



EnSCO North & South America  
16300 Katy Freeway  
Two Park Ten Place, Suite 300  
Houston, TX 77094, USA  
Phone: (281) 560-8500  
Fax: (281) 560-8507  
E-mail: marketing.dw@enscoplc.com  
www.enscoplc.com



## ENSCO 8503

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

---

### MACHINERY

**Main Power** (7) EMD series ME20-710G7C - 5,000 (Marine/Continuous) BHP/each; (7) Baylor S855YNV - 643, 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) Cat 3512B, 1,476 HP  
**Thrusters** (8) Flowserve Pleuger WFDS-340-2610, 3,500 HP/each

---

### OPERATING PARAMETERS

**Water Depth** 8,500'  
**Maximum Drilling Depth** 35,000'  
**Air Gap** 34' @ 55' drilling draft  
**Transit Speed** 3.5 knots @ 45' draft  
**Variable Drilling Loads** 8,000 t  
**Operating Conditions** 8,000 s. tons @ 55'  
**Survival Conditions** 8,000 s. ton @ 45'  
**Transit Conditions** 5,800 s. ton @ 25'

---

### DRILLING EQUIPMENT

**Derrick** NOV 201' x 46' x 40'; 2,000,000 lb static hook load  
**Drawworks** NOV ADS-30Q, 6,000 HP, 2" Drill Line  
**Rotary** NOV RST 605 hydraulic, 60 1/2" opening, 1,000 ton  
**Top Drive** NOV-TDS-1000A (1000 ton) 7,500 psi, GEB-20B 1150 HP (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 45' & 1 x 60' telescopic foxholes  
**Cementing** Dowell Schlumberger CPS-763 AC  
**Mud Pumps** (4) Lewco, W-2215, 2,200 HP, 7,500 psi

### HOISTING EQUIPMENT

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

---

### CAPACITIES

**Active Mud Pits** 4,200 bbls  
**Reserve Liquid Mud Storage** 11,700 bbls  
**Bulk Mud/Cement** 26,000 cu. ft.  
**Sacks** 8,000 sacks  
**Drill Water** 14,000 bbls  
**Potable Water** 1,570 bbls  
**Fuel Oil** 16,700 bbls

---

### WELL CONTROL SYSTEMS

**BOP** (6) Ram Hydril 18 3/4" 15 M; dual Hydril annular 18 3/4" 10M GX; (1) Cameron HC 18 3/4" 10 M LMRP Connector; (1) DXDW H4 18 3/4" 15 M Wellhead connector  
**BOP Handling** 400 ton BOP cart & elevator; 150 ton Xmas tree cart, 400 ton Casing hang-off  
**Control System** Hydril Multiplex, 5,000 psi  
**Riser Details** Drill-Quip 21" 2,500,000 lb. flanged - 4 1/2" ID C/K lines - 4" ID Booster line; Dual 2 7/8" ID hydraulic conduit lines  
**Riser Tensioner** (12) NOV, 250 kips / each  
**Diverter** Drill-Quip FDS, 60", 500 psi  
**Drill Pipe** 6 5/8" x 34 ppf & 40 ppf, S-135 & V-150, 6 5/8" FH, range 3; 5 7/8 x 23/4 ppf S-135, GPDS 55 range 3; 5" x 19.5 ppf, S-135, GPDS50, range 3; HWDP: 6 5/8", 5", S-135; 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"  
**Choke and Kill Manifold** WOM 3 1/16" x 15,000 psi, with dual hydraulic power chokes

---

### MOORING

**Winches** (4) Brohl, RAMW-2050 (460 kips)  
**Wire** 3 1/2", 2,500', 6 x 49  
**Anchors** (4) Vrijhof-Stevpris MK5, 9 MT

---

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

**ACCOMODATION** 150 berths

---

### ADDITIONAL DATA

**Mud cleaning facilities:** (6) Derrick FLC-514; (2) Derrick Vacu-Flo-1200 Degassers  
**Sewage treatment:** (2) Hamworthy ST-8; single point discharge