QL40-FWS FULL WAVEFORM SONIC

PRODUCT DESCRIPTION

BACKGROUND INFORMATION

Sonic logs are widely used, often in combination with other logs, to provide porosity, permeability and geomechanical properties of rocks. Under suitable borehole conditions and formations, Compressional (P), Shear (S), Stoneley and Tube waves arrivals can be detected.

The tool can only be operated in a fluid-filled hole.

FEATURES SENSORS **TOOL SPECIFICATIONS Length:** 2.14 m Acoustic Sensor: Transducer: Ceramic piezoelectric • Diameter: 50 mm • Sonic wave sampling rate: Standard configuration 1Tx-4Rx Normal mode 4 µsec _ Extended mode 20 µsec -Tx-Rx1 spacing : 60cm Rx-Rx spacing : 20cm • Sonic wave recording time: Normal mode 4ms Max. Temperature: 70° C _ Extended mode 16 ms _ Max. Pressure: 200 bar (2900 PSI) Sonic wave dynamic range:16 bits Weight: 18 kg **Logging Speed:** Variable – function of resolution and borehole diameter.



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	Application:	
	• Cased-hole	
	- Cement bond logging (CBL)	
	• Open-hole	
	- Porosity evaluation	
	- Permeability	
	- Lithology identification	
	- Variation of rock strength	
	- Calculation of rock mechanical	
	properties (Elastic moduli, Poisson's	
	ratio, Shear modulus, Young modulus,	
	Bulk modulus and compressibility)	
	- Identification and hydraulic	
	characterization of fractures	

*Source: http://www.mountsopris.com





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