

**San Juan 27-5 Unit #104**  
**Basin Dakota**  
**Unit A, Sec. 12, T-27-N, R-5-W**  
**Latitude / Longitude: 36° 35.53254' / 107° 18.24552'**  
**Recommended Tubing Repair Procedure 5/18/99**

**Project Justification:** This well hasn't been pulled since its completion in 1967. At that time, the tubing was landed 23' above the top Dakota perforation, leading to approximately 54 psi of additional hydrostatic backpressure at the mid-perforation depth.

**NOTE: ALL DEPTHS ARE MEASURED FROM KB. KB to GL was 10'.**

1. Comply with all NMOCD, BLM and Burlington safety and environmental regulations. Prior to moving in rig, make one-call and then verify rig anchors and dig pit.
2. MIRU workover rig. NU relief line and blow well down (kill with 2% KCL water only if necessary). ND WH and NU BOP. Test and record operation of BOP rams. Replace any WH valves that do not operate properly. Test secondary seal and install or replace if necessary.
3. **NOTE: This well produces with a plunger-lift system.** Dakota, 2-3/8", 4.7#, J-55 tubing set at 7867' (249 jts; SN @7867'). Broach tubing and set tubing plug in tubing as deep as possible to prevent the plunger from surfacing. Release donut, pick up additional joints of tubing and tag bottom, recording the depth. PBTD should be at +/- 8108'. TOOH and stand back 2-3/8" tubing. Visually inspect tubing for corrosion, and replace any bad joints. Check tubing for scale and notify Operations Engineer and Drilling Superintendent if it is present.
4. PU 3-1/4" bit, bit sub, and watermelon mill on 2-3/8" tubing and round trip to PBTD, cleaning out with air/mist. **NOTE: When using air/mist, mist rate must not be less than 12 bph.** Speak with Operations Engineer and Drilling Superintendent, and if necessary, determine the best way to remove scale from the casing and perforations.
5. TIH with one joint of 2-3/8" tubing with expendable check, F-nipple (one joint off bottom), then 1/2 of the 2-3/8" production tubing. Run a broach on sandline to insure that the tubing is clear. TIH with remaining 2-3/8" tubing. Replace any bad joints. CO to PBTD with air/mist.
6. PU above the top Dakota perforation at 7890' and flow the well naturally, making short trips for clean-up when necessary.
7. Land tubing at 8060'. Obtain pitot gauge from casing and report this gauge. Broach the upper 1/2 of the production tubing. ND BOP and NU WH. Pump off expendable check. Connect to casing and circulate air to assure that expendable check has pumped off. If well will not flow on its own, make swab run to SN. RD and MOL. Return well to production.

Recommended: L. Tom Loveland Operations Engineer 5/20/99  
Approved: Bruce D. Boyer 5-21-99  
Drilling Superintendent

**Operations Engineer:** L. Tom Loveland

Office 326-9771  
Pager 324-2568  
Home 564-4418