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ENSCO 8505

GENERAL INFORMATION

Flag Liberian
Previous Name(s) _
Year Built 2012
Builder KFELS - Singapore
Design Dynamically Positioned DP-2
Classification A. B. S. Maltese Cross A1 column stabilized drilling unit

MAIN DIMENSIONS

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

MACHINERY

Main Power (7) EMD series ME20-710G9C-T2 – 5,000 (Marine/Continuous) BHP/each; (7) Baylor S855YNT – 656, 3,580 KW 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) Cat 3512B, 1,476 HP
Thrusters (8) Flowserve Pleuger WFDS-340-2610, 3,500 HP/each

OPERATING PARAMETERS

Water Depth 8,500'
Maximum Drilling Depth 35,000'
Air Gap 34' @ 55' drilling draft
Transit Speed 3.5 knots @ 45' draft
Variable Drilling Loads 8,000 t
Operating Conditions 8,000 s. tons @ 55'
Survival Conditions 8,000 s. ton @ 45'
Transit Conditions 5,800 s. ton @ 25'

DRILLING EQUIPMENT

Derrick NOV 201' x 46' x 40'; 2,000,000 lb static hook load
Drawworks NOV ADS-30Q, 6,000 HP, 2" Drill Line
Rotary NOV RST 605 hydraulic, 60 1/2" opening, 1,000 ton
Top Drive NOV-TDS-1000A (1000 ton) 7,500 psi, GEB-20B 1150 HP (AC Motor), PH-100
Drill String Compensator NOV, CMC-H-1000-25, 1000K
Travelling Block NOV HTB 7-72TB-1000, 1,000 ton
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 45' & 1 x 60' telescopic foxholes
Cementing TBA
Mud Pumps (4) Lewco, W-2215, 2,200 HP, 7,500 psi

HOISTING EQUIPMENT

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

CAPACITIES

Active Mud Pits 4,200 bbls
Reserve Liquid Mud Storage 11,700 bbls
Bulk Mud/Cement 26,000 cu. ft.
Sacks 8,000 sacks
Drill Water 14,000 bbls
Potable Water 1,066 bbls
Fuel Oil 16,700 bbls

WELL CONTROL SYSTEMS

BOP (6) Ram Hydril 18 3/4" 15 M; dual Hydril annular 18 3/4" 10M GX; (1) Cameron HC 18 3/4" 10 M LMRP Connector; (1) DXDW H4 18 3/4" 15 M Wellhead connector
BOP Handling NOV 400 ton BOP cart & elevator; 150 ton Xmas tree cart, 400 ton Casing hang-off
Control System Hydril Multiplex, 5,000 psi
Riser Details Drill-Quip 21" 3,000,000 lb. flanged – 4 1/2" ID C/K lines – 4" ID Booster line; Dual 2 7/8" ID hydraulic conduit lines
Riser Tensioner (12) NOV, 250 kips / each
Diverter Drill-Quip CSO, 60", 500 psi
Drill Pipe 6 5/8" x 34 ppf & 40 ppf, S-135, 6 5/8" FH, range 3; 5" x 19.5 ppf, S-135, GPDS50, range 3; HWDP: 6 5/8", 5", S-135; Landing String: 6 5/8", 64 ppf, Z-140, 6 5/8" FH, Range 2
Drill Collars 9 1/2"; 8 1/4", 6 3/4"
Choke and Kill Manifold WOM 3 1/16" x 15,000 psi, with dual hydraulic power chokes

MOORING

Winches (4) Brohl, RAMW-2050 (460 kips)
Wire 3 1/2", 2,500', 6 x 55
Anchors (4) Vrijhof-Stevpris MK5, 9 MT

HELIDECK Sikorsky S-61 or S-92, 73' diameter

ACCOMODATION 150 berths

ADDITIONAL DATA

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