Position wireless correlation tool

Real-time depth correlation during Symphony live downhole reservoir testing for improved accuracy and operational efficiency

**Temperature:**
Reliable, consistent performance to 330-degF rating

**Measurement:**
Real-time depth correlation with ±1-ft accuracy

**Log:**
Continuous gamma ray count and pressure

Where it is used
- Downhole reservoir testing
- Land and offshore
- Exploration and appraisal wells
- Multizone well testing

How it improves wells
The Position wireless correlation tool is incorporated in the Symphony* live reservoir testing toolstring to provide real-time depth correlation to a pip tag or natural formation gamma ray signature.

How it works
Continuous real-time gamma ray and pressure measurements are used to position the perforating guns at the target reservoir with an accuracy of 1 ft [0.3 m]. A photomultiplier tube (PMT) sensor provides fast response and high signal-to-noise ratio for the gamma ray count. A Signature* quartz gauge obtains accurate, high-resolution pressure measurements in all operating environments.

What it replaces
Eliminating a separate intervention run to obtain a wireline gamma ray and casing correlation log for depth correlation saves rig time, reduces crew size, and enhances safety.

What else I should know
Symphony testing uses Muzic* wireless telemetry for real-time bidirectional communication between surface and downhole. The Position tool’s gamma ray and pressure data is communicated via a digitized acoustic signal transmitted along the toolstring with a network or repeaters. In turn, Muzic telemetry enables direct interaction to space out the toolstring for the perforating operation.

### Specifications

<table>
<thead>
<tr>
<th>Measurements</th>
<th>GRPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>H₂S: NACE MR0175</td>
</tr>
<tr>
<td>Spatial resolution, ft [m]</td>
<td>1 [0.3]</td>
</tr>
<tr>
<td>Max. pressure, psi [MPa]</td>
<td>18,000 [124]</td>
</tr>
<tr>
<td>Temperature rating, degF [degC]</td>
<td>330 [166]*</td>
</tr>
<tr>
<td>Max. OD, in [mm]</td>
<td>1.2 [39.5]</td>
</tr>
<tr>
<td>Length, in [cm]</td>
<td>60.2 [152.7]</td>
</tr>
<tr>
<td>Weight (excluding battery), lbm [kg]</td>
<td>11 [5]</td>
</tr>
</tbody>
</table>

* Specific maintenance service level needed for temperature rating about 300 degF [149 degC].

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