

GSF Galaxy III

Harsh Environment Deep Water Jack-Up

General Description

Design..... KFELS Mod. VI Universe Class.

Overall dimensions.....244 x 250 x 36 ft.

Spud can diameter ..... 59.5 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.....60 ft. by 30 ft.

Maximum cantilever extension (transom to rotary)..... 80 ft.

TAD drilling envelope reach from transom ..... 150 ft.

Maximum variable load (drilling).....13,437 kips *

* 361 ft. WD; 100 knot wind; 40 ft. wave; 1.5 knot current

Drilling Equipment

Derrick	40 x 40 x 170 ft. Dreco, with a static hook load capacity of 1,600,000 lbs. with fourteen 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	Varco BJ RST HYO, 49.5 in. hydraulic motor driven, non-drilling
Top drive	Varco TDS-4S, 750 short tons, continuous drilling torque rating 45,500 ft.-lbs., with a Varco PRS3I pipehandler
Pipe handling	Varco PRS-3I automated pipe racking system and AR 3200-C iron roughneck, pipe deck conveyor and PDM, with integrated control provided by V-ICIS system
Mud pumps	Three National Oilwell 14-P-220, 2,200 hp triplex pumps each driven by two GE 752 hi-torque DC traction motors, rated to 7,500 psi with plungers and hi-pressure liners
Solids control	3 x Brandt Gumbo Shale Shakers, 5 x Thule VSM 300 Linear Shale Shakers, 2 x 10 cone desilter, piping and electrical hook-ups for (2) centrifuges, cuttings drying and mud cooling
Instrumentation	Martin-Decker V-ICIS system which integrates drilling information with control of automated equipment into a common network
Mud Mixing	Automated bulk transfer, sack handling/cutting and liquid additive systems

Power Equipment

DC	Five Hill Graham SCR units, 2400 amps each, powering 10 GE 752 DC motors
AC	Four Wartsila 12V200 diesel engines, 2,850 hp, driving four ABB 3,000 kva generators

Storage Capacities

Liquid mud	5,060 bbls. including processing pit
Base oil	1,630 bbls.
Brine	1,630 bbls.
Bulk material	18,200 cu. ft.

BOP Equipment

Diverter	Drilquip 500 psi, 49-1/2 in. fixed diverter with two 16 in. discharge lines and three 16 in. hydraulically operated ball valves (including mud return)
BOP stack	18 ¾ in. Shaffer NXT BOP stack, 10,000 psi annular and two 15,000 psi double “quick change” ram preventers
BOP handling	1 x 125 ton overhead bridge crane

Cranes

Three Seatrax 6032 cranes, PORT & STBD 120 ft. booms rated 39.7 s.t. at 60 ft., AFT 130 ft. boom, rated for 29.7 tons at 60 ft. radius

