

i-QUAD CEMENT SCANNER

Characteristic | Description

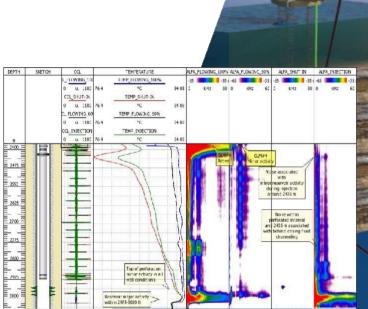
Measurement Principle	Neutron - Neutron, Neutron - Gamma and Gamma - Gamma using a dual AmBe241 & Cs137 radioactive source		
Dimensions	1-11/16" (43 mm)		
Ratings	150deg C, 15,000 PSI		
Measurements	Cement evaluation of multiple casing while logging through tubing.		
Conveyance	Wireline, Slickline, Coiled Tubing, Drill Pipe and Tractor		
Acquisitions	Real Time and Memory Mode		
Logging Speed Requirement	5m/min or 15ft/min		
Resolution	Vertical Resolution: 12"		
Minimum ID	43 mm (1.71 in)		
Application	1. Cement volume calculation for multiple casing		
	2. Cement index calculation for multiple casing		
	Evaluate cement volume behind two layers of casing without he hassle of pulling out the tubing.		

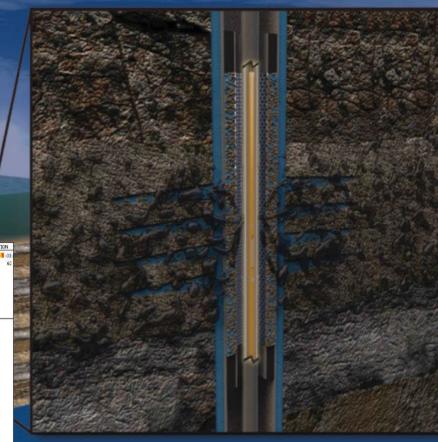
CEMENT EVALUATION THRU PIPE

MemBatt

1.22 m	
Memory 1.06 m	
Telemetry Combo	Up Hole Temperature (UHT)
ТСА	High Gamma Ray (HGR)
1.97 m	Gamma Ray (GR)
	Casing Collar Locator (CCL)
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Multi Neutron	Long Neutron Gamma (LNG)
MNA	Short Neutron Gamma (SNG)
2.13 m	Neutron Source (AmBe & Cs)
	Short Neutron Neutron (SNN)
	Long Neutron Neutron (LNN)







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HYDRAULIC ISOLATION DIAGNOSTIC

Characteristic Description

Measurement Principle	Highly sensitive acoustic sensor	
Dimensions	1.26" (32 mm)	
Ratings	150deg C, 15,000 PSI	
Measurements	Spectral Noise, High Resolution Temperature and Casing Collar Locator sensors	
Conveyance	Wireline & Slickline	
Acquisitions	Memory Mode	
Application	pplication 1. Leak Detection (tubing/casing/packer leaks)	
	2. Diagnosis of Sustained Casing Pressure	
	3. Location of open perforations	
	4. Identification of flow zones behind pipe	
	5. Identification of channeling behind pipe	

SPECTRAL NOISE MONITORING

Ø 1.26 in (Ø 32 mm)		
	ACOUSTIC SENSOR	
1.64 ft (0.5 m)	Dynamic Range	90dB
	Operating Frequency Range	8Hz to 120,000Hz
	Operating Mode	Stationary
	Number of Spectral Channel	1024 (512 + 512)
	General	
	Length	1.64ft (0.5m)
	Weight	3.10lbs (1.4Kg)
	Memory	
	Capacity	2GB
	Sampling	0.5 to 255sec