

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 156696

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

| | | |
|---|----------------------------------|-------------------------------|
| 1. Operator Name and Address COG OPERATING LLC One Concho Center Midland, TX 79701 | | 2. OGRID Number 229137 |
| | | 3. API Number 30-025-40833 |
| 4. Property Code 39521 | 5. Property Name HAUMEA STATE | 6. Well No. 002H |

7. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| B | 36 | 19S | 35E | B | 330 | N | 1980 | E | 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 | 36 | 19S | 35E | O | 330 | S | 1980 | E | Lea |

9. Pool Information

| | |
|--------------------------|-------|
| PEARL;BONE SPRING, SOUTH | 49685 |
|--------------------------|-------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3668 |
| 16. Multiple N | 17. Proposed Depth 14485 | 18. Formation 2nd Bone Spring Sand | 19. Contractor | 20. Spud Date 10/30/2012 |
| 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 | 54.5 | 1740 | 1100 | |
| Int1 | 12.25 | 9.625 | 36 | 3450 | 850 | |
| Prod | 7.875 | 5.5 | 17 | 14485 | 2000 | 3250 |

Casing/Cement Program: Additional Comments

Plan to drill a 17-1/2" hole to 1740' with FW. Run 13-3/8", 54.5#, J-55 csg and cmt to surface. Drill 12-1/4" hole to 3450' with brine, and run 9-5/8", 36#, STC and cement to surface. Drill 7-7/8" hole with cut brine to 11,700'. Run logs, plug back to kick off and drill lateral to 14,485 MD. Run 5-1/2", 17#, P-110 csg and cement to 3250'.

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|-----------|------------------|---------------|--------------|
| DoubleRam | 3000 | 3000 | Cameron |

| | | |
|---|----------------------------------|-----------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. 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. Signature: Printed Name: Electronically filed by Diane Kuykendall Title: Production Reporting Mgr Email Address: dkuykendall@conchoresources.com Date: 10/22/2012 | OIL CONSERVATION DIVISION | |
| | Approved By: ELIDIO GONZALES | |
| | Title: HOBBS STAFF MANAGER | |
| | Approved Date: 10/23/2012 | Expiration Date: 10/23/2014 |
| | Date: 10/22/2012 | Phone: 432-683-7443 |

Conditions of Approval Attached

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-102
 August 1, 2011
 Permit 156696

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-------------------------------|---------------------------------------|--|
| 1. API Number 30-025-40833 | 2. Pool Code 49685 | 3. Pool Name PEARL;BONE SPRING, SOUTH |
| 4. Property Code 39521 | 5. Property Name HAUMEA STATE | 6. Well No. 002H |
| 7. OGRID No. 229137 | 8. Operator Name COG OPERATING LLC | 9. Elevation 3668 |

10. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| B | 36 | 19S | 35E | | 330 | N | 1980 | E | LEA |

11. Bottom Hole Location If Different From Surface

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|-------------------------------|---------|---------------------|-------|------------------------|-----------|----------|---------------|----------|--------|
| O | 36 | 19S | 35E | O | 330 | S | 1980 | E | LEA |
| 12. Dedicated Acres 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

| | | | | | | | | | | | | | | | | | |
|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|---|--|---|
| <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center; vertical-align: top;">●</td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cccccc;"></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cccccc;"></td> <td></td> </tr> <tr> <td></td> <td></td> <td style="background-color: #cccccc; text-align: center; vertical-align: bottom;">■</td> <td></td> </tr> </table> | | | ● | | | | | | | | | | | | ■ | | <p align="center">OPERATOR CERTIFICATION</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 Title: Production Reporting Mgr Date: 10/22/2012</p> <hr/> <p align="center">SURVEYOR CERTIFICATION</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: Ronald Eidson Date of Survey: 10/8/2012 Certificate Number: 3239</p> |
| | | ● | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | ■ | | | | | | | | | | | | | | | |

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: HAUMEA STATE #002H

API: 30-025-40833

| Created By | Comment | Comment Date |
|-------------------|--|---------------------|
| mreyes1 | OIL: COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary. | 10/22/2012 |
| CHERRERA | OCD RECEIVED FORM C144 CLEZ. OCD PERMIT # P1-05349 | 10/23/2012 |

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137

Well: HAUMEA STATE #002H

API: 30-025-40833

| OCD Reviewer | Condition |
|-------------------------|--|
| DMULL | 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 |
| DMULL | Will require a directional survey with the C-104 |