

# GSF Explorer



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## Ultra-Deepwater Drillship

### General Description

<b>Design / Generation</b> .....	GMDC/Hughes
<b>Constructing Shipyard</b> .....	Sun Shipbuilding and Drydock Co.
<b>Year Entered Service / Significant Upgrades</b> .....	1973
<b>Classification</b> .....	ABS A1 AMS+E DPS2 Drilling Unit
<b>Flag</b> .....	Vanuatu
<b>Dimensions</b> .....	619 ft. long x 116 ft. wide x 51ft. deep
<b>Drafts</b> .....	30 ft. operating / 38 ft. transit
<b>Accommodation</b> .....	160 persons
<b>Displacement</b> .....	55,978 lt. loadline
<b>Variable Deck</b> .....	23,533 st operating / 23,533 st transit
<b>Transit Speed</b> .....	up to 10 knots
<b>Maximum Water Depth</b> .....	7,800 ft. designed / 7,800 ft. outfitted
<b>Maximum Drilling Depth</b> .....	30,000 ft.

### Drilling Equipment

<b>Derrick</b>	Morinoak Intl. Ltd. dynamic derrick, 170 ft. high, with 61 ft. long, 41 ft. wide base.
<b>Hookload Capacity</b>	2,000,000 lbs. static hook load
<b>Drawworks</b>	National 2040 UDBE (L) 2,000,000 lbs. rated with 4 x GE 752 electric motors 5,000hp.
<b>Compensator</b>	Shaffer Crown Mounted Compensator 25 ft. stroke 2,000 kips static capacity active heave compensation
<b>Rotary Table</b>	National C- 495 49-1/2 inch with static load of 1,600,000 lbs.
<b>Top Drive</b>	Varco TDS 1000A 650 ton drilling capacity, with 62,500 ft. lbs. maximum drilling torque in low gear.
<b>Tubular Handling</b>	Varco PRS-41 Vertical Racker pipe racking system, complete with Varco AR3200 iron roughneck
<b>Riser Feed</b>	VMW elevator skate and cart.
<b>Mud Pumps</b>	3 x National Oilwell14-P-220 2,200 hp triplex pumps each driven by 2 x GE 752 Hi-Torque DC traction motors rated to 7,500 psi. 1 x National Oilwell 12-P-160 1,600 hp driven by 2 x GE 752 Hi-Torque traction motors rated at 5,000 psi.
<b>HP Mud System</b>	Rated for 7,500 PSI
<b>Solids Control</b>	4 x Axiom AX-1 shale shakers. 2 x Brandt DG-10 degassers

### Power & Machinery

<b>Main Power</b>	5 x EMD MD 16E9B diesel engines rated at 3,070 hp driving 1 x 2,200 kW 4,160 VAC generator; 4 x Nordberg FS-1316-HSC 4,900 hp diesel engines drive 1 x 3,500 kW 4,160 VAC generator.
<b>Emergency Power</b>	1 x Detroit diesel 16V149 825 kW diesel engine
<b>Power Distribution</b>	GE / Oulsen 1 X 1,000 kVA 4,160 input 480 output generator protection.

### Storage Capacities

<b>Fuel Oil</b> .....	48,380 bbls.
<b>Liquid Mud</b> .....	1,429 bbls. Active / 4,800 bbls. Reserve
<b>Base Oil</b> .....	1,618 bbls.
<b>Brine</b> .....	5,382 bbls.
<b>Drill Water</b> .....	46,806 bbls.
<b>Potable Water</b> .....	2,386 bbls.
<b>Bulk Material</b> .....	(mud + cement) 37,855 cu.ft.
<b>Sack Storage</b> .....	7,000 sacks

### BOP & Subsea Equipment

<b>BOP Rams</b>	Cameron TL 18-3/4 inch 15,000 psi; 1 x single ram preventer and 2 x double ram preventers.
<b>BOP Annulars</b>	2 x Shaffer SL 10,000 psi annular preventers.
<b>BOP Handling</b>	2 x Herculink BOP cranes 25 ton each. Victora Machine Works BOP handling system. 80 ton cart.
<b>Marine Riser</b>	Stewart & Stevenson Type SSQF-21 21inch OD. 75 ft. joints 2,000,000 lbs. connector load rating 7,950 ft. available.
<b>Tensioners</b>	10 x Shaffer 200 kip rating each. 12-1/2 ft. stroke with 50ft. wireline travel
<b>Diverter</b>	ABB Vetco 20 inch with a 500 psi rating and 14 inch flowline.
<b>Tree Handling</b>	Xmas tree trolley and Xmas tree skid carts;
<b>Moonpool</b>	74 ft. length x 42 ft. width.

