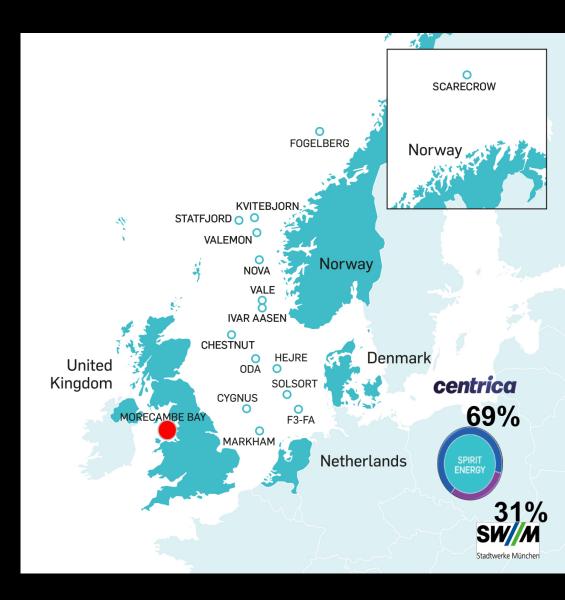
# Morecambe Bay Late-Life Planning and Contracting

Decom North Sea 21st March 2018



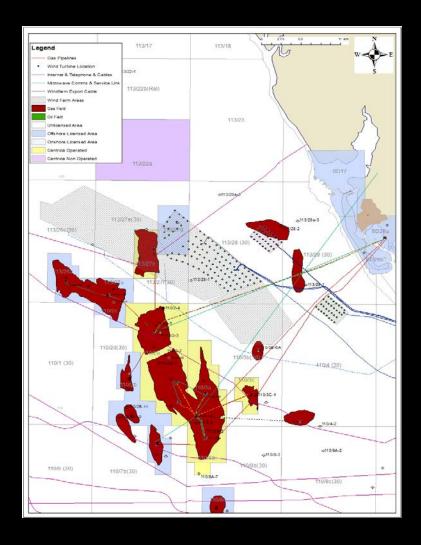
#### **PORTFOLIO OVERVIEW**

- Headquartered in the UK and operations across key NW Europe regions – the UK, Norway, Denmark and the Netherlands – employing more than 700 people
- Producing around 50 million barrels of oil equivalent (mmboe) per year, with 2P reserves of 409 mmboe and 2C resources of more than 200 mmboe
- Interests in 28 producing fields and more than 70 exploration licenses





### Field History



Discovered 1969 by Gulf Oil, Well 110/08-2. Licensed by British Gas and appraisal drilling commenced shortly after.

Planned in the Late 70's – Early 80's as a seasonal supply facility to feed peak winter demand with high production rates.

Installation of facilities commenced 1984.

19 Development Wells drilled 1984 – 1987 from NUIs.

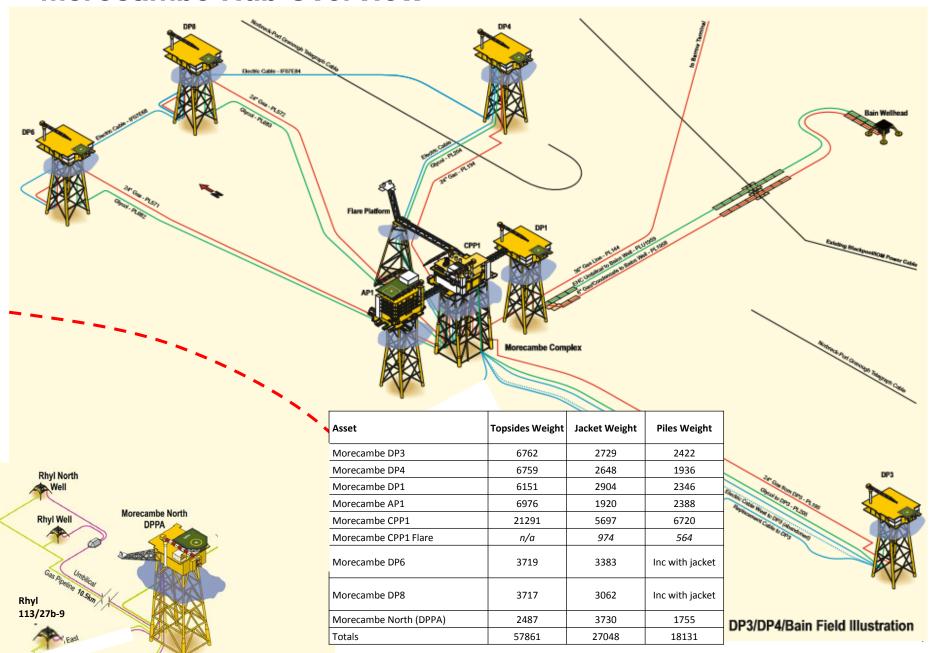
Stage 2 development 1989 – 1991, DP6 and DP8, 14 additional Dev wells.

