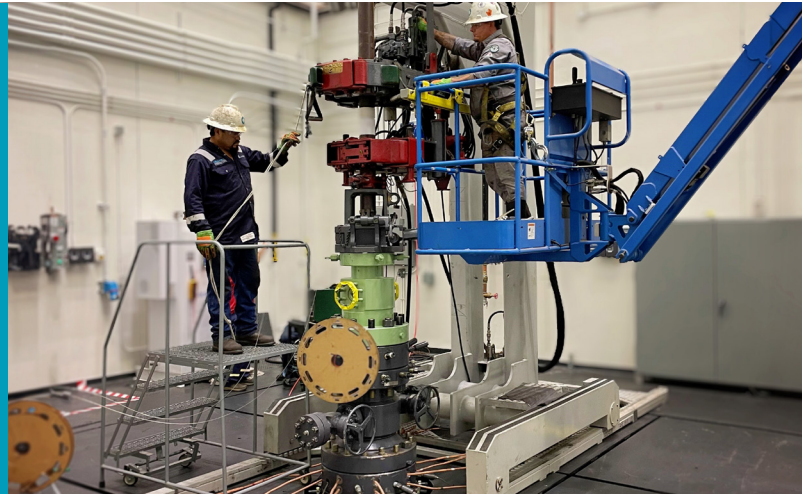


Expro Excellence

Expro provides customized TRS solution for high profile geothermal test well

Geothermal | TRS



Objectives and background

- A prominent new consortium was working with major industry players to test a closed loop "Advanced Geothermal System" (AGS) at an indoor test facility at the Oklahoma Energy Innovation Center at the Hamm Institute for American Energy in Oklahoma City
- Expro was contracted to provide an innovative solution to carry out tubular running services (TRS) operations inside the test facility, with up to 15 copper wires running along the OD of the casing



Expro Excellence

- A modified approach to normal TRS was required to operate within the controlled environment
- The heaters and copper wiring running up to the 9 5/8" casing presented the biggest challenge, as the string needed to be handled and landed out without causing any damage to the outer cables or heaters; to achieve this, a custom elevator-to-elevator solution was designed and fabricated to facilitate the wiring without risk of pinching or cutting during handling and running in hole with the string
- Expro engineered a minimal footprint, custom track and tong hanger solution to present the Expro's hydraulic power tong to the tubulars without requiring an overhead lifting device, which greatly enhanced the safety and efficiency of the operation, and allowed careful make up the casing before installation in the test wellbore

Value to the client

- With Expro's successful reconfiguration of our TRS suite of equipment, the consortium was able to safely handle and set up the 9 5/8" casing with heaters and copper wires
- Assuring that the casing and associated jewellery were installed in the test well without damage, the consortium was able to monitor the completed AGS test well under specific, controlled conditions
- The lessons learned from this successful test well will enable the consortium to continue testing and proving new geothermal technologies, as well as embark on site-specific pilot projects with other consortium members to maximize the value that these Geothermal wells can deliver to market, enhancing returns on their renewable energy investments

Bespoke solution



Innovative solution

