

ENSCOROWAN

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ENSCO 8504

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): None
Year Built: 2011
Updated: N/A
Builder: KFELS - Singapore
Design: Dynamically Positioned DP-2+
Classification: A. B. S. Maltese Cross A1 column stabilized drilling unit

MAIN DIMENSIONS

Pontoons: 56ft x 24ft x 310ft
Moon Pool: 30ft x 120ft
Columns: 50ft x 45ft
Keel to Main Deck: 97' 0"
Main Deck: 240ft W x 255ft L

MACHINERY

Main Power: (7) EMD series ME20-710G9C-T2 – 5,000 (Marine/Continuous) BHP/each; (7) Baylor S855YNT – 643, 3,580kw generators
Power Distribution: NOV-ABB, 25.1MW, 4,160-volt main power generation distributed through transformers for marine and drilling functions
Emergency Power: (1) x Cat 3512B x 1,476HP
Thrusters: (8) x Flowserve Pleuger WFDS-340-2610, 3,500 HP/each

OPERATING PARAMETERS

***Water Depth:** 10,000ft/8,500ft
Maximum Drilling Depth: 35,000ft
Air Gap: 34ft @ 55ft drilling draft
Transit Speed: 3.5knots @ 45ft draft
Variable Drilling Loads: 8,000sT
Operating Conditions: 8,000sT @ 55ft
Survival Conditions: 8,000sT @ 45ft
Transit Conditions: 4,500sT @ 25ft

DRILLING EQUIPMENT

Derrick: NOV 201ft x 46ft x 40ft; 2,000,000 lb static hook load
Drawworks: NOV ADS-30Q; 6,000Hp, 2" Drill Line
Rotary: NOV RST 605 hydraulic, 60 1/2" opening, 1,000T
Top Drive: NOV-TDS-1000A x 1,000 ton x 7,500Psi, GEB-20B 1,150Hp (AC Motor), PH-100
Drill String Compensator: NOV, CMC-H-1000-25, 1000K
Travelling Block: NOV HTB 7-72TB-1000; 1,000T
Pipe Handling: NOV-BR-15 Bridge Racker with Z-Back racking guide arm 3 1/2" - 22", HTV machine up to 22", PR-45-90HS Catwalk machine, AR4500 & RNX-203P Iron Roughnecks, PS30 slips, BX5 elevators, 1 x 45ft & 1 x 60ft telescopic foxholes
Bucking Unit: Model 8045 TorqueMaster (Range 5,000ft/lbs – 113,000ft/lbs)
Cementing: Schlumberger CPS 679Twin Pump 15,000 psi High Pressure and 6,000 psi High Volume
Mud Pumps: 4 x Lewco, W-2215, 2,200Hp, 7,500Psi

HOISTING EQUIPMENT

Deck Cranes: 2 x Seatrax S90 Model S9032, 160ft Boom, 97.0 st @ 50ft radius, 1m Hsig, Mipeg load indicators.
Riser Gantry Crane: Riser Gantry Crane: NOV 106ft span, 2 x 27 MT riser gantry crane

CAPACITIES

Active Mud Pits: 5,105bbls
Reserve Liquid Mud Storage: 11,737bbls
Bulk Mud/Cement: 26,000 ft³
Sacks: 8,000 sacks
Drill Water: 14,000bbls
Potable Water: 1,570bbls
Fuel Oil: 16,700bbls

WELL CONTROL SYSTEMS

BOP: 6 x Ram Hydril 18 3/4" x 15,000Psi; dual Hydril annular 18 3/4" x 10,000Psi GX; 1 x Cameron HC 18 3/4" x 10,000Psi LMRP Connector; 1 x DXDW 18 3/4" x 15,000Psi Wellhead connector.
BOP Handling: NOV 400 T BOP cart & elevator; 150 T Xmas tree cart/elevator, 400 T Casing hang-off
Control System: Hydril Multiplex, 5,000Psi.
Riser Details: Drill-Quip 21" x 3,000,000lb. flanged – 4 1/2" ID C/K lines – 4" ID Booster line; Dual 2-7/8" ID hydraulic conduit lines.
Riser Tensioner: 12 NOV x 280 kips / each
Diverter: Drill-Quip FDS, 60", 500Psi
Drill Pipe: 6-5/8" x 34 ppf & 40 ppf, S-135, 6 5/8" FH, range 3; 5-1/2" x 24.7 ppf, S-135, HT55, range 2; 5" x 19.5 ppf, S-135, GPDS50, range 3; 3 1/2" x 15.5 ppf, S-135, range 2 HWDP: 6 5/8", 5", 3 1/2" S-135; 5" & 3-1/2" G-105, Range 2; Landing String: 6 5/8", 68 ppf, Z-140, 6 5/8" FH, Range 2
Drill Collars: 9 1/2"; 8 1/4"; 6 3/4"; 4 3/4"
Choke and Kill Manifold: WOM 3 1/16" x 15,000Psi, with dual hydraulic power chokes.

MOORING

Winches: 4 x Brohl, Double-Drum RAMW-2050, 460kips @ 65.6ft/min maximum pull (2 drums per winch for 8-pt mooring operation)
Wire: 3 1/2" x 2250ft, 6x47, 1477kips MPL
Anchors: 4 x Vrijhof-Stevpris MK5 x 10mt

HELIDECK

Sikorsky S-61 or S-92, 73ft diameter, CAP-437, 12.9ton

ACCOMODATION

150 berths

ADDITIONAL DATA

Mud cleaning facilities: 6 x Derrick FLC-514; 2 x Derrick Vacu-Flo-1200 Degassers
Sewage treatment: 2 x Hamworthy ST-8; single point discharge
MPD/PMCD: Integrated hard piping and riser crossovers.

*Water Depth- The rig is currently outfitted with 8,500' of riser. Additional riser can be procured upon request.