SAND DETECTION TOOL (SDT)

Downhole tool SDT is designed for diagnostic studies of wells. Autonomous memory instrument is equipped with a highly sensitive ultra sound sensor. The sand coming out of the formation generates noise at ultrasonic frequencies. The device counts the number of sand particles.



The device countes the number of sand particles by calculating the frequency and amplitude response of the ultrasound signal. It ignores the noise of leakage of liquid and gas. Ignore all sounds caused by mechanical shocks. The tool for the qualitative analysis of the sand. The tool can ignore noise caused by liquid or gas leaks and mechanical shock of the moving tool.

FEATURES & APPLICATIONS

- Stationary and continuous measurement
- Suitable for Oil/Water/Gas environment
- Identification of active sand-producing intervals
- Understanding sand-production behaviour and dynamics
- Improved reservoir-management decisions through sand-production mitigation
- Support for choke and drawdown optimization
- Optimization of well performance, completion design

SPECIFICATIONS

	SDT
GENERAL SPECS	
Maximum Pressure	15,000 PSI (103 Mpa)
Maximum Temperature	302°F (150°C)
Diameter	1 11/16" (42mm)
Length	1.12 ft (310 mm
Weight	5.5lbs (2.5 Kg
Housing	Material Titanium
Connecting tread	15/16 - 10UN
MEASUREMENTS	
Acquisition Mode	Memory
Measurement Range	0 – 16,000 Impacts/Sec.
Sensitivity, Minimum Detectable Particle Size	0.1mm (0.0039 in)
Vertical Resolution	1 ft (0.3m)
Output	Sand Counts / Second
MEMORY& POWER	
Measurement period	0.5..127 Sec.
Memory capacity @ 1 Sample/Sec.	75 Hrs
Battery	SL-560 (2 pcs.)

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