



ENSCO 8502

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): _
Year Built: 2010
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, 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: 34' @ 55' drilling draft
Transit Speed: 3.5 knots @ 45' draft
Variable Drilling Loads: 8,000Ton
Operating Conditions: 8,000sTon @ 55ft
Survival Conditions: 8,000sTon @ 45ft
Transit Conditions: 5,800sTon @ 25ft

DRILLING EQUIPMENT

Derrick: NOV x 201ft x 46ft x 40ft x 2,000,000lbs static hook load
Drawworks: NOV ADS-30Q x 6,000Hp x 2" drill line
Rotary: NOV RST 605 hydraulic x 60-1/2" opening x1,000Ton
Top Drive: NOV-TDS-1000A x 1000Ton 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, BX4 & BX5 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
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"}, 68lbs/ft, Z-140, 6^{5/8"} FH, range 2
Drill Collars: 9^{1/2"}, 8^{1/4"}, 6^{3/4"}

HOISTING EQUIPMENT

Deck Cranes: 2 x Seatrax S90 Model S9032, 160ft Boom. Lifts at 70ft radius: Offboard 79 ST, Onboard 88 ST. 1m Hsig, 40 knot winds; CCM-7000 Load Indicators.
Riser Gantry Crane: 1 x Patriot 106ft span x 52sTon capacity

CAPACITIES

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

WELL CONTROL SYSTEMS

BOP: 6 x Ram Hydriil x 18-3/4" x 15,000Psi; dual Hydriil annular x 18-3/4" x 10,000Psi GX; 1 x Cameron HC x 18-3/4" x 10,000Psi LMRP Connector; 1 x Drill Quip Model DX-DW x 18-3/4" x 15,000Psi Wellhead connector
BOP Handling: 680Ton BOP cart & elevator; 150Ton Xmas tree cart, 400Ton Casing hang-off
Control System: Hydriil 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: Drill-Quip CSO x 60in x 500Psi
Choke and Kill Manifold: WOM 3-1/16" x 15,000Psi, with dual hydraulic power chokes

MOORING

Winches: 4 Brohl, RAMW-2050 x 460Kips
Wire: 3^{1/2"} x 2,500ft, 6 x 55
Anchors: 4 x Vrijhof-Stevpris MK5, 9mTon

HELIDECK

Sikorsky S-61 or S-92, 73ft 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