



DECOMMISSIONING THE BRENT FIELD

DECOM NORTH SEA 2015

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Business Opportunity Manager

DEFINITIONS AND CAUTIONARY NOTE

Reserves: Our use of the term "reserves" in this presentation means SEC proved oil and gas reserves. Resources: Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

Organic: Our use of the term Organic includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact. Resources plays: our use of the term 'resources plays' refers to tight, shale and coal bed methane oil and gas acreage.

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BRENT COMMISSIONING
BACKGROUND

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PROJECT OVERVIEW

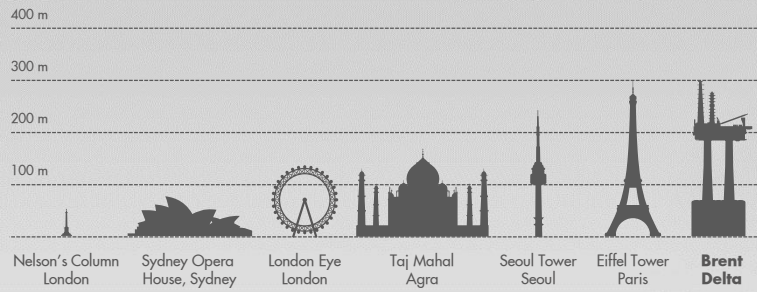
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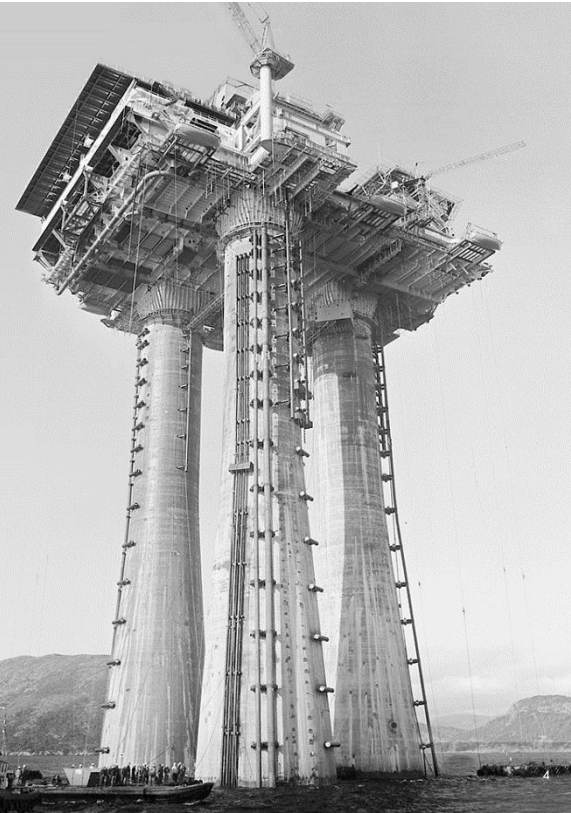
CURRENT FOCUS:
BRENT DELTA

3

THE SCALE OF THE BRENT FACILITIES



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A COMPLEX MAJOR ENGINEERING PROJECT



CESSATION OF PRODUCTION

- Delta 2011
- Alpha, Bravo 2014
- Charlie TBC

INTERDEPENDENCIES

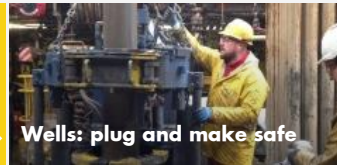
Alpha, Bravo & Charlie have multiple interconnections & interdependencies

FACTS

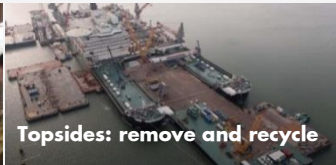
- 140 wells
- 4 topsides (106kT)
- 2 subsea locations
- 1 steel jacket
- 3 GBS
- 28 pipelines

