

87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

October 13, 2009

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|---|---|---|
| District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 | Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 | WELL API NO. 30-025-52433 |
| | | 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| | | 6. State Oil & Gas Lease No. |
| | SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | 7. Lease Name or Unit Agreement Name Macho Nacho State Com |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 8. Well Number 608H |
| 2. Name of Operator COG Operating LLC | | 9. OGRID Number 229137 |
| 3. Address of Operator 2208 W. Main Street, Artesia, NM 88210 | | 10. Pool name or Wildcat WC-025 G-09 S243310P; Upper Wolfcamp |
| 4. Well Location Unit Letter <u>M</u> : <u>300</u> feet from the <u>South</u> line and <u>1305</u> feet from the <u>West</u> line Section <u>7</u> Township <u>24S</u> Range <u>33E</u> NMPM Lea County | | |
| | 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3571.6' GR | |

NOTICE OF INTENTION TO:

| | | | |
|-----------------------|--------------------------|------------------|--------------------------|
| PERFORM REMEDIAL WORK | <input type="checkbox"/> | PLUG AND ABANDON | <input type="checkbox"/> |
| TEMPORARILY ABANDON | <input type="checkbox"/> | CHANGE PLANS | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | MULTIPLE COMPL | <input type="checkbox"/> |
| DOWNHOLE COMMINGLE | <input type="checkbox"/> | | |

OTHER:

☒ Potash Casing Changes

SUBSEQUENT REPORT OF:

| | | | |
|-------------------------|--------------------------|-----------------|--------------------------|
| REMEDIAL WORK | <input type="checkbox"/> | ALTERING CASING | <input type="checkbox"/> |
| COMMENCE DRILLING OPNS. | <input type="checkbox"/> | P AND A | <input type="checkbox"/> |
| CASING/CEMENT JOB | <input type="checkbox"/> | | |

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

Casing Changes: See attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE: Mayte Reyes TITLE: Senior Regulatory Coordinator DATE: 9/23/2024

Type or print name: Mayte Reyes E-mail address: mayte.x.reyes@cop.com PHONE: (575) 748-6945

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Macho Nacho State Com #608H

Casing and Cement

| <u>String</u> | <u>Hole Size</u> | <u>Csg OD</u> | <u>PPF</u> | <u>Depth</u> | <u>Sx Cement</u> | <u>TOC</u> |
|----------------|------------------|---------------|------------|--------------|------------------|------------|
| Surface | 17-1/2" | 13-3/8" | 54.5# | 1,440' | 920 | 0' |
| Intermediate 1 | 12-1/4" | 10-3/4" SC | 45.5# | 4,910' | 1,290 | 0' |
| Intermediate 2 | 9-7/8" x 8-3/4" | 7-5/8" | 29.7# | 11,900' | 380 | 7,372' |
| Production | 6-3/4" | 5-1/2" | 23.0# | 22,862' | 880 | 9,600' |

Well Plan

Drill 17-1/2" hole to ~1,440' with fresh water. Run 13-3/8" 54.5# J-55 BTC casing to TD and cement to surface in one stage (preset).

Drill 12-1/4" hole to 4,910' (min. 100' below base of Salt) with fully saturated brine. Run 10-3/4" 45.5# J-55 BTC-SC casing to TD and cement to surface in one stage (minimum 50% annular excess will be pumped).

Drill 9-7/8" x 8-3/4" vertical hole (taper at ~8,000') to ~11,900' with cut brine. Run 7-5/8" 29.7# L80-ICY BTC (0'-8,000') / P110-ICY W513 (8,000'-11,900') casing to TD and cement to Top Brushy Canyon at 7,372' in one stage (leaving Delaware Mountain group open as relief valve).

Drill 6-3/4" curve and lateral to ~22,862' with OBM. Run 5-1/2" 23# P110-CY TXP BTC (0'-11,700') / P110-CY W441 (11,700'-22,862') casing to TD and cement to 9,600' in one stage.

Well Control

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated below per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure below. If the system is upgraded all the components installed will be functional and tested. After setting 13-3/8" casing and installing 10,000 psi casing head, NU 13-5/8" Cameron BOP. Test casing to 1500 psi, annular to 2500 psi and other BOP equipment to 10,000 psi.

| <u>Type</u> | <u>Working Pressure</u> | <u>Test Pressure</u> | <u>Manufacture</u> |
|-------------|-------------------------|----------------------|--------------------|
| Double Ram | 10,000 psi | 10,000 psi | Cameron |

A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30-day full BOPE test requirements).

Potash Consideration

Potash well archetype: 4-String Design Open 1st Int x 2nd Int Annulus w/ ICP 2 below relief zone (Figure D). Sundry aims to comply with R-111-Q as passed on 5/10/2024.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 402643

CONDITIONS

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|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 402643 |
| | Action Type: [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| pkautz | If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required. | 11/13/2024 |
| pkautz | WHEN PERFORMING A BRADENHEAD CEMENT JOB A CBL MUST BE RUN BEFORE AND AFTER THE BRADENEAD CEMENT JOB. | 11/13/2024 |
| pkautz | MUST COMPLY WITH ALL REQUIREMENTS OF R-111-Q | 11/13/2024 |