

GSF Galaxy I

Harsh Environment Deep Water Jack-Up

General Description

Design ..... Friede & Goldman L-780 Mod VI

Overall dimensions ..... 244 by 250 by 36 ft.

Legs (3) ..... 560 ft. long triangular

Quarters capacity ..... 120 persons

Operating water depth .....361 ft. (typical Central North Sea)
400 ft. (with site-specific approval)

Cantilever envelope ..... 55 ft. by 30 ft. (67 ft. with extension)

Maximum variable load (drilling) ..... 8,700 kips

..... 328 ft. WD; 90 knot wind; 1.5 knot current; 40 ft. wave

Drilling Equipment

Derrick	170 ft. by 40 ft. Brown Services, with a static hook load capacity of 1,600,000 lbs. with sixteen lines
Drawworks	National-Oilwell E-3000, 3,000 hp, driven by three GE 752 DC motors, with hydraulic disc brakes and a Baylor 7838 auxiliary electric brake
Rotary table	National D-495, with independent drive using a GE 752 DC motor with 2-speed transmission
Top drive	Varco model TDS-4H, with a GE 752 DC hi-torque motor, rated to 45,500 ft.-lbs. continuous drilling torque, complete with a PH-85 pipehandler and TDS/Block retraction system
Pipe handling	Varco BJ PHM-3i, 30,000 ft. drill pipe racking capacity, complete with integrated iron roughneck capable of braking connections up to 16 ft. above floor, rated at 100,000 ft.-lbs. makeup torque and 120,000 ft.-lbs. breakout torque
Mud pumps	Three National Oilwell 14-P-220, 2200 hp triplex pumps, each driven by two GE 752 hi-torque DC traction motors, upgradeable to 7,500 psi with plungers, adapters, and hi-pressure liners
Solids control	Two Brandt tandem screen scalping shakers cascading onto five Sweco LM-3 linear motion shakers, with one configured to take the underflow from two desilters, allowing it to function as a mud cleaner or fifth shaker as operations require

Storage Capacities

Liquid mud	4,619 bbl. including processing pit
Base oil	1,627 bbl.
Brine	1,627 bbl.
Bulk Material	18,200 cu. ft.

Power Equipment

DC	Five Ross Hill SCR units, 1,800 amps each, powering eleven GE 752 DC motors
AC	Four Cat 3606 diesel engines, 2,500 hp, driving four Kato 3,000 kva generators

BOP Equipment

Diverter	Drilquip 500 psi, 49-1/2 in. fixed diverter with two 16 in. discharge lines and two 16 in. hydraulically operated ball valves.
21-1/4 in. system	One Hydril type GL 5,000 psi annular preventer, one Hydril 5,000 psi double ram preventer and one Hydril 5,000 psi single ram preventer
13-5/8 in. system	One Hydril type GX 10,000 psi annular preventer and two Hydril 15,000 psi double ram preventers

Cranes

Three Manitex ML4800 HD/130 cranes, with 130 ft. booms, rated for 30.6 tons at 65 ft. radius

