

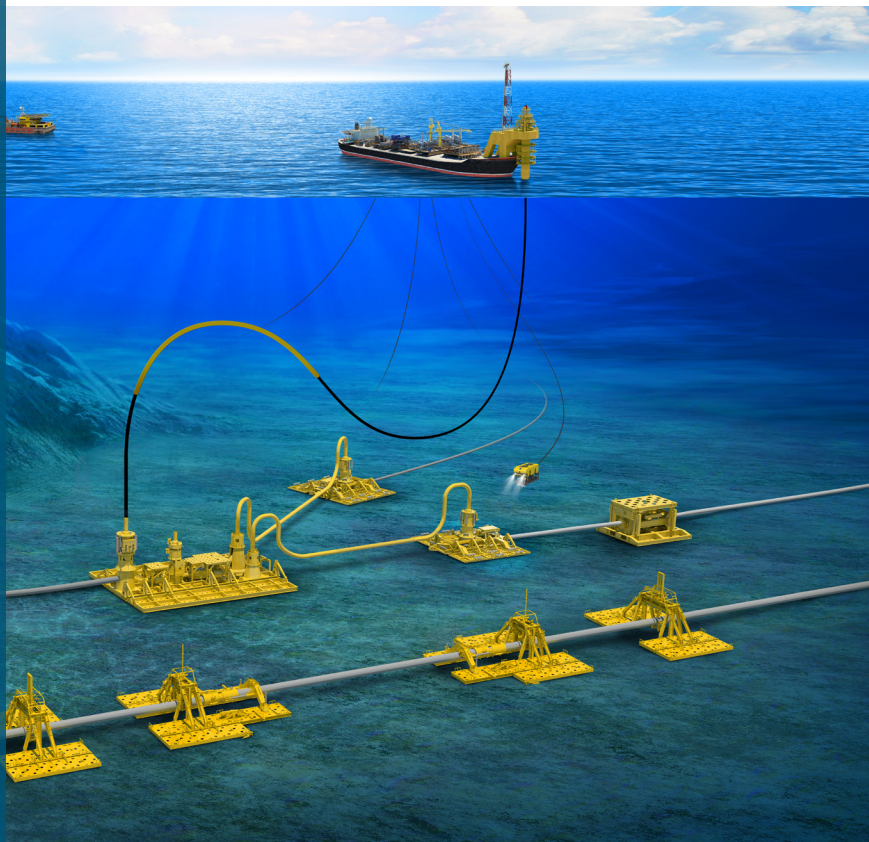


CASE STUDY

Pipeline Repair: Deepwater Intervention

Proven intervention techniques reach new depths; shaving months off "First Oil"

Pipeline intervention techniques use hot tapping at a depth of 4300-ft. to bring new product to market while saving the client money, time and resources



CLIENT	Major Global Energy Co.
COUNTRY	US
LOCATION	GoM
FIELD	Green Canyon
VESSEL	Island Performer
DATE	March 2021
SCOPE	Deepwater Intervention

CHALLENGE

A globally integrated energy company lost communication to the pipeline bore of a Pipeline End Termination (PLET) via the ROV interface panel. A non-operable pressure cap, due to a pressure lock, ultimately needed to be replaced. However, communication had to be re-established, the line cleared and the old pressure cap removed to prepare for a new pressure cap and jumper. The operation took place at a water depth of 4300-ft via ROV, while the legacy line (10+ years) remained isolated and under operation.

The project required a cohesive effort by over a half dozen companies, new to old product integration, a high degree of technical competence for subsea execution while ensuring safety, environmental preservation and client realized value for success.

SOLUTION

Oil States was engaged to:

1. Provide a system that would drill through the bore of the existing pressure cap to establish communication;
2. Assist in the remediation of any gas, hydrates, or fluids to clear the bore;
3. Remove the legacy pressure cap;
4. Install a new 24" pressure cap in preparation for a new jumper;
5. Prove out the products, systems, and procedures onshore to the satisfaction of the client;
6. Provide technical assistance for project execution while subsea; and
7. Ensure safety and environmental preservation.

More information available at:

oilstates.com | deepwater.pipeline@oilstates.com



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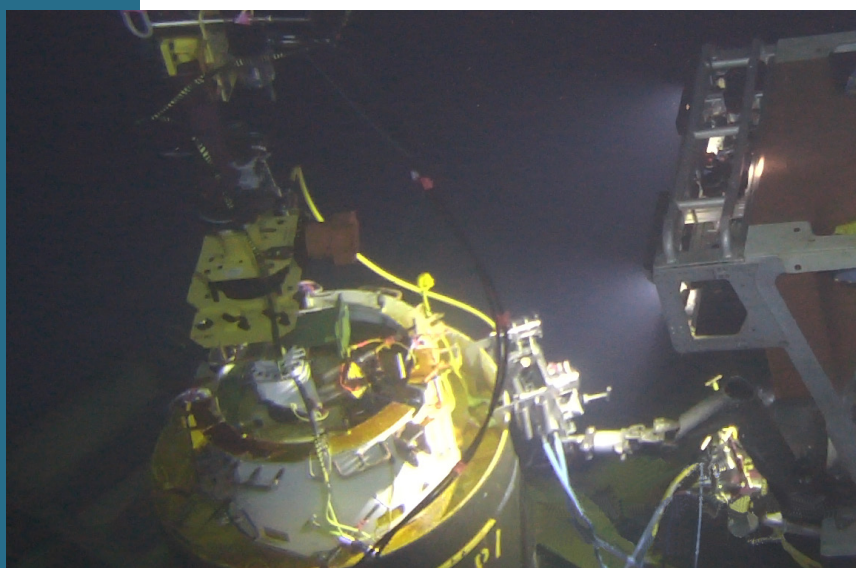
RESULTS

By building multiple tooling design iterations, this allowed the team to identify and address potential issues early and provide maximum offshore effectiveness. Rapid turnaround kept the land-based FAT's moving forward. The team spent over 150 hours in the ROV tank mastering techniques, including drilling tactics, ROV movements, and procedures to ensure all products, systems, and processes performed as designed and the most efficient method of use when subsea. The team demonstrated a solid dedication to technical excellence with continuous seal development for optimum performance, overcoming tooling issues in the field, including a snapped drill bit in-hole, and extra SIT hours spent to correct a metal shaving restriction issue.

Following a rigorous planning, technical evaluation and testing program, the team delivered significant value to the client through the following preparations:

- 4-month planning process
- 15+ discrete FATs / tactical land trials
- 30+ bespoke tooling designs
- 150+ hours of ROV in-water tank testing
- 1,000+ offshore work hours
- 0 hydrocarbons released into the environment
- 0 health or safety incidents
- 1 Project success – “Confirmed”

Deepwater pipeline intervention operations at 4300-ft water depth. The ROV is preparing the old cap for removal and installation of a new Oil States Pressure Cap.



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