

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.

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

CONDITIONS

Action 394036

CONDITIONS

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|---|--|
| Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701 | OGRID: 229137 |
| | Action Number: 394036 |
| | 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. | 11/12/2024 |
| pkautz | MUST COMPLY WITH ALL REQUIREMENTS OF R-111-Q | 11/12/2024 |