Eliminating Multiple Downhole Trips with SPECTRUM℠ FUSION Real-Time Hybrid Coiled Tubing Service
Well Intervention Challenges

Tool Conveyance Precision

Depth Accuracy

Complex Well Access

Treatment Placement Assurance
Diagnostic Challenges

Cluster Efficiency

Flow Contribution

Well Integrity
SPECTRUM\textsuperscript{SM} FUSION Real-Time Hybrid Coiled Tubing Service
Integrate Well Diagnostic and Interventions Capabilities

- Integrated Logging Capability
- Open Architecture
- No Power Limitation
- Enhanced Single Trip
- Fast Rig Up
- Transparent to Operations
- Enhanced Logistic
SPECTRUM\textsuperscript{SM} FUSION Real-Time Hybrid Coiled Tubing Service
Integrate Well Diagnostic and Interventions Capabilities

**FEATURES**

- DTS/DAS (Fiber Optics)
- Pressure (Internal and External)
- Temperature
- Gamma Ray (GR)
- Casing Collar Locator (CCL)
- Tension / Compression / Torque

**SPECIFICATIONS**

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<thead>
<tr>
<th></th>
<th>2-1/4 in.</th>
<th>3-3/8 in.</th>
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<tbody>
<tr>
<td>Sizes</td>
<td></td>
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<tr>
<td>Pump rates clean fluid</td>
<td>2.2 bpm</td>
<td>8.3 bpm</td>
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<tr>
<td>Pump rates abrasive</td>
<td>1 bpm</td>
<td>3.6 bpm</td>
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<tr>
<td>Tensile strength</td>
<td>45,000 lbf</td>
<td>60,000 lbf</td>
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<tr>
<td>Torque</td>
<td>800 ft-lb</td>
<td>2800 ft-lb</td>
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<tr>
<td>Rating</td>
<td>15,000 psi / 350\textdegree F / 1000 G</td>
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<tr>
<td>Length</td>
<td>12.5 ft.</td>
<td>13 ft.</td>
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Inclination
Tool Face
Vibration
Cable Disconnect
Ball Drop Capability
Real Time and Memory modes
SPECTRUM\textsuperscript{SM} FUSION Real-Time Hybrid Coiled Tubing Service
Integrate Well Diagnostic and Interventions Capabilities

- Cable head with cable cutter
- Motor head assembly including rupture disk, flapper valves and hydraulic disconnect
- Intervention adaptor to connect all mechanical tools
- Ultra compact sensor module with P, T, CCL, GR, WOB, torque, inclination, tool face, vibration
- Wire line adaptor for all logging services
SPECTRUM\textsuperscript{SM} FUSION Real-Time Hybrid Coiled Tubing Service
Integrate Well Diagnostic and Interventions Capabilities

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THANK YOU