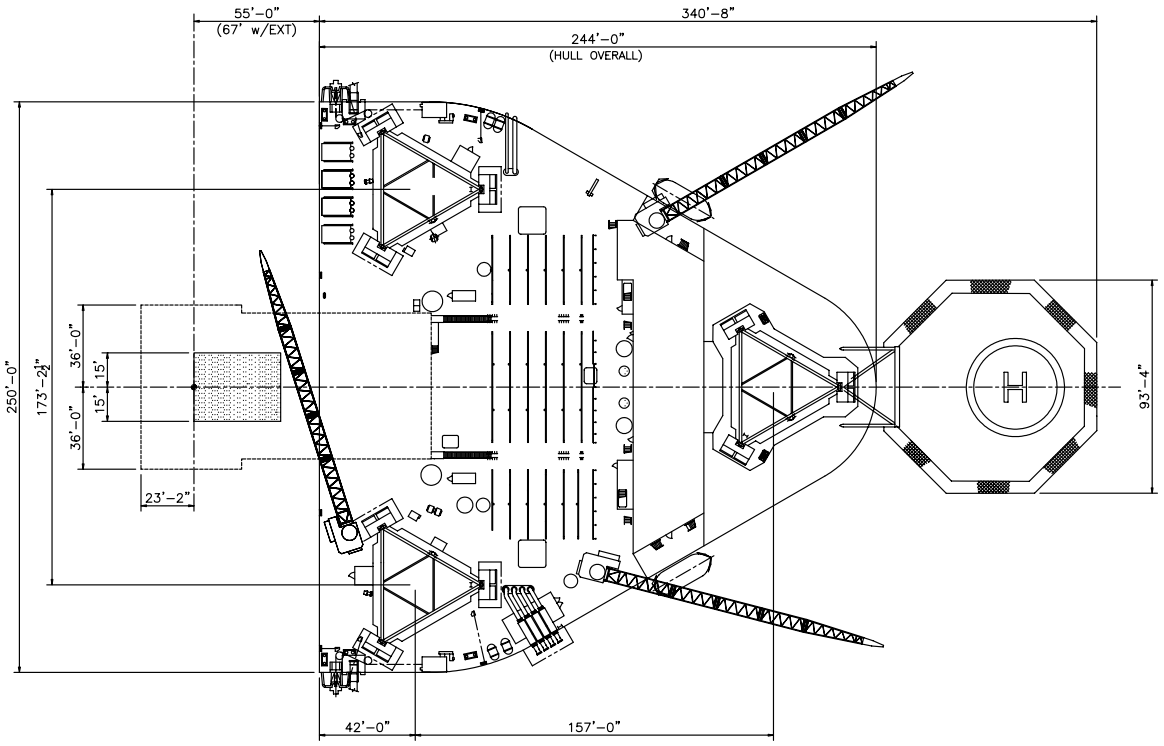
Special Features

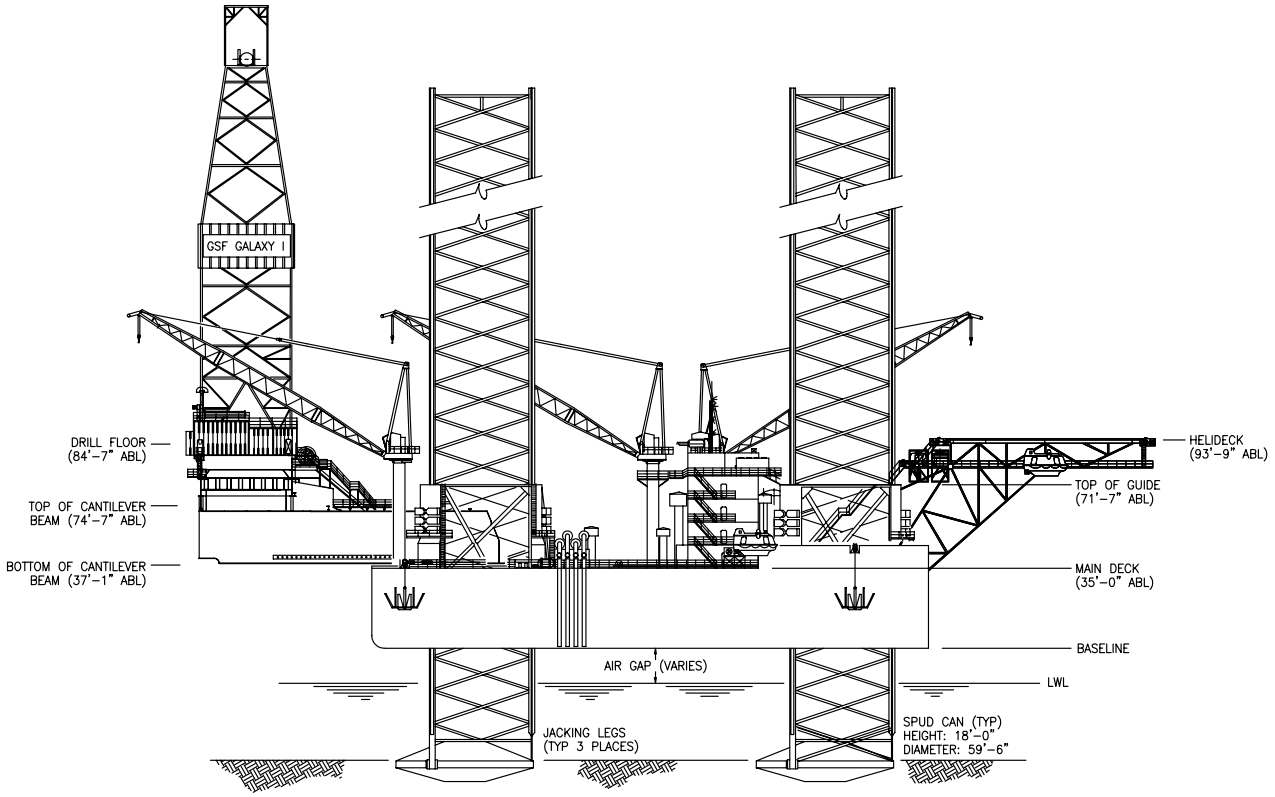
Tender mode	Drill floor/substructure can be skidded from cantilever onto an adjacent platform, up to 80 ft. beyond maximum cantilever reach
CTU	600 kip conductor tensioning unit positioned below the cantilever beams, provides tension at any point within the drilling envelope
BOP handling	100 ton bridge crane, with telescoping lifting forks, allows the BOP to be placed anywhere within a three dimensional envelope of the wellhead and handling area, with an additional 30 ton bridge crane running the width of the 60 by 18 ft. enclosed BOP storage area to facilitate handling and assembly of BOP stacks and subsea trees

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Inquiries should be directed to the Marketing Department

Houston 15375 Memorial Drive Houston TX 77079-4101 (281) 925-6000 Fax (281) 925-6010





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