



North Sea Case Study: Platform deployed 8" Tethered Isolation Plug Cuts Decommissioning Costs

STATS Group

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Presentation Summary

- ❖ Introduction
- ❖ Isolation Plugs
- ❖ Abandonment Plugs
- ❖ Pre-Mobilisation Testing
- ❖ Offshore Operation and Animation
- ❖ Project Summary



Introduction

Introduction

- ❖ A southern North Sea Platform located approximately 40km east of the Easington Terminal in the Humber Estuary was one of four scheduled for decommissioning
- ❖ The platform received wet gas through a single 8" pipeline tied back to a single well, owned by another Operator, that was no longer viable and had been shut down
- ❖ The challenge was that the platform was due for decommissioning between 2022 and 2025, while the earliest planned decommissioning date for the well was Q3 2026.
- ❖ The pipeline therefore needed to be safely isolated from the well and its associated valves, which were known to be passing.

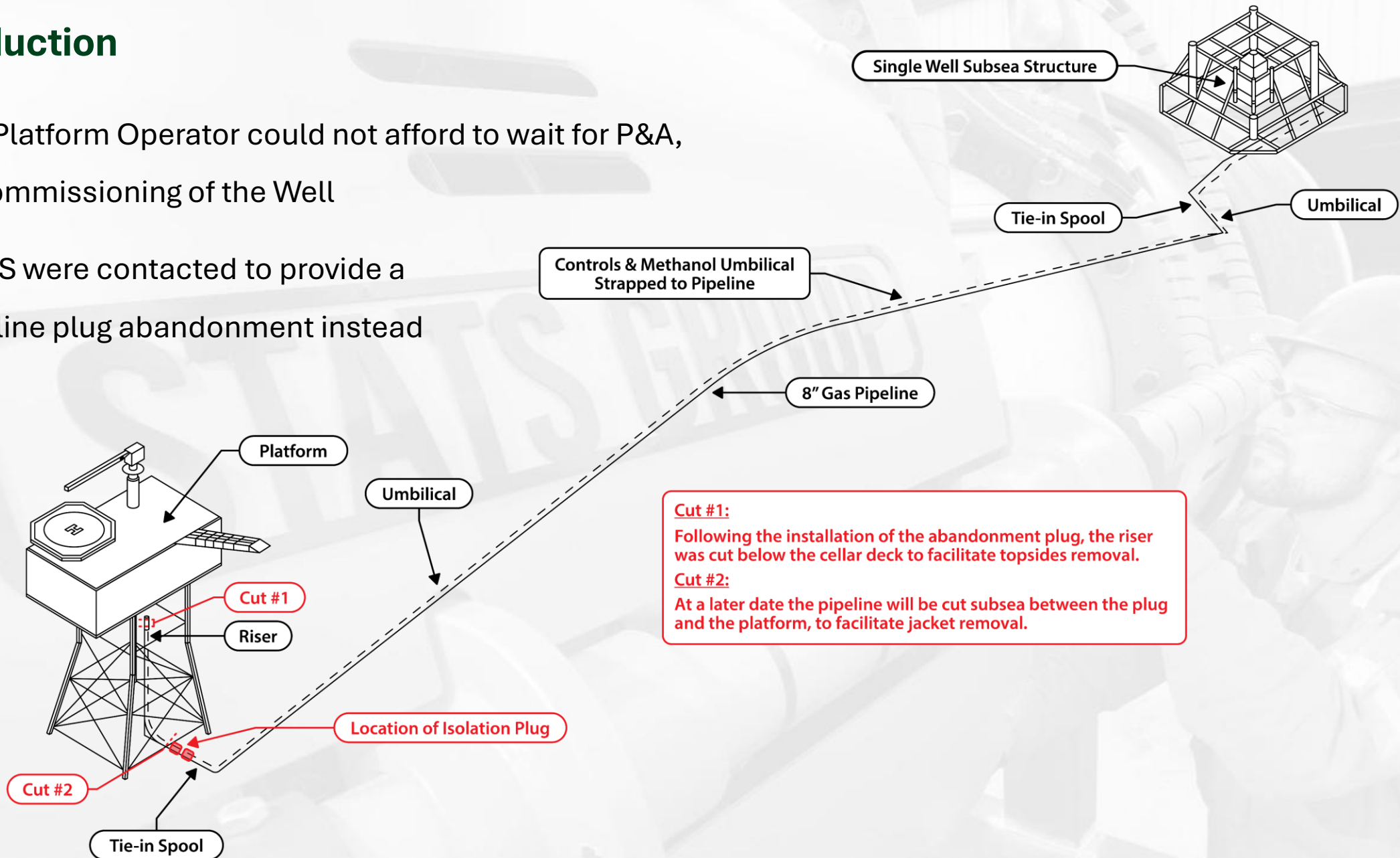


Southern North Sea Platform

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Introduction

- ❖ The Platform Operator could not afford to wait for P&A, decommissioning of the Well
- ❖ STATS were contacted to provide a pipeline plug abandonment instead



A worker in a hard hat and safety gear is working on a large, curved metal structure, possibly a ship's hull, with a green overlay and the text 'Isolation Plugs'.

