

Expro Excellence

Expro well intervention enables geothermal well production to be optimized

Sustainable Energy Solutions | Geothermal



Objectives and background

- A customer was having issues with decreased performance on a major geothermal producer in their steam field
- The well originally produced over 12 tons of steam per hour when first brought online. Two years later a production test indicated production had dropped to 3 tons of steam per hour
- The customer subsequently wanted to run a production logging survey for production profiling, but was held up at 2,600 ft due to scale build up in the wellbore

Expro Excellence

- Expro proposed an intervention program which featured mechanical and cased hole service interventions
- The Mechanical Services intervention featured the deployment of customized Slickline Toolstrings to remediate the wellbore scale issue, with 2.5" OD and 3.50" OD Broaches being deployed
- The Cased Hole Services intervention featured the deployment of a HT Production Logging Tool c/w Spinner, Pressure, temperature and gamma ray sensors to enable production profiling

Value to the client

- The scale issue was successfully remediated to allow full bore access from the producing interval to surface
- Steam production increased from 3 tons of steam per hour pre intervention to 9 tons of steam per hour post intervention, a three-fold improvement
- A production profile across the producing interval was successfully acquired
- Expro's successful intervention was recognized by the customer, and will now be replicated on other similar production optimization challenges in the field

