

# 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"> <li>• Casing Collar Locator (CCL)</li> <li>• Wellbore pressure (4 psi accuracy)</li> <li>• Wellbore temperature (0.15°C accuracy)</li> <li>• Accelerometers (High &amp; Low G)</li> </ul>	