



Scientific Drilling proudly introduces the N-Field mPLT+ for safer, more reliable, and superior production logging data acquisition for North Field, Qatar reservoir surveillance applications.

The N-Field mPLT is the product of several years of North Field experience and in-house R&D capability, bringing a memory, slickline-conveyed PLT solution to the forefront of North Field surveillance.

For more information on production logging services, contact your Scientific Drilling sales representative or visit:

<http://scientificdrilling.com/cased-hole-services>

## GENERAL SPECIFICATIONS

LENGTH	32 - 40 ft	
HOUSING DIAMETER	1 3/8 in (OD)	
SPINNER RESOLUTION	3 1/2 in (OD) - Minimum 0.1 rps with reduction	
CENTRALIZER COLLAR DIAMETER	2 in (Over-body)	
TEMPERATURE RATING	302°F	
PRESSURE RATING	15 kpsi	
GAMMA RAY CRYSTAL DETECTOR	Sodium iodide (NaI) scintillation	
CASING COLLAR LOCATOR TYPE & MEASUREMENT FREQUENCY	Magnetic flux 50 samples per second	
TUNING FORK DENSITY ACCURACY/RESOLUTION	0.003 g/cc / ±0.001 g/cc	
CAPACITY RANGE ACCURACY/RESOLUTION	0-100% (Dependent on water hold-up)	
TEMPERATURE SENSOR ACCURACY/RESOLUTION	Standard: Platinum resistance ±1.8°F / 0.02°F	Optional: Fast response platinum resistance ±0.6°F / 0.004°F
PRESSURE SENSOR ACCURACY/RESOLUTION	Standard: Quartz ±3.0 psi / 0.01 psi	Optional: MEMS ±1.0 psi / 0.005 psi

\*Specifications are subject to change without notice

## BENEFITS

- + Compact & modular design allows deployment of multiple tool-strings for data redundancy and quality assurance
- + Variable spinner impeller blade pitch for optimal response
- + Three identical spinners can be incorporated into the modular system
- + Proprietary tuning fork density sensor provides excellent quality fluid density data in high gas flow conditions
- + Proprietary depth acquisition system with redundancy
- + Batteries can be stacked for run durations in excess of 10 days
- + North Field MPLT deployment since 2008
- + Rapid data processing & delivery in accordance with North Field protocols

## SLICKLINE VS ELECTRIC-LINE CONVEYANCE

- + Reduces risk of tools lost in hole
- + Fishing of electric line cable relatively more problematic, time-consuming and costly
- + Slickline dramatically reduces risk of HSE incidents
- + Slickline conveyance reduces lift forces by a factor 3
- + With slickline conveyance, multi-rate tests can be performed over a much greater spread of flow rates, making SIP analysis much more accurate
- + Environmentally hazardous grease injection eliminated