3 Asset Types
Data Streams

- Equipment sensors
- Control systems
- Electronic Data Recorder
- Electronic Telemetry
- Alarm management system

- Training
- Competency
  - Experience/Currency
  - Safety performance
  - Productivity performance

- Work planning
  - Procedural adherence
  - Procedural performance
  - Safety system/control of work
  - Barrier management

Never miss a critical step
Benefits: Operator

- Digital handover
  - Well planning to well construction
  - Bridging document integration

- Contract management
  - Workforce readiness
  - Procedural adherence
  - Safety barrier visibility
  - Performance vs AFE
Operator Dashboard
Benefits: Drilling Contractor Management

- Actionable Information
  - Workforce readiness
  - Safety barriers
  - Operational productivity
  - Predictive maintenance

- Performance Improvement
  - Invisible lost time
  - Invisible risk
  - Incident investigation in “replay” mode
Contractor Dashboard
Benefits: Drilling Contractor Operations

Never miss a critical step
## Preparing to Run in the Hole

<table>
<thead>
<tr>
<th>Action</th>
<th>Data Set</th>
<th>Visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Define job to be done, with safety and productivity expectations</td>
<td>Work plan, procedures</td>
<td>O, DCM, DCO</td>
</tr>
<tr>
<td>Crew assigned to job, with capabilities (DR, AD, TP, FH, DH)</td>
<td>Workforce</td>
<td>O, DCM, DCO</td>
</tr>
<tr>
<td>Job preparations: trip sheet, pipe tallies, equipment checks, equipment setpoints, set alarms, etc.</td>
<td>Equipment, workforce, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td>Safety procedures: Haz-IDs, Toolbox talk, safety barrier check</td>
<td>Equipment, workforce, procedures</td>
<td>O, DCM, DCO</td>
</tr>
</tbody>
</table>
### Running in the Hole with Event

<table>
<thead>
<tr>
<th>Action</th>
<th>Data Set</th>
<th>Visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start RIH procedure</td>
<td>Workforce, procedures</td>
<td>DCM. DCO</td>
</tr>
<tr>
<td>Pick up stand and make up to torque</td>
<td>Equipment, workforce, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td>Check casing pressure before opening blind rams</td>
<td>Equipment, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td><strong>EVENT: Positive Casing Pressure</strong></td>
<td>Equipment</td>
<td>O, DCM, DCO</td>
</tr>
<tr>
<td>RIH procedure interrupted, casing pressure procedure initiated,</td>
<td>Workforce, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td>procedures distributed to workforce</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Breakout Procedures

<table>
<thead>
<tr>
<th>Action</th>
<th>Data Set</th>
<th>Visibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety barriers maintained, perform diagnosis</td>
<td>Equipment, workforce, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td>Relieve pressure, parameters within acceptable range</td>
<td>Equipment, workforce, procedures</td>
<td>DCM, DCO</td>
</tr>
<tr>
<td>Resume RIH procedure</td>
<td>Workforce, procedures</td>
<td>O, DCM, DCO</td>
</tr>
<tr>
<td>Show productivity variance and why</td>
<td>Equipment, workforce, procedures</td>
<td>O, DCM</td>
</tr>
</tbody>
</table>
Current State

• Progress to Date
  • Rider deployed on 15 drilling rigs and an LNG plant
  • Rider 360 proof of concept complete

• Next Steps
  • Rider 360 testing on simulator in September
  • Looking for contractor and operator for joint pilot project
Going to Market

• MVBs (Most Valuable Benefits)
• Benefit/Cost sharing
• Product and service mix
Thank you!

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