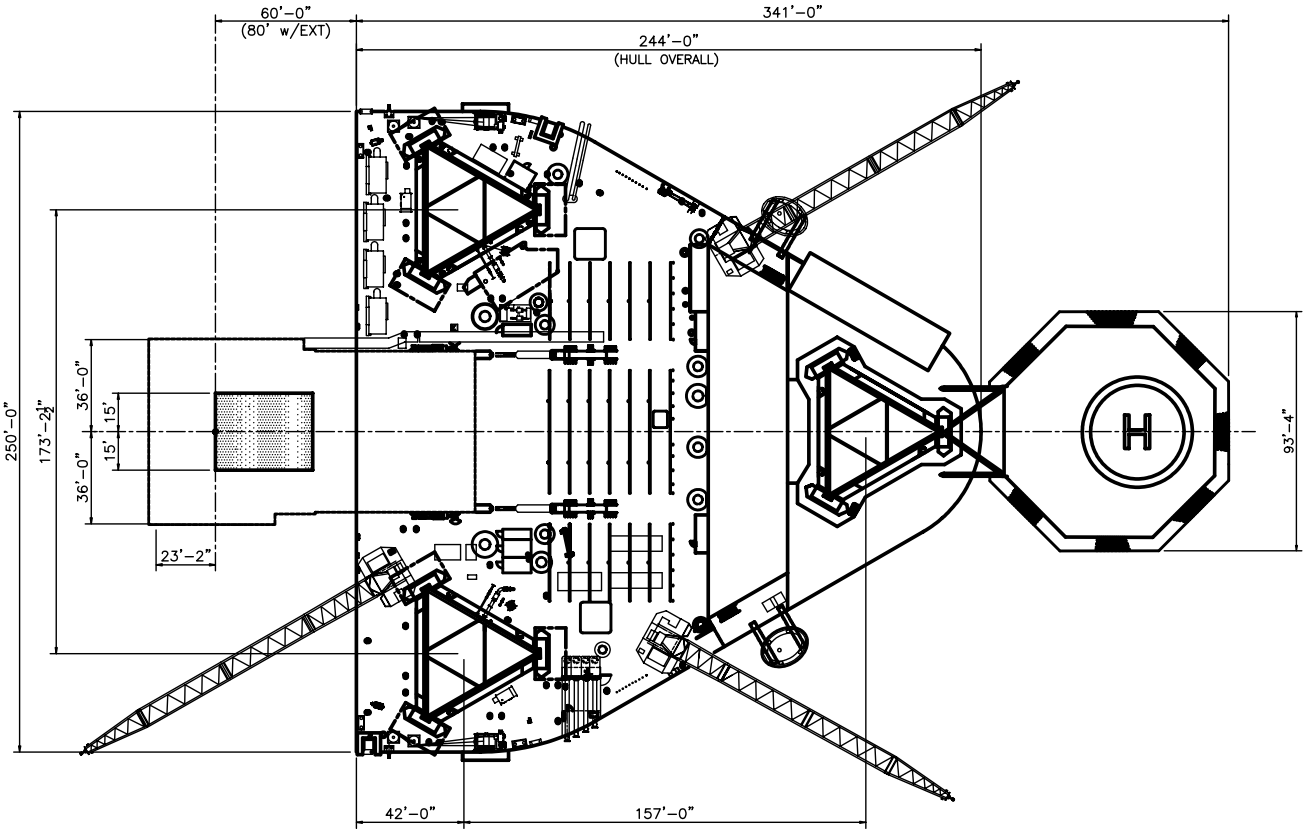
Special Features

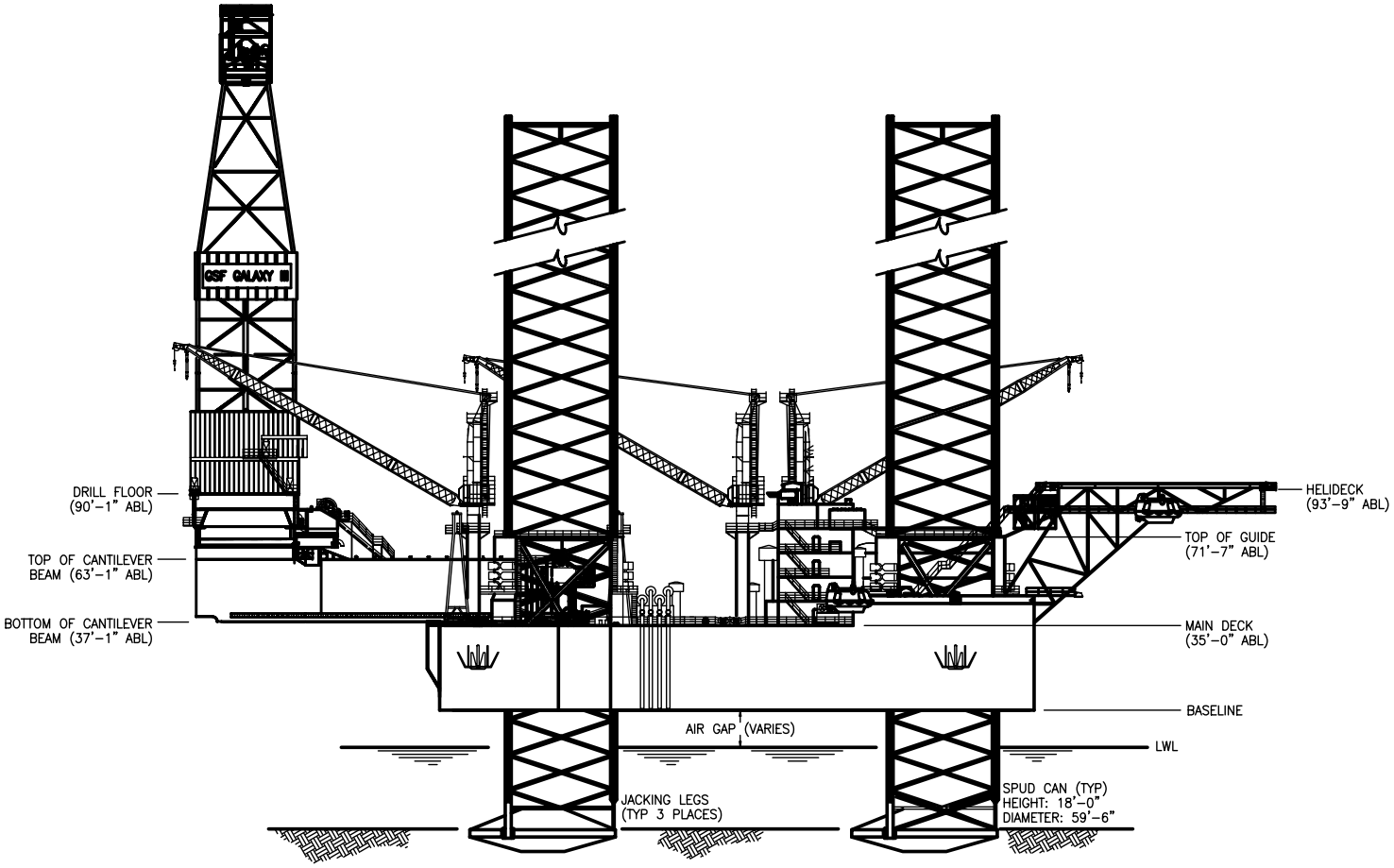
Tender mode	For Tender Assisted Drilling (TAD) the drill floor, substructure and aft section of the cantilever can be detached from the main body of the cantilever and deposited on an adjacent platform. The drill floor is then placed at any position on the platform capping beams by a Lift and Roll System (LARS).
CTU	600 kip Conductor Tensioning Unit positioned below the cantilever beams, provides tension at any point within the drilling envelope. Secondary tensioning system provides for an additional 360 kips tension.
BOP handling	125 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 two additional 15 ton bridge cranes in the enclosed BOP storage area to facilitate assembly and handling of BOP stacks and subsea trees (TAD or cantilever modes).

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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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