

Macho Nacho State Com #607H

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#	11,600'	360	7,337'
Production	6-3/4"	5-1/2"	23.0#	22,505'	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 ~11,600' with cut brine. Run 7-5/8" 29.7# L80-ICY BTC (0'-8,000') / P110-ICY W513 (8,000'-11,600') casing to TD and cement to Top Brushy Canyon at 7,337' in one stage (leaving Delaware Mountain group open as relief valve).

Drill 6-3/4" curve and lateral to ~22,505' with OBM. Run 5-1/2" 23# P110-CY TXP BTC (0'-11,400') / P110-CY W441 (11,400'-22,505') 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.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 394041

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 394041
	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