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

Manufacturer

Permit 209931

| 1. Operato | | e and Addres | | | | | | , | ENTER, DEEPE | , | , | | D Number 229137 | | |
|------------|----------------|--------------------------|-------|-------------|--------------------------|--------|----------|---------|-------------------|----------|-----------|-----------|------------------------|--------|-----|
| | One | Concho Ce and, TX 797 | enter | | | | | | | | | 3. API N | |) | |
| 4. Propert | y Code 3974 | | | | 5. Property Name TYRE | LL FEE | | | | | | 6. Well N | ^{No.} 002H | | |
| | | | | | | | 7 | . Surfa | ice Location | | | | | | |
| UL - Lot | Α | Section | 14 | Township 24 | Range 4S | 33E | Lot Idn | Α | Feet From 190 | N/S Line | Feet From | 990 | E/W Line | County | Lea |
| | | | | | | | 8. Propo | sed Bo | ttom Hole Locatio | n | | | | | |
| UL - Lot | | Section | | Township | Range | | Lot Idn | | Feet From | N/S Line | Feet From | | E/W Line | County | |
| | P | | 14 | 2. | 4S | 33E | | P | 330 | | 3 | 660 | F | | Lea |

9. Pool Information

| | or con information | |
|------------------------------|------------------------------|-------|
| RED HILLS;BONE SPRING, NORTH | na Santos Catalon (20 Month) | 96434 |

Additional Well Information

| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type Private | 15. Ground Level Elevation 3607 |
|---------------------------|-----------------------------|----------------------------------------|-----------------------------------|------------------------------------|
| 16. Multiple N | 17. Proposed Depth 13911 | 18. Formation Bone Spring | 19. Contractor | 20. Spud Date 9/26/2015 |
| 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

Type

21 Droposed Casing and Coment Drogram

| | Zit i roposca casing and content i rogiam | | | | | | | |
|------|-------------------------------------------|-------------|------------------|---------------|-----------------|---------------|--|--|
| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC | | |
| Surf | 17.5 | 13.375 | 54.5 | 1380 | 925 | | | |
| Int1 | 12.25 | 9.625 | 40 | 5310 | 1520 | | | |
| Prod | 8.75 | 5.5 | 17 | 13911 | 2400 | | | |

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~1380' 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 ~5310' with saturated brine water. Run 9-5/8" 40# L80 BTC casing to TD and cement to surface in one stage. Drill 8-3/4" vertical hole, curve and lateral to 13911' with cut brine. Run 5-1/2" 17# P110 LTC casing to TD and cement to surface in two stages with a DV tool set at ~ 6700'

> 22. Proposed Blowout Prevention Program Working Pressure

Test Pressure

| Double Ram | 3000 | 3000 | Cameron | 1 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|-------------|---|
| 23. I hereby certify that the information given a knowledge and belief. I further certify I have complied with 19.15.' NMAC ☒, if applicable. | | OIL CONSERVATIO | IN DIVISION | |
| | | | | |

| knowledge and I | I have complied with 19.15.14.9 (A) | | | OIE GONG | ENTAILOR BUISION |
|-------------------------------------|-------------------------------------|--------|-------------------|-----------------|----------------------------|
| Signature: | | les a | | | |
| Printed Name: | Electronically filed by Diane Kuyk | endall | Approved By: | Paul Kautz | |
| Title: | Production Reporting Mgr | 11111 | Title: | Geologist | U COLO |
| Email Address: | production@concho.com | | Approved Date: | 9/16/2015 | Expiration Date: 9/16/2017 |
| Date: 9/16/2015 Phone: 432-683-7443 | | | Conditions of App | proval Attached | 7 |

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District II

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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 <u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87605 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

ermit 209931

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1. API Number | 2. Pool Code | 3. Pool Name | |
|------------------|-------------------|------------------------------|--|
| 30-025-42789 | 96434 | RED HILLS;BONE SPRING, NORTH | |
| 4. Property Code | 5. Property Name | 6. Well No. | |
| 39748 | TYRELL FEE | 002H | |
| 7. OGRID No. | 8. Operator Name | 9. Elevation | |
| 229137 | COG OPERATING LLC | 3607 | |

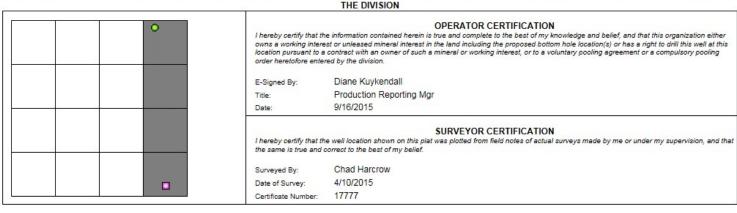
10. Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| A | 14 | 24S | 33E | A | 190 | N | 990 | 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 |
|------------------------------|---------|----------|---------------------|---------|-----------------------|----------|-----------|---------------|--------|
| Р | 14 | 248 | 33E | Р | 330 | S | 660 | E | Lea |
| 12. Dedicated Acre 160.00 | | | 13. Joint or Infill | | 14. Consolidation Cod | e | | 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



Form APD Comments

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Phone:(575) 393-6161 Fax:(575) 393-0720 <u>District II</u> 311 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u> 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

Permit 209931

PERMIT COMMENTS

| Operator Name and Address: | API Number: |
|----------------------------|------------------|
| COG OPERATING LLC [229137] | 30-025-42789 |
| One Concho Center | Well: |
| Midland, TX 79701 | TYRELL FEE #002H |

| 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. | 9/16/2015 |

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PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|----------------------------|------------------|
| COG OPERATING LLC [229137] | 30-025-42789 |
| One Concho Center | Well: |
| Midland, TX 79701 | TYRELL FEE #002H |

| OCD Reviewer | Condition |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pkautz | Will require a directional survey with the C-104 |
| 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 |
| pkautz | If using a pit for drilling and completion operations, must have an approved pit from prior to spudding the well. |
| pkautz | 1) SURFACE & INTERNEMIATE CASING - Cement must circulate to surface 2) PRODUCTION CASING - Cement must tie back into intermediate casing |
| pkautz | If cement does not circulate to surface, must run temperature survey or other log to determine top of cement |
| pkautz | Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water |
| pkautz | Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186 |
| pkautz | 1) Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe |