

ENSCOROWAN

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ENSCO 84

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): Penrod 84
Year Built: 1981
Builder: Marathon LeTourneau Shipyard, Singapore
Upgrade: 2013 NKOM Shipyard-Qatar
Design: Marathon LeTourneau Class 82 SD-C Jack up
Classification: ABS

MAIN DIMENSIONS

Length: 207 ft 4"
Breadth: 176 ft
Depth: 20 ft
Legs: 3 x 360 ft Triangular Truss
Leg Spacing: Longitudinal leg centers 121.67 ft; transverse leg centers 120 ft
Cantilever: Maximum 50 ft overhang from stern to rotary centerline; maximum 12 ft rotary displacement to either side of longitudinal centerline; drilling pattern length 50 ft (10 ft ext), width 24 ft
Spud Cans: 40 ft diameter x 21 ft high

DRAFT AND DISPLACEMENT

Transit Draft: 12 ft
Displacement: 15,610.70 kips (Transit)

MACHINERY

Main Power: 4 x EMD MD12-645 E8 engines, 1,650 HP each; 4 x EMD AB20-6, 1,180 kW x 600V generators
Power Distribution: Baylor Thyrig III PM 750 DC with 5 SCR Bays
Emergency Power: 1 x CAT 3512 B, 12 Cylinders 4-stroke Turbocharged and Air cooled, 1360 kW, 480V, generator set

OPERATING PARAMETERS

Water Depth: 250 ft (13 ft – 250 ft).
Drilling Depth: 20,000ft (Maximum)
Leg Penetration: 15 ft
Air Gap: 45 ft
Transit Speed: 3 knot average ocean, 5 knots field
Survival Conditions: 70 knot wind.
Criteria Design: 14°F, water temp: 28°F, wind: 75 Knots, wave height 40 ft

DRILLING EQUIPMENT

Derrick: Dreco Beam leg x 160 ft x 30 ft x 30 ft x 1,000,000 lbs
Drawworks: National 1320-UE x 2,000 HP; Baylor 7838 brake
Rotary: National C-375 x 37-1/2" opening, driven by 1 x EMD D79 electric motor x 800 HP
Top Drive: Varco TDS-4H rated 650 mt w/PH 85
Crown: National 760FA /Rated Capacity x 583 Ton x 7 sheaves grooved for line size 1- 3/8"
Travelling: National 660H500 x 500 mt
Cementing: Halliburton, HT 400 RCM II, Diesel Skit unit, Hyd Power Pack Skid, LA Tank #1, #2, #3, #4, #5 (free placement only).
Mud Pumps: 2 x National 12P-160, triplex x 1,600 HP
Drill Pipe: 5" Range II G-105 10,000 ft w/ NC 50 connections & 4" XT-39 x 14,000 ft G-105 & 2 3/8" IF x 9,000 ft.
Drill Collars: 6-1/2", 4-3/4", 3-3/8"

HOISTING EQUIPMENT

Craneage: 3 x Le Tourneau PCM-120AS electric x 45 mt at 24 ft radius Boom cameras mounted

CAPACITIES

Variable Deck Load: (includes drilling load) 5,340 kips max mild weather

Cantilever Load:

Total Drilling Load: 1,000 Kips
Tubulars in Pipe Rack: 4,260 ft³
Liquid Mud: 1,545 bbl
Bulk Mud/Cement: 8,981 ft³
Sacks: 2,500 sacks
Drill water: 5,464 bbl
Potable Water: 983 bbl
Brine Storage: 1,400 bbl
Base Oil Capacity: 1,166 bbl
Fuel Oil: 2,276 bbl

WELL CONTROL SYSTEMS

BOP: NOV 13-5/8" x 5,000 psi annular; 1 x Cameron "U" single ram preventer 13-5/8" x 10,000 psi; 1 x Cameron "U" double ram preventer 13-5/8" x 10,000 psi (Blind Shear)
BOP Handling: 2 x LeTourneau electric 120,000 lbs
Control System: Shaffer / T330 30 3; 1 x 288 gal, 3,000 psi BOP Control System x 2 control panels.
Diverter: 1 Shaffer 30" 1,000 psi 1 x Hydril 21-1/4 2,000 psi
CCTV System: Rolloos CAMPRO IP CCTV x 6 ea Cameras and 2 ea Monitors
Choke and Kill: T-3 3-1/16" x 10,000 psi with 2 x MI Swaco hydraulic, 2 x manual

MOORING

Winches: None
Wire: None
Anchors: None

HELIDECK

S-61; 70ft diameter.

JACKING AND SKIDDING SYSTEM

LeTourneau A.C. Motor 1.5ft/min.

ACCOMMODATION

96 berths

ADDITIONAL DATA

Single Point discharge; Rotating mouse-hole Iron Roughneck; FM100; Sewage treatment: Redfox Model RF-200-M; Life Saving Equipment: 2 x 58 man.
Watercraft Survival capsules, 8 x 25 man SOLAS approved life rafts.
Rescue Boat: Watercraft FRC Rescue Craft;
Desander: Derrick 20 x 4" Cones 1000 gpm
Mud cleaner: 3 x 10" Cones
Garbage Compactor: Dolphin Model 40cf;
Rig Sense: MD Totco ver 2.0 SP4
Vortex Dustless Mixing Hoppers
Watermakers: 1 x Specific Aqua-Chem Matrix Model S 5300. 1 x Specific Aqua Chem Model SP11-20202 Production: 21,100 GPD