

ATTACHMENT NO. VI

J. J. Akens No. 1

WO Procedure

1. MI & RU well service unit
2. Kill well with estimated 50 bbl brine water. Install BOP
3. Release pkr and pull tubing
4. Run Welex Cement Bond Log to locate top of cement
5. Run Baker RBP and R-2 packer. Set RBP at 2890' with packer swinging, pressure test 7" to 1000 psi.
6. Assuming that leak is indicated in Step 5 pressure test out of hole using RBP and R-2 pkr.
7. Several approaches for repair exist at this point depending on the results of Step No. 5.
 - a. If single hole and low, run RBP and set below hole. Dump sack of sand on top. Set R-2 pkr above hole and break circulation out 9-5/8". Cement 9-5/8" annulus with calculated volume + 15% excess. Estimate 475 sxs Class "B" Neat.
 - b. If more than one hole exists and holes widespread it may be possible to fill 9-5/8" annulus in two stages.
 - c. If hole is too small to obtain sufficient rate to pump cement thru, or if hole is not near top of cement behind 7" casing, perforate 2 holes opposite top of cement, establish circulation out 9-5/8". Cement 9-5/8" annulus with calculated volume + 15%. Estimate 475 sxs. Class "B" Neat.
 - d. If pipe is extremely bad, shut down and release unit, consider pulling 7" or running another string inside of 7".
8. WOC 8 hours.
9. Drill out cement and wash to RBP.
10. Press test 7" csg. to 1000#
11. Pull RBP and R-2 packer.
12. Trip with csg. scraper
13. Run production tubing and packer, swab in well.