

ENSCOROWAN

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ENSCO 109

GENERAL INFORMATION

Flag: Liberia
Previous Name: Ocean Shield
Year Built: 2008
Builder: Keppel FELS, Singapore
Upgrade: Not applicable
Design: Keppel FELS KFELS MOD V Super B Class
Classification: ABS A-1 Self-elevating MODU CDS

MAIN DIMENSIONS

Length: 246 ft
Breadth: 218 ft
Depth: 25 ft
Legs: 3 x triangular 486 ft
Leg Spacing: Longitudinal leg center 129 ft, transverse leg center 142 ft
Cantilever: Min. 0', max. 70 ft from stem to rotary center line; Maximum 15 ft; rotary displacement to either side of longitudinal center line; 50'6" x 30 ft live drilling area aft of hull
Spud Cans: 52.4 ft diameter x 19 ft high
Deck Area: Main deck storage capacity 6,100 ft²

DRAFT AND DISPLACEMENT

Transit Draft: 16 ft
Displacement: 34,341 kips (Transit)

MACHINERY

Main Power: 5 x Wartsila 6L26A2 diesel engine each driving 1 x Leroy Somer 1,829 kW generator; total 12,250 HP
Power Distribution: 6 x 1,150 HP National Oilwell & 3 x 2,300 HP ABB VFDs
Emergency Power: 1 x Cat 3412TA diesel engine rated at 831 HP driving 1 x Stamford HCM534F2 500 kW AC generator

OPERATING PARAMETERS

Water Depth: 350 ft
Drilling Depth: 35,000 ft (Maximum)
Leg Penetration: 25 ft (Site specific)
Air Gap: 35 ft (Site specific)
Transit Speed: 4.5 - 5 knots
Survival Conditions: At 350 ft water depth; 100 knots wind; 48 ft waves; 14 sec period (with fixation system)
Criteria Design: Wind: 70 knots; waves: 40 ft

DRILLING EQUIPMENT

Derrick: NOV 170 ft x 36 ft x 36 ft; rated 2,000,000 lbs static hook load capacity
Drawworks: NOV SSGD-4600, 4600 HP
Rotary: Varco/BJ RST 495, (49 1/2" max opening)
Top Drive: NOV HPS1000-2E, 1,000 tons
Travelling Block: NOV HTB-N, 1000 tons rating
Handling: NOV Bridge Racker BR6-8000/6500-SD; NOV MPT200 Iron Roughneck, BX4 elevator, PS30, Halliburton
Cementing: Halliburton
Mud Pumps: 3 x NOV 14-P-220, 2,200 HP, 7,500 psi
Drill Pipe: 17600' x 5-7/8" 28.26 lb/ft S-135 XT-57 (R3); 7480' x 5" 19.5 lb/ft S-135 NC50 (R3); 4650' x 4" 14.4 lbs/ft S-135 XT-39 (R2)
Drill Collars: 9 x 9 1/2"; 24 x 8 1/4"; 30 x 6 3/4"

HOISTING EQUIPMENT

Cranage 2 x Seatrax S5624, 13 mt whip line 47 mt main line; diesel hydraulic & 1 Seatrax S7220, 13.5 mt whip line, 56 mt main line; diesel hydraulic.

CAPACITIES

Variable Deck Load: 7984 kips (drilling)
Cantilever Load: 2,700 kips
Total Drilling Load: 2,000 kips
Tubulars in Pipe Rack: 15,000 ft 5-7/8" DP; 10,000 ft 5" DP; BHA
Liquid Mud: 5,566 bbl
Bulk Mud/Cement: 9,600 ft³ / 6,150 ft³
Sacks: 5,000 sacks
Drill Water: 21,746 bbl
Potable Water: 2,053 bbl
Brine Storage: 1,000 bbl
Base Oil Capacity: 1,561 bbl
Fuel Oil: 3,344 bbl
Watermaker: Alfa Laval D-PU-36-C100
Others: Trip Tank 1 x 65 bbl + 10 bbl Stripping tank

WELL CONTROL SYSTEMS

BOP: NOV Shaffer NXT 18 3/4" 15,000 psi 4 ram BOP stack (double & double) w/14" shear boosters; Shaffer 18 3/4" 10,000 psi Wedge cover annular.
BOP Handling: 2 x 60MT JDN/EHZ60-LN30 BOP hoists
Control System: CAD 48010370U2, 3,000 psi
Diverter ABB Vetco KFDJ 49 1/2" 500 psi with 3 x 16" remote controlled valves
TV System: National Oilwell Varco
Choke and Kill: T3F 3 1/16" x 15,000 psi

MOORING

Winches: 4 x Le Tourneau W-1500, Rated pull 50,000 lb
Wire: 38mm x 2,000 ft, 6x36IWRC-EEIPS RHRL.
Anchors: 4 x Delta Flipper 7.5 mt, 420x365x140 cm

HELIDECK

S-61, 9.2MT; S-92 Approved; CAP 437

JACKING AND SKIDDING SYSTEM

Keppel FELS OTD-1000FV with hydraulic fixation system

ACCOMMODATION

120 berths

ADDITIONAL DATA

5 x VSM 300; Nov Shakers; 1,200 gpm vacuum degasser, 500 kips conductor tensioning system, NOV cyber SDI drilling controls and instrumentation; Single point discharge. Capable of Cantilever Skid-off operation. BOP Tensioning: 2 X 85 mt 3,000 psi tensioning cylinders

CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Max combined load & setback	70'	618	1721	618
	20'	2700	2700	2700