



Bell Lake Federal "11" #1
Workover Procedure

Oil & Gas
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

1. Bleed The pressure off the tubing and the annulus.
2. Load the annulus with 10#/Gal Brine Water.
3. Load the tubing and establish an injection rate (estimated @ 3 BPM @ 7500 psi)
4. Squeeze the Morrow perforations from 14,883 to 14,977 with 100 sacks Class H Cement containing 1% Halad 22A, mixed at 16.4#/Gal. Batch mix the cement. Pump the cement and wash up lines at the well head. Displace the cement to 14,250 with a 8 BBL spacer of 10#/Gal Brine followed by 12 BBLs of 10% acetic acid inhibited for 72 hrs at 200°. Finish the displacement with 2% KCL water. Allow the cement to set up.
5. Pressure up on the tubing to 7500 psi to test the squeeze.
6. Rig up Wireline Co. Test lubricator to 7000 psi. Perforate the Wolfcamp with a 1-11/16" Decentralized Hyper Jet II as follows:

13,684 to 13,693 10 holes 1 shot/foot.

NOTE: Hold 2500 psi on tubing while perforating. Should have approximately 3500 psi after perforating.
7. Break down the Wolfcamp with the spot acid. Flow to clean up.
8. Acidize the Wolfcamp with 2500 Gals 10% Morrow Flow BC Acid. Drop 15 7/8" Ball Sealers to divert the acid. Maximum pressure is 10,000 psi. Hold 3500 psi on annulus during treatment.
9. Flow to test.