ELEMENTS OF DECOMMISSIONING

ACTIONS DETERMINED BY REGULATION



Wells: plug and make safe

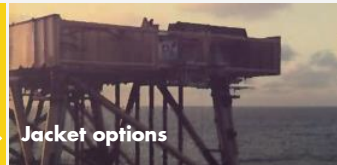


Topsides: remove and recycle



Debris and attic oil: remove

ACTIONS DETERMINED BY REGULATION & COMPARATIVE ASSESSMENT



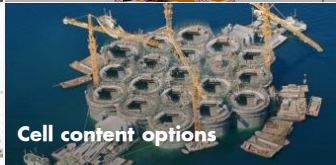
Jacket options



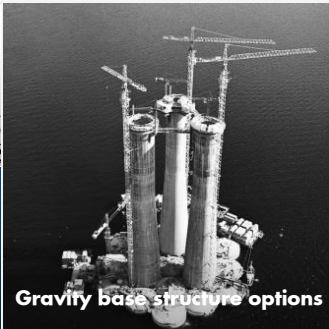
Drill cuttings options



Pipelines options



Cell content options

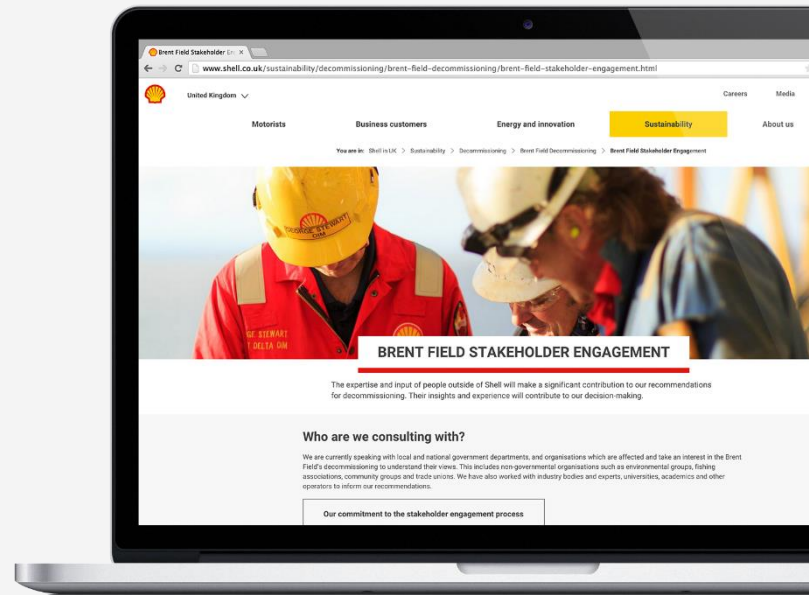


Gravity base structure options

WORKING TO FIND THE BEST SOLUTION

Since 2007 we have consulted with:

- Interested parties (180+ organisations)
- Experts from across the industry
- Independent Review Group
- Cell Management Stakeholder Task Group
- Conducted 300+ studies



DELTA HEAVY LIFT

PIONEERING SPIRIT

Length = 1253ft (382m)

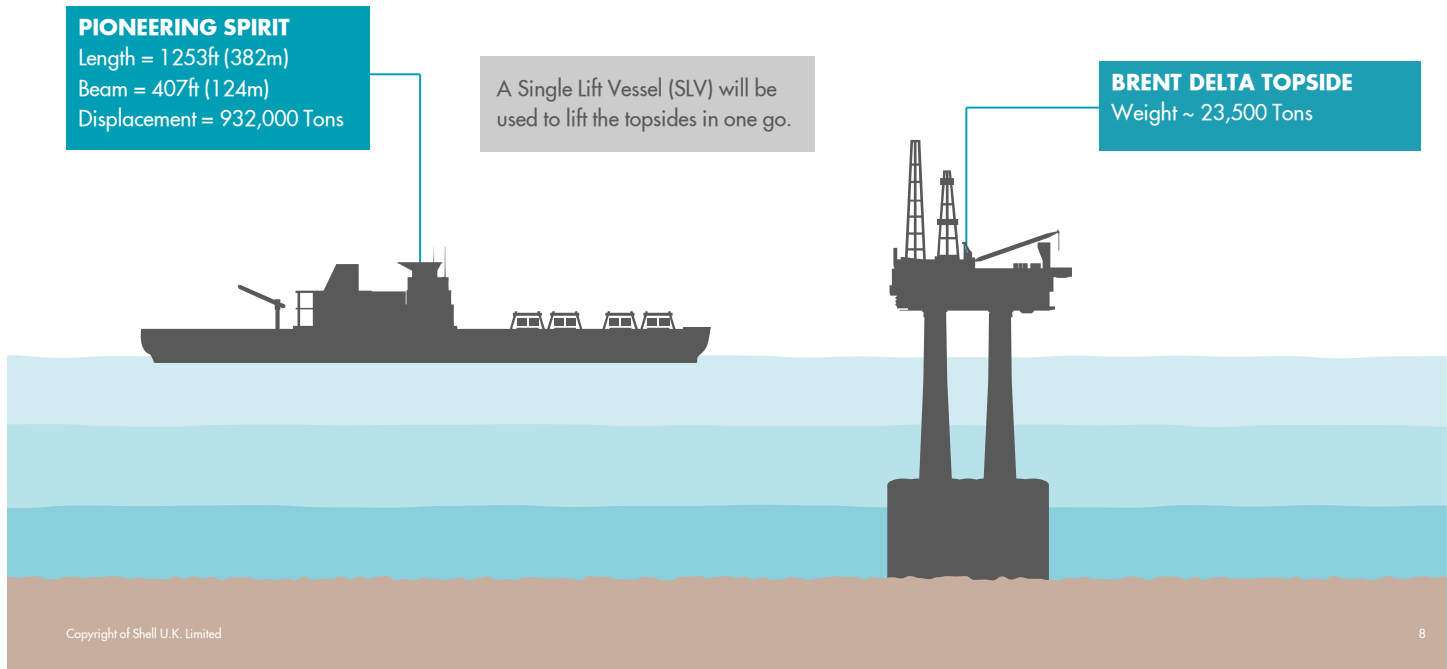
Beam = 407ft (124m)

