

## **TOP Operating Procedure for P&A on Rider #1**

1. Conduct pre-job safety meeting and complete daily JSA
2. Prior to MIRU, check rig anchors and record initial shut-in pressures on tubing and casing
3. Blow down well/kill if necessary
4. Dig out around wellhead and perform Bradenhead test, document test on COGCC Form 17 (If pressure is present call Paul Herring #720-663-1698 and Craig Owen #970-646-3933 for orders)
5. MIRU P&A equipment, NDWH, NUBOP
6. Un-land and LD tubing if present.
7. PU 6,650' of 2-3/8" 4.7# work-string with 4-1/2" 10.5# scraper/bumper sub
8. Load and circulate wellbore, TOH
9. PU 4-1/2" 10.5#, 10K, Owen's CIBP, TIH (slowly) and set at 6,624'.
10. Pump 16 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement on top to cover Niobrara (16 sxs is 210' in 4-1/2", TOC: 6,414')
12. TOH, stand back tubing
13. RU casing equipment, un-land casing, stretch and determine freepoint
14. RU wireline, TIH and cut casing at 3,530' (25' below bottom of Sussex), TOH, RD wireline
15. TOH and LD casing, RD casing equipment
16. TIH to 3,580' (50' inside casing stub)
17. Pump 40 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to cover casing stub and Sussex (4 sxs is 52' in 4-1/2", 36 sxs is 165' in 7-7/8", TOC: 3,365' or 50' above top of Sussex)
18. TOH and LD to 250', establish circulation to surface
19. Circulate 72 sxs of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface
20. TOH and LD tubing, RDMO, dig out and cut off wellhead, verify cement at surface, top off if necessary
21. Weld on cap with ID plate, backfill, clean location, remove production equipment and begin reclamation