

Holistic insights to prioritize interventions and rejuvenate your assets

Aging wells often experience production declines due to a range of hidden issues. Diagnosing these problems with conventional methods can be costly and time-consuming.

What if you didn't need a rig to pinpoint problems, fix them fast, and restore production?

The MARS™ Mature Asset Rejuvenation by Surveillance system combines advanced diagnostics and rigless intervention to ensure minimal downtime and cost-effective solutions to maximize your return on investment and ensure sustained revenue growth.



ADVANCED DIAGNOSTICS

Continuous data capture ensures no issue is overlooked



RIGLESS INTERVENTION

Address issues and minimize disruption without a full rig deployment



IMPROVED RETURN ON INVESTMENT

Data-driven decision-making reduces guesswork and extends the productive life of mature assets

ADVANCED DIAGNOSTICS

Distributed acoustic sensing (DAS) and distributed temperature sensing (DTS) convert fiber-optic cables into continuous sensing arrays along the wellbore, collecting high-resolution data in real time to monitor temperature, acoustic signals, and pressure throughout the entire length of the well.

The MARS system delivers a comprehensive understanding of well dynamics, zeroing in on problem areas and detecting issues before they escalate including:

Casing integrity problems – Detecting leaks and structural failures.

Water or gas breakthrough – Identifying zones where unwanted water or gas is entering the production stream.

Crossflow between zones – Pinpointing fluid migration between reservoir layers.

Blockages and scaling – Locating obstructions that reduce production efficiency.

Sand production – Detecting early signs of sand intrusion to prevent damage.

RIGLESS INTERVENTION

After the MARS system confirms and refines the well diagnosis with greater precision, you can prioritize interventions and address the most impactful issues first. With the system's higher precision targeting, you can reduce operational expenses by addressing problems guickly and accurately.

Rigless intervention strategies:

Capillary tubing for chemical injection and pressure monitoring – Best suited for addressing continuous well conditioning, scale inhibition, and localized pressure buildup issues. This method allows for targeted chemical treatments and pressure control without requiring a full rig mobilization.

Slickline – A lightweight, cost-effective method for quick diagnostic tools or deploying simple mechanical interventions such as setting plugs, retrieving valves, or deploying gauges. Ideal for wells with minor obstructions or valve malfunctions.

Coiled tubing – Offers greater flexibility and control for more complex operations, such as wellbore cleanouts, acid stimulation, or deploying advanced tools like perforating guns, milling systems, and logging tools. It is the preferred method for addressing severe blockages, high-angle wells, and multi-zone interventions.

IMPROVED RETURN ON INVESTMENT

By integrating distributed sensing technology with rigless intervention, the MARS system delivers faster and more cost-effective diagnostics compared to traditional rigbased methods.

Here's how it improves ROI:

Reduced diagnostic time – Faster identification of issues minimizes production downtime

Lower intervention costs – Rigless solutions eliminate the need for expensive rig mobilization

Increased recovery and extended well life –
Targeted interventions restore and sustain production

Optimized resource allocation – Avoid unnecessary interventions and focus your budget where it matters most

Continuous monitoring – Enable predictive maintenance and reduce future disruptions for sustained revenue growth

Learn how the MARS Mature Asset Rejuvenation by Surveillance System finds your well challenges, fixes them without a full rig deployment, and extend the productive life of your asset.

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