

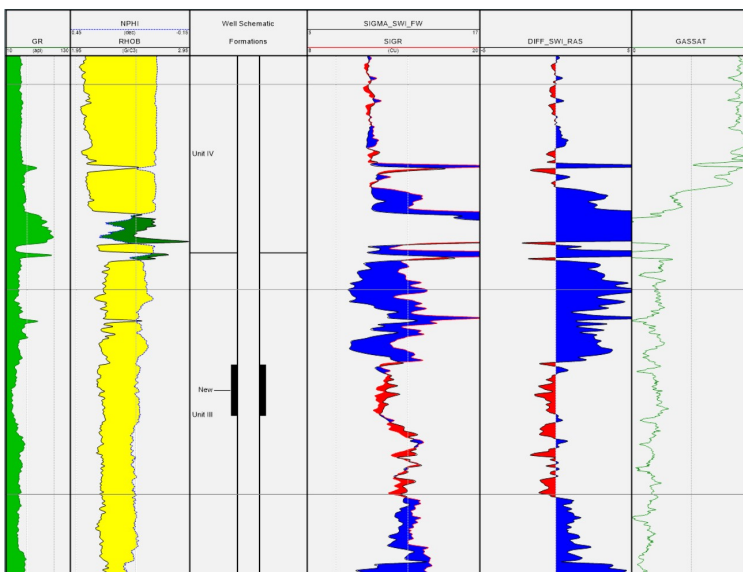
Reservoir Saturation Logging

Maximizing the performance of your reservoir

Reservoir Surveillance is key to successful reservoir management enabling data driven decision making.

Understanding Reservoir Saturation is crucial in reservoir management because it directly impacts the assessment of how much oil, gas, and water are present and how these fluids might be produced to realize the maximum economic recovery of the reservoir.

Changes in reservoir lithology and fluid properties will create different responses from Reservoir Saturation Logging Tools due to differences in matrix and fluid properties, porosity, and fluid distribution. A key aspect of Expro's Reservoir Saturation Logging Service is our ability to quickly integrate existing data with the Reservoir Saturation Logging Tool to model expected responses and help focus on fluid saturation changes related to reservoir displacement and recovery. This tool characterization ensures the tool's response is recognized for the specific conditions to be encountered, leading to more reliable diagnosis.



The multiple and unique methods of data processing, data integration and visualization offered by Expro means that Quick-Look results are delivered within hours of the Logging survey. This enables high quality data driven decisions to be made to enable the potential for intervention immediately following the Logging survey for the remediation and optimization of the well and reservoir.

Key applications

- Identification of bypassed oil and gas zones
- Water shut-off
- Enhanced Oil Recovery
- Estimation of Recoverable Reserves
- Mitigating production risks
- Reservoir management and monitoring
- Depletion plan validation

Features and benefits

- **Deployment**
 - Surface Read Out or Memory Logging options
 - Operationally efficient deployment using Slickline, E-Line, DFOS Slickline or E-Line-DFOS Hybrid
 - Can be deployed as part of the Expro Hydra Multi-Service deployment system
- **Evaluation**
 - Sigma and Gas Sat logging options used for formation saturation evaluation, which enable detection of bypassed hydrocarbon zones and zones that are the source of water production
 - Rapid data evaluation supported by on-site data processing and our global team of expert analysts
 - Quick-Look results are delivered within hours of the survey enabling immediate remediation
- **Enhancement**
 - Water shut-off capability offered via our Coretrax Reline WL expandable technology
 - Perforating and re-perforating capability via Expro Cased Hole Services
 - Petrophysicist support available from Expro Petroleum Engineering Solutions