Quantitative Fluorometer

Provides fluorescence measurements for crude oil to help identify pay zones and speed decision making

Applications

- Measuring the fluorescence of crude oil extracted from core samples and drill cuttings
- Determining absolute oil quantity and oil type

Features and Benefits

- Automatic ranging gives a consistent high, medium, or low reading to enable quantitative results.
- The rugged design enhances reliability and minimizes downtime.
- The liquid crystal display (LCD) is easy to read.

Tool Description

The quantitative fluorometer rapidly measures the fluorescence of crude oil found in wet or dry core samples or drill cuttings. The measurements are converted to weight percent oil and API gravity, which indicates the amount and type of oil in the formation. The portable fluorometer can be used at the wellsite to enable immediate evaluation of pay zones and faster drilling decisions.

Measurements from the quantitative fluorometer (on the right) can be recorded and converted to weight percent oil and API gravity using a personal computer or laptop.

Specifications

Generic name and description	Quantitative fluorometer
Brand	Turner Designs
Model	QFT2™ mud logging fluorometer
Optical system	10-AU fluorometer
Filter A	Nominal wavelength: 287 nm
	Single-ring aromatic fluorescence of extracted oils
Filter B	Nominal wavelength: 365 nm
	Three-ring aromatic fluorescence of extracted oils
API range	0 to 100%
Weight percent oil range	0 to 100%, estimated
Required hardware and software	PC with 386 CPU minimum
	640 × 480 graphics (VGA color recommended)
	Either COM1 or COM2 serial data port
	256K memory minimum
	Hard drive with 1 MB of free space
	MS-DOS 3.0 or later operating system

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