

# PRODUCTION LOGGING TOOLS PLT



## DESCRIPTION

Production Logging Tools consist of a combination of different sensors and ancillary tools. The PLT tools can be combined with any tool in the GDTbus Suite using a Wireline Telemetry Cartridge(SRO) or Downhole Memory Cartridge(Memory). All tools can be combined in any order to facilitate well specific requirements.

## STANDARD TOOLS

- Gamma Ray Tool (GRT)
- Casing Collar Locator (CCL)
- Fluid Density Radioactive (FDR)
- Fluid Density Acoustic (FDA)
- Spectral Noise Tool (NST)
- Capacitance/Temperature/Flow (HTF)
- Folding Flowmeter (CSFM)
- Continuous Flowmeter (CFJ)
- Inline Spinner Flowmeter (ILB)
- Quartz Pressure / CCL (QPC)
- Fast Response Temperature (RDT)

## APPLICATIONS

- Evaluate completion efficiency
- Detection of mechanical problems
- Provide guidance for workovers
- Evaluate treatment techniques
- Monitor or profiling of production
- Detect thief zones
- Determine reservoir characteristics
- Define reservoir boundaries
- Leak Detect

## AUXILIARY TOOLS

- Roller Centralizer Tool (RCT)
- Knuckle Joint Tool (KJT)
- Swivel Sub (PSC)
- Dual Roller Centralizer (DRC)
- Spring Bow Centralizer (SCT)

## SPECIFICATIONS

PROTOCOL	GDTa	
DIAMETER	1-3/8" (35mm)	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	15,000psi (103MPa)	
VOLTAGE / CURRENT	18VDC 35mA	



**STANDARD TOOL SPECIFICATIONS**

GAMMA RAY (GRT)	
SONDE COMPOSITION	Nal
CCL (CCL)	
SONDE CONFIGURATION	6 Oriented Magnet
FLUID DENSITY RADIOACTIVE (FDR)	
SONDE CONFIGURATION	Nal Crystal / AM241 or CS137
PRECISION	±0.01g/cc
ACCURACY	±0.03 g/cc
FLUID DENSITY ACOUSTIC (FDA)	
PRECISION	±0.01g/cc
ACCURACY	±0.03 g/cc
SPECTRAL NOISE TOOL (NST)	
SONDE COMPOSITION	Piezoceramic
OPERATING FREQUENCY	100Hz - 12.7KHz
OUTPUT FORMAT	MP3
CAPACITANCE / TEMPERATURE / FLOW (HTF)	
CAPACITANCE RANGE	0 - 45%
CAPACITANCE ACCURACY	±1%
TEMPERATURE PRECISION	±0.018°F (0.01°C)
TEMPERATURE ACCURACY	±3.6°F (2°C)
TEMPERATURE RESPONSE TIME	<0.5s
FLOW RESOLUTION	10 PPR
FLOW METER (CSFM / CFJ / ILB)	
SONDE COMPOSITION	Jeweled or Ball Bearing
QUARTZ PRESSURE COLLAR LOCATOR (QPC)	
SONDE COMPOSITION	QUARTZDYNE
ACCURACY	±3.2 psi
RESOLUTION	±1.6 psi
RESPONSE TIME	< 1s
SONDE CONFIGURATION	6 Oriented Magnet
FAST RESPONSE TEMPERATURE (RDT)	
ACCURACY	±0.09°F (0.5°C)
RESOLUTION	±0.009°F (±0.005°C)
RESPONSE TIME	< 0.08 s