

ACTive PS

CT real-time production logging service

APPLICATIONS

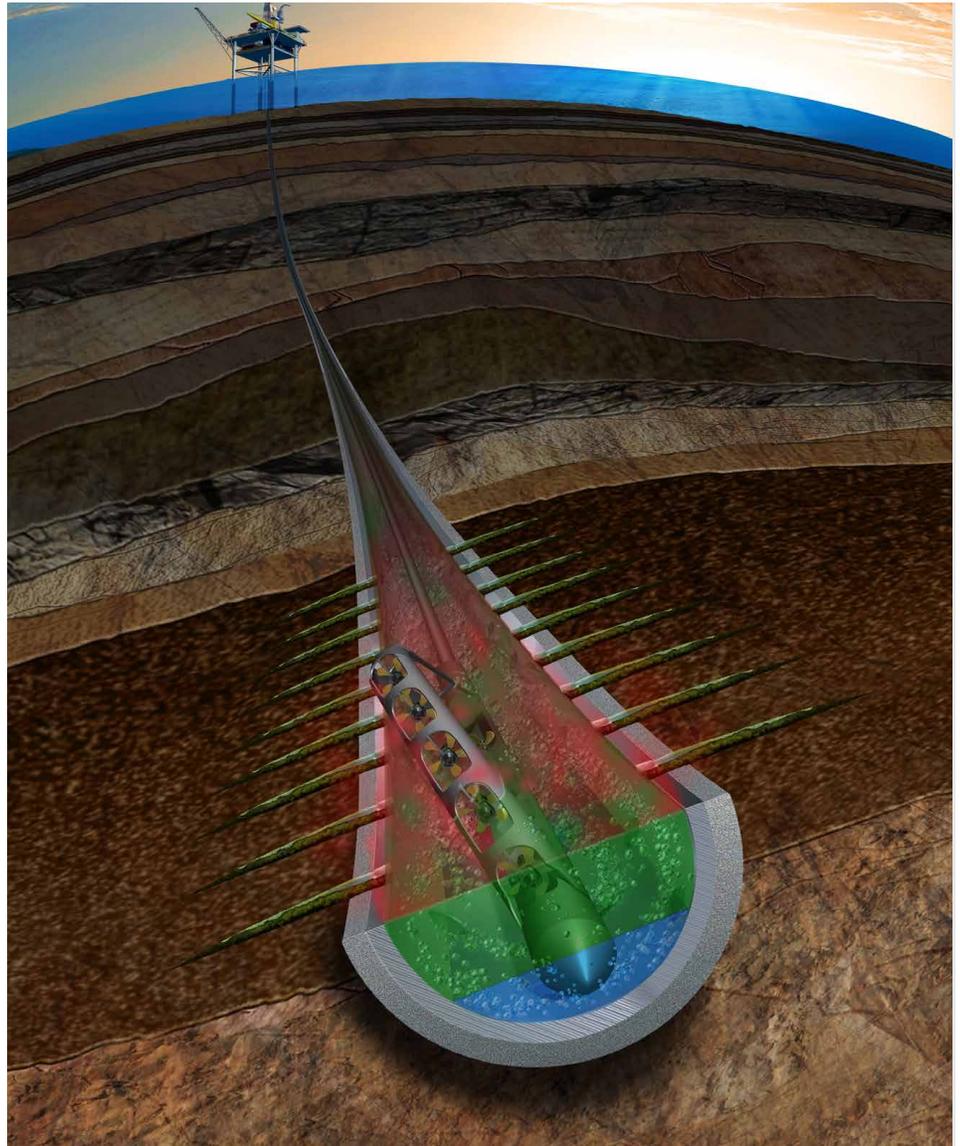
- Coiled tubing operations
- Wireline production logging operations using PS Platform* production services platform, Flow Scanner* horizontal and deviated well production logging system, and RSTPro* reservoir saturation tool
- Well stimulation
- Onsite evaluation

BENEFITS

- More operational efficiency
- Enhanced production
- Less environmental impact

FEATURES

- Real-time fiber-optic telemetry
- Wireless data conveyance
- Self-contained technology
- Faster, higher-quality data
- Real-time data evaluation
- Simplified logistics



The fiber optic-enabled CT string communicates with the production logging tools while power is provided by the BHA. The self-contained technology sends data wirelessly, eliminating a surface logging unit on location.

Optimal well intervention

As part of ACTive Profiling* CT real-time production logging and distributed temperature sensing services, the ACTive PS* CT real-time production logging service couples real-time fiber-optic telemetry with existing advanced wireline production logging tools. In just one trip to the wellsite, this combination enables the highest-quality onsite evaluation, well stimulation

treatment design, real-time treatment diagnostics, and well production optimization.

Production logging can be acquired in real time, so reservoir and production measurements can be interpreted for subsequent interventions—where they matter most.

ACTive PS

Less equipment, improved logistics

Traditional production logging operations require a logging cable-equipped CT string and a standard logging unit, which typically accounts for an additional conventional CT reel for intervention operations before and after the logging is performed.

ACTive services use a fiber optic-enabled CT string for telemetry, enabling any kind of workover intervention to be performed. The BHA of the ACTive PS service powers and communicates with conventional production logging tools. Data is sent wirelessly from the working reel to the acquisition and interpretation computer on the surface, so no surface logging unit is needed on location. Because the technology is entirely self-contained, only the ACTive PS service BHA and a production logging engineer are required on location with the CT unit.

Mobilizing this reduced amount of equipment happens only once, so logistics time and costs are saved. Operations are made safer because fewer crew members are required, and the environmental footprint is minimized with the elimination of the wireline logging unit and the second logging cable-equipped CT string.

High-quality data for reliable well profiling

Memory production logging operations are often inconclusive because of low log quality due to the inability to gather sufficient data across critical intervals. With ACTive PS service technology, however, distributed temperature measurements are captured in real time and are synergistically combined with the already robust production logging data to get the most accurate picture of the well production profile. This real-time functionality helps avoid misruns, lost data, depth inaccuracy, controlled passes, and slickline limitations.

More data from the reservoir is easily attained and can be used to monitor or update well performance information. This data can also be used with other ACTive* real-time downhole coiled tubing services to customize detailed treatment plans (e.g., identifying water-producing intervals or intervals of lower or higher production that require more acid or diversion fluid injection).

ACTive PS Service Specifications

Surface (optical acquisition module mounted inside the CT reel)	
Temperature rating	-13 to 131 degF [-25 to 55 degC]
Power requirement	12 V DC
Data communication	Wireless
Downhole	
Total tool length	12.5 ft [3.81 m] [†]
Outside diameter	1 ¹¹ / ₁₆ in [4.3 cm]
Pressure rating	15,000 psi [103.4 MPa]
Temperature rating	-13 to 300 degF [-25 to 149 degC]
Operating time	At least 36 hours of logging time [‡]
Flow rate at CT head ports	1 bbl/min [120 m ³ /min]
Material	NACE compliant
Compatible logging tools	Any battery-operated PS Platform service, Flow Scanner system, or RSTPro tool

[†] An additional 18 ft [5.5 m] are added to the tool length with the three-battery extended power module, and an additional 30 ft [9.1 m] are added to the tool with the six-battery extended power module.

[‡] Over 100 hours of additional operating time are added for the Flow Scanner system, or 26 hours of running the RSTPro tool with the extended power module.



ACTive PS service tool maintenance in the field.

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Schlumberger