

GSF Rig 127

Jack-up Drilling Unit

General Description

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

Overall dimensions ..... 180 by 175 by 25 ft.

Legs (3) ..... 350 ft. long triangular

Quarters capacity ..... 100 persons

Operating water depth ..... 250 ft.

Jacking system..... National electrically driven rack and pinion system

Cantilever envelope ..... 40 ft. by 24 ft.

Maximum variable load (drilling) ..... 4,840 kips*

*250 ft. WD / 50 knot wind / 30 ft. wave / 1.0 knot current

Drilling Equipment

Derrick	160 ft. by 30 ft. Emsco 20RD, with a static hook load capacity of 1,024,000 lbs. with 12 lines (1-3/8 in. drilling line)
Drawworks	National 1320 UE, 2,000 hp, driven by two GE 752 DC motors, complete with Baylor 7040 electric brake
Rotary table	National C-375, with independent drive using a GE 752 DC motor with 2-speed transmission
Top drive	Varco Model TDS-4S, with a remote mounted blower and PH-80 pipehandler, rated to 45,500 ft.-lbs. continuous torque in low gear
Mud pumps	Two Emsco FB 1600, 1,600 hp triplex pumps, each driven by two GE 752 DC traction motors
Solids Control	Two Brandt Dual Tandem screen scalping shakers cascading onto three Derrick Dual Flow shakers, with one configured to take the underflow from the desilter, allowing it to function as a mud cleaner or fourth shaker as operations require

Storage Capacities

Liquid mud	2,400 bbl., including processing tank
Brine	1,355 bbl.
Bulk material	8,080 cu. ft.

Power Equipment

DC	Five Hill Graham SCR units, each rated at 1,800 amps, powering eight GE 752 DC motors
AC	Four Cat. 3516-A diesel engines, 1,615 hp, driving four Cat SR-4 2,150 kva generators

BOP Equipment

Diverter system	Hydril MSP 500 psi, 29-1/2 in., with 16 in. discharge lines and two 16 in. hydraulically operated ball valves
	Hydril GK 2000 psi 21 ¼ in with 16" system as above
21-1/4 in. system	One Hydril MSP 2,000 psi annular preventer and one Cameron type U 2,000 psi single ram preventer
13-5/8 in. system	One Hydril GK 5,000 psi annular preventer, one Cameron Type "U" 10,000 psi double ram preventer, and oen Cameron Type "U" 10,000 psi single ram preventer

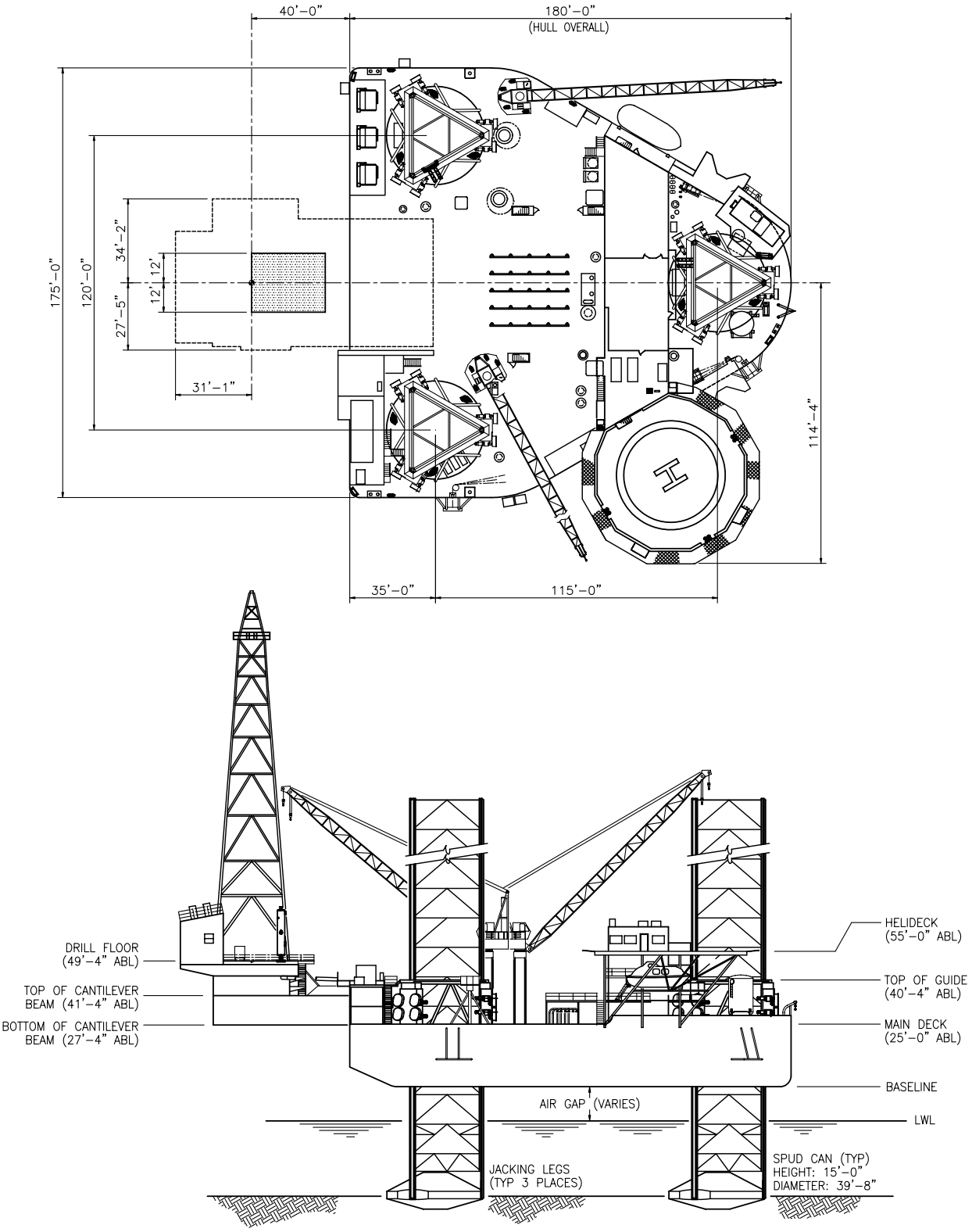
Cranes

Two American Aero OM-445 cranes, with 100 ft. booms, rated for 45 tons at 20 ft. radius

GlobalSantaFe

Inquiries should be directed to the Marketing Department

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