

Expro Excellence

ReLine HYD expandable liner provides well integrity solution on CO₂ injector well

Carbon Capture Utilization and Storage | CORE



Objectives and background

- Our customer was developing a carbon storage hub consisting of two CO₂ injection wells
- A perforate and squeeze job was performed on an outer surface casing on one of the wells, which needed remediation before the next section was drilled and the intermediate casing was run in hole
- To re-instate and ensure long-term well integrity, a solution was required to isolate the perforated section of casing

Expro Excellence

- A 46m 10.75" ReLine HYD System was run into the 13.375" casing across the perforated interval and expanded using the running tool
- The post expanded ID of the liner was 11.798" and a successful pressure test was performed to 3,000psi
- Expro collaborated with all parties involved on the installation to ensure a safe and successful operation
- The installation was completed as planned due to thorough pre-job preparation and delivery

Value to the client

- The perforated section of the casing was successfully isolated, enabling our customer to drill and case deeper sections of the well
- The large optimized post expanded ID of 11.798" ensured smooth passage of the subsequent drill ahead BHA and casing string
- The successful installation allowed the operator to continue using the original wellbore instead of drilling a new CO₂ injector well
- The ReLine HYD system solved two of the key challenges when developing CO₂ storage hubs
 - o Cost reductions and operational efficiency
 - o Ensuring long-term well integrity
- The intervention allowed the operator to install 9-5/8" casing through the repaired wellbore. If the client had used a conventional solution, it is expected that they would have needed to downsize to a 5-1/2" casing which would have resulted in an 83% reduction in pumping product in and out the reservoir

Cost saving



Well integrity

