

Vertex BabelFish Interface for Orbit RSS Integration

Get Connected to Your Orbit in Real Time
EVEN FASTER with the Most Reliable
 & Cost-effective System Available!

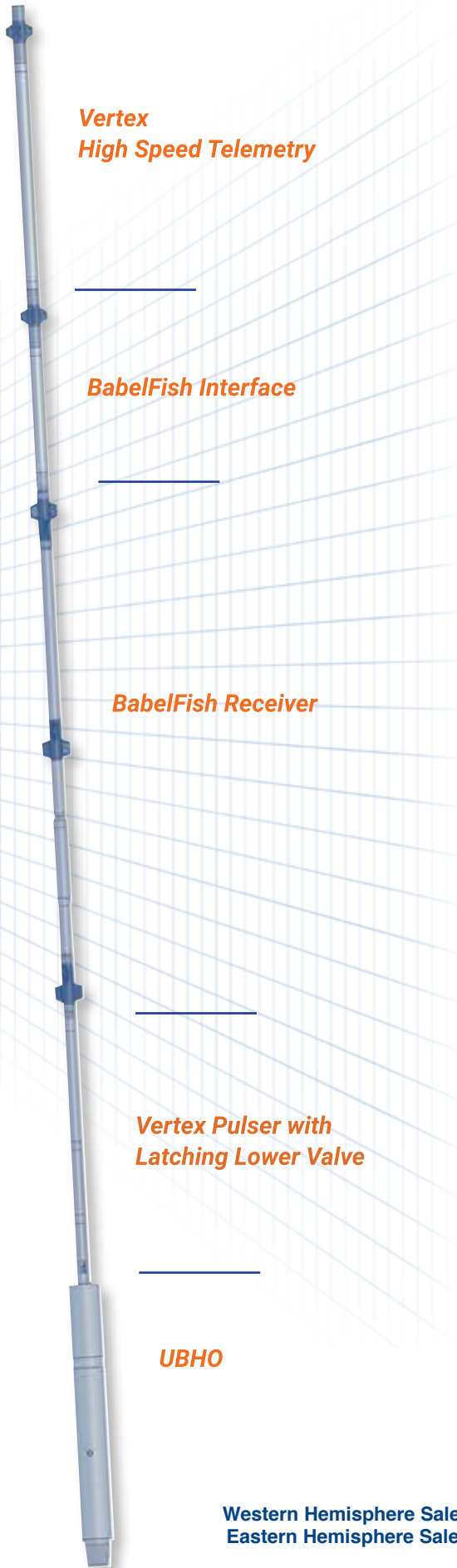


Vertex Downhole Real Time Data Transmission is now available for use with the **Orbit Rotary Steerable Tool!** Vertex's downhole electronics and proprietary surface software enable real time communication from the Orbit RSS tool via the BabelFish wireless link creating the most complete and intuitive system on the market!

Advantages

- Downlink confirmations – never guess if the Orbit tool has received a downlink command.
- Steering information – visualize the Orbit directional measurements and steering status.
- Tool health – with real time data, no more guessing if the RSS tool is operating correctly.
- Formation evaluation – real time access to Orbit LWD measurements.

VERTEX
 DOWNHOLE



**Vertex
High Speed Telemetry**

BabelFish Interface

BabelFish Receiver

**Vertex Pulsar with
Latching Lower Valve**

UBHO

// Vertex fast pulse technology delivers data to the rig floor more reliably and much faster than any competitors, greatly enhancing the Orbit RSS tool experience.

Vertex Downhole System Advantages

- Configurable with bottom mount or top mount pulser.
- Proprietary ultra-high speed telemetry technology utilizes smaller pulses, eliminating the common issue of flow starvation to the Orbit RSS.
- Vertex high speed telemetry provides 4 bits per second data transmission – combining the expanded bandwidth with complete operator selectable telemetry formats, any combination of Orbit RSS and Vertex MWD data points can be transmitted.
- Vertex DownLink capabilities allow access to even more sets of telemetry formats from the surface.
- Usability below the motor – built with the same rugged structure as Vertex Downhole MWD systems with proven reliability below the motor.
- High Frequency Torsional Oscillation is measured and transmitted better than any other downhole system on the market.
- Operating specs of 175°C, 1,000g and 30g RMS for shock and vibration, 20k psi pressure.

Vertex Downhole can integrate with any Rotary Steerable System and/or any LWD system either commercially available, or in development. When you use Vertex Downhole MWD as your base system, you get the highest speed telemetry available with the most rugged, reliable, and lowest cost of ownership equipment, as well as a system that can EXPAND WITH YOU when you need to use more advanced logging tools in the future. With Vertex Downhole, there are no limitations!

**Vertex BabelFish Interface—
Connecting you to your Orbit in Real Time!**

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