

ABAN ABRAHAM

ABAN ABRAHAM PTE. LTD.



ABAN ABRAHAM – DTILL SHIP TECHNICAL SPECIFICATION

Rig Name	ABAN ABRAHAM
Rig Type	650 Ship shaped Drilling Unit
Owner	Aban Abraham Pte. Ltd.
Design	Gusto engineering “Pelican” class design
Class	DNV GL number: 10306 IMO number: 7411521 Port of registration : NASSAU 1A1 Ship shaped Drilling Unit DYNPOSAUTR
Construction Yard	IHC Holland offshore division, Shiedam
Construction Year Conversion / Up-gradation / Modification	Date of keel laid 1975-06 Date of build 1976-11 Upgraded in 2006 -08, Sembawang shipyard, Singapore Upgraded with two Azimuth thrusters in 2010. Mobile, USA.
Flag	Bahamas
Water Depth	6600 feet
Drilling Depth	25,000 feet
Accommodations	136 Beds
Hull Size	Overall length of unit: 159.30 Mtr. (522.63 feet) (From Fwd Nav. Light to Aft. Bulwark) Overall width of unit: 29.75 mtr Drilling draft/related displacement: 7.5 Mtr Moon pool dimensions: 7.2 mtr x 8.2 mtr

Station-keeping System & Propulsion/Thrusters	<p>DP-2 System. ADP 22 Duplex DP (Class 2) Converteam/Alstom A-Series Dynamic Positioning. 2 x Controllable Pitch Propeller. Hp - 3000, RPM 145, Propeller Dia 4000 mm, Number of Blades – 4 5 Nos. Wartsila transverse Thrusters; Model: Fixed Type: CT250, 3 fwd & 2 aft, 1750 HP each, Fixed. Propeller Diameter – 2356 mm, Blades -4, Gear Ratio – 716:244 2 Nos. Azimuth Thrusters – Make : Thrustmaster Type: Thru- hull Mechanical L-drive Propulsion System, TH-2500-ML, Propeller Type : Skewed Kaplan, fixed Pitch Rated Power Input : 2000KW, Input Rpm : Up to 720 Open Water Bollard Pull : 346 KN, Propeller Max. RPM : 235 Nozzle Type : Modified Kort 19A,</p>
Variable Drilling Load	<p>a. Lightship Displacement: 11070 MT b. Maximum Loaded Displacement : 20022 MT c. Maximum Variable Load: 8952 T</p>
Heli-Deck	<p>82 Feet (25 m) in diameter Sikorski S61-N & S92 With Wilmax helifueling system.</p>
Storage	<p>Bulk bentonite/barite: 88 m3 (4 @ 22 m3) / 258 m3 (6 @ 43 m3) Bulk cement: 258 m3 (6 @ 43 m3) Sacks storage: 330 m3</p> <p>Active Liquid Mud: 273 m3 Reserve liquid mud: 397 m3 Base oil storage: 381 m3 Brine storage: 381 m3</p> <p>Fuel: 2176.2 m3 Drilling water: 1005.2 m3 Potable water: 609.2 m3 Ballast system : 4785 m3</p> <p>Pipe racks area: 2700 m3 Riser racks: 5268 m3 Miscellaneous storage area: 862 M3</p>
Drilling Equipment	<p>Derrick – Pyramid Dynamic; Height 160 Static hook load of 1,350 kips</p> <p>Draw works - National 1625DE Load capacity 1725 Kips Power - 3000 HP</p> <p>Crown Block – NOV Rated capacity - 750 tons</p> <p>Travelling Block – America Block , B68G750 Rated capacity 650 tons</p> <p>Rotary Table – America Block RK- 49 ½" Static load rating 850T</p> <p>Drilling String Motion Compensator Make/type: Shaffer, Crown mounted Stroke: 25 feet Capacity - compensated: 600K; Capacity – hdr.locked: 600K</p> <p>Top Drive: Canrig Model 1275AC; Rated capacity - 750 TONS with 7500 psi/5000 psi WP Maximum continuous torque 51,400 ft - lb.</p>

Power systems	<p>Prime Movers: 6 X EMD ME16-710G7B Max. Continuous power 4000 HP Emergency Generator – 1 X Cummins KTA 50-D(MI1) Max of 129KW SCR system – Number of SCR: 10 SCR – 2 SWBD (5 SCR EACH) Make/type: Converteam Drawworks Section's rated – 1400ampDC Mud pump section's rated - 1000ampDC Output volts: volts 750VDC</p>
Mud Systems	<p>Mud Pumps- 3 X National Oilwell 12P-160 Triplex minimum 1600 HP 1 X National Oilwell 8P-80 Triplex , As Booster pump Shale Shakers - 4 X NOV King Cobra Plus; De-sander - 1 X NOV King Cobra Plus with Cones 3 X 12" De-silter - 1 X NOV with Cones 24 X 4" Mud Cleaner - 1 NOV King Cobra Plus Mud/Gas Separator - Poor Boy NOV Degasser – NOV, Type VG-1, 1000 GPM</p>
Drill String	<p>Drill Pipe – 5-7/8, Grade: S-135, 618 Joints 3-1/2, S-135, 128 Joints 5", S135, 225 Joints</p>
Additional Equipment	<p>Water Distillation – Quantity: 2 Nos Make/type: Alfa laval (JWP-36-C125DE & JWP-26-C100) Capacity (each/total): 45 m3 / 24 Hr & 30 m3/24 Hr</p>
Well Control Systems	<p>Diverter BOP - Make/type: Regan KFDS Max. bore size: 49" Working pressure: 500 psi Number of diverter outlets: no. 4 Outlet OD: 1x12", 1x14" & 2x3" Insert packer size ID: 10"</p>
	<p>Annular Preventer Hydril GX 18-3/4" 10K - Dual Annular c/w 2 x 3 -1/16" 15K - BX 154 side outlets</p>
	<p>BOP 10K subsea stack with 4 rams and double annular. 2 X 18-3/4" Hydril 10K Single BOP & H2S Trimmed 1 X 18-3/4" Hydril 10K Double BOP & H2S Trimmed</p>
	<p>Choke and Kill Manifold – Make: EEC Minimum ID: 3-1/16" Maximum WP: 10,000 H2S service: yes</p>
Cranes	<p>Port Aft / Stbd Fwd :- Amclyde 20000 Crane, Boom length 120 feet Static Load : 42.35 MT. 80 deg Angle, Dynamic : 38.5 MT at 80 deg Aft Crane Make: Houston Systems, USA, Type: 50 Roto - Boom length 80 ft BOP Handling System:- Make/type: Patriot MH 2, Capacity: 2 X 75 Ton Riser Handling System:- Make:- OHS Asia Rated Capacity:- 25 T Capacity, capable of handling 80, 75, 65 and 50 feet risers, also fitted 2x 5 T auxiliary winches.</p>