### Station Keeping / Propulsion System

<b>Thrusters</b>	4 x LIPS Azimuth thrusters rated at 3,000 hp (retractable); 5 x tunnel thrusters; 2 x main propellers rated at 2,000 hp each. Fixed pitch
<b>DP System</b>	Nautronix L3 NMS6000 triple DPS-3 DGPS-1 Trimble DSM 232 GPS

### Cranes

<b>Cranes</b>	2 x Seatrax 7228 cranes with 110 ft. booms.
<b>Cranes</b>	1 x Seatrax 7228 crane with 100 ft. boom.
<b>Cranes</b>	1 x Seatrax 4220 crane with 90 ft. boom.

### Other Information

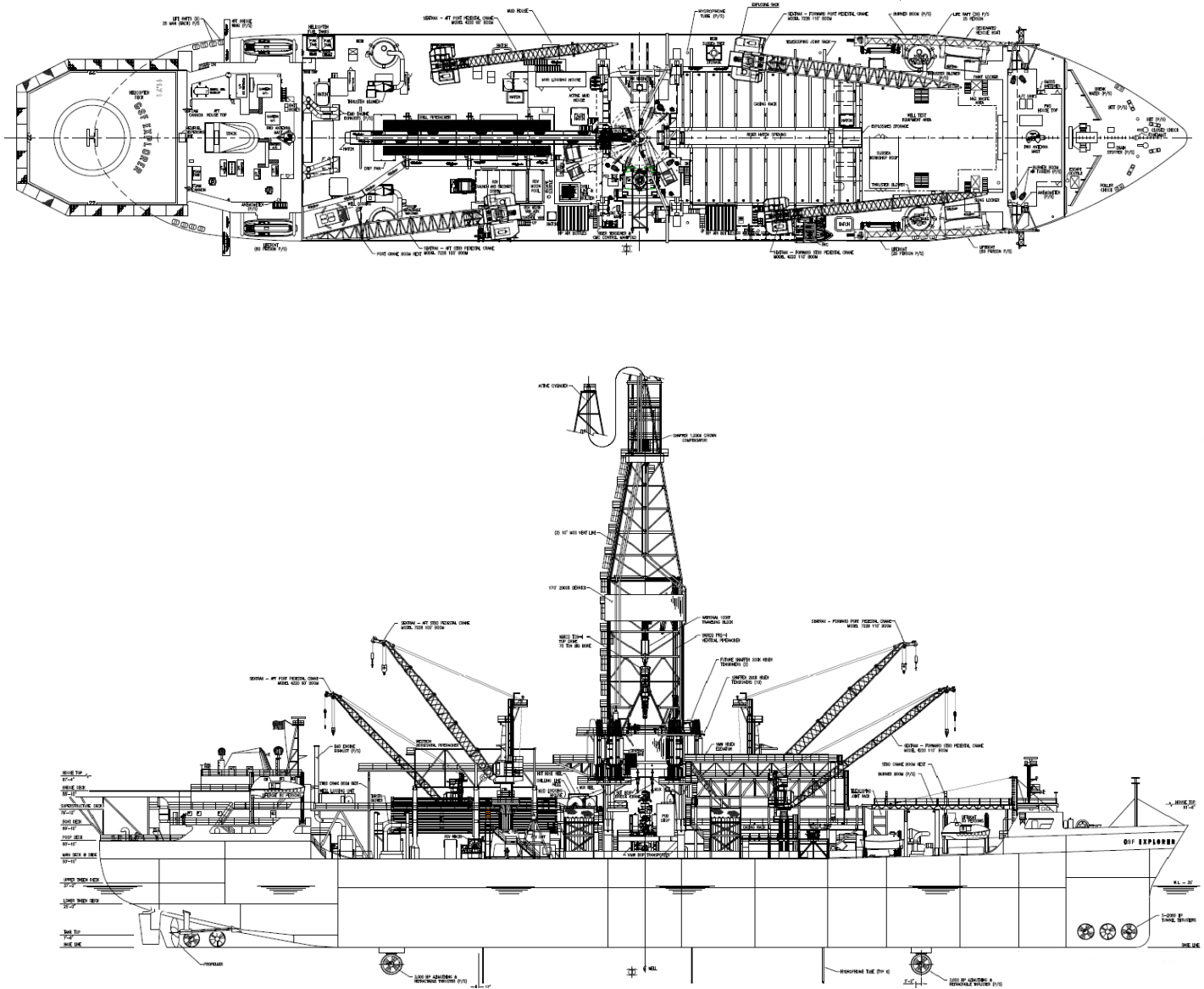
<b>Helideck</b>	Rated for Sikorsky S92 helicopters 90ft. x 75 ft. diameter
<b>Other</b>	N/A

Revision Date: 26 February 2015



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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