D6 (1998) on DP4 + H8 (2001) & H9 (2005) on DP8 = Total 36 Dev Wells.





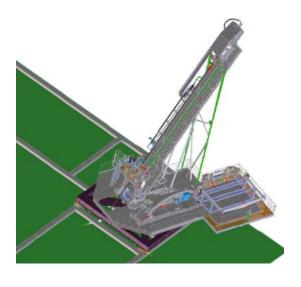
#### **Morecambe Hub Overview**



# **Decommissioning Programme Overview** DP4 **Bains** DP3 Rhyl 113/27b-9 Rhyl 113/27b-9 DP3/DP4/Bain Field Illustra

## PHASE 1 - DSV, Well P&A, Pipeline Flushing, Facilities Decom







Subsea Well P&A Bains

Subesa Well P&A Rhyl 113/27b-9

#### Long Leads:

- Slant Drill Rig
- · Wellhead & Tree tooling
- Navigation-aids
- Shutdown Pigging Spools

#### **DSV** Campaign

Pig and isolate pipelines DP4 & DP3

Pig and isolate pipelines Bains

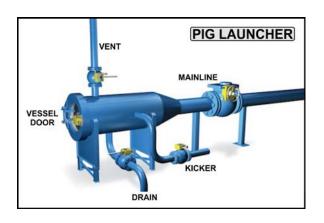
**Decom Service Contractor** 

Decommissioning Safety Cases / Rig COMOPS









