

**Recommended Plug and Abandonment Procedure**  
**70 Ranch CNW 3**  
**NW/4 Section 3, T4N, R63W**  
**API# 05-123-23965**

1. MIRU. ND WH. NU BOP.
2. TOOH w/ 2-3/8" tbg, inspect and tally.
3. MIRU wireline and TIH w/ 4-1/2" CIBP and set @ 6,400' MD.
4. TIH w/ tbg and pump 5 sks of class G, 14.8 ppg, 1.15 Yield cement on top of the CIBP. Pull tbg above cement and reverse circulate tbg clean. TOH w/ tbg.
5. RIH w/ perforating guns and shoot 4 holes @ 740'. TOH w/ perf guns. TIH w/ 4-1/2" CR and set @ 640'. TOH w/ setting tool and RDMO wireline.
6. TIH w/ tbg and sting into CR. Establish circulation through braden head (**contact office if circulation through braden head cannot be established**). Pump 163 sks of Class G, 14.8 ppg, 1.15 yield cement into CR. Pull out of CR and leave 5 sks of Class G, 14.8 ppg, 1.15 yield cement on top of CR to cover surface casing shoe. Pull tbg above cement and reverse circulate to clean up tbg. TOH w/ tbg and LD stinger.
7. TIH w/ tbg open ended to 100' MD. Pump 10 sks Class G, 14.8 ppg, 1.15 Yield cement to surface for the surface plug. Pull tubing out of hole. Top off casing w/ cement if needed.
8. SI well and WOC.
9. ND BOP and cut off casing below surface casing flange. Install P&A marker w/ cement to comply w/ regulations.
10. RD and move off location. Cut off anchors and restore location.