

## Downhole sand detection service

Determine the detection of sand entry points downhole and sand production rates

### Applications:

- Zonal sand entry quantification
- Geomechanical model calibration
- Well intervention and remediation
- Field completion planning
- Recompletion design
- Proppant monitoring during flowback in multistage frac completions

The innovative tool architecture of SandView™ downhole sand detection service integrates a new sensor design with signal processing and an interpretation algorithm to accurately detect the sand entry points downhole and determine sand production rates from different inflow zones under multichoke settings. Full combinability with PS Platform™ production services platform for either continuous or station logging introduces a fourth phase—sand—to multiphase production logging. Deployment of this compact tool is compatible with wireline and tractor conveyance.



### Robust, real-time, high-sensitivity measurement

The digital downhole detection and processing system provides enhanced sensitivity to even minute sand entries within a wellbore. Although the SandView service's high-resolution acquisition can detect single particles as small as 0.1 mm in diameter, the measurement is immune to the typical challenges for sensing elements, such as background noise from tool motion, subsurface interference, and the impacts of fluid and gas jetting.

### Advanced interpretation and processing

SandView service's efficient interpretation algorithms discriminate particles by their size and energy, apply smart thresholds, conduct QC of the count and detection rates, and determine production rate confidence to provide answers not previously available with conventional measurements using filters or acoustic detection sensors at the surface. Sand counts can be transformed to volume and mass knowing the particle size and sand density.

### SandView Specifications

Specifications	SandView
Output	Sand counts/s
Logging speed†	900 ft/h [274 m/h]: 6-s exposure; 1,800 ft/h [549 m/h]: 3-s exposure
Vertical resolution	1.5 ft [0.46 m] at 1,500 counts/s
Sensitivity	Particle OD: 0.1 mm [70–140 mesh]
Combinability	PS Platform production services platform; tractor conveyance
Special applications	Sour service
Temperature rating	350 degF [177 degC]
Pressure rating	15,000 psi [103 MPa]
Min. well size	1.83 in [4.65 cm]
Outside diameter	1 11/16 in [42.8 mm]
Length	3.67 ft [1.12 m]
Weight	18.47 lbm [8.4 kg]
Tension	10,000 lbf [44,480 m]
Compression	1,000 lbf [4,448 N]

All specifications are subject to change without notice. †Dependent on required sensor exposure time.