### **PHASE 2 - Infrastructure Removal Services**





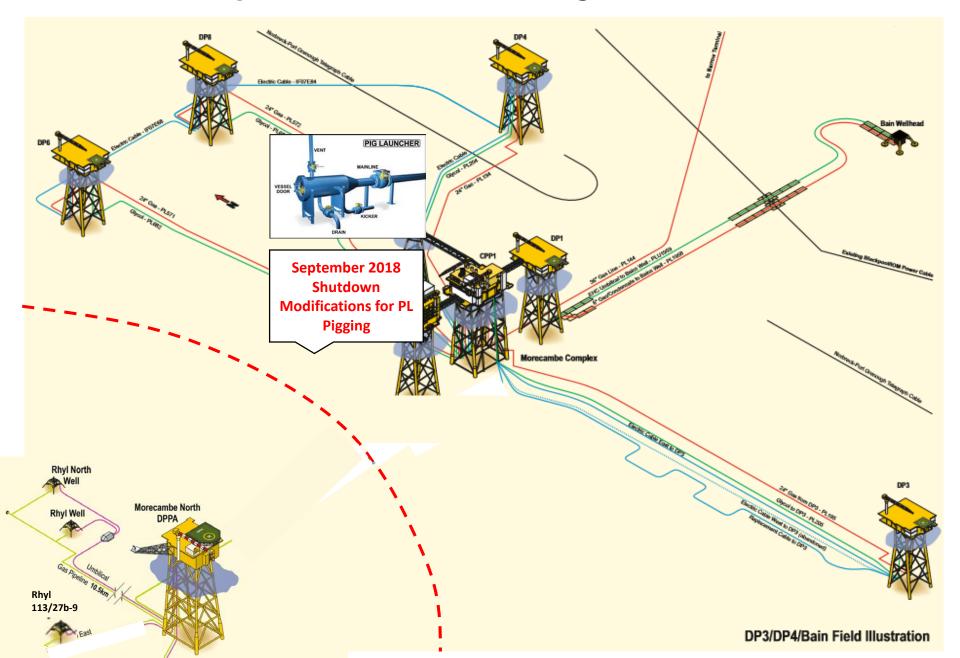




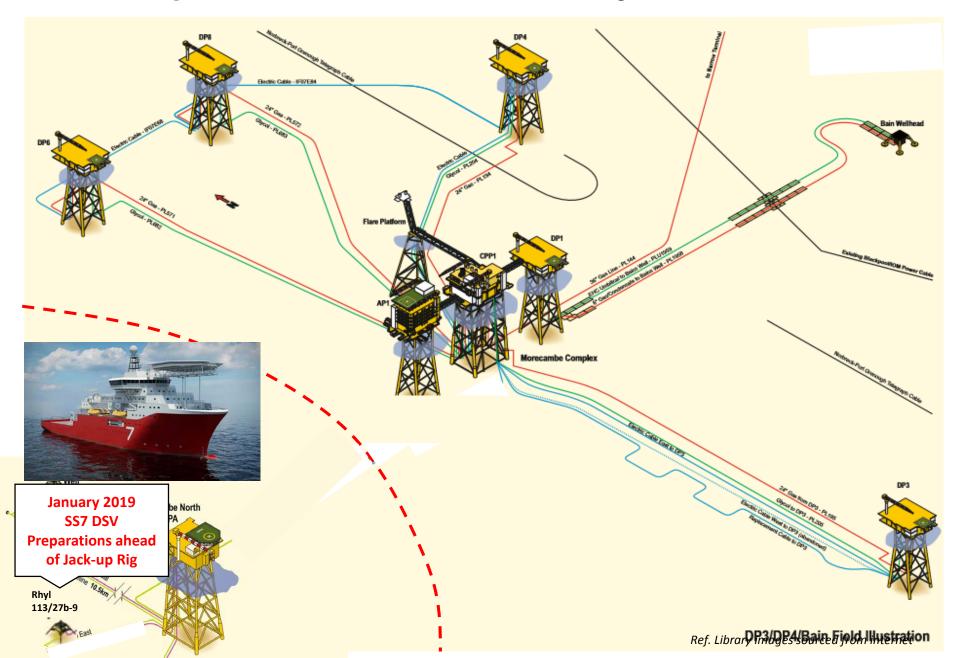


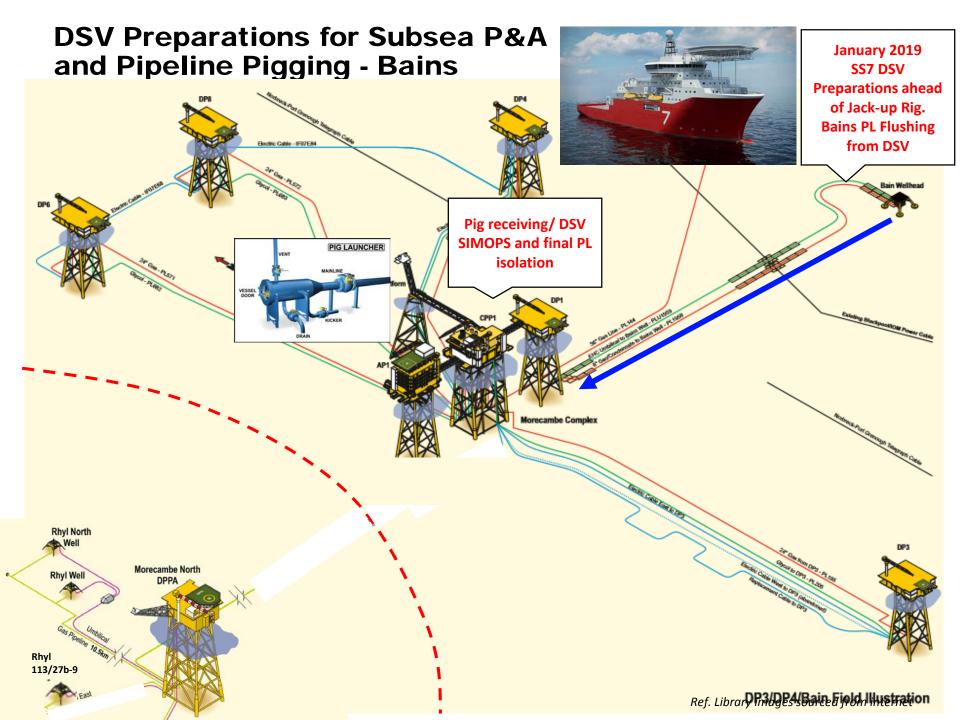


# **Shutdown Pipeline Decommissioning Interface**

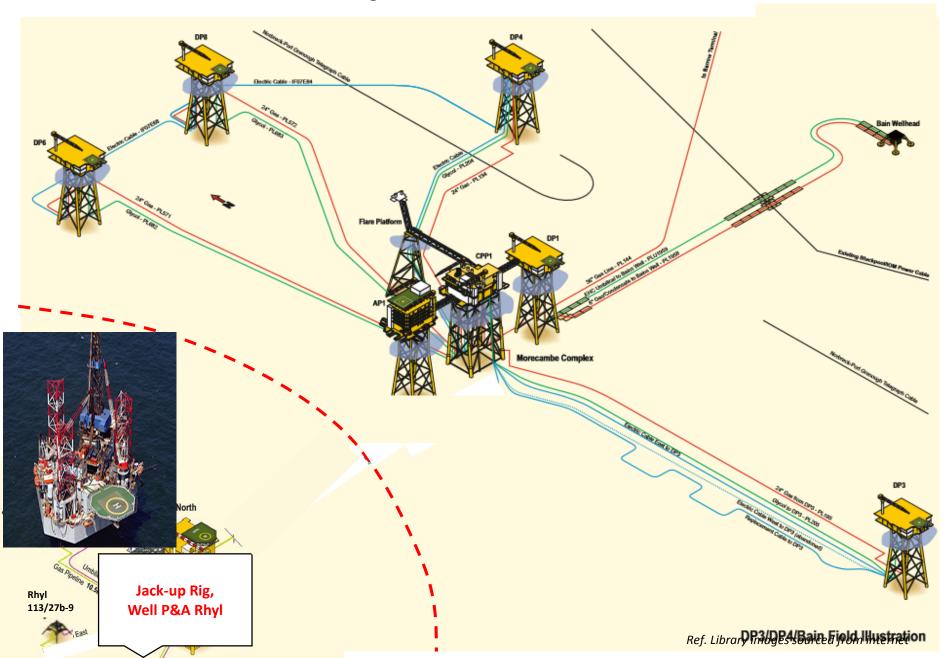


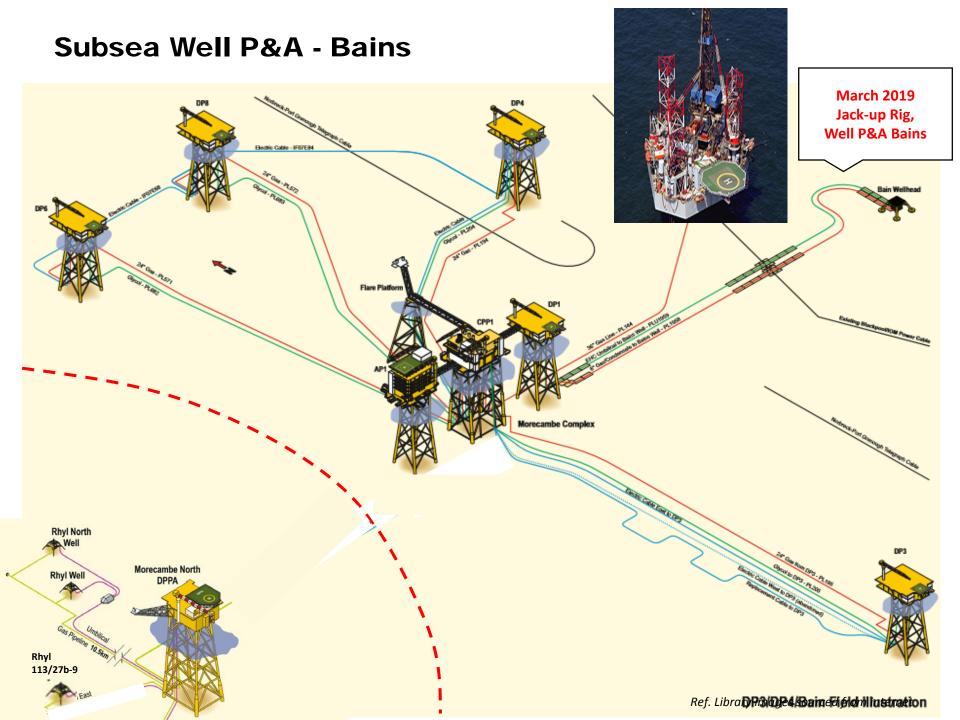
# **DSV Preparations for Subsea P&A - Rhyl 113/27b-9**

