



# Helix Decommissioning Support

## 'New Approach to P&A'

SPE Aberdeen Well Late Life & Well  
Abandonment Conference

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Navigating the present, focusing on the future.

# P&A Overview

## Traditional Approach

- Use of MODU & Jack Ups
- Use of 21" Marine Riser
- BOP Stack Use
- One size fits All from simple to complex well abandonments

## Alternate Approach

- Use Of the ROAM
- On a Heavy Well Intervention Vessel
- 8.5/8" HP Riser
- IRS Stack (EDP/LRP/TRT)

**NOTE: Alternate Abandonment approach is tailored to well type and reservoir need (no requirement for over loading equipment spread).**

# New Technology - ROAM

## Functionality

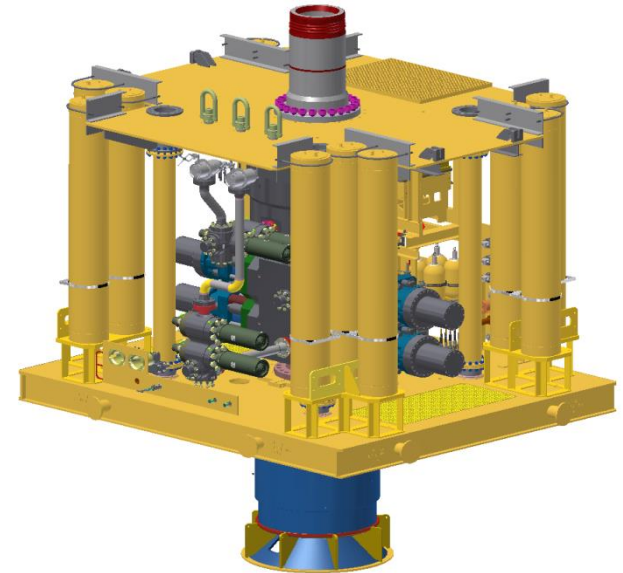
- Normal Operations = Environmental Containment
  - *Annular BOP and circulation lines*
- Pressure Test & In-flow test
- Emergency = Well Isolation
  - *Dual Shear-Seal Rams*
  - *EQD functions*

## Lower overall cost of P&A

- De-risk P&A campaign by using Cost effective HWIV
  - *Enable logging behind casing by pulling Upper Completion open water*
  - *Full Well P&A capabilities by addressing remediation scenario*
- Minimize use of Drilling Rig for P&A

## Layout

- 18-3/4" Re-entry mandrel
- 18-3/4" 10,000psi Annular BOP
- 18-3/4" 10,000psi Double BOP
  - *Shear & Seal rams*
- 18-3/4" H4 connector
- Flow spools with 3" stabs
- 2" circulation lines
- Emergency Disconnect
- OneSubsea Subsea Control Module



# P&A Operational Steps w/ROAM

Well Preparation

## Phase 1 Reservoir (lower) barriers

Bullhead tubing  
Mechanical Plugs  
cement plugs  
on CT/DP

MODU c/w CWOR

Through Bore

LWIV

- Diving
- Well prep (Barriers, injectivity test, drift run)
- Bull heading/ circulation
- Mechanical plugs
- Through tubing cement
- VXT recovery

HWIV + IRS

As per LWI  
+ CT mechanical access  
+ CT cement placement

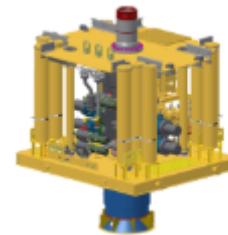
## Phase 2 Intermediate (upper) barriers

Release &  
Recovery  
Tubing retrieval  
Permanent plugs  
Across/ recover  
casings

MODU c/w BOP

Full Bore

- Full bore access
- Deployed in parallel over the side
- Unset and pull TH open water
- Enabler for Intermediate Abandonment



