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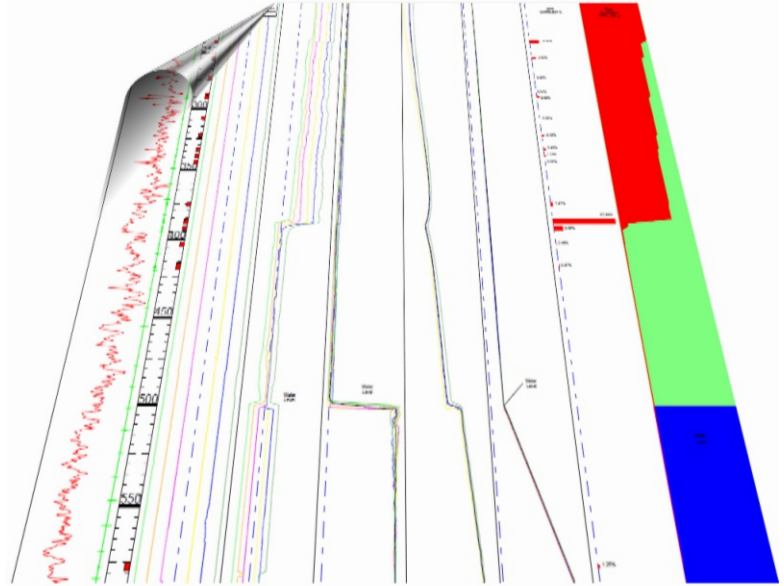
Production Logging (PL)

Description:

Production logging is used to evaluate inflow zones in producing wells or exit zones in injection wells. Both qualitative and quantitative, production logging remains a powerful method to identify what is actually happening down hole as opposed to what one may think is happening.

Surveys can be used throughout the life of a well to evaluate reservoir behavior, examine stimulation practices or to identify potential mechanical problems. Production logging may be used to quantify zonal gas or oil production, identify points of water entry, locate thief zones or anything related to productivity or injectivity of the well's fluids.

Voltage has used production logging in both vertical and horizontal wells utilizing surface readout and memory. Tools are also available for sweet or sour environments.



Application Examples:

- Quantify hydrocarbon zonal production.
- Identify points of water entry.
- Evaluate stimulation practices.
- Examine injectivity performance.
- Locate casing/plug leaks.
- Frac port evaluation.
- Identify flow behind pipe (temperature).
- Horizontal well production evaluation.
- Identify thief zones or cross flow.
- Coal gas evaluation.
- Extreme low flow zonal production.
- Board required flow evaluation.



Sondes	Flow,Temp,Pres,Fluid Den,Cap,GR,CCL
Flowmeter Options	Collapsible Fullbore, Continuous, LowFlow
OD	1-3/8" (35.0 mm)
Temp Rating	350 °F (177 °C) SRO, 302 °F (150 °C) Memory
Pressure Rating	15,000 PSI (103 MPa)
H2S-CO2 Rated	Available
Memory	Available
Deployment Examples	Wireline, Coil Tubing, Tractor, etc...

Tool graphics courtesy of Lee Specialties Inc.

Wireline Services
Cased Hole Logging
Conventional Perforating
HZ Pump Down & E-Coil
Tractor and TCP Services
Swabbing & Pipe Recovery

Specialty Services/Fiber Optic
Cased Hole Analysis Service
SCVF HiFi MiQro/Noise Log
Casing Inspection
Production Logging
Distributed Temp. Sensing(DTS)

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