



ENSCO 8503

GENERAL INFORMATION

Flag: Liberian
Previous Name(s):
Year Built: 2010
Builder: KFELS - Singapore
Upgrade: 2015 (8 pt Position Mooring)
Design: ENSCO 8500 Series® (Dynamically Positioned DP-2)
Classification: A. B. S. Maltese Cross A1, Maltese Cross
DPS-2 column stabilized drilling unit

MAIN DIMENSIONS

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

MACHINERY

Main Power: 5 x 5,000 hp EMD ME20-710G7C, 2 x 5,500 hp EMD L20-710G9C-T2; 5 x Baylor S855YNV – 643 and 2 x Baylor S855YNT-656 3,580 kW 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 1,476 hp
Thrusters: 8 x Flowserve Pleuger WFDS-340-2610 x 3,500 hp

OPERATING PARAMETERS

Water Depth: 8,500 ft
Maximum Drilling Depth: 37,500 ft
Air Gap: 42 ft @ 55 ft drilling draft
Transit Speed: 3.5 kn @ 45 ft draft
Variable Drilling Loads:

- Operating Condition: 7,300 sT @ 60 ft Draft
- Survival Condition: 7,300 sT @ 45 ft Draft
- Deep Transit Condition: 7,300 sT @ 40 ft Draft
- Transit Condition: 4,000 sT @ 25 ft Draft

DRILLING EQUIPMENT

Derrick: NOV 201 ft x 46 ft x 40 ft x 2,000,000 lbs static hook load
Drawworks: NOV ADS-30Q x 6,000 hp x 2" drill line
Rotary: NOV RST 605 hydraulic x 60-1/2" opening x 1,000 sT
Top Drive: NOV-TDS-1000A (1000 sT) 7,500 psi, GEB-20B 1150 hp (AC Motor), PH-100
Drill String Compensator: NOV CMC-H-1000-25, 1000 kips
Travelling Block: NOV HTB 7-72TB-1000 x 1,000 sT
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, 2 x BX5 elevators, 1 x BX7 elevator 1 x 45' & 1 x 60' telescopic foxholes
Cementing: Halliburton HCS-25
Mud Pumps: 4 x Lewco, W-2215 x 2,300 hp x 7,500 psi

HOISTING EQUIPMENT

Deck Cranes: 2 x Seatrax model S9032, 160 ft boom. Lifts at 60 ft radius: Off-board 79 sT, On-board 88 sT. 1m Hsig, 40 kn winds; CCM-7000 load indicators.
Riser Gantry Crane: 1 x Patriot x 106ft span x 52 sT capacity

CAPACITIES

Active Mud Pits: 4,200 bbls
Reserve Liquid Mud Storage: 11,700 bbls
Bulk Mud/Cement: 26,000 ft3
Sacks: 8,000 sacks
Drill Water: 13,900 bbls
Potable Water: 1,570 bbls
Fuel Oil: 16,600 bbls

WELL CONTROL SYSTEMS

BOP: 6 x Ram Hydril x 18 3/4" x 15,000 psi; dual Hydril annular 18 3/4" x 10,000 psi GX; 1 x Cameron HC x 18 3/4" x 10,000 psi LMRP Connector; 1 x DXDW H4 18 3/4" x 15,000 psi wellhead connector
BOP Handling: 750 sT BOP cart & 440 sT elevator; 150 sT Xmas tree cart; 400 sT casing hang-off
Control System: Hydril Multiplex, 5,000 psi
Riser Details: Dril-Quip x 21" x 2,500,000 lbs. flanged x 4 1/2" ID choke/kill lines x 3.83" ID booster line; dual 2.44" ID hydraulic conduit lines
Riser Tensioner: 10 x NOV x 250 kips
Diverter: Dril-Quip CSO x 60 in x 500 psi
Drill Pipe: 6 5/8" x 34 lbs/ft & 40 lbs/ft, S-135 x 6-5/8" FH, range 3; 5 7/8" x 23.4 lbs/ft S-135, GPDS 55, range 3; 5" x 19.5 lbs/ft, S-135, GPDS50, range 3; HWDP: 6-5/8", 5"; Landing String: 6-5/8" x 68 lbs/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 15,000 psi, with dual hydraulic power chokes

MOORING

Winches: 4 x Brohl, Double-Drum RAMW-2050, 460 kips @ 65.6 ft/min maximum pull
Note: 2 Drums per winch for 8-pt mooring operation
Wire: 3-1/2" x 2,000 ft, 6x47, 1,477 kips MBL
Anchors: 4 x Vrijhof-Stevpris MK5 x 10 mT

HELIDECK

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

ACCOMODATION

150 berths

ADDITIONAL DATA

Mud cleaning facilities: 6 x Derrick FLC-514 (primary); 2 x Derrick FLC-504 (scalping)
Sewage treatment: 1 x Hamworthy ST-8; Omni-Pure 12MXMP; single point discharge