

## **COMPLETION PROCEDURE**

### **Government NBFD #1**

- 1) RU rig. NU BOP'S. RU WL. RIH w/5-1/2", 20# CIBP and set at  $\pm 12,150'$ . Dump bail 50' of cement on top of CIBP.
- 2) PU 3-3/8" csg guns loaded 2 spf and perforate the following Wolfcamp intervals: 9122-25', 9131-43', 9157-60', 9168-72', 9185-90', 9194-206', 9210-13', 9224-26'. Depth Reference: Schlumberger Neutron/Density Log, Run #1 dated April 26, 1996. POOH and RD WL.
- 3) PU 5-1/2" Perma-Lach on 2-3/8" tbg and TIH to  $\pm 9050'$ . Set pkr and test annulus. RU swab and swab test Wolfcamp. If necessary, acidize Wolfcamp with 3000 gals of 15% Hcl as per the attached BJ recommendation. Allow well to clean up and test as necessary.
- 4) Kill the Wolfcamp with clean 2% Kcl. Release pkr and POOH. RU WL. RIH w/permanent pkr and tbg conveyed guns as per the attached diagram. Set pkr with guns on depth to perforate the Morrow from 11,262-70' (4spf). Depth Reference: Schlumberger Neutron/Density Log, Run #1 dated April 26, 1996. POOH and RD WL.
- 5) PU seal assy on 2-3/8" tbg and TIH. Sting into permanent pkr. Swab fluid level down to 10,000'. Drop tube to shift bar vent and test pkr. RU choke and flare line. Open choke on a 32/64" setting. Drop bar to detonate TCP gun.
- 6) Allow well to clean up to pit. After cleaning up adequately, SI well and set a blanking plug in the profile nipple below the permanent pkr. Unlatch tbg and POOH.
- 7) RIH with the long string production tbg as per the attached diagram. Latch into the permanent pkr, space out and land long string in 5-10 pts of tension with the dual pkr at  $\pm 9050'$ . TIH with the short string. Load hole with packer fluid. Snap latch into the dual pkr at 9050'. Set the dual packer by applying 2500 psi to the short string. Test annulus to 1000 psi after setting packer.
- 8) RIH and pull blanking plug on the Morrow. Put Morrow on production up the long string. RU swab and swab Wolfcamp. Put Wolfcamp on production up the short string. Obtain 4-point tests on the Morrow and Wolfcamp when zones are stabilized.