

Expro Excellence

Enabling safe and efficient Well Abandonment in harsh offshore environments with zero Non-Productive Time (NPT)

Subsea Well Access



Objectives and background

- The customer required a safe and efficient re-entry into five subsea wells to execute a well abandonment campaign under highly challenging conditions

Key challenges included:

- The campaign was executed in the demanding offshore environment north-east of Shetland, where frequent storms, heavy swells, and highly variable seas states presented significant operational challenges.
- Risk of non-productive time (NPT) due to weather-related interruptions and equipment limitations whilst operating from floating Mobile Offshore Drilling Unit (MODU)
- Expro was engaged for this campaign based on its proven track record in delivering well integrity through subsea control barriers and robust disconnect capability, supported by our ability to provide reliable field-proven solutions in extreme offshore environments. This was a trusted, ongoing client relationship, with Expro selected for its technical expertise, equipment reliability, and operational performance



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- During the campaign, the same primary SSTT system was unlatched on five occasions due to adverse weather conditions
- Due to the longevity of the operations, the system completed 1,114 valve functions and accumulated 2,490 operating hours demonstrating exceptional system reliability and operational performance throughout the campaign in a harsh offshore environment

Solution highlights:

- Reliable unlatching capability: Enabled safe disconnection in extreme weather conditions
- High-performance latch mechanism: Delivered repeatable and dependable operations

Overcoming challenges:

- Harsh weather conditions resulted in five SSTT unlatch events during the campaign. Despite this:
 - All unlatch and relatch operations were completed safely and successfully on the first attempt without any issues, demonstrating the system's reliability and resilience in challenging offshore environments
- The system maintained full functionality and integrity throughout the campaign, continuing to perform reliably in extreme offshore conditions even after a significant number of operational valve cycles
- Expro's offshore team ensured seamless execution through expert planning and co-ordination

Value to the client

- Expro delivered an industry-leading subsea safety system and surface tree solution that enabled safe re-entry and efficient well-abandonment operations in extreme offshore conditions. The system achieved zero NPT, demonstrated proven equipment reliability, and delivered consistent first-time operational success
- Exceptional system reliability and operational performance in a harsh offshore environment enabled the client to safely and successfully complete all completion intervention activities required for the well abandonment campaign
- Expro's solution stood out for several key reasons:
 - Proven equipment reliability in harsh conditions
 - First-time successful operations in critical moments
 - Strong integration between the technology and the offshore crew expertise
 - Ability to maintain continuous operations without delays



First class service from the entire Expro Subsea team on the Noble Patriot. Excellent input prior and during operations. Always double-checking line ups and making good challenges. Great work all."

Client

Safety



Quality standard