Displacement = 932,000 Tons

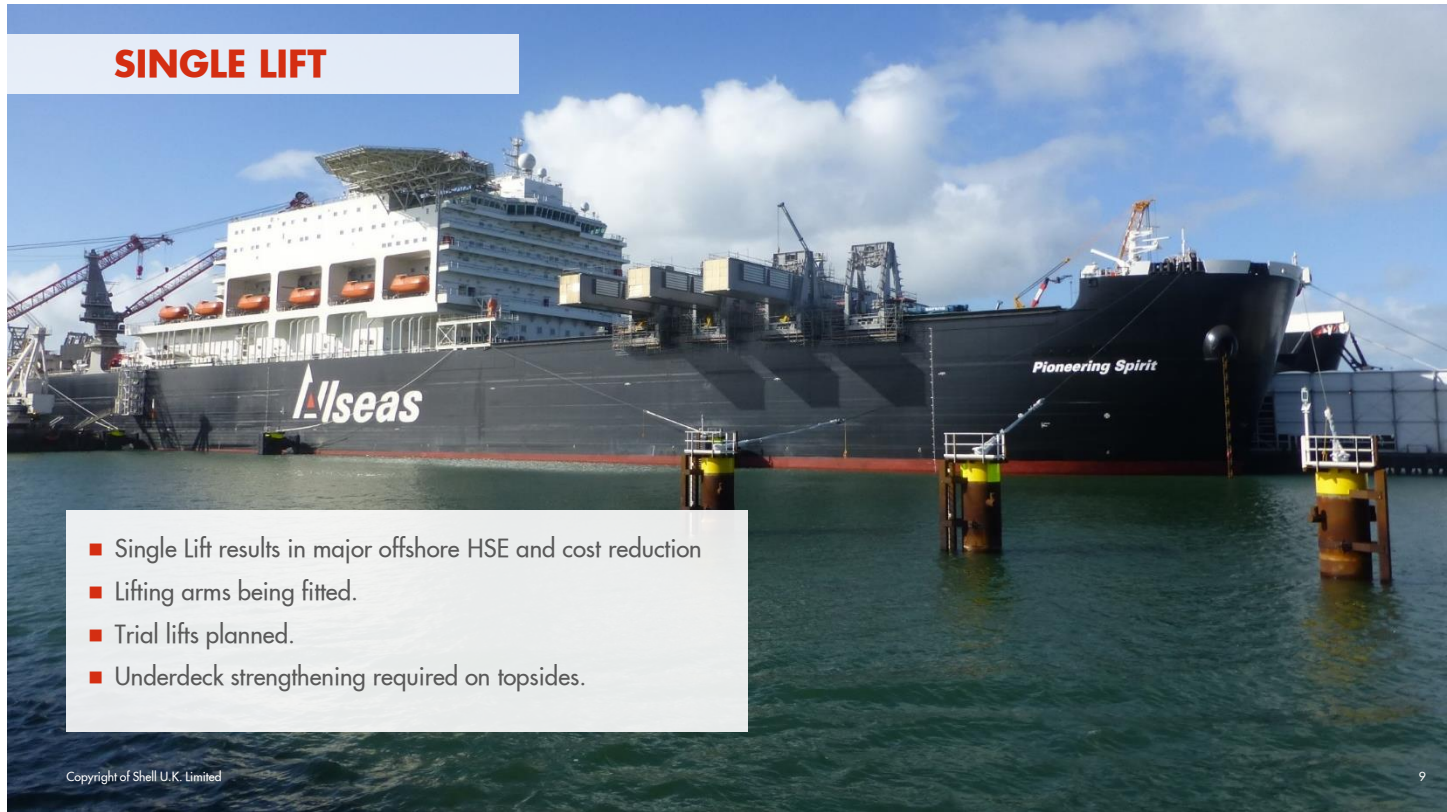
A Single Lift Vessel (SLV) will be used to lift the topsides in one go.

BRENT DELTA TOPSIDE

Weight ~ 23,500 Tons



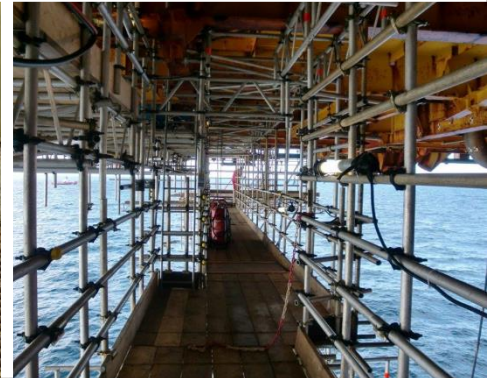
SINGLE LIFT



- Single Lift results in major offshore HSE and cost reduction
- Lifting arms being fitted.
- Trial lifts planned.
- Underdeck strengthening required on topsides.

TOPSIDE WORKS

- Capturing benefits of single lift concept:
- Simplified decontamination, engineer down
- ~100 Tonnes bulkhead stiffening
- ~100 Tonnes lift points
- Eliminated need to remove flare and derrick structures
- Conductor removal



SUBSEA WORKS



- Recovering debris using baskets and WROV
- Attic Oil Removal
- Cell Contents

