



PRESSURE TEMPERATURE CAPACITANCE CCL (MCS)

MCS is a memory tool combining four sensors into a single compact module. The instrument measures pressure, temperature, capacitance water hold-up and casing collar locator (CCL).

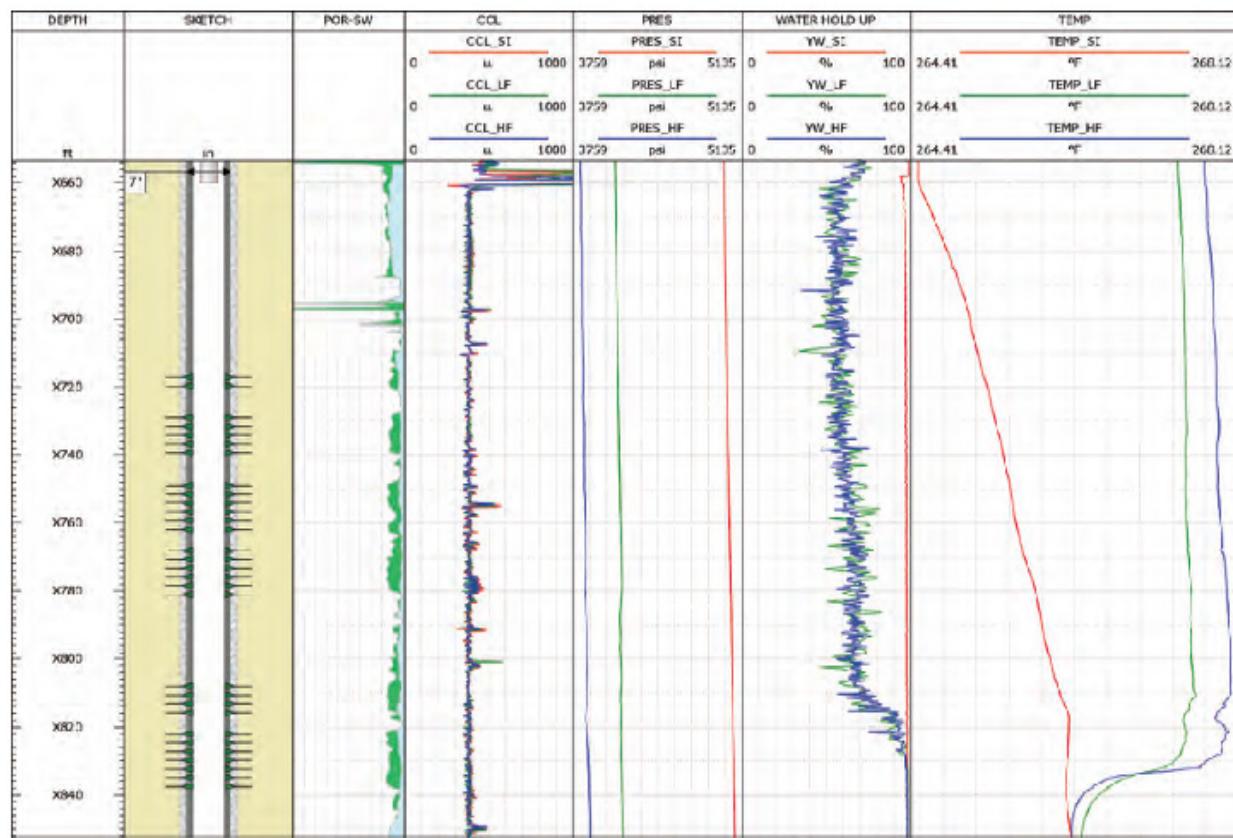
FEATURES & APPLICATIONS

- Correlation of cased hole logs between runs and wells.
- Leak Detection with high-resolution temperature Log.
- Identification of production and injection zones.
- Location of top of cement.
- Low flow rate profiling when coupled with temperature simulation analysis.
- Water Hold-Up measures the dielectric constant of the surrounding borehole fluid to determine the water holdup.
- Compact by combining multiple sensors into one tool.
- Record the value of the sensors in the device memory.
- Memory acquisition can be triggered either at a specific time or when exceeding specific pressure.

LOG EXAMPLE



MCS





PRESSURE TEMPERATURE CAPACITANCE CCL (MCS)

SPECIFICATIONS

| MCS32J-B | |
|-------------------------------------|--------------------------|
| P/N 1.01.07.300004662 | |
| GENERAL SPECS | |
| Maximum Operating Pressure | 15,000PSI (103 MPa) |
| Maximum Operating Temperature | 302°F (150°C) |
| Instrument Diameter | 1.26 in (32mm) |
| Length | 1.80 ft (0.33m) |
| Weight | 6.60 lbs (3.0 kg) |
| Tensile strength | 15000 lbs |
| Compression strength | 9000 lbs |
| Housing Material | Titanium |
| PRESSURE SENSOR | |
| Accuracy | 0.02% FS |
| Resolution | 0.0001% FS |
| TEMPERATURE SENSOR | |
| Accuracy | 0.1°C |
| Resolution | 0.001°C |
| Response Time | 0.4 sec |
| CCL SECTION | |
| Measurement Range | 0 to 3.3V |
| Resolution | + / - 2 uV |
| SNR (Signal to Noise Ratio) | 14 dB |
| HOLD UP | |
| Resolution of Holdup | 1% |
| Accuracy of Holdup | ±2% |
| Range of Holdup | 0~100% |
| MEMORY | |
| Capacity | 100 hour (@ 1sample/sec) |
| Sampling | 0.5 to 255 sec |