

BRIDGES STATE WELL NO. 126
PROCEDURE TO EVALUATE THE MORROW ZONE

1. MTRU DD unit, kill well with lease oil, remove tree and install BOP. Repair tree and tubing hanger.
2. Pull all retrievable down hole equipment (see attached sketch).
3. Drill out Guiberson Type A packer @ 11,790'.
4. Run RBP and packer on 2-7/8" tubing - test Morrow perms 11,915-11,932'. If zone swabs dry, acidize with 500 gals 15% NE acid.
5. Pull up hole and test Morrow perms 11,855-11,863'. If zone swabs dry, acidize with 500 gals 15% NE acid.
6. Squeeze off the set of perms that tests water.
7. If necessary, drill out and reperf as directed by Geologist.
8. Set permanent type packer above perf. Run 2-7/8" tubing with tubing seal divider.
9. Sand water frac the Morrow zone with 10,000 gals manufactured brine and 10,000# of 20/40 sand. The fluid should contain the following additives: 25# guar gum/1000 gals, 25# Adomite Aqua/1000 gals, 3 gals Aquaness 6786/1000 gals, 150# CaCl_2 and 1800# sack salt/1000 gals (9.5#/gal). Pump at 10-12 BPM @ 8000 psi. Required HHP 2500. Check fill-up.
10. Set plug in tubing seal divider and pull tubing.
11. Run tubing and packer and acidize Middle Penn zone with 5000 gals 15% NE acid at 6-8 BPM. Swab back acid water immediately.
12. Rerun triple equipment - pull plug in tubing seal divider, swab off Middle Penn and Morrow. Put Abo on pump.

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