

The Problem

Apache Oil Company out of Midland Texas was experiencing poor pump efficiencies.

Pump change at an average of 110 days. The problem the operator was experiencing was, sand cut plungers, sand cut barrel, VRG wear and valve rod wear.

Pump cut out of tubing, solids in pump, plunger was sandcut and barrel was packed off. Severe sand in pump.

Solution

In December 23, 2013 an 1 ½ insert pump along with an Eagle Sand Check VRG, Eagle E-Vac, Eagle Dual 92 Plunger, Eagle HighFlow Standing Valve, and Eagle HighFlow Double Valve was installed in Well #47-3.

The pump was spaced so as to prevent “tapping bottom”.

Job Postmortem

For a 13 month period following the installation of the Eagle E-Vac system, Well #14-3 ran over 3 times longer in the total amount of 395 days. Which in turn saved Apache Co. over 3 times the amount of pulling costs, as well as eliminating loss production costs.

Field observations also suggest the E-Vac system can help reduce pump changes and tubing leaks through smoother valve loading and unloading within the pump. By eliminating bottom tapping, the system may also help reduce rod slap, a common contributor to tubing wear and leaks.

