

ENSCOROWAN

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ENSCO 88

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): Penrod 88
Year Built: 1982
Builder: Marathon LeTourneau, Brownsville, Texas-USA
Upgrade: October 2013
Design: Marathon LeTourneau 82-SD-C Jackup
Classification: ABS A-1 self-elevating drilling unit

MAIN DIMENSIONS

Length: 207.3 ft
Breadth: 176 ft
Depth: 20 ft
Legs: 3 x 360 ft; triangular truss
Length below hull: 309 ft
Leg Spacing: Longitudinal: 121 ft; transverse 120 ft
Cantilever: Cantilever structure can extend rotary 40 ft from stern (+10" extension); and 12 ft transverse rotary movement each side of centerline
Spud Cans: 40" across x 21.4" deep
Deck Area:

DRAFT AND DISPLACEMENT

Transit Draft: 12 ft
Displacement: 7,096 mt (15,613 kips) (Transit)

MACHINERY

Main Power: 4 x EMD 12-V-645-E8 engines x 4,950 HP; EMD AB20-6 x 1,180 kW generators
Power Distribution: Baylor Thyrig III PM power conversion and control system
Emergency Power: 1 x Caterpillar 3500 series x 968 kW, 1800 rpm, 480V

OPERATING PARAMETERS

Water Depth: 250 ft (15 ft – 250 ft)
Drilling Depth: 25,000 ft (Maximum)
Length below hull:
Air Gap: 60 ft
Transit Speed: 5 knot field; 3 knot ocean
Survival Conditions: wind 70 knots
Criteria Design: wave 40 ft; wind 70 knots; air gap 30 ft; water 250 ft; atmosphere: 14°F; water temp: 28°F

DRILLING EQUIPMENT

Derrick: Standard 160 ft x 30 ft x 30 ft x 1,000,000 lbs gross nominal capacity
Drawworks: National 1320-UE 2,000 HP, direct electric brake
Rotary: National C-375 x 37 1/2" independent electronic drive
Top Drive: Varco TDS-4H
Travelling: National 660-H-500, hook National H-500, swivel National P-650
Handling: VARCO ST-80 I/R PH-85 TDS Pipe Handler
Cementing: NPS cementing unit (free placement only)
Mud Pumps: 2 x National 12-P-160 triplex x 1,600 HP
Drill Pipe: 2-3/8" x 285 joints; 4" x 449 joints.
5" x 320 Jts
4" x 62 joints
HWDP: 4" x 62 joints
Drill Collars: 3-3/8" DC x 24 joints; 4-3/4" DC x 12 joints

HOISTING EQUIPMENT

Craneage: 3 x Marathon Le Tourneau PCM-120 AS
45 mt @ 25 ft; 100 ft boom length.

CAPACITIES

Variable Deck Load: Transit: 1,728 kips, Drilling: 4,166 kips, Survival: 1,087 kips (SNAME)
Cantilever Load: 500,000 lbs
Total Drilling Load: 1,450,000 lbs
Tubulars in Pipe Rack: 4,260 ft²
Liquid Mud: 1,693 bbl
Bulk Mud/Cement: 7,700 ft³ (4 x 1,925 ft³ silos)
Sacks: 2,000 sacks
Drill water: 6,630 bbl (12,193 bbl-combination tanks)
Potable Water: 983 bbl
Brine Storage: 1,400 bbl
Base Oil Capacity:
Fuel Oil: 2,059 bbl

WELL CONTROL SYSTEMS

BOP: Shaffer Spherical 13-5/8" x 5,000 psi annular x Cameron U Double 13-5/8" x 10,000 psi ram, Cameron U single 13-5/8" x 10,000 psi ram
BOP Handling: J.D. Neuhaus 2 x 37-1/2 sT capacity
Control System: CAD Oilfield closing unit, Model CAD3001276078EU2, API Monogrammed Workover
Diverter: Derrick cameras (monkey board and stabbing board) / shale shakers
TV System: Derrick cameras (monkey board and stabbing board) / shale shakers
Choke and Kill: 4-1/16" x 10,000 psi Valves 2 Swaco Super hydraulic choke 2 x CIW 10,000 psi 3-1/16" H2S trim hydraulic choke valves; 2 x 10,000 psi 3-1/16" H2S trim manual choke valves

MOORING

Winches: None
Wire: None
Anchors: None

HELIDECK

S-61; or equivalent 20,500 gross lb CAP 437 compliant except for crash impact factor

JACKING AND SKIDDING SYSTEM

Rack and pinion (jacking and cantilever) Hydraulic Gripper (transverse skidding)

ACCOMMODATION

102 berths

ADDITIONAL DATA

Sewage treatment: OMNIPURE 12 MC; Life-saving equipment: 2 x 65 man survival capsules Beihai BH-9/Alexander/Ryan; Fast RSQ 475 fast rescue boat 6 persons; Solas approved 10 x 25 man life rafts;
Shale Shakers: 3 x Derrick Series 514 Flo-Line cleaner linear motion Shaker; Desander: Derrick 3 x 10" cone x 1,500 gpm
Mud Cleaner: Derrick 20 x 4" cone x 1,000 gpm
Dolphin garbage compactor; MD-TOTCO / Rigsense 3.0 drillers console; Zero discharge (single point).
2 x Expro-Vertical Racking Flare Burner Booms
Watermaker: 2 x Alfa Laval, 2 x 2x Aqua Chem Matrix/ Reverse Osmosis Water maker S5300 – 5300 gpd