

Songa Offshore AS



Songa Venus

Semi-Submersible

Rig and Equipment Overview

EQUIPMENT SPECIFICATIONS

The Songa Venus is an F&G L-900 design semisubmersible drilling unit, capable of operating in water depths up to 1,500 feet using a 18-3/4", 10 ksi BOP and 21"OD riser.

General

Rig: SONGA VENUS
Flag: Marshall Islands
Owner: Songa Offshore AS

Previous names: Western Oceanic "Pacesetter II" and IPC "Mata Redonda"

Year Built: 1975
Year Upgraded: 2005 & 2006
Design: F & G L-900
Builder: Bethlehem Steel Corporation
Classification: ABS

Main Dimensions/Draft/Displacement

Length: 260 ft
Breadth: 217 ft
Depth: 111 ft (base line to main deck) 20 ft (lower hull)
Columns: 6 circular columns 32 ft diameter w/4 18ft aux columns
Pontoons: 260 ft (L) x 50 ft (W) x 20 ft (D)
Operating Draft: 60 ft
Ocean Transit draft: 19' 9"
Storm Draft: 45 ft
Operating Disp: 23,058 MT
Ocean Transit Disp: 15,164 MT

Machinery

Main Power: 4 x EMD 16-645 E8, 1950 bhp ea.

Power Dist.: Ross Hill SCR system
Emerg. Power: CAT 3512, 600 Kw, 1,200 rpm
Propulsion: Not self propelled

Cranage: 1 x Natl. 120' boom /35 t & 1 x 80' boom /56.7 t 1 x Seatrax 120' boom/45t

Operating Parameters

Max Water Depth: 1,500 ft
Max Drilling Depth: 25,000 ft
Transit Speed: avg 5.5 knots on wet tow
Operating Conditions: Max wind = 40 knots
Storm Conditions: Max Wave = 100 ft Max Wind = 115 knots

Drilling Equipment

Derrick: LC Moore 180ft cantilever mast with 40ft base, Static hook load of 1,200 kips
Drawworks: National 1625-DE with 1 1/2" drill line
Rotary: National D-495 with 49 1/2" opening
Top Drive: Tesco ECI 650 ton
Traveling Block: WCI 650 traveling blk with 60" sheaves
Hook: N/A, 500 t Becket installed
Swivel: National P-650
Drillpipe: 5 1/2" S-135, 21,9 ppf
Drill Collars: 9 1/2", 8 1/4" & 6 1/2"
Pipe Handling: Maritime Hydraulics Iron Roughneck & Pipe Racking
Motion Compensator: Rucker drillstring compensator model 18718, 600k compensating 18 ft
Cementing Unit: Client provided BJ unit
Mud Pumps: 3 National 12-P-160
Shale Shakers: 3 - Axiom AX-1

Capacities

VDL - Operating: 3148 LT
VDL - Storm: 2745 LT
VDL - Ocean Transit: 862 LT
Liquid Mud: 1,931 bbls
Bulk Mud: 5,850 cu ft (operating) 6,048 cuft (rated)
Bulk Cement: 5,850 cu ft (operating) 6,048 cuft (rated)
Sack Material: 6,000 sacks
Drillwater: 12,114 bbls
Potable Water: 1,221 bbls
Fuel Oil: 10,122 bbls
Pipe Racks: 6,240 sq. ft. with 975 L ton capacity

Mooring

Winches: 4 x National double D-503 w/ 1x800 hp motors
Wire/Chain: 8 x 3" x 4,500 ft chains w/ 3" pendent lines
Anchors: 8 x Stevpris NG 9t
Positioning: NA

Subsea Systems

BOP: 18-3/4" 10,000 psi stack consisting of:
 2 x CIW type U Doubles,
 1 x Hydril type GL5,000 psi Annular

LMRP: Oil State Flex Joint
 2 x Hydrill Type GL 5000 psi annular
 Cameron Connector HC 70

Other

Moonpool: 19 ft x 14 ft
Helideck: Certified for Sikorski-S-92 + Cap 437
Accommodations: 110 people

BOP Handling: 2 x 80 ton Lee C Moore bridge cranes
Control System: Koomey hydraulic
Riser Details: 1,000 ft of 21-1/2" Regan w/ 2 x 10ksi C&K
Choke & Kill: 10,000 psi 3 1/16 ID
Diverter: Regan KFDS-3, 49-1/2"
Riser Tensioners: 8 x Rucker 80 kips ea with 50 ft line travel
Guideline Tensioner: 4 x Rucker 16 kips
Pod Tensioner: 2 x Rucker 16 kips
TV System: Osprey System

EQUIPMENT SPECIFICATIONS

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.