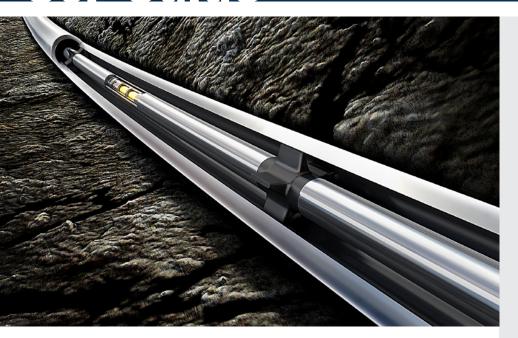
Sci-Guide™



Scientific Drilling's Sci-Guide™ provides azimuthal gamma ray and inclination measurements close to the bit. It is an excellent tool used in Geosteering applications to stay within the "sweet spot" of the reservoir.

On the Bottom Hole Assembly (BHA), Sci-Guide is extended and placed just above the motor giving the client enough time to quickly react to formation changes.

Sci-Guide can be run with any of SDI's MWD and LWD systems in all configurations.

For more information on LWD solutions, contact your Scientific Drilling sales representative or visit:

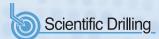
http://scientificdrilling.com/lwd

APPLICATIONS

- Shale from non-shale distinction
- Lithology identification
- Formation correlation
- Casing and coring point selection
- Geosteering
- Shale volume estimation
- Formation thickness

BENEFITS

- Maintains maximum reservoir contact by using azimuthal gamma ray and continuous inclination measurements for geosteering
- Inclination measurement can be positioned 20 to 25 ft (6 to 8m) closer to the bit than standard MWD survey tool, contibuting to a smoother wellbore and easier completion.
- Delivers overall increased ROP by using the azimuthal gamma ray and inclination measurements to keep the bit within zone of interest in the reservoir



GENERAL SPECIFICA	TIONS		
COLLAR OD	3.125 in (79.4 mm) 3.5 in (88.9 mm) 4.75 in (120.7 mm) 6.5 in (165.1 mm) 6.75 in (171.5 mm) 8.0 in (203.2 mm) 9.5 in (241.3 mm)		
PROBE OD	1.75 in (44.5 mm)		
PROBE LENGTH	38.5 in (97.79 cm)		
MAX DOG LEG (Deg/100 ft, OD)	SLIDING 12° (9.5 in) 12° (8 in) 19° (6.75 in) 20° (6.5 in) 28° (4.75 in) 60° (3.5 in) 65° (3.125 in)	ROTATING 5° (9.5 in) 7° (8 in) 8° (6.75 in) 10° (6.5 in) 12° (4.75 in) 20° (3.5 in) 20° (3.125 in)	
MAX OPERATING TEMPERATURE	302°F (150°C)		
MAX OPERATING TEMPERATURE	20,000 psi (137,900 kP	20,000 psi (137,900 kPa) (30,000 psi available)	
FLOW RANGE PER TOOL SIZE	TOOL OD 3.125 – 3.875 in 4.750 – 6.500 in 6.250 – 6.500 in 5.000 – 8.000 in 9.5 in	GAL/MIN 50 - 200 100 - 400 200 - 600 250 - 1,000 300 - 1,500	

MEASUREMENT SPECIFICATIONS		
DETECTOR TYPE	Nal Scintillation Crystal	
INCLINATION ACCURACY	± 0.15° all angles	
GAMMA RANGE	0 - 1,000 AAPI	
AZIMUTHAL GAMMA BINS	2	

^{*}Specifications are subject to change without notice



