APWD
Annular Pressure-While-Drilling

Increases drilling efficiency by providing real-time down-hole pressure information

FEATURES
- Adapts to conventional mud pulse tool string
- Memory recordable
- Can be logged to most gamma software
- Formation Integrity Test (FIT)
- Fully programmable
- Vibration Sensing
- Temperature compensated pressure measurements

BENEFITS
- Real time pressure monitoring
- Fully retrievable
- Better hole cleaning monitoring
- Detecting kicks and influxes
- Reduced drilling expenses

APPLICATIONS
- Reservoir pressure management
- Drilling optimization
- Equivalent Circulation Density (ECD) measurements
- Maintaining tight overbalance to optimize ROP without reducing safety

Annular Pressure-While-Drilling Specifications

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<table>
<thead>
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<tbody>
<tr>
<td>Nominal Tool O.D.</td>
<td>4.75” to 8.0”</td>
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<tr>
<td>Tool Length</td>
<td>2.91 feet / 0.89 m</td>
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<tr>
<td>Temperature Rating</td>
<td>175 °C</td>
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<tr>
<td>Transducer Rating</td>
<td>15,000 to 29,000 PSI</td>
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<tr>
<td>Accuracy % Full Scale</td>
<td>Worst case 0.1%</td>
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<tr>
<td>Repeatability +/- psi</td>
<td>1 PSI</td>
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<tr>
<td>Detector Type</td>
<td>Silicon or Silicon Integrated Sensor</td>
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