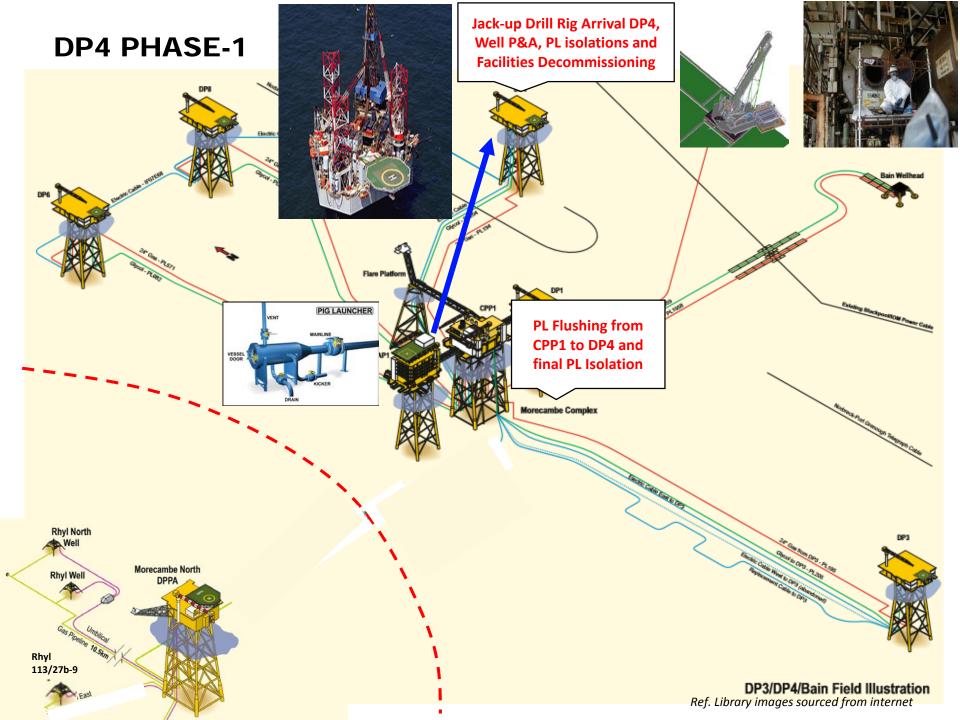


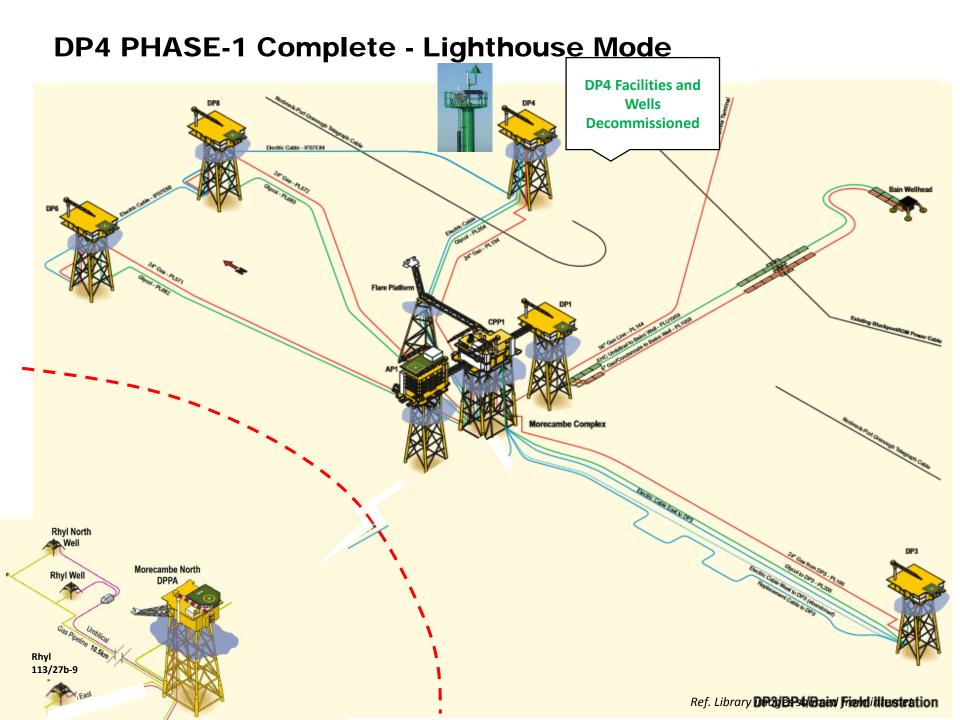


# Subsea Well P&A - Rhyl 113/27b-9

