

**Citation Oil & Gas Corp
Arapahoe Unit #104 23-6
Arapahoe Unit
Cheyenne County, CO**

Current Information

Total Depth: 5,300'
Plug Back Total Depth: 5,126'
Surface Casing: 8 5/8" 24 # @ 518' 275 SX CMT
Production Casing: 4 1/2" 10.5# 200 SX CMT
Completion: *Morrow Perfs 5,176'-86'*
Suspected Problem: Uneconomic P&A

Plug and Abandon Procedure

All Calculations Use 60/40 POZ w/ 4% Gel Class A Cement

Yielding 1.60 Cu.Ft/SX

Check with Chosen Cement Company to Confirm Correct Volumes

1. MIRU SU, MIRU WL MIRU CMT TRK
2. TIH w/ Perf Gun Perf intervals: **570'-71'** w/ **3 SPF 120' Phasing Angle Perf Gun**, TOH w/ spent guns
3. MIRU Cmt Trk
4. PU 2 7/8" Tbg TIH to 5125' dump 2 sx cmt,
5. TOH to 4,550', Mix and Pump 15 sx cmt plug while TOH to 4,450'
6. TOH to 2,135', Mix and Pump 60 sx cmt plug while TOH to 1,810'
7. Open Bradenhead
8. TOH PU 4 1/2" CICR, TIH to **560'**, set CICR, sting in & test for injection & **SQZ 230sx CMT thru CICR**, sting out CICR **Spot 85 sx CMT on CICR**. TOH
 - a. **If not able to SQZ 230 sx CMT to Surf**, Hook on to 4 1/2" CSG and **pump 230 sx down backside.**
9. RDMO CMT TRK
10. SI well and WOC to Cure.
11. ND cementing valves and cut off wellhead. Fill 5.5" casing with cement as necessary. Install P&A marker to comply with regulations. RDMO and restore location.