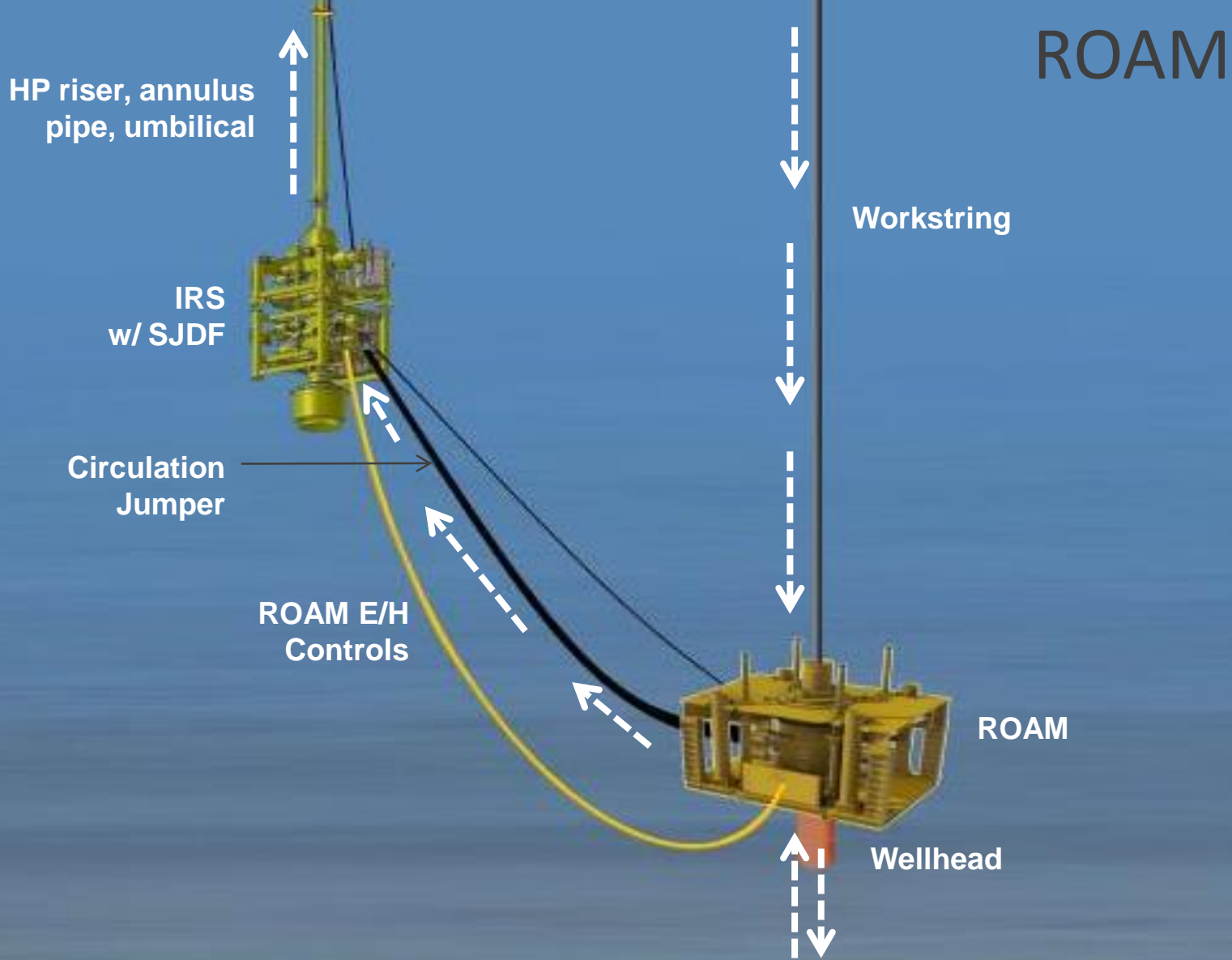
Q7000 + ROAM

## Phase 3 WH removal

Surface Plug  
Conductor removal  
Seabed Clearance

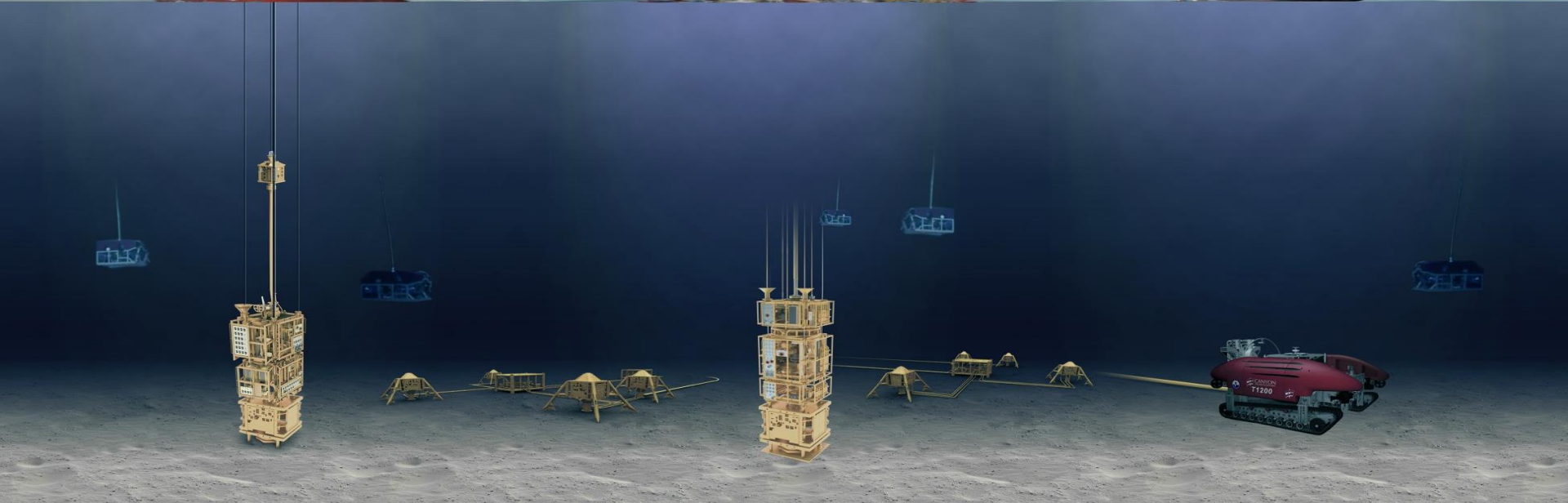
LWIV

Open water Services with specialized tooling  
for cutting  
+ Infrastructure Decommissioning  
+ Seabed Clearance





# Helix Decommissioning Support



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## All Inclusive Service Offering

- We own the assets
  - Including vessels, SIL, IRS, ROV, Trenchers,
- Have relevant experience
  - In house crew not 3<sup>rd</sup> party – many with 20yrs+ experience
  - Includes marine, intervention, diving, ROV
- Single contracting
  - Helix Well Ops ↔ Canyon ↔ One Subsea ↔ Schlumberger
- Contractual flexibility
  - Risk/reward, lump sum, qualified TCE etc.

PM & Engineering | Pipeline Survey | Hot tap | Pipeline flushing | Pipeline recovery | Pipeline trenching | Mattress recovery | Sat diving | Jacket diving | Well work | Facility removal | Structure Cutting | Heavy lifts | Wellhead removals | Seabed clean up | Overtrawl | Clearance certificate



Grand Canyon II





An aerial view of a large offshore oil rig, the Helix, with a red hull and white upper structure. The rig is situated in the open ocean under a blue sky with scattered clouds. A prominent white derrick is visible at the top. The rig's hull is marked with the number '07000' and the name 'MAGSIAM'.

Thank you

07000  
MAGSIAM  
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