

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 262867

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

| | | |
|--|--|-------------------------------|
| 1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | | 2. OGRID Number 229137 |
| 4. Property Code 316035 | | 3. API Number 30-015-45705 |
| 5. Property Name BIGFOOT STATE COM | | 6. Well No. 501H |

7. Surface Location

| | | | | | | | | | |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| M | 20 | 19S | 28E | | 1305 | S | 410 | W | Eddy |

8. Proposed Bottom Hole Location

| | | | | | | | | | |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| P | 21 | 19S | 28E | P | 660 | S | 50 | E | Eddy |

9. Pool Information

| | |
|-------------------------------|-------|
| WINCHESTER; BONE SPRING, WEST | 97569 |
|-------------------------------|-------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3481 |
| 16. Multiple N | 17. Proposed Depth 17015 | 18. Formation 2nd Bone Spring Sand | 19. Contractor | 20. Spud Date 4/15/2019 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 26 | 20 | 57 | 80 | 200 | 0 |
| Int1 | 17.5 | 13.375 | 54.5 | 190 | 200 | 0 |
| Int2 | 12.25 | 9.625 | 40 | 3358 | 825 | 0 |
| Prod | 8.75 | 5.5 | 17 | 17015 | 2100 | 2858 |

Casing/Cement Program: Additional Comments

COG proposes to drill a 260" hole to 80' w/ fresh water spud mud. Set 20" 57# conductor casing and cement to surface. Drill a 17-1/2" hole to 190' w/ brine water mud system. Set 13-3/8" 54.5# J-55 BTC casing and cement to surface in one stage. Drill an 12-1/4" hole to 3,358' w/ brine water mud system. Set 9-5/8" 40# J-55 BTC casing to TD and cement to surface in one stage. Drill a 8-3/4" vertical, curve and lateral to 17,015" with cut brine water mud system. Set 5-1/2" 17# P-110 BTC casing at TD and cement to 2,858' in one stage.

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 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: | OIL CONSERVATION DIVISION |
| Printed Name: Electronically filed by Diane Kuykendall | Approved By: Raymond Podany |
| Title: Production Reporting Mgr | Title: Geologist |
| Email Address: dkuykendall@concho.com | Approved Date: 2/12/2019 Expiration Date: 2/12/2021 |
| Date: 1/30/2019 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 262867

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-------------------------------|---------------------------------------|---|
| 1. API Number 30-015-45705 | 2. Pool Code 97569 | 3. Pool Name WINCHESTER; BONE SPRING, WEST |
| 4. Property Code 316035 | 5. Property Name BIGFOOT STATE COM | 6. Well No. 501H |
| 7. OGRID No. 229137 | 8. Operator Name COG OPERATING LLC | 9. Elevation 3481 |

10. Surface Location

| | | | | | | | | | |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|
| UL - Lot M | Section 20 | Township 19S | Range 28E | Lot Idn | Feet From 1305 | N/S Line S | Feet From 410 | E/W Line W | County Eddy |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|

11. Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|-------------------------------|---------------------|-----------------|------------------------|---------|------------------|---------------|-----------------|---------------|----------------|
| UL - Lot P | Section 21 | Township 19S | Range 28E | Lot Idn | Feet From 660 | N/S Line S | Feet From 50 | E/W Line E | County Eddy |
| 12. Dedicated Acres 320.00 | 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;">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: 1/30/2019</p> |
| | <p style="text-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: Chad Harcrow Date of Survey: 12/20/2018 Certificate Number: 17777</p> |

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 APD Comments

Permit 262867

PERMIT COMMENTS

| | | |
|---|---|----------------------------------|
| Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701 | | API Number: 30-015-45705 |
| | | Well: BIGFOOT STATE COM #501H |
| Created By | Comment | Comment Date |
| rodom | H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required. | 1/29/2019 |

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 APD Conditions

Permit 262867

PERMIT CONDITIONS OF APPROVAL

| | | |
|---|---|----------------------------------|
| Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701 | | API Number: 30-015-45705 |
| | | Well: BIGFOOT STATE COM #501H |
| OCD Reviewer | Condition | |
| rpodany | Will require a directional survey with the C-104 | |
| rpodany | Cement is required to circulate on both surface and intermediate1 strings of casing | |