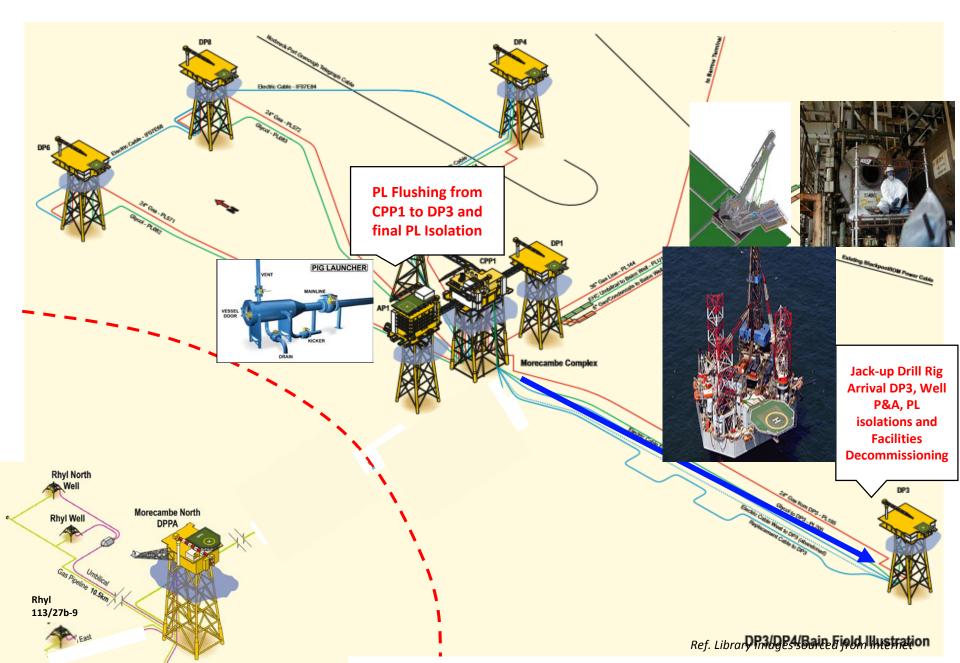




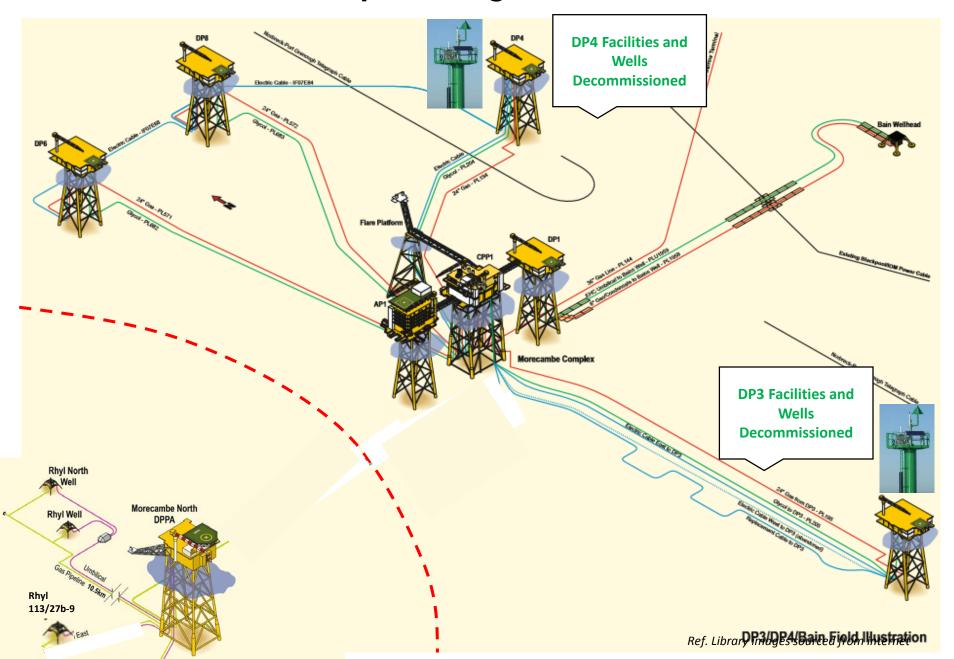




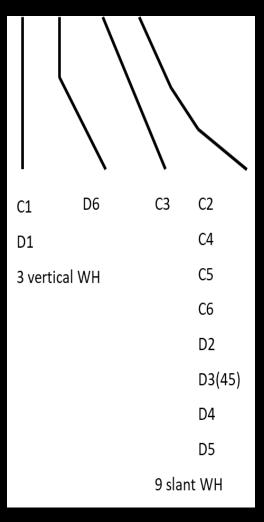
#### **DP3 PHASE-1**



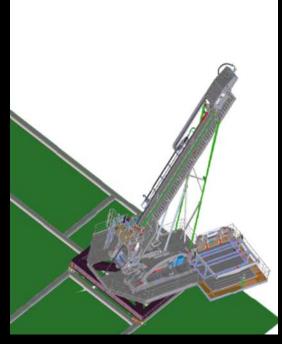
# **DP3&4 PHASE-1 Complete - Lighthouse Mode**

