

RESERVOIR DESCRIPTION TOOL (RDT™) FORMATION TESTER

Fluid-Identification Section

Fluid density is the cornerstone of fluid identification and fluid contacts downhole, and a critical measurement for formation testing. The Reservoir Description Tool (RDT™) Fluid-Identification Section (FLID) combines a best-in-class high-resolution density sensor with co-located complementing sensors to accurately measure miscible and immiscible formation fluids.

HIGH-RESOLUTION FLUID DENSITY

The unique vibrating tube densometer enables high-resolution fluid density measures accurate fluid density and the change in density from filtrate to native fluid.

CONTAMINATION

Density contrast from filtrate to native fluid will indicate the level of contamination and determine when the desired sample purity is reached using Fluid Studio. The high-resolution of the FLID densometer ensures all changes in fluid density are measured and contamination determined.

MAKING SENSE OF IMMISCIBLE FLUIDS

Using the combination of volume vs. high-resolution sensors allows the FLID to produce a volumetric map of the fluids. This map enable you to see the volumes of all flowing fluids and make real-time sampling decisions. Immiscible maps are a valuable tool in understanding complex fluids that in the past were treated as poor-quality data.

CO-LOCATED SENSORS

Utilizing multiple sensors of density, capacitance, and resistivity to perform fluid identification allows multiple sensor confirmation of fluids. This is very valuable in the case of free gas or water, which can interfere with the fluid analysis.

Dimensions and Ratings

Max Temperature	350°F (177°C)	300°F (149°C)
Max Pressure	25,000 psi (172 MPa)	30,000 psi (207 MPa)
OD	4.75 in. (12.07 cm)	
Length	3.63 ft (1.106 m)	
Weight	140 lb (63.5 kg)	

Borehole Conditions

Borehole Fluids	Salt <input checked="" type="checkbox"/>	Fresh <input checked="" type="checkbox"/>	Oil <input checked="" type="checkbox"/>	Air <input checked="" type="checkbox"/>
Recommended Logging Speed	Stationary			
Tool Positioning	Centralized <input checked="" type="checkbox"/>	Eccentrized <input checked="" type="checkbox"/>		



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Measurements**Fluid Density Sensor**

Accuracy	Resolution
+/- 0.01 g/cc	0.0001 g/cc

Strain Gauge Pressure Transducer

Accuracy	Resolution
+/- 0.1% full scale	0.2 psi (1.4 KPa)

Bulk Capacitance

Accuracy	Resolution
10% full scale	1 pF

Resistivity

Accuracy	Resolution
10% full scale	0.02 ohm-m

Fluid Temperature

Accuracy	Resolution
0.1% full scale	0.01°F (-18°C)

Physical Strengths

Hardware	Tool Joints
Tension	200,000 lb (90,719 kg)*
Compression	200,000 lb (90,719 kg)*
Torque	600 ft-lb (813 N-m)*

* Strengths apply to new tools at 70°F (21°C) and 0 psi.

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