

GSF DEVELOPMENT DRILLER I

ULTRA-DEEPWATER SEMI-SUBMERSIBLE



**For additional information
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General Description

Design / Generation	Friede & Goldman, Ltd.
Constructing Shipyard	Jurong, Singapore
Year Entered Service / Significant Upgrades	2005
Classification	ABS, A1, AMS, DPS-2
Flag	Vanuatu
Dimensions	244.2 ft. long x 244.2 ft. (main deck)
Drafts	65.6 ft. operating / 26.9 ft. transit
Accommodation	170 persons
Displacement	46,507 lt. load line / 27,103 lt. light ship
Variable Deck	15,432 kips operating / 15,432 kips transit
Transit Speed	up to 6 knots
Maximum Water Depth	7,500 ft. designed / 7,500 ft. outfitted
Maximum Drilling Depth	37,500 ft.

Drilling Equipment

Derrick	Bailey, 228 ft. high, with 52 ft. long, 57 ft. wide base
Hookload Capacity	2,000,000 lbs. maximum rated static hook load (combined)
Drawworks	(Main) NOV / Hitech AHD 1000 with 6 x 1150 hp electric motors; 2,000,000 lbs rated with 2 inch drilling line (Aux) NOV / Hitech AHD 500 with 4 x 1150 hp electric motors; 1,000,000 lbs rated with 1-3/4 inch drilling line
Compensator	(Main) Active heave drawworks, see above (Aux) Active heave drawworks, see above
Rotary Table	(Main) Varco RST-605, 60 inch hydraulic, 1,000 st. static. (Aux) Varco RST-495 49-1/2 inch, hydraulic, 500 st. static.
Top Drive	(Main) Hydralift HPS-1000 2E(AC) 1,000 st. capacity, with 2 x GEB AC 1,150 hp. motors, rated to 78,450 ft.-lbs. maximum continuous drilling torque (Aux) Hydralift HPS-500 E(AC) 500 st. capacity, with 1 x GEB AC 1,150 hp. motor, rated to 62,500 ft.-lbs. maximum continuous drilling torque
Tubular Handling	1 x Hydralift ARN-166 Iron Roughneck and 1 x Hydralift Bridge Racker pipe racking system
Mud Pumps	4 x National 14-P-220 triplex 7,500 psi pumps, each driven by 2 x GEB-22A2 AC 1,150 hp. motors.
HP Mud System	Rated for 7,500 psi
Solids Control	2 x Swaco Gumbo-X primary scalper conveyor; 8 x Swaco BEM-650 cascading shale shakers

Power & Machinery

Main Power	8 x Caterpillar 3612 5,096 hp. diesel engines, each driving 1 x ABB AMG 0710 11,000 volts at 900 rpm generator.
Emergency Power	1 x Caterpillar 3516 2413 hp. diesel engine driving 1 x Caterpillar SR4B 1,370 kW generator.

Storage Capacities

Fuel Oil	20,855 bbl
Liquid Mud	7,233 bbls. Active / 12,087 bbls. Reserve
Base Oil	4,679 bbl
Brine	4,876 bbl
Drill Water	14,714 bbl
Potable Water	4,750 bbl
Bulk Material	(mud + cement) 27,395 cu.ft
Sack Storage	5,160 (50 lb) sacks

BOP & Subsea Equipment

BOP Rams	Hydril Compact 18-3/4 inch 15,000 psi; 6 x ram preventer; (2 x Hydril Compact doubles, 1 x Hydril Compact single, 1 x Cameron TL Single)
BOP Annulars	2 x Hydril GX Latch Head 18-3/4 inch 10,000 psi pressure annular preventers
BOP Handling	2 x Hydralift Gantry Cranes, 110.2 st. total capacity; 1 x Hydralift BOP Transporter 440 st. capacity
Marine Riser Tensioners	Kvaerner Clip 21 inch, 75 ft. per joint (nominal). 12 x Hydralift Inverted riser tensioners, 125 st. each; (150 inch stroke)
Diverter	Vetco CSO 20 inch, 500/1000 psi diverter with 16 inch flow lines
Tree Handling	N/A
Moonpool	140 ft. length x 28 ft. width

Station Keeping / Propulsion System

Thrusters	8 x 4,300 hp. thrusters, fixed pitch, azimuthing nozzled thruster (2 x corner)
DP System	Kongsberg Simrad SDPM DP-2+
Mooring System	8 x Bodewes electric 1,150 hp drum winches with 1 x GEB 22A2 AC motors/winch; 2 x Bridon Dyform DB2K 3-1/2 in x 10,500 ft. mooring lines; 8 x 3,260 ft. of 3-1/4 in. stud link chain

Cranes

Cranes #1 & #2	2 x Leibherr MTC 6000-150 Litronic; 173 ft. boom; 165 st. at 70 ft. radius.
Crane #3	1 x Hydralift KMCVCT 2806; 115 ft. boom; 11st at 115 ft. radius cranes.

Other Information

Helideck	Rated for EH101 helicopters, 83 ft. diameter
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Revision Date: 30 May 2017



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.

Patent Notice: This rig, its systems, components, and/or equipment in use on this rig, may be protected by one or more US and/or foreign patents.

