



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: ABS A-1 self elevating drilling unit.

MAIN DIMENSIONS

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

DRAFT AND DISPLACEMENT

Transit Draft: 17.5ft
Displacement: 34,530kips (Transit)

MACHINERY

Main Power: 6 x Cat 3516-B engine x 1,855hp x 2,150kw
Power Distribution: GT1-TPC SCR x 7 units
Emergency Power: 1 x Cat 3512-B engine x 1,47hp x 1,030kw

OPERATING PARAMETERS

Water Depth: 25 ft - 400ft (North Sea site sensitive)
Drilling Depth: 30,000ft (Maximum)
Length Below Hull:
Air Gap: 135ft working
Transit Speed: 4knot historical average
Survival At 328ft water depth: wind: 100knots;
Conditions: waves: 78ft; period 15.5s
Criteria Design: MODU code

DRILLING EQUIPMENT

Derrick: Drecto 170ft x 40ft x 40ft x 1,500,000lbs maximum hook load capacity.
Drawworks: National 1625 UDBE x 3,000hp disc brakes with joy stick control.
Rotary: National D-495 x 49 1/2"
Top Drive: Varco TDS-4H
Travelling: Drecto x 670T 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 x 2,200hp x 7,500psi mud system.
Drill Pipe: 15,000ft x 5" x S-135 grade, NC50 connection, range 2
Drill Collars: 9 1/2"; 8 1/4"; 6 3/4"; and 4 3/4".

HOISTING EQUIPMENT

Crane: 3 x Drecto 72 DNS King Post hydraulic: 1 x 120ft boom & 2 x 140ft boom.

CAPACITIES

Variable Deck Load: 12,757kips (drilling)
Cantilever Load: 2,600kips (centerline < 60ft aft of transom)

Total Drilling Load:

Tubulars in Pipe Rack: Included in above
Liquid Mud: 4,796bbl
Bulk Mud/Cement: 9,560cu.ft./ 8,080cu.ft.
Sacks: 5,000 sacks
Drill water: 4,110bbl dedicated/17,052bbl dual purpose tanks
Potable Water: 2,363bbl
Brine Storage: 1,369bbl
Base Oil Capacity: 1,336bbl
Fuel Oil: 5.039bbl

WELL CONTROL SYSTEMS

BOP: Shaffer x 13 5/8" x 10,000psi 4 ram; Shaffer x 13 5/8" x 5,000psi Spherical Annular.
BOP Handling: 2 x MOS 75 chain Hoists.
Control System: Shaffer Koomey HPM-260/FA-42-3S
Diverter: Regan KFDJ x 2,000psi x 49 1/2"
Choke and Kill: 3-1/16" x 10,000psi with Shaffer 10,000psi choke.

HELIDECK

S-61 type helicopters; max. weight of 20,500lbs x 83ft 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; Enclosed pollution containment unit (Texas deck)

Watermaker: 2 x Alfa Laval Distillation Units

CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Allow Loads	76'	398	1963	596
Max comb w/ max	40'	2383	2600	2600