Isolation Plugs

Isolation Plugs

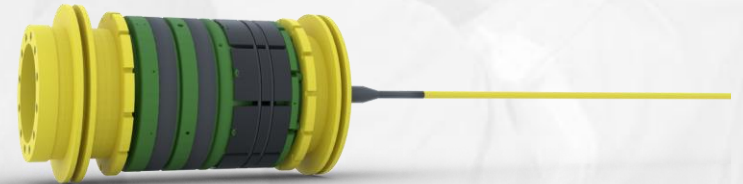
Tool		Size Range	Description	Main Pros	Main Cons
Remote Tecno Plug		10" to 56"	Pigged to the isolation location, plug line.	230 bar rated, range >2000km. 1.5D bend capable. Standard pigging – increased safety	Additional cost vs. tethered plugs.
Tethered Tecno Plug	Stem Bar	2" to 56"	Pushed to the isolation location	Short for tight space applications, cost effective.	Straight deployments only, ca. 15-20m.
	Umbilical	8" to 56"	Pigged (pumped) to the isolation location		Limited bend capability. Umbilical limited to 60 bar. Deployment ca. >100m.



Remote Tecno Plug



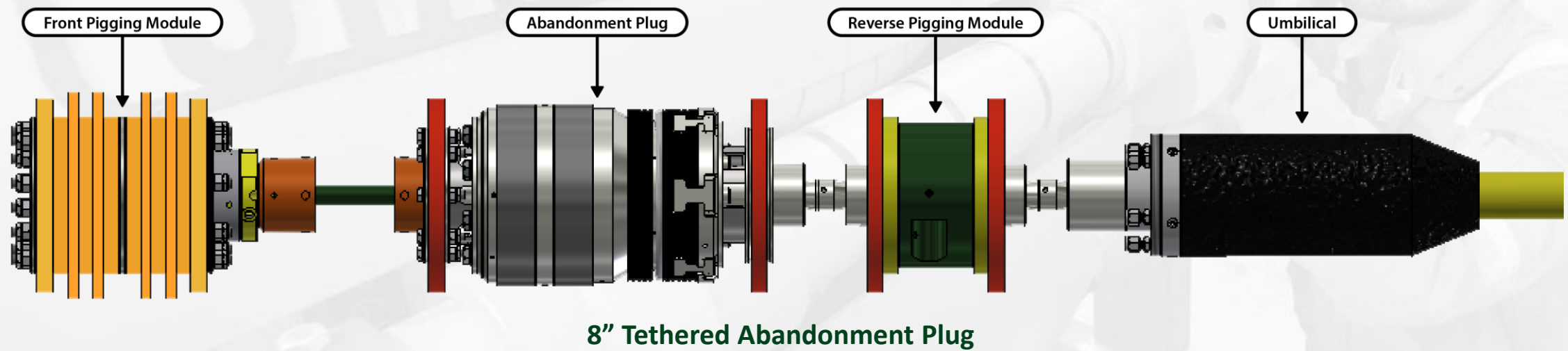
Tethered Tecno Plug (Stem Bar)



Tethered Tecno Plug (Umbilical)

Abandonment Plugs

- ❖ Tethered or Remote Controlled
- ❖ The parameters of this scope (8", low pressure, minimal bends) were perfectly suited for a tethered tool
- ❖ A mechanical lock provides permanent isolation to maintain sealing after hydraulic disconnection





Pre-Mobilisation Testing

Pre-Mobilisation Testing

- ❖ Purpose of the Factory Acceptance Testing was to test the plug to project parameters (as standard) but also to confirm;
 - ❖ Piggability
 - ❖ Differential pressure to drive the plug
 - ❖ Mechanical Recovery was possible using the reeler



