

PRIME Environmental sub

Real-time downhole sensor measurement for e-line interventions

Applications

- Real-time sensor measurement during:
 - Plug pulling
 - Mechanical tubular punching
 - Leak detection
 - Production logging
 - Valve or sleeve shifting

Features and Benefits

- Provides real-time downhole measurement to validate mechanical activity
- Reduces operational costs through minimal logistics, smaller footprint, fewer personnel, and shorter intervention time.
- Integrates seamlessly with other PRIME architecture technology for flexible deployment

The **PRIME Environmental sub** from Baker Hughes is an essential module within the PRIME Technology Platform, delivering independent sensor validation and real-time insights into downhole conditions during e-line intervention.

Sensor capabilities

The Environmental sub provides a suite of real-time downhole measurements. It monitors borehole temperature and pressure to deliver an accurate picture of in-situ well conditions. For precise depth control, the tool supports cased hole depth correlation using collar logging locator (CCL). A low-g accelerometer tracks toolstring motion and vibrations, offering valuable diagnostics for tool integrity and operational stability. Additionally, a high-g accelerometer records high-shock events such as those encountered during downhole mechanical events e.g. mechanical punching & plug retrieval

Configurability

The PRIME Environmental sub can be conveyed as a single sensor or as part of an e-line powered mechanical intervention program.

Flexible Deployment

The PRIME Environmental sub can be conveyed under gravity or by PRIME Tractor and Release Sub System (RSS) when inclination dictates.



| PRIME Environmental Sub | | |
|-------------------------|--|------------------|
| | Imperial | Metric |
| Tool OD / length | 2.5 in. / 33 in. | 63.5 mm . 837 mm |
| Temperature rating | 350°F | 177°C |
| Pressure rating | 15,000 psi | 1,034 bar |
| Sensors | <ul style="list-style-type: none"> • Casing Collar Locator (CCL) • Wellbore pressure (4 psi accuracy) • Wellbore temperature (0.15°C accuracy) • Accelerometers (High & Low G) | |