



ENSCO 8501

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): N/A
Year Built: 2008
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: 97ft-0in
Main Deck: 240ft W x 255ft L

MACHINERY

Main Power: 7 x EMD series ME20-710G7C - 5,000 (Marine/Continuous) BHP/each; 7 x Baylor S855YNV – 643-2B x 3,580kW generators.
Power Distribution: NOV-ABB, 25.1 MW, 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 x 3,500hp.

OPERATING PARAMETERS

Water Depth: 8,500ft
Maximum Drilling Depth: 35,000ft
Air Gap: 34ft @ 55ft drilling draft
Transit Speed: 3.5knots @ 45ft draft
Variable Drilling Loads: 8,000T
Operating Conditions: 8,000sT@55ft
Survival Conditions: 8,000sT@45ft
Transit Conditions: 5,800sT@25ft

DRILLING EQUIPMENT

Derrick: NOV x 201ft x 46ft x 2,000,000lbs static hook load
Drawworks: NOV ADS-30Q x 6,000Hp x 2in drill line
Rotary: NOV RST 605 hydraulic x 60-1/2" opening x 1,000Ton
Top Drive: NOV-TDS-1000 x 1,000Ton x 7,500psi, GEB-20B 1,150hp x AC Motor, PH-100
Drill String Compensator: NOV, CMC-H-1000-25, 1000K
Travelling Block: NOV HTB 7-72TB-1000, 1,000 ton
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 & ST-120 iron roughnecks, PS30 slips, BX5 & BX7 elevators, 1 x 45ft & 1 x 60ft telescopic foxholes
Cementing: BJ Seahawk Unit
Mud Pumps: 4 x Lewco, W-2215 x 2,200Hp x 7,500Psi

HOISTING EQUIPMENT

Deck Cranes: 2 x Seatrax S90 Model S9032 x 160ft Boom. Lifts at 70ft radius: Off-board 79sTon, On-board 88sTon. 1m Hsig, 40knot winds; Mipeg 2000NR load indicators.
Riser Gantry Crane: 1 x Patriot 106ft span, 52sTon capacity.

CAPACITIES

Active Mud Pits: 4,500bbls
Reserve Liquid Mud Storage: 11,700bbls
Bulk Mud/Cement: 26,000ft³
Sacks: 8,000sacks
Drill Water: 14,000bbls
Potable Water: 1,570bbls
Fuel Oil: 16,700bbls

WELL CONTROL SYSTEMS

BOP: 6 x Ram Hydril x 18 3/4" x 15,000Psi; dual Hydril annular x 18 3/4" x 10,000Psi GX; 1 x Cameron HC x 18 3/4" x 10,000Psi LMRP connector; 1 x Super HDH4 x 18 3/4" x 15,000Psi well-head connector.
BOP Handling: 680Ton BOP cart & elevator; 150Ton Xmas tree cart, 400Ton Casing hang-off
Control System: Hydril Multiplex x 5,000psi
Riser Details: Drill-Quip x 21" x 2,500,000lbs. flanged x 4-1/2" ID Choke/Kill lines x 4" ID Booster line; Dual 2-7/8" ID hydraulic conduit lines
Riser Tensioner: 10 x NOV x 250Kips
Diverter: Dril-Quip CSO x 60" x 500Psi
Drill Pipe: 6-5/8" x 34lbs/ft. & 40lbs/ft., S-135, 6-5/8" FH, range 3; 5" x 19.5lbs/ft., S-135, GPDS50, range 3; HWDP: 6-5/8", 5", S-135; Landing String: 6-5/8" x 68lbs/ft., Z-140, 6-5/8" FH, Range 2
Drill Collars: 9 1/2"; 8 1/4"; 6 3/4"
Choke and Kill Manifold: WOM 3-1/16" x 15,000psi, with dual hydraulic power chokes

MOORING

Winches: 4 x Brohl, RAMW-2050 x 460Kips
Wire: 3 1/2" x 2,500ft, 6 x49
Anchors: 4 x Vrijhof-Stevpris MK5, 9mT

HELIDECK

Sikorsky S-61 or S-92, 73' diameter

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