



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: ABS A-1 self elevating drilling unit

MAIN DIMENSIONS

Length: 297ft
Breadth: 292ft
Depth: 30ft
Legs: 3 x 503ft SQUARE TRUSS
Leg Spacing: Transverse 210ft/longitudinal 189ft
Cantilever: Aft 52ft (60ft with Extensions/15ft x 15ft Transverse)
Spud Cans: 66" diameter x 39" height
Deck Area: 42,265ft²

DRAFT AND DISPLACEMENT

Transit Draft: 19ft
Displacement: 50,507Kips (Transit)

MACHINERY

Main Power: 4 x EMD 16-567-E8DF engines x Total 6,588kw x 2,100Hp
Power Distribution: 600/48/220/120V @ 60Hz
Emergency Power: 1 x Cat D3512 600V AC, 60Hz, 1100kw Generator

OPERATING PARAMETERS

Water Depth: 328ft
Drilling Depth: 25,000ft (Maximum)
Length Below Hull: 50ft (North sea)
Air Gap: 50ft – 110ft
Transit Speed: 4.5Knots
Survival wind: 100knots; waves: 78ft; wave period:
Conditions: 13 secs; temperature: 28°F
Criteria Design: MODU code 79

DRILLING EQUIPMENT

Derrick: Lee C Moore 160ft x 30ft x 30ft x 1,500,000/bs gross nominal capacity.
Drawworks: National 1625-DE x 3,000hp; Elmagco 15050 Baylor brake.
Rotary: National D-495 x 49-1/2" opening, driven by EMD M-79 motor.
Top Drive: Varco TDS-4S with PH-85 pipe handler.
Travelling: National x 750Tons.
Handling: Varco AR 3200 Iron Roughneck.
Cementing: Dowell Schlumberger diesel driven (free placement).
Mud Pumps: 3 x National Triplex 12-P-160 x 1,600Hp
Drill Pipe: 16,000ft x 5-1/2" FH VAM CDS Range 3 S-135 24.7lb/ft.
Drill Collars: 9 1/2"; 8 1/4"; 6 3/4"

HOISTING EQUIPMENT

Craneage: 3 x LeTourneau PCM-350-SS x 60T @ 18ft radius, 1 x LeTourneau PCM-120-x 32T @ 40ft radius.

CAPACITIES

Variable Deck Load: 9,539Kips
Cantilever Load: 2,000Kips (combined)
Tubulars in
Pipe Rack: 9,020ft³
Liquid Mud: 2,399bbls
Bulk Mud/Cement: 8,486ft³/8.486ft³
Sacks: 5,000 sacks
Drill water: 14,681bbls
Potable Water: 1,397bbls
Brine Storage: 1,493bbls
Fuel Oil: 4,725bbl

WELL CONTROL SYSTEMS

BOP: Hydril x 21 1/4" x 2,000Psi Annular, Cameron "U" x 21 1/4" x 2,000Psi Double Ram. Hydril GX x 13-5/8" x 5,000Psi Annular, Cameron "U" x 13-5/8" x 10,000Psi Double Ram with FXT shear bonnets, Cameron "U" x 13-5/8" x 10,000Psi Single Ram.
BOP Handling: 2 x 37.5Tons hoist and trolley handling system.
Control System: Koomey T60570 – 3S
Diverter: 1 x ABB Regan KFDJ x 49 1/2" x 2,000Psi.
Choke and Kill: 3-1/16" x 15,000Psi with T3 remote and manual chokes.

MOORING

Winches: 4 x Marathon LeTourneau / W1500
Wire: 4 x 2,500ft 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 100Hp Brandt Desilter; 5 x Brandt NOV VSM-300 Shale Shakers
 Watermaker: Included
 TV System: 2 x derrick, 1 x shakers, 1 x flow line, 1 x substructure/BOP