Pre-mobilisation, Pigging Factory Acceptance Test

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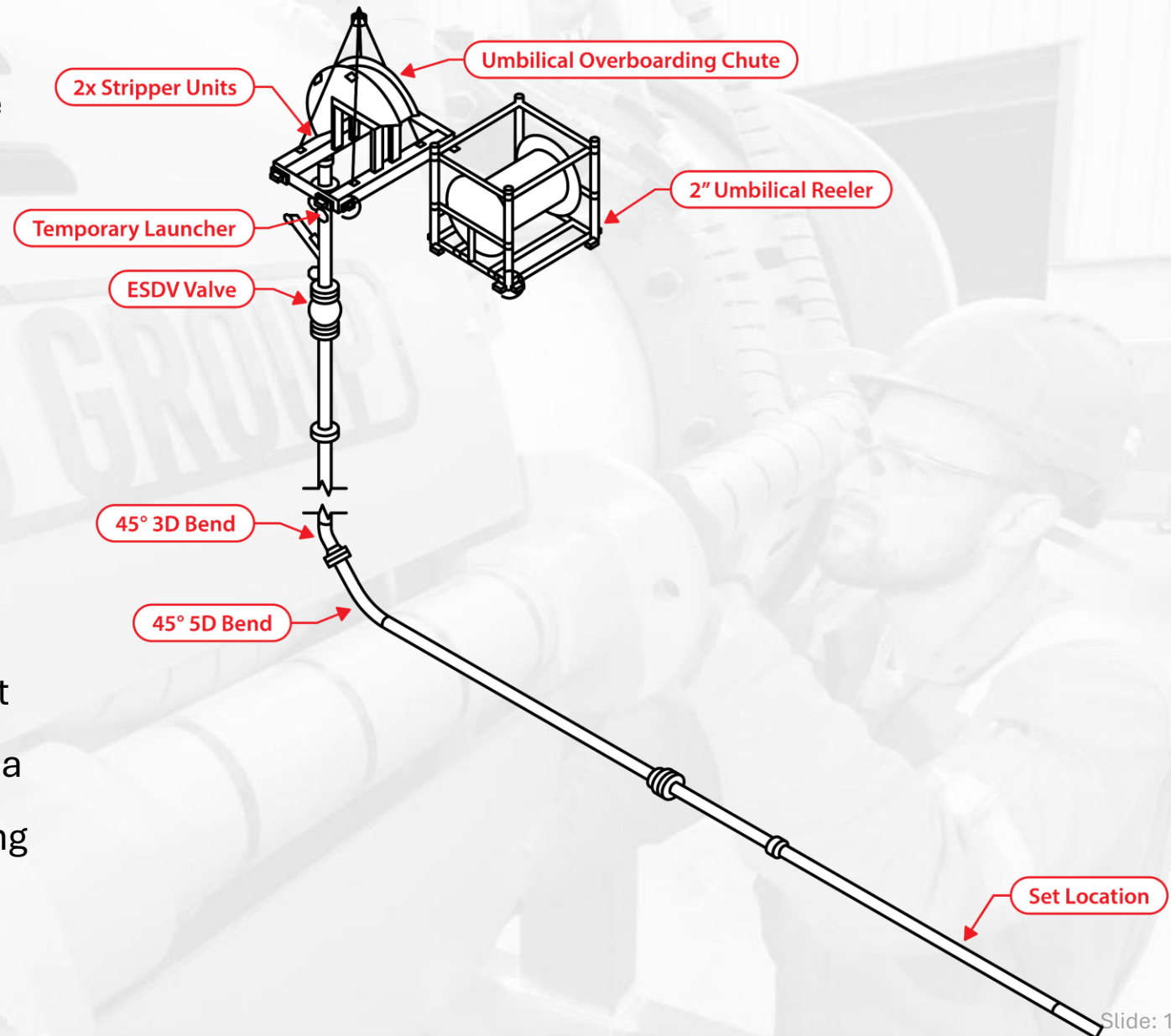


The background of the slide is a photograph of an offshore oil rig. On the left, a worker in a yellow safety suit and helmet is visible, working on a structure. A large, stylized sign with the word "STATS" and "GROUP" is partially visible, running diagonally across the frame. The entire image is overlaid with a semi-transparent green filter. The text "Offshore Operation" is centered in white.

