<u>District I</u> 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

Form C-101 August 1, 2011

1220 S. St Francis Dr. Santa Fe, NM 87505

| APPLICATION FOR PERMIT TO DRI | I.L. RE-ENTER, DEEPEN. | PLUGBACK, OR ADD A ZONE |
|-------------------------------|------------------------|-------------------------|
| | | |

| COG | Operator Name and Address OG OPERATING LLC | | | |
|------------------|--|-------------------------------|--|--|
| | Concho Center land, TX 79701 | 3. API Number 30-025-40969 | | |
| 4. Property Code | 5. Property Name | 6. Well No. | | |
| 39678 | OSPREY 20 STATE COM | 003H | | |

7. Surface Location

| 0 | 7. Surface Escation | | | | | | | | | |
|----------|---------------------|----------|-------|---------|-----------|----------|-----------|----------|--------|---|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County | |
| K | 20 | 218 | 34E | K | 2590 | S | 1680 | W | LEA | l |

8. Proposed Bottom Hole Location

| | Ol I Toposcu Dottom Hote Documen | | | | | | | | |
|----------|----------------------------------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| N | 29 | 21S | 34E | N | 330 | S | 1980 | W | Lea |

9. Pool Information

| WC-025 G-07 S213430M:BONE SPRING | 97962 |
|----------------------------------|-------|

Additional Well Information

| 19. Contractor | 20. Spud Date |
|----------------|---------------------|
| | 5/5/2013 |
| | /0.42/5-52/4 May 80 |

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 | 1980 | 1155 | |
| Int1 | 12.25 | 9.625 | 36 | 5800 | 610 | |
| Prod | 7.875 | 5.5 | 17 | 19311 | 2330 | 5500 |

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1980' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage.
Will use 1" tubing and Class C w/ 2% CaCl2 to cement to surface, if necessary. Drill 12-1/4" hole to ~5800' with saturated brine water If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 36# J55 & 40# N80 BTC casing to TD with a DV tool placed ~ 100" above the Reef. Plan to circulate cement on both stages. Drill 7-7/8" pilot hole to 12250', log and plug back with cement plug f/ 11250' – 12250'. Drill 7-7/8" curve, and lateral to 19311' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to 5500' (300' overlap) surface in one stage.

22. Proposed Blowout Prevention Program

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

| best of my knowledge and bel | | OIL CONSERVATION DIVISION Approved By: Paul Kautz | | |
|--|---|---|---------------------------|--|
| I further certify I have comp 19.15.14.9 (B) NMAC ⊠, if | olied with 19.15.14.9 (A) NMAC and/or applicable. | | | |
| Signature: | | | | |
| Printed Name: Electronic | ally filed by Diane Kuykendall | Title: Geologist | | |
| Title: Production Reporting Mgr | | Approved Date: 2/1/2013 | Expiration Date: 2/1/2015 | |
| Email Address: dkuyken | dall@conchoresources.com | | | |
| Date: 1/31/2013 | Phone: 432-683-7443 | Conditions of Approval Attached | | |

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

District IV

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division

Form C-102 August 1, 2011

1220 S. St Francis Dr. Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

| *** | LLE LOCATION AND MC | LAIGE DEDICATIO | 111111 |
|---------------------------|--------------------------------------|-----------------|-----------------------|
| 1. API Number | 2. Pool Code | WC-025 G-07 | 3. Pool Name |
| 30-025-40969 | 97962 | | \$213430M;BONE SPRING |
| 4. Property Code 39678 | 5. Property Name OSPREY 20 STATE COM | | 6. Wett No. 003H |
| 7. OGRID No. | 8. Operator Name | | 9. Elevation |
| 229137 | COG OPERATING LLC | | 3714 |

| 10 | Surface | Location |
|----|---------|----------|
| | | |

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| K | 20 | 218 | 34E | | 2590 | S | 1680 | W | LEA |

11. Bottom Hole Location If Different From Surface

| | The second state second is successful to the second | | | | | | | | | |
|-------------------------------|--|----------|---------------------|---------|------------------------|----------|---------------|----------|--------|--|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County | |
| N | 29 | 218 | 34E | N | 330 | S | 1980 | W | LEA | |
| 12. Dedicated Acres 240.00 | | 13. J | 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

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: Production Reporting Mgr

Date: 1/31/2013

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: chad harcrow Date of Survey: 12/20/2012 Certificate Number: 17777

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: OSPREY 20 STATE COM #003H

API: 30-025-40969

| 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. | |
| pkautz | Land s/S | 2/1/2013 |
| CHERRERA | OCD RECEIVED FORM 144 CLEZ. OCD PERMIT # P1-05702 | 2/1/2013 |

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: OSPREY 20 STATE COM #003H API: 30-025-40969

| OCD 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 |