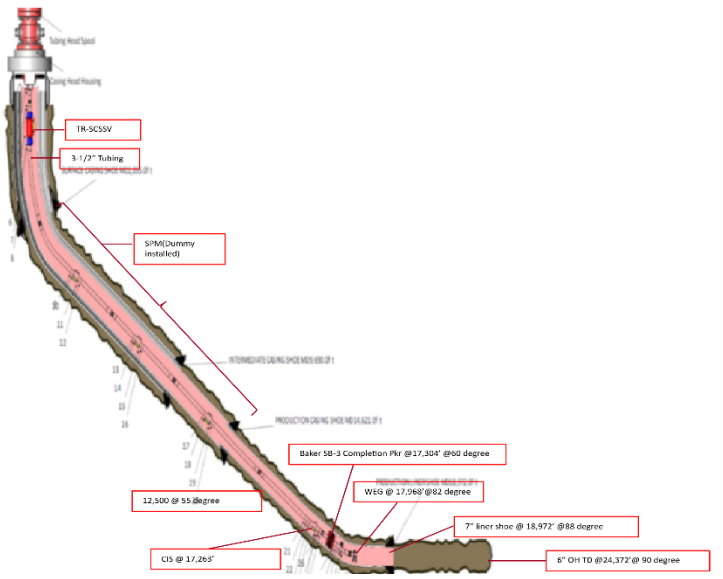
Integrated Rigless Approach Revives Inactive Well Without Costly Workover Operation, Sets New Benchmark for Well Restoration



The well profile/diagram as part of the Weatherford Integrated Services and Projects, a solution that streamlines operations from conception to completion and executes the right services with a comprehensive portfolio of technologies.

Objectives

- Eliminate sustained annulus pressure (SAP) in the A-annulus.
- Restore well integrity through a rigless intervention.
- Safely return the well to production.

Our Approach

- Weatherford delivered a fully integrated rigless solution under its Integrated Services and Projects (ISP) model, acting as the single point of accountability. The ISP model enabled seamless collaboration across internal product lines (Intervention and Evaluation Services, wireline, well services, and pressure pumping services) and selected third-party providers.
- The solution involved a carefully engineered intervention strategy to restore well integrity without deploying a rig. Rigless methods included precision diagnostics and mechanical intervention using coiled tubing and wireline-conveyed tools.
- In parallel, historical production data was thoroughly reviewed to assess the well's performance trends and estimate its production potential post-intervention. This ensured the approach was both technically sound and commercially justifiable.

LOCATION
Middle East

WELL TYPE
Oil producer

CASING SIZE
- 30-in. conductor casing
- 18 5/8-in. surface casing
- 13 3/8-in. intermediate casing
- 9 5/8-in. production casing

LINER SIZE
- 7-in. production liner (with 6-in. openhole section)

TEMPERATURE
275°F at 17,335 ft (135°C at 5,283 m)

PRESSURE
4,937 psi (34.0 MPa)

DEPTH
22,400 ft (6,827 m)

PRODUCTS/SERVICES
- Integrated services and projects
- Interpretation and evaluation services
- Pressure pumping services
- Well services group

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Value to Customer

- **Single Point Accountability** – All technical planning, execution, and post-job evaluation were managed by Weatherford, reducing the operator's coordination efforts and ensuring seamless communication and faster decision-making.
- **Reduced Cost and Time** – By avoiding rig mobilization and utilizing rigless services such as coil tubing, wireline, and pressure pumping, the project significantly lowered intervention costs and shortened the time to restore production.
- **Optimized Engineering Design** – The Weatherford team conducted a detailed review of the well's history and integrity failure modes. This allowed for a fit-for-purpose engineering design tailored specifically to restore the well's integrity and predict post-intervention production potential.
- **Multidisciplinary Collaboration** – The various Weatherford product lines (pressure pumping, well services, wireline, IES, ISP) worked in unison, eliminating service silos and delivering a unified operational strategy, ensuring higher job efficiency and minimized operational risks.
- **Successful Outcome** – The integrated rigless intervention successfully restored the well's integrity and brought it back online, achieving a stable production rate of 500 barrels of oil per day, converting a long-term inactive asset into a valuable producing well.
- **Strategic Alignment** - This approach not only restored production from a shut-in well but also showcased the value of integrated, rigless solutions as a cost-effective and operationally efficient alternative for complex well restoration, aligning perfectly with the operator's goals of maximizing asset utilization while optimizing field economics.
- **Extended Production** – As part of the operator's inactive string project, Weatherford achieved all performance targets under a bonus-malus contract, securing 100% of the contracted bonus. The well delivered rapid payback in 33 days and continues flowing beyond 225 days, validating the effectiveness of the integrated rigless intervention and predictive engineering approach.

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