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ENSCO 85

GENERAL INFORMATION

Flag Bahamas
Previous Name(s) Penrod 85
Year Built 1981
Builder Marathon Le Tourneau
Upgrade 1995, 2002
Design Marathon Le Tourneau Class -116-C
Classification ABS-A1-MODU

MAIN DIMENSIONS

Length 243' (299.5' including Helideck)
Breadth 200'
Depth 26'
Legs 3 x 410' - Square Truss
Leg Spacing Transverse 142' / longitudinal 129'
Cantilever Aft 45' (52' extension)/12' x 12' transverse
Spud Cans 46' diameter x 24' height
Deck Area 8,000 sq. ft. (including cantilever)

DRAFT AND DISPLACEMENT

Transit Draft 16'
Transit Displacement 23,442.52 kips

MACHINERY

Main Power Total 4,760 KW from 2 x EMD 12-645-E9B turbo each rated at 2,500 HP and 1 x EMD 12-645-8 Rootes Blown diesel rated at 1,650 HP
Power Distribution 600/480/240/120 V AC, 60 Hz, 750 V DC SCR system
Emergency Power 1 x 480 V AC, 60 Hz, 350 KW generator

OPERATING PARAMETERS

Water Depth 300'
Maximum Drilling Depth 25,000'
Leg Penetration 25'
Air Gap 45' - 110'
Transit Speed 4.5 knots
Survival Conditions Water depth 300'; waves 84'; wind 100 knots; current 0 knots
Criteria Design Air: 14 F; water 32 F (no ice)

DRILLING EQUIPMENT

Derrick Dresco Beam Leg 170' x 30' x 30'; max hook load 1,333,000 lb
Drawworks National 1320-UE, 2,000 HP, Baylor 7040 electric brake with battery back up and integrated block anti-collision system
Rotary National C-375 independent electric
Top Drive Varco TDS-4H with "Soft Torque" control
Travelling National B-500; hook: National H-500; swivel: National P-650
Handling Varco AR 3200 Iron Roughneck
Cementing Free placement
Mud Pumps 3 x National Triplex 12-P-160, 1,600 HP
Drill Pipe 15,000' 5 1/2" S-135, 24.7 lb/ft. HT55
Drill Collars 9 1/2"; 8"; 6 1/2"

HOISTING EQUIPMENT

Crane 1 x Dresco 48 DNS 120 15, 40.75 ton @ 40' 2 x MLT PCM-120 AS, 32 ton @ 40'

CAPACITIES

Variable Deck Load 6,380 kips
Cantilever Load 1,250 kips
Total Drilling Load 1,250 kips combined total
Tubulars in Pipe Rack 800 kips (setback 450 kips)
Liquid Mud 1,824 bbls
Bulk Mud/Cement 9,950/0 cu. ft. combined
Sacks 2,500 sacks
Drillwater 8,985 bbls
Potable Water 1,294 bbls
Brine Storage 614 bbl (brine/base-oil)
Base Oil Capacity 1,905 bbl (incl 614 bbl brine/base-oil tank)
Fuel Oil 7,360 bbls
Watermaker 2 x Alpha Laval D-PU-36-C100/125
Others 2 x Alfa Laval desalination plant, capacity 1,300 gpd

WELL CONTROL SYSTEMS

BOP 21 1/4" Hydril MSP 2,000 psi; Cameron 21 1/4" double ram unit 2,000 psi; 1 x Cameron 13 5/8 "U" double ram with shear booster, 10,000 psi and 1 x Cameron "U" single ram, 10,000 psi; 13 5/8" Hydril GL 5,000 psi single
BOP Handling 2 x Marathon LeTourneau electric hoist dual handling capabilities rated @ 54MT
Control System Koomey 160-11S type 80 uni
Diverter 1 x Regan KFDJ 27 1/2" (2,000 psi)
TV System _
Choke and Kill 3-1/16" x 10,000 psi with 2 Shaffer remote operated chokes

MOORING

Winches 4 x MLT W-1500 TS
Wire 4 x 2,600' x 1 1/2" diameter wire
Anchors 1 x 5 ton

HELIDECK

S-61
JACKING AND SKIDDING SYSTEM Electromechanical rack and pinion 1.5'/min, elevating capacity 16,200 kips skidding system: electric rack and pinion for forward and aft & hydraulic grip system for transverse

ACCOMMODATION

ADDITIONAL DATA

4 x MI/Swaco BEM650 Elliptical Motion Double Deck Combo Shale Shaker
1 x Derrick Hi G dryer are installed; lifesaving equipment: 2 x 58 man and 2 x 50 man lifeboat; 4 x 25 man life raft; 100 T Capacity 4 ram Riser Tensioner System, zero discharge capability (single point), simultaneous drilling and production modified for concurrent operations; rotating mouse hole