

## Hexapod Resistivity Imaging Tool-X (RIT-X)

This new electrical wireline borehole imaging tool is designed to obtain superior quality images even in high Rt:Rm environments. The expanded operating range of the RIT-X over conventional electrical imaging tools is achieved through its new, state-of-the-art, 32 bit digital signal acquisition architecture combined with a large increase in available power for the excitation current.

### Specifications

#### DIMENSIONS AND RATINGS

Max Temp:	350°F (175°C)
Max Press:	20,000 psi (140 MPa)
Max OD:	5 in. (12.7 cm)
Min Hole:	5.875 in. (14.92 cm)
Max Hole:	21 in. (53.34 cm)
Length:	25.24 ft (7.69 m)
Weight:	496 lb (97.5 kg)

#### BOREHOLE CONDITIONS

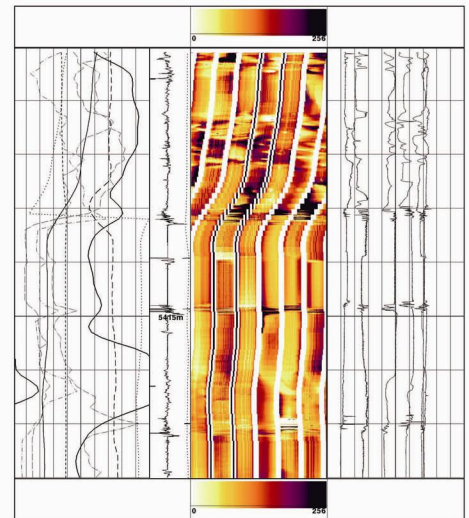
Borehole Fluids:	Salt/Fresh
Recommended Logging Speed (High Data Rate):	30ft/min (9.1m/min) Image Mode
Recommended Logging Speed (Low Data Rate):	20 ft/min (6.1 m/min) Image Mode
Tool Positioning:	Centralized

#### HARDWARE CHARACTERISTICS

Source Type:	Induced Current
Sensor Type:	Micro-Resistivity Buttons
Sensor Spacings:	2 rows containing 12& 13 sensors, respectively 0.300 in. between rows 0.200 in. between sensors on each row 0.100 in. between sensors when both rows are superimposed
Firing Rate:	Continuous
Sampling Rate:	120 samples/ft (394 samples/meter) @20ft/min (Low Data Rate) & 30ft/min (High Data Rate) 310 Words/Frame(Low Data Rate) 456Words/Frame( High Data Rate)

#### MEASUREMENT

	Resistivity	Azimuth	Rotation	Deviation	Caliper
Principle	Micro-Resistivity	Navigation			6 Indep.
Range	0.2-10,000 ohm-m 0<Rt/Rm<20,000	0-360°	0-360°	0-90°	6-21 in.
Vertical Resolution 90%	0.2 in.	N/A	N/A	N/A	N/A
Depth of Investigation 50%	Formation Dependent	N/A	N/A	N/A	N/A
Sensitivity	N/A	0.1°	0.1°	0.03 °	0.1 in.
Accuracy	N/A	±5°	±2°	±0.4°	±0.1°
Primary Curves	Image	AZI,HAZI	ROT	DEVI	CAL 1-6
Secondary Curves	Micro-Resistivity, Dip Angle, Dip AZI, Borehole Inclination				



#### CALIBRATION

Primary: Resistor box, navigation cal stand & vertical hoist, 7-15 in. caliper rings

Wellsite: Resistor box, operation check of navigation sensors, 7 in Caliper ring

#### PHYSICAL STRENGTHS\*

Hardware	Tension	Compression	Torque
Tool Joints	130,000 lbs	130,000 lbs	600lb-ft
Mandrel Body Under Calipers	150,000 lbs	150,000 lbs	1800lb-ft
4 1/4-inch Isolator	130,000 lbs	130,000 lbs	1800lb-ft

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