

Extend Production Life through Real-Time, Reservoir-Data Management

The Weatherford Mature Asset Rejuvenation by Surveillance (MARS) System is the energy industry's most advanced thru-tubing intervention and reservoir-intelligence system. Unified sensors provide distributed-acoustic (DAS), distributed-temperature (DTS) and optical pressure-and-temperature (P/T) data-feeds including non-nuclear, multiphase-flow metering—all in real time. MARS delivers a cost-effective imagery solution that spans the entire length of any well to enable mature-well reservoir enhancement. Field-proven flexibility creates an all-in-one reservoir-surveillance system that enables continuous, actionable well data for critical management and decision-making.

MARS reduces production costs in live wells with precision fluid placements that maximize performance at production intakes throughout the entire reservoir. Data-visualization software then delivers insights through its localized dashboard for live remote access and transmissions via cloud-based iOS/Android applications.











STREAMLINED DEPLOYMENT FLEXIBILITY

INSTANT INSIGHT TO EXTEND THE LIFE OF THE ASSET



Integrated DAS, DTS, and PT sensors provide continuous, high-resolution data in real time for optimized production and proactive reservoir management. Instantly identify fluids in the full range of water cut and gas-void fraction (GVF) with the near-infrared (NIR) sensitivity of the multiphase flowmeter (MPFM). Non-intrusive, venturi-affect sonar accurately measures oil and gas and gasliquid ratios without interruption from flow regimes or slugging by sensing turbulent fluid movement between sensors.

ENHANCED REMEDIAL INTERVENTION

Proactive intervention starts with immediate well data. Non-nuclear flow measurements provide ultra-precise multiphase support that eliminates dedicated separator equipment and frequent human intervention, reducing operating expenses by up to 70%. Identify cased-hole integrity and performance with target detection to improve communication for hydraulic fracturing and interpret data for quick analysis and decision making with advanced wellsite visualization.

STREAMLINED DEPLOYMENT FLEXIBILITY

High-endurance fiberline installation enables a rigless intervention for advanced monitoring in deep, geothermal wells while offering low upfront cost and eliminating the CAPEX requirements. Modular and mobile deployment capabilities along with a single fiberline conveyance simplifies and streamlines operations for even the most challenging wells, minimizing HSE risk and redzone exposure and improving carbon footprint.



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