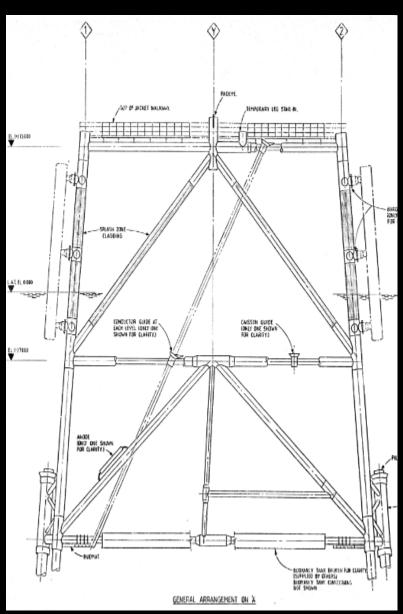


# **Key Challenges - Slant Wells**









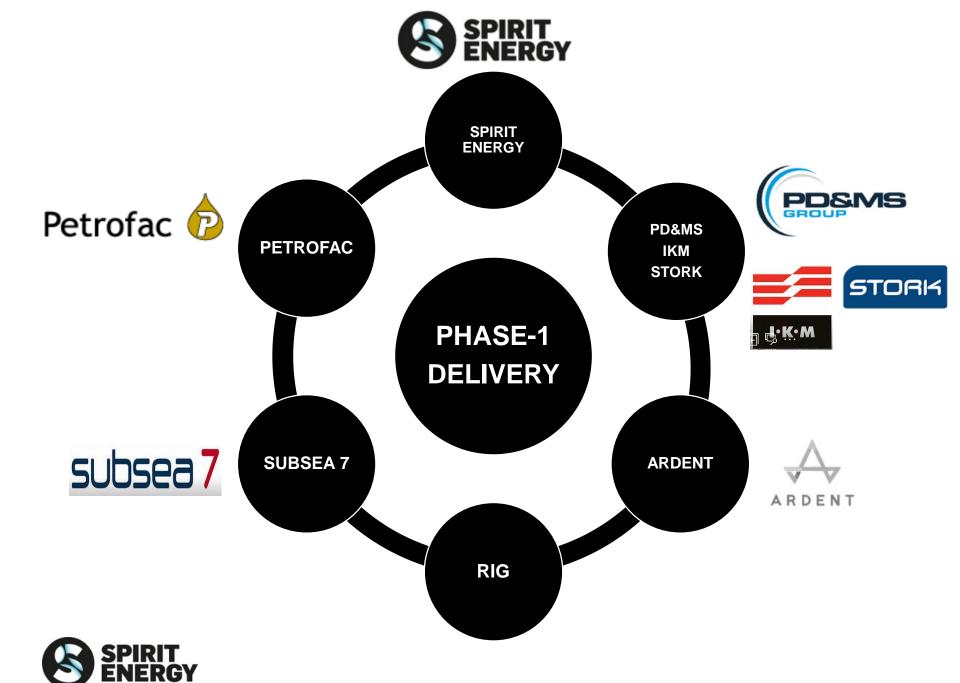


# **Key Challenges - Stranded Cranes**









### **PHASE 2 - Infrastructure Removal Services**



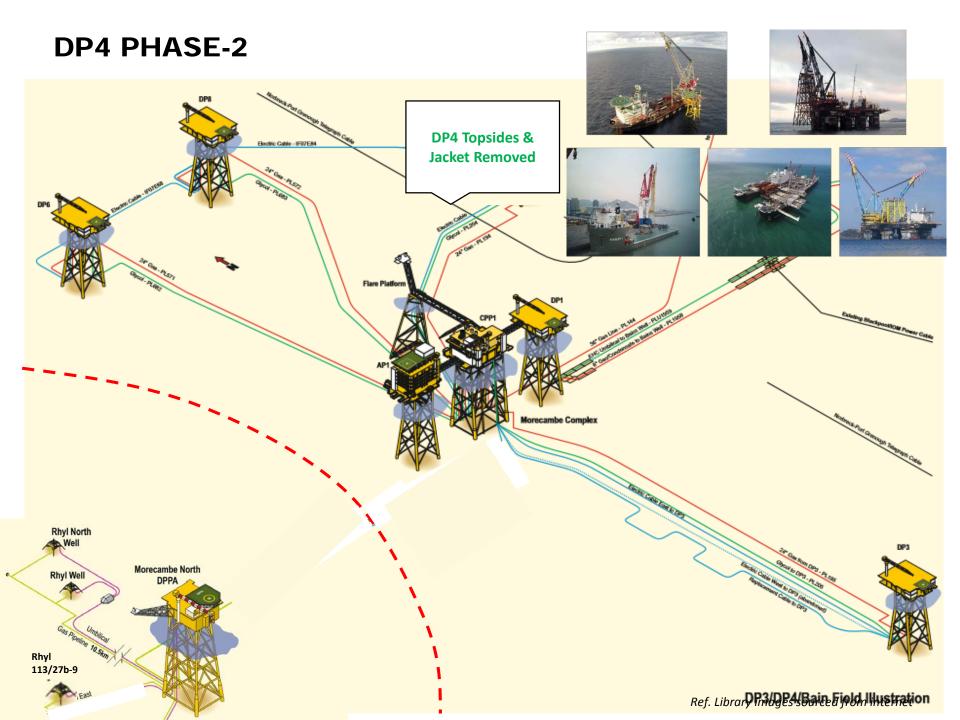












#### **DP3 PHASE-2**

