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## ENSCO 102

### GENERAL INFORMATION

**Flag** Liberian  
**Previous Name(s)** None  
**Year Built** 2002  
**Builder** Keppel FELS Singapore  
**Upgrade** \_  
**Design** Keppel FELS, Enhanced, MOD V "A" Class, Harsh Environment  
**Classification** A. B. S. A-1 self elevating drilling unit

### MAIN DIMENSIONS

**Length** 246'  
**Breadth** 222'  
**Depth** 31'  
**Legs** 3 x 541' (triangular shape) (3' tips removed)  
**Leg Spacing** Longitudinal leg center 150', transverse leg center 156'  
**Cantilever** Maximum 76' from stern to rotary center line; maximum 15' rotary displacement to either side of longitudinal centerline; 56' x 30' live drilling area aft of hull.  
**Spud Cans** 59.67' diameter x 18' high  
**Deck Area** Cantilever 2,760 sq. ft. main deck 4,300 sq. ft.

### DRAFT AND DISPLACEMENT

**Transit Draft** 17.5'  
**Transit Displacement** 34,530 kips

### MACHINERY

**Main Power** 6 x Cat 3516-B engine rated at 1,855 HP each, 2,150 KW each  
**Power Distribution** 7 x GT1-TPC SCR units  
**Emergency Power** 1 x Cat 3512-B engine rated at 1,47HP, 1,030 KW

### OPERATING PARAMETERS

**Water Depth** 400' max. (North Sea site sensitive) / 25' min.  
**Maximum Drilling Depth** 30,000'  
**Leg Penetration** min 1.5', max 86'  
**Air Gap** 135' working  
**Transit Speed** 4.0 knot historical average  
**Survival Conditions** At 328' water depth: wind: 100 knots; waves: 78'; period 15.5 sec  
**Criteria Design** MODU code

### DRILLING EQUIPMENT

**Derrick** Dreco 170' x 40 x 40'; rated 1,500,000 lb maximum hook load capacity  
**Drawworks** National 1625 UDBE, power 3,000 HP disc brakes with joy stick control  
**Rotary** National D-495 (49 1/2")  
**Top Drive** Varco TDS-4H  
**Travelling** Dreco 670 ton rating c/w block retracting  
**Handling** Varco PRS4i automated pipe racking system/Varco AR-3200 Iron Roughneck / Varco PS-21 power slips  
**Cementing** Free placement only  
**Mud Pumps** 3 x National 14-P-220; 7,500 psi mud system  
**Drill Pipe** 20,000', 5 1/2"-S-135 grade, HT55 connection, range 3  
**Drill Collars** 9 1/2", 8 1/4", 6 3/4", and 4 3/4"

### HOISTING EQUIPMENT

**Craneage** 3 x Dreco 72 DNS King Post hydraulic: 1 x 120 boom & 2 x 140 boom

### CAPACITIES

**Variable Deck Load** 12,757 kips (drilling)  
**Cantilever Load** 2,600 kips (centerline < 60' aft of transom)  
**Total Drilling Load** \_  
**Tubulars in Pipe Rack** Included in above  
**Liquid Mud** 4,796 bbls  
**Bulk Mud/Cement** 9,560 cu. ft./ 8,080 cu. ft. (17,460 combined total)  
**Sacks** 5,000 sacks  
**Drillwater** 4,110 bbls (dedicated) / 17,052 bbls (dual purpose tanks) / 21,16 bbls (combined total)  
**Potable Water** 2,363 bbls  
**Brine Storage** 1,369 bbls  
**Base Oil Capacity** 1,336 bbls  
**Fuel Oil** 5.039 bbls  
**Watermaker** \_  
**Others** \_

### WELL CONTROL SYSTEMS

**BOP** Shaffer 18 3/4" 15,000 psi 4 ram NXT; Shaffer 18 3/4" 10,000 psi Spherical Annular  
**BOP Handling** 2 x MOS 75 chain Hoists  
**Control System** Shaffer Koomey HPM-260/FA-42-3S  
**Diverter** Regan KFDJ 2,000 psi, 49 1/2"  
**TV System** \_  
**Choke and Kill** 3 1/16" x 15,000 psi with Shaffer 15,000 psi choke

### MOORING

**Winches** 4 x Plimsoll / Electric / 350,000 lbs holding capacity  
**Wire** 2" wire / 2,060' length  
**Anchors** 2 x Delta flipper, 15,000 lb weight each

**HELIDECK** S-61 type helicopters / max. weight of 20,500 lb / 83' diameter

**JACKING AND SKIDDING SYSTEM** Keppel FELS, self positioning fixation system

**ACCOMMODATION** 122 berths

### ADDITIONAL DATA

4 x NOV Brandt VSM 300 Shale Shakers  
 Derrick Hi-G Dryer / Zero discharge (single point)  
 Offline Stand/Casing building/Dedicated preload system/Hydraulic operated (boltless) BOP door/ Enclosed pollution containment unit (Texas deck)  
 TV system VSat

### CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Allow Loads	70'	595	1963	835
Max Combined Load w/max setback	40'	2383	2600	2600