



EXPRO

WELL FLOW MANAGEMENT™

/ Expro Excellence Well Intervention

Expro support well integrity operations on geothermal wells in The Netherlands, avoiding shut down, as well as reducing remedial actions costs and environmental impact by alternative heat sources



Objectives/background

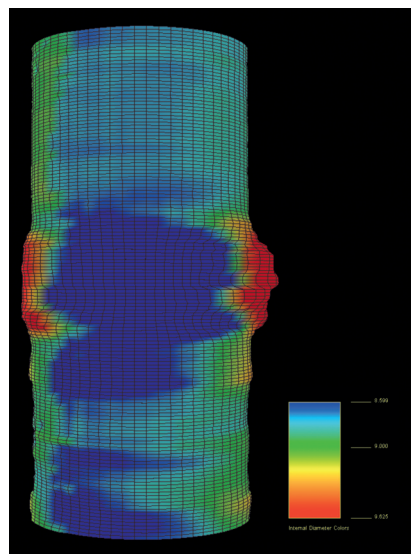
- During maintenance activities on a geothermal installation (two wells, drilled circa. 2013/2014) in The Netherlands, the wells were shut-in and downtime was optimised by undertaking well integrity checks, comparing data from surveys two years ago
- The objectives were: to determine the well integrity status of the producer and injector wells; perform casing integrity measurements (both casing ID and wall thickness)

Expro Excellence

- Expro delivered a comprehensive investigation programme through its fleet of wireline trucks: 60-arm multi-finger caliper (MFC) and magnetic imaging defectoscope (MID) tool, further complemented by reporting by specialists within the Data Analysis Centre
- Interpretation of the data established that a section of the 9^{5/8}" casing in the producer well had collapsed – sections of the casing were now deformed into an oval shape, caused by formation movement (deformation recorded by the caliper tool with a change in gamma ray response that indicated a change in lithology)
- Recommended slickline operations were required prior to commencing operations

Value to client

- A major repair programme (following complete failure) was avoided with proactive remediation by means of installation of a scab liner (extending the 6^{5/8}" casing into the 9^{5/8}") – this has now been established by the client as a new baseline for the scab liner
- Reduced costs and environmental impact as natural gas would have been required to heat up the greenhouses for any period of time the wells were out of production
- Government subsidies are suspended for every day that the wells are out of production



Contact

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