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ENSCO 100

GENERAL INFORMATION

Flag Liberian
Previous Name(s) Mr. Mac; Transworld Rig 74; West Omikron
Year Built 1987
Builder UIE, Clydebank, UK
Upgrade 2000 and 2009
Design MLT 150-88-C "Gorilla" Class
Classification A. B. S. A-1 self elevating drilling unit

MAIN DIMENSIONS

Length 297'
Breadth 292'
Depth 30'
Legs 3 x 504' triangular
Leg Spacing Transverse 214'/longitudinal 189'
Cantilever Aft 52' (60' with Extensions / 15' x 15' Transverse)
Spud Cans 66" diameter x 39" height
Deck Area 42,265 sq. ft.

DRAFT AND DISPLACEMENT

Transit Draft 19'
Transit Displacement 41,349.7 kips

MACHINERY

Main Power Total 6,588 KW from 4 x EMD 16-645-E8 engines rated at 2,200 HP each
Power Distribution 600/480/240/120 V AC, 60Hz, 750 V DC SCR system
Emergency Power 1 x 480 V AC, 60 Hz, 850 KW generator

OPERATING PARAMETERS

Water Depth 328'
Maximum Drilling Depth 30,000'
Leg Penetration 25'
Air Gap 50'-110'
Transit Speed 4.5 knots
Survival Conditions wind: 100 knots; waves: 85"; wave period: 13 sec; temperature: 32 F
Criteria Design MODU code

DRILLING EQUIPMENT

Derrick Lee C Moore 160" x 30" x 30"; rated 1,500,000 lb gross nominal capacity
Drawworks National 1625-DE, 3,000 HP; Elmagco 15050 Baylor brake
Rotary National D-495, 49 1/2" opening, driven by EMD M-89 motor
Top Drive Varco TDS-4S with PH-85 pipe handler
Travelling National, 750 ton
Handling Varco AR 3200 Iron Roughneck
Cementing Dowell Schlumberger diesel driven (free placement)
Mud Pumps 3 x National Triplex 12-P-160, 1,600 HP
Drill Pipe 15,000' 5 1/2" HT-55 S-135 25.6 lb/ft.
Drill Collars 9 1/2"; 8 1/4"; 6 1/2"

HOISTING EQUIPMENT

Crane 3 x LeTourneau PCM-350-SS, 68 ton @ 18" radius, 1 x LeTourneau PCM-120-SS, 32 ton @ 40" radius

CAPACITIES

Variable Deck Load 10,315 Kips
Cantilever Load (Combined): 2,000 Kips
Total Drilling Load _
Tubulars in Pipe Rack 9,020 cu. ft.
Liquid Mud 2,399 bbls
Bulk Mud/Cement 8,486/8,486 cu. ft.
Sacks 5,000 sacks
Drillwater 13,619 bbls
Potable Water 1,397 bbls
Brine Storage _
Base Oil Capacity _
Fuel Oil 4,725 bbls
Watermaker _
Others _

WELL CONTROL SYSTEMS

BOP 1 x Shaffer 21 1/4" x 2000 Psi Annular, 1 x Shaffer LWS 21 1/4" 2000 Psi Double Ram, 1 x Hydril GX 13 5/8" x 5000 Psi Annular, 1 x Cameron Type U 13 5/8" x 10,000 Psi Double Ram, 1 x Cameron Type U 13 5/8" x 10,000 Psi Single Ram, 1 x Hydril GX 13 5/8" x 10,000 Psi Annular, 1 x Cameron Type U 13 5/8" x 15,000 Psi Double Ram, 1 x Cameron Type U 13 5/8" x 15,000 Psi Double Ram
BOP Handling 2 x 36 ton hoist and trolley handling system
Control System 1 x 850 gal, 3,000 psi air/electric powered BOP control system with 3 x control panels
Diverter 1 x ABB Regan KFDJ 49" 2,000 psi
TV System _
Choke and Kill 3 1/16" x 15,000 Psi c/w 2 fixed and 2 Manual Chokes

MOORING

Winches 4 x Marathon LeTourneau / W1500
Wire 4 x 2,500" x 1 1/2" diameter wire
Anchors None

HELIDECK S-61r

JACKING AND SKIDDING SYSTEM Marathon LeTourneau electromechanical rack and pinion system, 90"/hour
ACCOMMODATION 106 berths

ADDITIONAL DATA

Mud cleaning facilities: 20 x 4" cones with 5 x Brandt VSM-300 Shale Shakers; Desilter - 16 x 4" Cones