



ReLine WL

Coretrax Expandable ReLine WL isolates water cut & reinvigorates under producing oil well.

BACKGROUND

An NOC in Saudi Arabia identified a requirement to isolate several perforation intervals across a 4 1/2" liner, within an underproducing Oil Well, with e-line being the preferred deployment medium, to shut off the zones with unwanted water production.

The solution, deployable via e-line, had to provide an optimal length of \leq 30ft, an ID of $>3.00"$ and life of well isolation of water ingress from several perforations around 7,000 ft.

Unwanted water production has a significantly negative effect on Oil production but also has a negative effect on environment through CO₂ production because of the need for surface water management.

SOLUTION

The well data was analysed and our 3.700" OD ReLine WL straddle patch for 4 1/2' casing & tubing was selected as the optimal solution. The ReLine WL straddle patch provides optimal post expansion ID to provide greater access to the wellbore and allow for a maximised production conduit to surface.

OPERATION

In separate deployments, 2 x 3.700" OD patches, 28ft ea in length, were deployed on e-line passing a 3.77" ID restriction at 6465 ft. and setting within the 4 1/2" 11.6# liner.

Both ReLine WL straddle patches were deployed, correlated on depth using CCL & Gamma ray technology, and expanded successfully across the water producing zones.

Our resultant post expansion ID of 3.145" outperforms any other solution on the market for this casing size, and enables continuous access to the reservoir below for further future diagnostics and data gathering.

The well was successfully brought back on-line with a significant reduction in water production from the isolated zones and major uplift in well production.

ACHIEVEMENT

- Successful rig-less deployment of expandable metal patches via e-line
- No need for costly workover rig for deployment of metal expandable patch
- Provision of 3.145" ID post installation
- ~31% reduction in unwanted water production
- ~1400bbls/day increase in Oil production
- 3 x further wells have been identified as candidates for ReLine WL solution as result of the maiden success with this NOC

