

Solutions

YOUR PROBLEM

Micro/capillary strings become stuck due to a lack of maintenance, inspection or periodic evaluation of the overall integrity of the system. This creates inefficiencies in chemical treatments, costing your company revenue due to possible lost production, potential fishing jobs and a negative impact on your budget dollars invested.

SOLUTION

Drover Energy Services provides an experienced, logical step-by-step approach thus giving the customer the best opportunity to remove the string in the most economical way. Prior to a Y-body coil or wireline intervention or dropping a cutter bar, Drover Energy will consult their customers concerning pertinent well information and data to determine if there are other less costly alternatives in removing the string.

- ✓ **Verify and pull maximum string weight with a capillary unit attempting to free the stuck string.**
- ✓ **Verify there is communication present between plug and reservoir. Ability to kill the well if needed.**
- ✓ **Gather all well data & any history of previous scale or salt plugging problems.**
- ✓ **Determine depths of previous scaling or bridging problems and solubility in acid or water, respectively.**
- ✓ **Pump water or a low-grade acid mixture on existing plug followed by additional pull job.**
- ✓ **Capillary alloy, diameter and precise set point depths are necessary information.**

If these simple remediation methods are ineffective, Drover Energy has the capability to rig up alongside coil tubing or wireline, called a Y-Body job. Whether it's washing and/or cutting with coil, or simply using wireline to verify plug depth and cutter activation, a Y-Body rig up provides additional accuracy and success for full string recovery. Drover Energy can provide all rig up equipment, giving the neighbor service company simply a "top of tree" connection.



Figure 1-- Figure 1-- Y-Body Rig Up with Injector and Wireline



Figure 2 -- Fishing tool with fish caught

The Y-Body rig up allows Drover Energy poised to recover the string at surface and safely spool it out of the well. It can be integrity-tested at surface, where a weld and repair option is available at the Drover Energy welding facility.

The slip/seal BOP, lifting elevators, required tools and equipment are provided by Drover Energy. With one phone call, you can set up the entire job with Drover's experience team. Contingent fishing tools and procedures can also be provided to have onsite and minimize downtime. Drover Energy's full service capability allows the string to be recovered, repaired, and ready to redeploy and put to use in another selected well.



Figure 3-- Y-Body Rig Up Stroking Tubing Out of Working Packoff, with BOP assembly.