------|-------------------|---------------|----------------|
| 11. Bottom Hole Location If Different From Surface |               |                     |              |                        |                  |               |                   |               |                |
| UL - Lot<br>D                                      | Section<br>36 | Township<br>18S     | Range<br>25E | Lot Idn<br>D           | Feet From<br>330 | N/S Line<br>N | Feet From<br>1040 | E/W Line<br>W | County<br>EDDY |
| 12. Dedicated Acres<br>160.00                      |               | 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**

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p style="text-align: center;"><b>OPERATOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>E-Signed By: Diane Kuykendall<br/>Title: Production Reporting Mgr<br/>Date: 2/23/2012</p> <hr/> <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>Surveyed By: Gary Eidson<br/>Date of Survey: 1/17/2012<br/>Certificate Number: 12641</p> |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Permit Comments

**Operator:** COG OPERATING LLC , 229137

**Well:** PINTO 36 STATE COM #005H

**API:** 30-015-39970

| Created By | Comment                                                                                                             | Comment Date |
|------------|---------------------------------------------------------------------------------------------------------------------|--------------|
| konnally   | H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required. | 12/7/2011    |
| CSHAPARD   | Land s/S                                                                                                            | 2/23/2012    |

# Permit Conditions of Approval

**Operator:** COG OPERATING LLC , 229137

**Well:** PINTO 36 STATE COM #005H

**API:** 30-015-39970

| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSHAPARD        | Will require administrative order for non-standard location                                                                                                                                                                                                          |
| CSHAPARD        | 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 |