

# Well Flow Management

## Well Testing | Data Services

### Sand Monitoring

Expro provides a portable single or dual channel non-intrusive acoustic monitoring system as an integral element of its Solids Management System (SMS) technology. The industry recognized sand monitoring system detects impacts and abrasions of produced sand/solids against the internal pipe wall.

The sand detection capacity is key to safe and efficient well testing or production operations where sand, solids or frac proppant are present during clean up or production of wells. The system utilizes a compact, easily installed and intrinsically safe acoustic sensor providing cost effective, real time qualitative readings of the sand/solids flow and quantitative mass flow.

Diagnostic data is displayed real time on the monitoring module allowing the raw data to be interpreted removing any flow noise masking the sand/solids impacts on the internal pipe wall.

The system output is interfaced to the EDGE data acquisition system which allows the data to be logged, trended, displayed and reported in real time along with the well flow data allowing a complete understanding of flow and sand/solids production in relation to drawdown and clean up.

#### Applications

- Well testing
- Clean-up/flow backs
- Production testing
- Production surveillance
- Platform monitoring

#### Features and benefits

- Fully portable non-invasive clamp on sensor
- Simple installation
- No calibration to hydrocarbon flow rate required
- Suitable for multi-phase flow
- Sand rate independent of flow regime
- Real time sand information and trend analysis

