

AutoCLAMP™ System and RCS-500 Completion Slips Prevent Control Line Damage, Enhance Rig Safety, and Eliminate NPT in Ultradeepwater Well

Objectives

- Propose and integrate a safe, reliable, and efficient solution that meets the ultradeepwater technical requirements for drillstring test and completion jobs.
- Mitigate the risks of control line damage while running multiple lines.
- Reduce overall operation time by eliminating the need to remove rotary completion slips when handling accessories of varying ODs.
- With zero health, safety and environmental incidents, increase overall efficiency and eliminate nonproductive time (NPT) that the client had experienced with past contractors.

Our Approach

- Weatherford proposed a custom package of technologies consisting of the AutoCLAMP system and RCS-500 completion slips for safe and efficient handling of 0.5, 1, and 2.5-in. control lines while running 4-in tubular. The semi-mechanized equipment featured remote control capabilities and redundant protection systems for enhanced safety.
- Weatherford designed a job-specific roller enabling the AutoCLAMP system to manage several control lines of different diameters simultaneously, which simplified installation of the control line clamps and protected the lines while running in hole.
- The interlocked control-line-isolating door on the Weatherford RCS-500 completion slips protected the control lines from damage.
- The flush-mounted design and large setback of the RCS-500 completion slips reduced stump heights and eliminated the need both to remove the slips from the rotary table and to work with an open rotary, which has associated risks.

Value to Client

- The AutoCLAMP system enabled hands-free operations, which removed personnel from hazardous areas on the rig floor for enhanced safety and efficiency.
- The use of the mechanized equipment reduced personnel fatigue for more consistent operations and increased overall efficiency.
- Deployment of the RCS-500 completion slips eliminated the need for sliding plates, spider, and the associated risks of working with an open rotary.
- The risk of control line damage was mitigated by means of the unique interlocked protection door embedded in the RCS-500 completion slips.



In conjunction with the RCS-500 completion slips, the AutoCLAMP system remotely guides the control line as tubing is run in hole, protects the control lines, and facilitates clamp installation.

LOCATION

Offshore, Mexico

WELL TYPE

Ultradeepwater, vertical

HOLE SIZE AND ANGLE

8 ½-in.

LINER TYPE AND SIZE

7-in. TAC-140, 35 lb/ft, VAM-SLIJ-II
DS 4-in. TRC-95, 22.5 lb/ft, TSH 533

DEPTH

14,268 ft (4,349 m)

PRODUCTS/SERVICES

- AutoCLAMP system
- RCS-500 completion slips
- JAMPro™ torque monitoring system

