



ENSCO 122

GENERAL INFORMATION

Flag:	Liberian
Previous Name(s):	None
Year Built:	2014
Builder:	Keppel FELS, Singapore
Design:	Keppel FELS, Ultra-Enhanced, Super "A" Class
Classification:	ABS A-1 self-elevating drilling unit

MAIN DIMENSIONS

Length:	246ft
Breadth:	250ft
Depth:	31ft
Legs:	3 x 540ft (include spud can tip) Reverse-K triangular truss.
Leg Spacing:	Longitudinal leg center 150ft, transversal leg center 156ft.
Cantilever:	Maximum 80ft from stern to rotary center. 60ft x 32ft live drilling area aft of hull.
Spud Cans:	59.67ft diameter x 18ft high (2,517sq.ft)
Deck Area:	Cantilever 3,480sq.ft. main deck 4,930sq.ft.

DRAFT AND DISPLACEMENT

Transit Draft:	20.4ft (Field Tow - Leg 540ft - Spud cans Buoyant - 600 setback)
Displacement:	48,419kips (Transit), Field Tow - Leg 540ft - Spud cans Buoyant - 600 setback.

MACHINERY

Main Power:	6 x Cat 3516CHD engine x 1603kw output
Power Distribution:	12 x VFD units
Emergency Power:	1 x Cat 3508-B engine x 910kw.

OPERATING PARAMETERS

Water Depth:	25 ft – 400 ft (North Sea site sensitive)
Drilling Depth	40,000ft (Maximum).
Air Gap:	150ft
Transit Speed:	TBD (4.0kt. historical average for ENSCO 102)
Survival Conditions:	At 328ft water depth: wind: 87knots; waves: 69ft; period 15.5 sec
Criteria Design:	IMO MODU code 2009

DRILLING EQUIPMENT

Derrick:	NOV 210ft x 40ft x 40ft x 2,500,000lbs max hook load capacity, max lines 16
Drawworks:	NOV ADS30Q x 6000hp w/ Eaton Multi-Disc Auxiliary
Rotary:	NOV RST 605-H x 60½" c/w 49½" adaptor SST x 1,375sT, max continuous torque 45,200ft/lb.
Top Drive:	1250 ton NOV TDX-1250
Travelling:	NOV 872TB1250-8C x 1,250T, 8 x 72" sheaves
Handling:	Varco PRS-6i automated pipe racking system / 2 x NOV ST-160 (Automatic) Iron Roughneck / NOV PS-30 power slips; NOV CWS-P10-45LS pipe handling catwalk shuttle.
Cementing:	Schlumberger Unit
Mud Pumps:	3 x NOV 14-P-220 x 2,200Hp AC
Drill Pipe:	8,500ft x 3 ½"; 18,000ft x 5"; 17,000ft x 5 ½".
Drill Collars:	15 x 4 ¾"; 15 x 6 1/2"; 15 x 8¼"; 6 x 9½".

HOISTING EQUIPMENT

Craneage:	1 x 120ft boom x 70sT at 40ft radius, 2 x 140ft boom, diesel; NOV KMCVCT 1891 pipe handling knuckle boom crane.
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CAPACITIES

Variable Deck Load:	14,300kips
Cantilever Load:	3,415kips (centerline 80ft aft of transom).
Total Drilling Load:	9,105kips (Variable load capacity).
Tubulars in Pipe Rack:	210 stands 5-7/8" DP; 91 stands 6-5/8" DP; 57 stands 7" casing; 40 stands 9-5/8" casing; 32 stands 13-5/8" casing.
Liquid Mud:	7,500bbls total
Bulk Mud/Cement:	17,640cu.ft combined total; 4 x 2,300cu.ft Barite/Bentonite Silos, 4 x 2,110cu.ft Cement Silos.
Sacks:	7,080 sacks
Drill water:	25,179bbl
Potable Water:	3,500bbl
Brine Storage:	2,100bbl
Base Oil Capacity:	1,470bbl
Fuel Oil:	4,400bbl

WELL CONTROL SYSTEMS

BOP:	Hydril GX x 18-3/4" x 10,000psi Annular Type, NOV Shaffer x 18-3/4" x 15,000psi Double NXT 4 Ram Type, Vetco NT-2 adaptor; 1 – Hydril GX x 13-5/8" x 5,000psi Annular, Cameron Type U x 13-5/8" x 10,000psi 3 Ram w/ FXT Shear Rams, AQC Connector
BOP Handling:	1 x 125T crane with telescoping lifting fork, 2 x 17.5T BOP service bridge crane, 2 x 125 BOP carts.
Control System:	NOV Koomey, 3,000psi working pressure, 1,800 fluid reservoir capacity, 900gal total accumulator capacity.
Diverter:	Cameron x 1,000psi x 49-1/2" RST, 16" outlet OD.
TV System:	NOV Hervis CCTV System x 7 Cameras.
Choke and Kill:	3-1/16" x 15,000psi with Mission CSO choke.

MOORING

Winches:	4 x Brohl x 45mT
Wire:	2" wire / 2,000ft length

HELIDECK

S-92 and S-61 type helicopters / CAP 437

JACKING AND SKIDDING SYSTEM

Keppel FELS, self-positioning fixation system

ACCOMMODATION

150 berths

ADDITIONAL DATA

4 x NOV Brandt VSM Multi-Sizer Shale Shakers; 2 x NOV Brandt DG-12 Degasser; ZMPC derrick elevator
 Watermaker: 120m3/24hr; 1 x Dual Reverse Osmosis system

CANTILEVER CAPACITY (kips)

Max Combined Load with max setback at 80ft reach:
 Starboard Transverse: 17ft/2405; 11.7ft/3161; 9ft/3415; 1ft/3415
 Port Transverse: 1.7ft/3415; 9.7ft/3255; 12.3ft/3255; 15ft/2518