



ULSTEIN®

Sea of Solutions

ABAN ABRAHAM (ABAN ABRAHAM PTE. LTD.)



Ulstein Sea of Solutions (USOS) has performed the concept and basic design work for the upgrade of the Pelican class drill ship “Aban Abraham” owned by Aban Abraham Pte. Ltd. The former Peregrin III vessel had been laid up for several years and was to be reactivated. Main objective of the upgrade was for the ship to operate in deeper waters, an increase from 4,300 feet to 6,600 feet waterdepth. Also the drilling depth has been increased to 25,000 feet below the mudline.

The upgrade works have been performed at Sembawang Shipyard in Singapore and USOS work included amongst others:

- widening of the vessel by adding sponsons for extra buoyancy and possible future thruster installation
- substructure for increased loads and increased drill floor height of 4 metres
- increasing riser tensioning capacity
- increasing riser storage capacity
- increasing riser handling capacity
- increasing mudpump and mudstorage capacity
- increasing power generating capacity
- new power distribution and automation
- new nozzles for main propulsion propellers
- increasing accommodation complement and live saving appliances to 130 persons
- new helideck at the bow

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General specifications:

-	Type	DP drillship, Pelican class
-	Upgrade Design	Ulstein Sea of Solutions BV
-	Transit speed	10 knots
-	Positioning system	DP2 class
-	Propulsion propellers	2 x 2,570 kW
-	Tunnel thrusters	5 x 1,280 kW
-	Main Generator Sets	6 x 2,780 kW
-	Emergency set	1 x 350 kW
-	Derrick	1,330 kips, 44ft x 36ft x 175 ft clear height
-	Mud pumps	3 x 1,600HP triplex pumps National 12-P-160 1 x 800HP triplex pumps National 8-P-80

Principal dimensions:

-	Length o.a.	148.6 m
-	Length b.p.p.	136.8 m
-	Beam	29.8 m
-	Depth (moulded)	12.3 m
-	Design draught	7.5 m

Drilling capacity:

Drilling depth	25,000 ft
Water depth (after upgrade)	6,600 ft

Accommodation:

130 persons

Drilling equipment:

- Top drive TDS 4S
- Rotary table National 49 1/2" table opening
- Draw works National 1625-DE 1,600 hp
- BOP (18 3/4", 10,000 psi)
- Marine riser storage (6,600 ft of 50 ft riser, 21")
- Riser tensioning (4 x 160 kips dual tensioners plus future 2 x 160 kips dual tensioners)

Vessel capacities:

Fuel oil	2,200 m ³
Potable water	609 m ³
Drill water	1,000 m ³
Mud tanks	859 m ³
Brine	750 m ³
Base oil	770 m ³