Borehole Geometry



The Borehole Geometry probe consists of a 4-arm caliper combined with a verticality measurement.

The probe can replace the 3-Arm Caliper (710mm range) with advantage where the borehole cross-section departs from circular and where directional information is required for well-completion studies and formation stress analysis. The top section can be logged as a standard verticality.

Principle of Measurement:

The XY caliper provides continuous measurements of borehole diameter from two independent pairs of linked arms. The verticality section includes a triaxial magnetometer and three accelerometers. Data from these are combined by a downhole microprocessor to provide real-time, continuous logs of probe orientation and borehole inclination and direction.

		Degree CALY CALY 11 1-10 mm 600 6 mm 600		
SPECIFICA	ATION:	20		
Fastures		40		
Features		43		
Sensitive X-Y caliper		400		
Continuous orientation log for all borehole inclinations		160		
		1000		
Measurements		100		
X and Y calipers				
Borehole deviation and drift		***		
Borehole volume (derived)		***		
True vertical depth (TVD)		20.0		
		20.0		
Natural gamma		2000		
Applications		200.00		
Water/minerals/engineering		-		
Borehole diameter in two axes		2000		
Borehole break-out for stress analysis				
Cracks, fissures and casing defects		MAR.		

Operating Conditions		40.0		
Borehole type: open/cased, water/air-filled				
Centralisation:	recommended, non-magnetic centralisers required	-		
Recommended Logging Speed: 5m/min		***		
Necommended L	ogging speed. Sinythin	***		
Specification	ons	50.0		
Diameter:		244	200	
	60mm	Mar.		
Length:	3.54m (in two sections) or 1.81m	58.8	E	
Weight:	19.5kg complete (5.5kg for top section)			
Temperature:	0-70°C (extended ranges available)	nex:	0.000	
Max. pressure:	20MPa	***		
Caliper range:	75mm to 700mm	***		
		***	3	
Part Numbers		THE		
1002044	Borehole Geometry probe with natural gamma	788		
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		The C		
		70.0	-	

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Example of logging data

Borehole Geometry Probe

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