



ENSCO 120

GENERAL INFORMATION

Flag:	Liberian
Previous Name(s):	None
Year Built:	2013
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, transverse 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 x 3,480sq.ft.; main deck x 4,930sq.ft.

DRAFT AND DISPLACEMENT

Transit Draft:	20.4ft
Displacement:	48,419kips (Transit)

MACHINERY

Main Power:	6 x Cat 3516CHD engine x 1,603kw output
Power Distribution:	12 x VFD units
Emergency Power:	1 x Cat 3508-B engine x 910kw.

OPERATING PARAMETERS

Water Depth:	400ft max. (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 15.5sec
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
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:	Halliburton Unit
Mud Pumps:	3 x NOV 14-P-220 x 2,200hp
Drill Pipe:	5 1/2" DP S-135 24.7 GPDS55; 5 1/2" HWDP S-135 58.1 GPDS55; 3 1/2" DP S-135 15.5 GPDS38; 3 1/2" HWDP S-135 23.2 GPDS38
Drill Collars:	24 x 4 3/4", 30 x 6 3/4", 30 x 8 1/4" and 6 x 9 1/2"

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 (subject to environmental conditions)
Cantilever Load:	3,415kips (centerline 80ft aft of transom)
Total Drilling Load:	9,105kips (Variable load capacity)
Tubulars in Pipe Rack:	202 stands 5-7/8" DP; 81 stands 6-5/8" DP; 57 stands 7" casing; 40 stands 9-5/8" casing; 32 stands 13-5/8" casing 7,500bbbls total
Liquid Mud:	17,640cu.ft combined total
Bulk Mud/Cement:	7,500 sacks
Sacks:	17,900bbbls
Drill water:	3,500bbbls
Potable Water:	1,440bbbls
Brine Storage:	1,470bbbls
Base Oil Capacity:	4,400bbbls
Fuel Oil:	120m3/24hr; 1 x Dual Reverse Osmosis system

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.
BOP Handling:	1 x 125T crane with telescoping lifting fork, 35T (2 x 17.5T) BOP service bridge crane, 2 x 125 BOP carts.
Control System:	NOV Koomey
Diverter:	Cameron x 1,000psi x 49-1/2" RST, 16" outlet OD.
TV System:	NOV Hernis CCTV System x 7 Cameras.
Choke and Kill:	3-1/16" x 15,000psi with Mission CSO drilling choke.

MOORING

Winches:	4 x Brohl x 45mT
Wire:	2" wire x 2,000ft length
Anchors:	1 x Bruce x 7mT

HELIDECK

S-92 and S-61 type helicopters / CAP 437, MTOW 12.8t. 73' - 10" Diameter (exc. 5' wide safety net).

JACKING AND SKIDDING SYSTEM

Keppel FELS, self-positioning fixation system

ACCOMMODATION

150 berths; 4 x single bed rooms with private wet units, 73 x 2 bed rooms with private wet units.

CANTILEVER CAPACITY (kips)

Max Combined Load with max setback reach 80ft
 Starboard Transverse: 17ft /2210; 11.7ft/2924; 9ft/3358; 1ft/2415;
 Port Transverse: 1.7ft/3415; 9.7ft/3415; 12.3ft/3290; 15ft/2925

ADDITIONAL DATA

4 x NOV Brandt VSM Multi-Size Shale Shakers; 2 x NOV Brandt DG-12 Degasser; ZMPC derrick elevator