



## ENSCO 121

### GENERAL INFORMATION

<b>Flag:</b>	Liberian
<b>Previous Name(s):</b>	None
<b>Year Built:</b>	2013
<b>Builder:</b>	Keppel FELS, Singapore
<b>Upgrade:</b>	N/A
<b>Design:</b>	Keppel FELS, Ultra-Enhanced, Super "A" Class
<b>Classification:</b>	ABS A-1 self-elevating drilling unit

### MAIN DIMENSIONS

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

### DRAFT AND DISPLACEMENT

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

### MACHINERY

<b>Main Power:</b>	6 x Cat 3516CHD engine 1603kW rated output
<b>Power Distribution:</b>	12 x VFD units
<b>Emergency Power:</b>	1 x Cat 3508-B engine with 910kw.

### OPERATING PARAMETERS

<b>Water Depth:</b>	25 ft – 400 ft (North Sea site sensitive)
<b>Drilling Depth:</b>	40,000ft (Maximum)
<b>Length Below Hull:</b>	
<b>Air Gap:</b>	150ft
<b>Transit Speed:</b>	4.5 knots
<b>Survival</b>	At 328ft water depth: wind: 87knots; waves:
<b>Conditions:</b>	69ft; period 15.5s
<b>Criteria Design:</b>	IMO MODU code 2009

### DRILLING EQUIPMENT

<b>Derrick:</b>	NOV 210ft x 40ft x 40ft x 2,500,000lbs max hook load capacity, max lines 16
<b>Drawworks:</b>	NOV ADS30Q 6000hp w/ Eaton Multi-Disc Auxiliary
<b>Rotary:</b>	NOV RST 605-H (60½" c/w 49½" adaptor SST) rated 1,375sT, max continuous torque 45,200ft/lb.
<b>Top Drive:</b>	1250 ton NOV TDX-1250
<b>Travelling:</b>	NOV 872TB1250-8C x 1,250T, 8 x 72" sheaves
<b>Handling:</b>	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
<b>Cementing:</b>	Halliburton Unit (3 <sup>rd</sup> Party)
<b>Mud Pumps:</b>	3 x NOV 14-P-220 x 2,200hp AC
<b>Drill Pipe:</b>	21,390ft x 5 ½"; 10,000ft x 5"; 10,000ft x 3 ½"
<b>Drill Collars:</b>	24 x 4¾", 30 x 6¾", 30 x 8¾" and 6 x 9½"

### HOISTING EQUIPMENT

<b>Crane:</b>	1 x 120ft boom, 63.7MT at 30ft radius, 2 x 140ft boom, 64MT at 30ft radius; NOV KMCVCT 1891 pipe handling knuckle boom crane
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### CAPACITIES

<b>Variable Deck Load:</b>	14,300kips
<b>Cantilever Load:</b>	3,415kips (centerline 80ft aft of transom).
<b>Total Drilling Load:</b>	9,105kips (Variable load capacity).
<b>Tubulars in</b>	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.
<b>Pipe Rack:</b>	
<b>Liquid Mud:</b>	7,500bbbls total
<b>Bulk Mud/Cement:</b>	9,200 ft <sup>3</sup> / 8,440 ft <sup>3</sup>
<b>Sacks:</b>	7,500 sacks
<b>Drill water:</b>	17,900bbbl
<b>Potable Water:</b>	3,500bbbl
<b>Brine Storage:</b>	1,440bbbl
<b>Base Oil Capacity:</b>	1,470bbbl
<b>Fuel Oil:</b>	4,400bbbl

### WELL CONTROL SYSTEMS

<b>BOP:</b>	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.
<b>BOP Handling:</b>	1 x 125T crane with telescoping lifting fork, 2 x 17.5T BOP service bridge crane, 2 x 125 BOP carts.
<b>Control System:</b>	NOV Koomey, 3,000psi working pressure, 1,800 fluid reservoir capacity, 900gal total accumulator capacity.
<b>Diverter:</b>	Cameron 1,000psi, 49½" RST 16" outlet OD
<b>TV System:</b>	NOV Hervis CCTV System x 7 Cameras.
<b>Choke and Kill:</b>	3-1/16" x 15,000psi with Mission CSO drilling choke.

### MOORING

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

### HELIDECK

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

### ADDITIONAL DATA

Shale Shakers: 4 x NOV Brandt VSM Multi-Size; 2 x NOV Brandt DG-12 Degasser; ZMPC derrick elevator  
 Watermaker: 120 m<sup>3</sup>/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