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## ENSCO 8506

### GENERAL INFORMATION

**Flag:** Liberian  
**Previous Name(s):**  
**Year Built:** 2011  
**Builder:** KFELS - Singapore  
**Design:** Dynamically Positioned DP-2  
**Classification:** A. B. S. Maltese Cross A1 column stabilized drilling unit

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### 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 248ft L

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### MACHINERY

**Main Power:** 7 x EMD series ME20-710G9C-T2 – 5,000 (Marine/Continuous) BHP/each; 7 x Baylor S855YNT – 656, 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 Caterpillar 3512B x 1,476Hp  
**Thrusters:** 8 x Flowserve Pleuger WFDS-340-2610 x 3,500Hp

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### OPERATING PARAMETERS

**Water Depth:** 8,500ft  
**Maximum Drilling Depth:** 35,000ft  
**Air Gap:** 34ft @ 45ft drilling draft  
**Transit Speed:** 3.8knots @ 57ft draft  
**Variable Drilling Loads:** 8,000Ton  
**Operating Conditions:** 8,000sTon @ 55ft  
**Survival Conditions:** 8,000sTon @ 45ft  
**Transit Conditions:** 4,500sTon @ 25ft

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### 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 2in drill line  
**Rotary:** NOV RST 605 hydraulic x 60<sup>1/2</sup>in opening x 1,000Ton  
**Top Drive:** NOV-TDS-1000A 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, 1,000Ton  
**Pipe Handling:** NOV-BR-15 Bridge Racker with Z-Back racking guide arm 3<sup>1/2</sup>" - 22", HTV machine up to 22", PR-45-90HS Catwalk machine, AR4500 & ST-120 iron roughnecks, PS30 slips, BX4 & BX5 & BX7 elevators, 1 x 45ft & 1 x 60ft telescopic foxholes  
**Cementing:** Schlumberger CPS665  
**Mud Pumps:** 4 x Lewco, W-2215, 2,200Hp x 7,500Psi  
**Drill Pipe:** 5" x 19.5 ppf, S-135, GPDS50, range 3; 6 5/8" x 34 ppf, S-135, 6 5/8" FH, range 3; 6 1/8" x 40 ppf, V-150, 6 5/8" FH, range 3; Landing string: 6 5/8" x 50.5 ppf, Z-140, 6 5/8" FH, range 2; 5" HWDP, 6 5/8" HWDP  
**Drill Collars:** 9<sup>1/2</sup>in, 8<sup>1/4</sup>in, 6<sup>3/4</sup>in

### HOISTING EQUIPMENT

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

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### CAPACITIES

**Active Mud Pits:** 4,200bbbls  
**Reserve Liquid Mud Storage:** 11,737bbbls  
**Bulk Mud/Cement:** 26,000ft<sup>3</sup>  
**Sacks:** 8,000 sacks  
**Drill Water:** 14,000bbbls  
**Potable Water:** 1,570bbbls  
**Fuel Oil:** 16,700bbbls

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### WELL CONTROL SYSTEMS

**BOP:** (6) 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 Wellhead connector  
**BOP Handling:** NOV 680Ton BOP cart & elevator; 150Ton Xmas tree cart, 400Ton Casing hang-off  
**Control System:** Hydril Multiplex x 5,000Psi  
**Riser Details:** Drill-Quip 21" x 3,000,000lbs. flanged – 4 1/2" ID C/K lines – 4" ID Booster line; Dual 2 7/8" ID hydraulic conduit lines  
**Riser Tensioner:** 12 x NOV x 250Kips  
**Diverter:** Drill-Quip CSO, 60", 500 psi  
**Choke and Kill Manifold:** WOM 3-1/16" x 15,000Psi, with dual hydraulic power chokes

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### MOORING

**Winches:** 4 x Brohl, RAMW-2050 x 460Kips @ 65.6 ft/sec  
**Wire:** 3<sup>1/2</sup>in x 2,500ft, 6 x 55  
**Anchors:** 4 x Vryhof-Stevpris MK5, 10mTon

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### HELIDECK

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

### ACCOMODATION

150 berths

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### 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