SONGA DEE
HARSH-ENVIRONMENT SEMI-SUBMERSIBLE

General Description

Design / Generation: Mitsubishi type MD-602 enhanced design
Constraining Shipyard: Mitsubishi Heavy Industries Ltd. Japan
Year Entered Service / Significant Upgrades: 1984
Classification: DNV A1 Column Stabilized Drilling Unit (N)
Flag: Marshall Islands
Dimensions: 112 m long x 68 m wide (main deck)
Drafts: 20.0 m operating / 6.8 m transit / 16.0m survival
Accommodation: 116 persons
Displacement: 28,865 mt
Variable Deck: 4,300 mt operating / 3,350 mt transit
Transit Speed: up to 6 knots
Maximum Water Depth: 458 m
Maximum Drilling Depth: 9,143 m

Drilling Equipment

Derrick: Maritime Hydraulics 48.8m (16ft) high 46ft x 46ft
Hookload Capacity: 1.2MM lbs load capacity
Drawworks: 3000HP Continental Emsco. C311 driven by 3x NEBB DC motors fitted with Elmacgo brake and MH Crown and Floor Saver System
Compensator: MH 270/20 crown mounted 20 ft stroke 600,000lbs heave compensator
Rotary Table: Continental Emsco 49 ½
Top Drive: MH DDM 650, hydraulic driven. Max continuous output torque 50,000 ft/lbs
Tubular Handling: Future catwalk and MH pipe handling system
Mud Pumps: 3 x Continental Emsco FB-1600, 1600 HP Triplex pumps
HP Mud System: 5000PSI working pressure
Solids Control: 4 x Thule shakers

Power & Machinery

Main Power: 2 x 3060 BHP Nohab diesel (2,100 kw) max cont load. 2 x 4080 BHP Nohab diesel (2,800 kw) max cont load
Emergency Power: Hedemora V12A/12 diesel coupled to a NEBB type emergency generator
Power Distribution: 10 x SCR

Storage Capacities

Fuel Oil: 1308 m³
Liquid Mud: 524 m³
Brine: 320 m³
Drill Water: 1687 m³
Potable Water: 398 m³
Bulk Material (barite/bentonite): 303 m³
Sack Storage: 110 m³

BOP & Subsea Equipment

BOP Rams: CIW 18-3/4 15Ksi H2S Service2 CIW U11 double rams preventers
BOP Annulars: Upper annular preventer, CIW type "D" 18-3/4" x 10M, 10M studded top with BX164 gasket, CIW No. 26 hub bottom with CX18 gasket
BOP Handling: 1 x 220 ton SWL BOP Transporter
Marine Riser: 36 x 50 ft Riser Joints 15,000 psi WP Type FCH-8 connectors. Riser Joints fitted with buoyancy elements
Tensioners: 12 x 80K NL Shaffer, 60 ft line travel
Diverter: Regan KFDS with 16" flowline and 10" overboard lines
Tree Handling: Future with skid rails
Moonpool: 80 x 23.5 ft (24.4m x 7.16m)

Station Keeping / Propulsion System

Thrusters: 4 x NEBB 2960 BHP Motor supply. 4 x 24000 BHP controllable azimuthing thrusters (Integral part of the SDPM)
Mooring System: 2 x Norwinch triple Forward, 2 Norwinch double Aft

Cranes

Cranes: Port Crane Liebherr BOS 2600-75 D diesel hydraulic (Whip line 15tons at 50m. Starboard crane National Oilwell series 4000 hydraulic knuckle boom, whip line 15tons at 45m

Other Information

Helideck: Rated for Sikorsky S-61 or S-92 and Super Puma helicopters

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These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

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