



EFTECH DRILLING SOLUTIONS
Efficient | Reliable | Cost Effective

1481 TRIPLE DETECTOR DENSITY (DEN)

The 1481 Triple Detector Density tool is a slim borehole logging instrument designed to provide omnidirectional formation density measurement through the proprietary LWT composite collar.

OPERATING PRINCIPLE

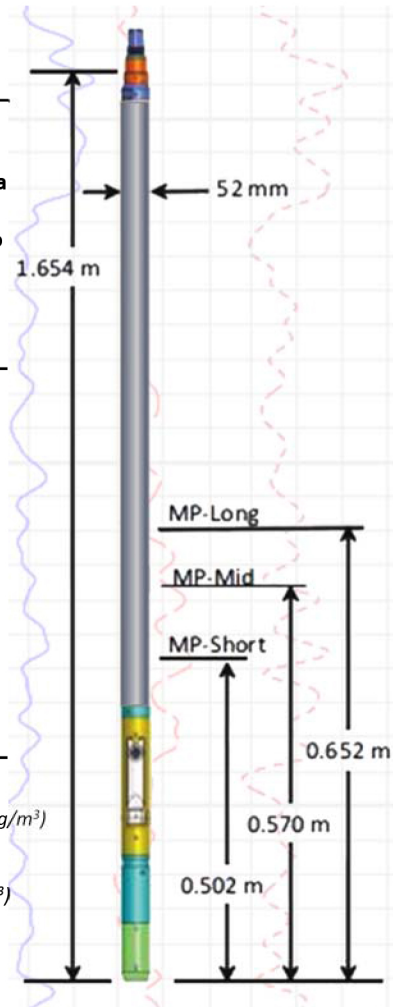
The 1481 Triple Detector Density contains a gamma ray source and three high-sensitivity scintillation detectors. Gamma radiation from the source is back scattered by the formation and is measured by three detectors equipped with proprietary shielding designed to optimize gamma ray collimation. Borehole effects are removed through computed stand-off and mud density measurement derived from relative readings of the multiple spaced detectors with reference to calibration and modeled responses. An apparent bulk density is then calculated from borehole compensated data as well as an average caliper and density correction.

SPECIFICATIONS

<i>Weight:</i>	15 kg (33 lbs)	<i>Recorded Curves:</i>	SSRaw (cps) MSRaw (cps) LSRaw (cps)
<i>Maximum Temp:</i>	150 deg C (300 deg F)		
<i>Maximum Pressure:</i>	100 MPa (14,000 PSI)		
<i>Detector Type:</i>	NaI	<i>Calculated Curves:</i>	SS density, borehole corrected MS density, borehole corrected LS density, borehole corrected Apparent Bulk Density (g/cc – kg/m ³) Average Caliper Density Correction
<i>Radioactive Source:</i>	Cs ₁₃₇ - 74 GBq (2 Ci)		

LOGGING PARAMETERS

<i>Logging Speed:</i>	7 m/min (23 ft/min)	<i>Measurement Range:</i>	Bulk Density: 1-3 g/cm ³ (1000-3000 Kg/m ³)
<i>Sample Rate:</i>	1 sample / sec		
<i>Depth of Invest.:</i>	100 mm (3.9 in)		
<i>Vertical Resolution:</i>	448 mm (17.6 in)	<i>Accuracy:</i>	Bulk Density: +/- 0.05 g/cm ³ (50 Kg/m ³)
<i>Minimum Hole Size:</i>	125 mm (4.9 in)		
<i>Maximum Hole Size:</i>	250 mm (9.8 in)		



EFTECH Drilling Solutions Sdn Bhd | 1151083-U

A Malaysian DD/MWD/LWD Service Provider

PLO 232 Jalan Kencana Emas 2,
Kawasan Perindustrian Tebrau III,
81100 Johor Bahru, Malaysia

Tel: +607 3578 311 | Fax: +607 3511 312
enquiry@eftech.com.my

www.DatalogTechnology.com

www.eftech.com.my

TECHNICAL DATA SHEET