IntelleX™ Memory Correlation Tool

Provides slickline correlation for multiple applications

Applications

- Slickline-conveyed service for the following applications:
  - High-resolution depth determination
  - Bottomhole pressure (BHP)/gradient services
  - Sliding sleeve position determination
  - Detect fluid movement in production/injection wells

Features and Benefits

- Integrated gamma ray/casing collar locator (CCL)
- Piezoresistive pressure and temperature
- 8MB memory to store 550,000 data sets

Tool Description

The Weatherford IntelleX memory correlation tool (MCT) is a combined CCL, gamma ray, piezoresistive pressure, and temperature tool ideal for high-resolution depth determination, BHP/gradient surveys, monitoring sliding sleeve (SSD) positioning, and determining fluid movement in producing or injecting wells.

The tool can be programmed to sample any or all channels at up to 32 samples per second. The 8 MB non-volatile flash memory can store up to 550,000 data sets.

Weatherford®

IntelleX™ Memory Correlation Tool

Specifications

Ratings and dimensions

Outer diameter	1.69 in. (43.0 mm)
Length	5.55 ft (1,691.0 mm)
Weight	29.8 lb (13.5 kg)
Maximum temperature	347°F (175°C)
Maximum pressure	15,000 psi (103.4 MPa)

Hardware characteristics

Transducer type	Piezoresistive
Housing	Corrosion resistant | 17-4PH (standard) or NACE MR-01-75
Acquisition	Mode: Memory
Connection	Top/bottom: 15/16 in. x 10UN (5/8 in. sucker rod)

Temperature measurements

Range	32 – 345°F (0 – 175°C)
Accuracy	< ±0.9°F (< ±0.5°C)
Resolution	< 0.02°F @ 1 sps (< 0.01°C @ 1 sps)

Gamma ray measurements

Maximum counting rate	3,000 cps, 4,000 API
API calibration	1 CPS/API unit

Casing collar locator

Range	2 3/8 to 7 in. (60.5 to 177.8 mm)
Principle	Magnetic flux line

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Specifications, continued

Electrical specifications

Battery	5 x ‘C’ cell lithium battery
Voltage (DC)	19.5 V, 6.2 Ahr
Memory rate	179 hr @ 1 sps | 52 hs @ 1 sps PTGR
Memory capacity	8MB
Current	5 mA standby | 54mA sampling
Consumption	At 1 sps > 4.3 days operation from a single battery