



ENSCO 8505

GENERAL INFORMATION

Flag:	Liberian
Previous Name(s):	
Year Built:	2012
Builder:	KFELS - Singapore
Upgrade:	2015 (8pt Position Mooring)
Design:	ENSCO 8500 Series® Dynamically Positioned DP-2
Classification:	A. B. S. Maltese Cross A1 column stabilized drilling unit

MAIN DIMENSIONS

Pontoons:	56ft x 24ft x 310ft
Moon Pool:	30ft x 120ft
Columns:	50ft x 45ft
Keel to Main Deck:	97' 0" 97ft-0in
Main Deck:	240ft W x 255ft L

MACHINERY

Main Power:	7 x EMD series ME20-710G9C-T2 – 5,000 (Marine/Continuous) BHP/each; 7 x Baylor S855YNT – 656, 3,580kw generators.
Power Distribution:	NOV-ABB, 25.1 MW, 4,160-volt main power generation distributed through transformers for marine and drilling functions.
Emergency Power:	1 x Cat 3512B x 1,476Hp.
Thrusters:	8 x Flowserve Pleuger WFDS-340-2610 x 3,500Hp

OPERATING PARAMETERS

Water Depth:	8,500ft
Drilling Depth:	35,000ft maximum
Air Gap:	42ft @ 55ft drilling draft
Transit Speed:	3.5knots @ 45ft draft
Variable Drilling Loads:	7,600T
Operating Conditions:	7,600sT @ 55ft
Survival Conditions:	7,600sT @ 45ft
Transit Conditions:	4,200sT @ 25ft

DRILLING EQUIPMENT

Derrick:	NOV x 201ft x 46ft x 40ft x 2,000,000lbs static hook load.
Drawworks:	NOV ADS-30Q, 6,000Hp x 2in drill line.
Rotary:	NOV RST 605 hydraulic x 601/2" opening x 1,000Ton
Top Drive:	NOV-TDS-1000A x 1000Ton x 7,500 Psi, GEB-20B 1,150Hp x AC Motor, PH-100.
Drill String Compensator:	NOV, CMC-H-1000-25, 500 Ton cap.
Travelling Block:	NOV HTB 7-72TB-1000 x 1,000Ton.
Pipe Handling:	NOV-BR-15 Bridge Racker with Z-Back racking guide arm 3 1/2" - 22", HTV machine up to 22", PR-45-90HS Catwalk machine, AR4500 & ST-120 iron roughnecks, PS30 slips, BX4 & BX5 elevators, 1 x 45ft & 1 x 60ft telescopic foxholes.
Cementing:	Halliburton Advantage Cementing Skid, CMS Liquid Additive System, 150 Bbl Batch Mixer

Mud Pumps:	4 x Lewco, W-2215 x 2,200Hp x 7,500Psi.
Drill Pipe:	6 ^{5/8"} x 34lbs/ft. x S-135; 6 ^{5/8"} x 40lbs/ft. x V-150; 6 ^{5/8"} FH, range 3; 5" x 19.5lbs/ft. x S-135, GPDS50, range 3; HWDP: 6 ^{5/8"} , 5", S-135; landing string: 6 ^{5/8"} x 50lbs/ft.; Z-140, 6 ^{5/8"} FH, range 2.
Drill Collars:	9 ^{1/2"} ; 8 ^{1/4"} ; 6 ^{3/4"}

HOISTING EQUIPMENT

Deck Cranes:	(2) Seatrax S90 Model S9032, 160ft Boom. Lifts at 70ft radius: Off-board 79 sT, Onboard 88 sT. 1m Hsig, 40 knot winds; CCM-7000 Load Indicators.
Riser Gantry Crane:	1 x NOV 106ft span, 52 sT capacity.

CAPACITIES

Active Mud Pits:	4,500bbls
Reserve Liquid Mud Storage:	11,700bbls
Bulk Mud/Cement:	26,000ft ³
Sacks:	8,000 sacks
Drill Water:	14,000bbls
Potable Water:	1,570bbls
Fuel Oil:	16,700bbls

WELL CONTROL SYSTEMS

BOP:	6 x Ram Hydril 18 3/4" x 15,000Psi dual Hydril annular x 18 3/4" x 10,000Psi GX; 1 x Cameron HC x 18 3/4" x 10,000Psi LMRP Connector; Drill-Quip 15M DXDW SHDH4 30" w/ 27" inserts Wellhead connector.
BOP Handling:	NOV x 680Ton BOP cart & elevator; 150Ton Xmas tree cart, 400Ton Casing hang-off.
Control System:	Hydril Multiplex x 5,000Psi.
Riser Details:	Drill-Quip 21" x 3,000,000lb. flanged x 4-1/2" ID Choke/Kill lines x 4" ID Booster line; Dual 2-7/8" ID hydraulic conduit lines.
Riser Tensioner:	12 x NOV x 250 Kips.
Diverter:	Dril-Quip CSO x 60in x 500Psi.
Choke and Kill Manifold:	WOM x 3 ^{1/16"} x 15,000Psi, with dual hydraulic power chokes.

MOORING

Winches:	4 x Brohl, RAMW-2050 x 460 Kips @65.6 ft./min Maximum Pull. <i>Note: 2 Drums per winch for 8-pt mooring operation</i>
Wire:	3 ^{1/2"} x 4,500ft, 6 x 47 IWRC; 1,477 Kips, Min. Breaking Load
Anchors:	4 x Vrijhof-Stevpris MK5, 9mT.

HELIDECK

Sikorsky S-61 or S-92, 73ft diameter.

ACCOMODATION

150 berths

ADDITIONAL DATA

Mud cleaning facilities: 6 x Derrick FLC-514 ; 2 x Derrick Vacu-Flo-1200 Degassers.
Sewage treatment: 2 x Hamworthy ST-8; single point discharge.