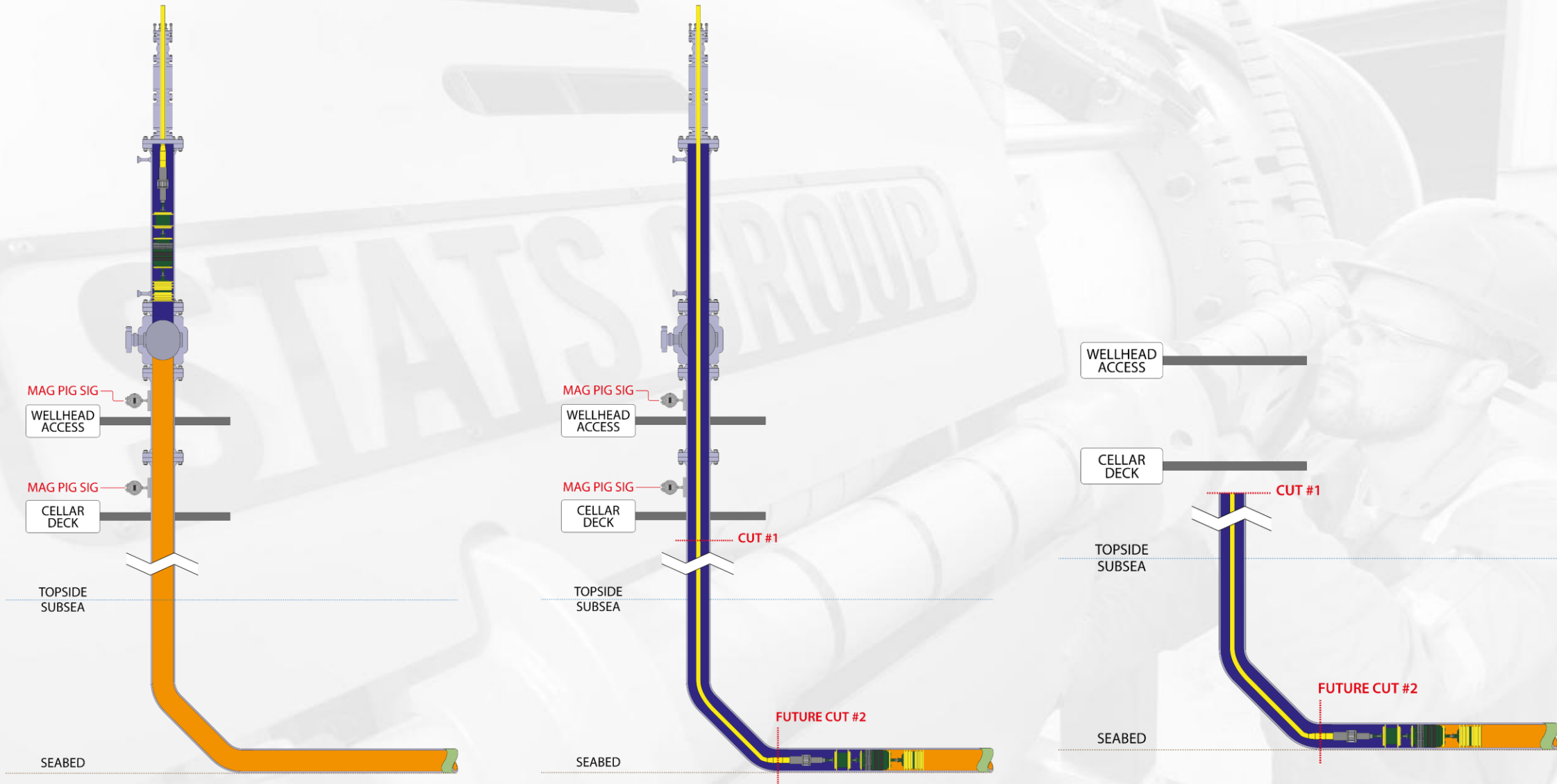
Offshore Operation

Offshore Operation

- ❖ The pipeline was pre flushed 3x pipeline volume prior to STATS arrival offshore
- ❖ Space was tight, but sufficient for the topside spread
- ❖ Third party pigging contractor pumped the plug ~80m to the set location subsea, at ~1m/min, pigging dP 4-5bar
- ❖ The plug was hydraulically and mechanically set from topside via its control umbilical, achieving a leak-tight seal on the first attempt and preventing fugitive well discharges subsea via the pipeline



Offshore Operation



The background image shows a construction worker in a hard hat and safety gear, working on a structure. A large, stylized sign with the words 'STATS GROUP' is visible, partially obscured by a green overlay. The overall scene is industrial and construction-related.

Project Summary

Summary

Abandonment Plug

- ❖ First Deployment of an 8" tethered abandonment isolation plug to a subsea isolation point (~80m)
- ❖ Used a water based hydraulic fluid, rated safe for subsea discharge
- ❖ Verified leak tight dual seal isolation



Project

- ❖ Enabled independent platform and field decommissioning ahead of connected assets
- ❖ Reduced inter-Operator dependency and accelerated removal of non-operational infrastructure
- ❖ Eliminated ongoing maintenance and integrity costs for the idle platform
- ❖ Avoided vessel intervention, lowering overall project cost and complexity
- ❖ Isolation completed September 2022. Topsides removed May 2023. Jacket removal ongoing Q4 2025

**THANK YOU FOR YOUR ATTENTION
ANY QUESTIONS?**

    
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MANAGING PRESSURE, MINIMISING RISK