

Songa Offshore AS



Songa Saturn

Drillship
(3,280 ft. water depth)
(3,800 ft Capacity Q-4 2009)

Rig and Equipment Overview

EQUIPMENT SPECIFICATIONS

The SONGA SATURN is a shipshape drilling unit, capable of operating in water depths up to 3,280 feet (**3,800 ft Capacity Q-4 2009**) using a 18-3/4", 10 ksi BOP and 21"OD riser.

General

Rig: Songa Saturn
Flag: Singapore
Owner: Songa Offshore AS
Previous names: Glomar Robert F Bauer
Year Built: 1983
Year Upgraded: 2006
Design: Global Marine
Builder: Keppel Fels Ltd
Classification: ABS

Main Dimensions/Draft/Displacement

Length: 417.1 ft (127.13 meter)
Breadth: 96 ft
Depth: 35 ft
Operating Draft: 24.5' to 26'
Ocean Transit draft: 26'
Storm Draft: 26'
Operating Disp: 17165 tons
Ocean Transit Disp: 17165 tons

Machinery

Main Power: 5 EMD 16-645-E9B diesel engines at 2925 bhp, 2625 kva, 600 VAC generators
Power Dist.: Ross Hill SCR 750 VDC
Emerg. Power: Detroit 12V-149, 600 kw, 480 VAC
Propulsion: 2 fixed pitch variable speed reversing propellers each powered by three 1600 hp DC motors (9,600 hp total)
Craneage: 2 Liebherr BOS 30-300D, 60 ft booms, rated for 30 tons at 20 ft rad, 1 Liebherr BOS 65-550D, 70 ft boom, 65 tons at 25 ft rad & 1 Liebherr 1400-60, 50 metric ton hydraulic crane

Operating Parameters

Max Water Depth: 3,280 ft.
Max Drilling Depth: 25,000 ft
Transit Speed: 10 kts
Operating Conditions: 20' max wave height at 10 sec period with 57.5Knots wind and 1.5 knots current
Storm Conditons:
Design Conditions:

Drilling Equipment

Derrick: 190 ft x 62 ft x 39 ft Enfab, static hook 1,200,000 lbs with 14 lines
Drawworks: National 1625DE, 3000 hp
Rotary: National C-495, 49-1/2"
Top Drive: Maritime Hydraulics DDM-750/1000-AC
Travelling Block:
Hook: n/a
Swivel: n/a
Drillpipe: 5-1/2"
Drill Colars: 9.5", 8.25", 6.75", 4.75"
Pipe Handling: MH 2 arm
Motion Compensator: Shaffer motion compensator, 600k, 25 ft stroke
Cementing Unit: by Operator
Mud Pumps: 3 x National 12-P-160, 1,600 hp triplex
Shale Shakers: 4 x Axiom AX-1
Desilter: Brandt SR-2
Mud Cleaner: 2 x Sweco HCH mud cleaner

Capacities

VDL - Operating: 6775 LT
VDL - Storm: same
VDL - Ocean Transit: same
Liquid Mud: 677 bbl active & 3,000 bbl reserve: total capacity 3677 bbls
Bulk Mud: 16,900 cu ft
Bulk Cement: 7,415 cu ft
Sack Material: 15,000 cu ft
Drillwater: 23,751 bbls
Potable Water: 1,143 bbls
Fuel Oil: 12,254 bbls
Pipe Racks:
Others:

Mooring

Winches: 6 skagit ETW 300/44, 640k max line pull
Wire/Chain: 8 lines each with 2000' of 2 3/4" ORQ chain and 7850' of 2-3/4" wire rope
Anchors: 8 each Stevpris Mk 3
Positioning: KONGSBERG (HIPAP 350)

Subsea Systems

BOP: Hydril Type GL 5000 psi annular, 2 x Cameron Ull 10,000 psi double ram preventers with Vetco H4 style E connector
LMRP: Collet model 70 connector, Hydril GL 5000 psi, Regan C.R. ball joint
BOP Handling: hydraulic tract type
Control System: Koomey Type 80
Riser Details: Regan FCH-8 x 21" OD
Choke & Kill: 2-9/16" ID x 10 ksi with 4 chokes
Diverter: Oil States 21" w/flex joint
Riser Tensioners: 10 x 80k shaffer riser tensioners
(10 x 120k FMC tensioners to be installed Q-4 2009)
Guideline Tensioner: NA
Pod Tensioner: NA
TV System: NA

Other

Moonpool: 26' x 26'
Helideck: 73' x 73' for Sikorski S92
Accommodations: 120 persons

These specifications are intended for general reference purposes only as the actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs.