

Expro Excellence

Integrated Sand Monitoring for Diagnostic Flow Assurance in Albian Wells

Well Flow Management | Well Testing



Objectives and background

- A sand monitoring campaign was initiated for three water producing wells in the Albian reservoir to detect potential formation sand and recommend appropriate surface filtration solutions
- The client faced several operational challenges:
 - Water line plugging due to sand contamination
 - Measurement difficulties caused by the presence of very fine sand particles suspended in water
 - Space constraints for equipment rig-up, as the wells were located within a facility camp
- Without an effective solution, the client risked prolonged downtime, increased maintenance costs, and reduced water usability
- Expro was selected for the project based on our proven track record, reputation for delivering tailored solutions, and ability to operate effectively in complex environments

Expro Excellence

- Expro deployed a comprehensive sand monitoring solution across the three Albian wells, integrating an Inline Strainer with a custom designed sand monitoring system
- Key features of the system included:
 - Real-time sand capture and quantification, enabling direct observation and measurement of sand production
 - Compact design, allowing installation within the restricted space available at the facility
 - Dual filtration setup, with two filters operating in alternation and supported by an online alert system, enabling continuous monitoring without interrupting flow

Value to the client

- Enabled identification of the well producing the highest volume of sand and provided accurate sand production rates
- Supported the determination of optimal well conditions to minimize sand output
- Reduced line plugging and maintenance requirements, lowering operational costs
- The compact system design facilitated quick installation in confined areas, improving time efficiency and reducing risk
- The system allowed sand recovery without chemical injection, aligning with the client's environmental objectives

Increased productivity



Time saving

