

GSF Arctic IV

1,500 Foot Semisubmersible

General Description

Design	Friede & Goldman L-907
Dimensions	221 x 203 ft. (main deck)
Normal operating draft	65 ft.
Towing draft	24.5 ft.
Maximum variable load (drilling)	8,998 kips
Quarters capacity	97 persons
Operating water depth	1,500 ft.

Drilling Equipment

Derrick	175 ft. x 40 ft. DSI, with a static hook load capacity of 1,400,000 lbs. with fourteen lines
Drawworks	National-Oilwell 1625 DE, 3,000 hp, driven by three Unirig DM7661DC motors, and a Baylor 7838 auxiliary electric brake
Rotary table	National-Oilwell, C495 49-1/2 in. Unirig motor driven.
Top drive	Maritime Hydraulics DDM650, 650 short tons, continuous drilling torque rating 40,400 ft.-lbs. Max RPM 265.
Motion compensator	Brown Brothers in line motion compensator 600,000 lbs. compensating, 1,500,000 lbs. locked, 20 ft. stroke.
Active Heave Comp.	Maritime Hydraulics In Line, 17 ft. stroke.
Mud pumps	Two National-Oilwell 12-P-160 1600 hp, One Continental Emsco FB 1600 1600 hp triplex pumps each driven by two Unirig DC traction motors, rated to 5,000 psi with plungers and hi-pressure liners
Solids control	5 x Thule VSM 100 Shale shakers. 1 x 8 cone desilter, piping and electrical hook-ups for one centrifuge.

Propulsion System

Two in line fixed propellers with nozzles, 1,492 BHP each

Storage Capacities

Liquid mud	2,235 bbls.
Base oil	3,424 bbls.
Brine	3,245 bbls.
Bulk material	22,800 cu. ft.

Power Equipment

DC	Six Hill Graham SCR units, each rated at 1200 amps
Main Power	Four Ruston 12 cyl diesel engines, 3,320 hp each. two distribution transformers, 1,300/1,600 kva, 600-480 volt
Emergency Power	One turbo charged Caterpillar Diesel 3512 rated at 955 kw.

Subsea Equipment

Riser	1,600 ft. of Cameron RD, 21 in O.D. riser
Tensioners	Eight Brown Brothers 110,000 lb. Riser tensioners with 50 ft. line travel and four Brown Brothers 16,000 lb. Guideline tensioners with 40 ft. line travel.

BOP Equipment

Diverter system	Regan KFDS, 24 in. nominal size diverter with Regan type DR-1 ball joint
18-3/4 in. system	Two Cameron D 10,000 psi annular preventers and two Cameron U2 15,000 psi double ram preventers

Cranes

Two National OS345 cranes, 140 ft. booms, rated for 48.7 short tons at 33 ft. radius and One National OS345 crane, 80 ft boom rated for 51.4 short tons at 33 ft. radius

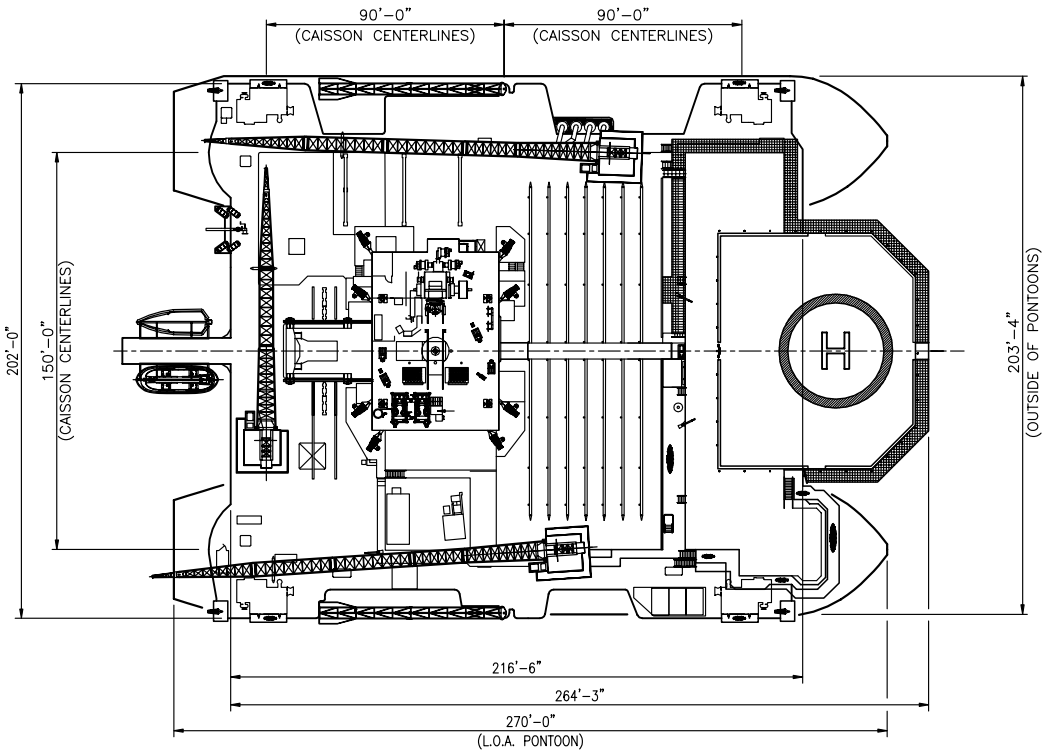
Mooring System

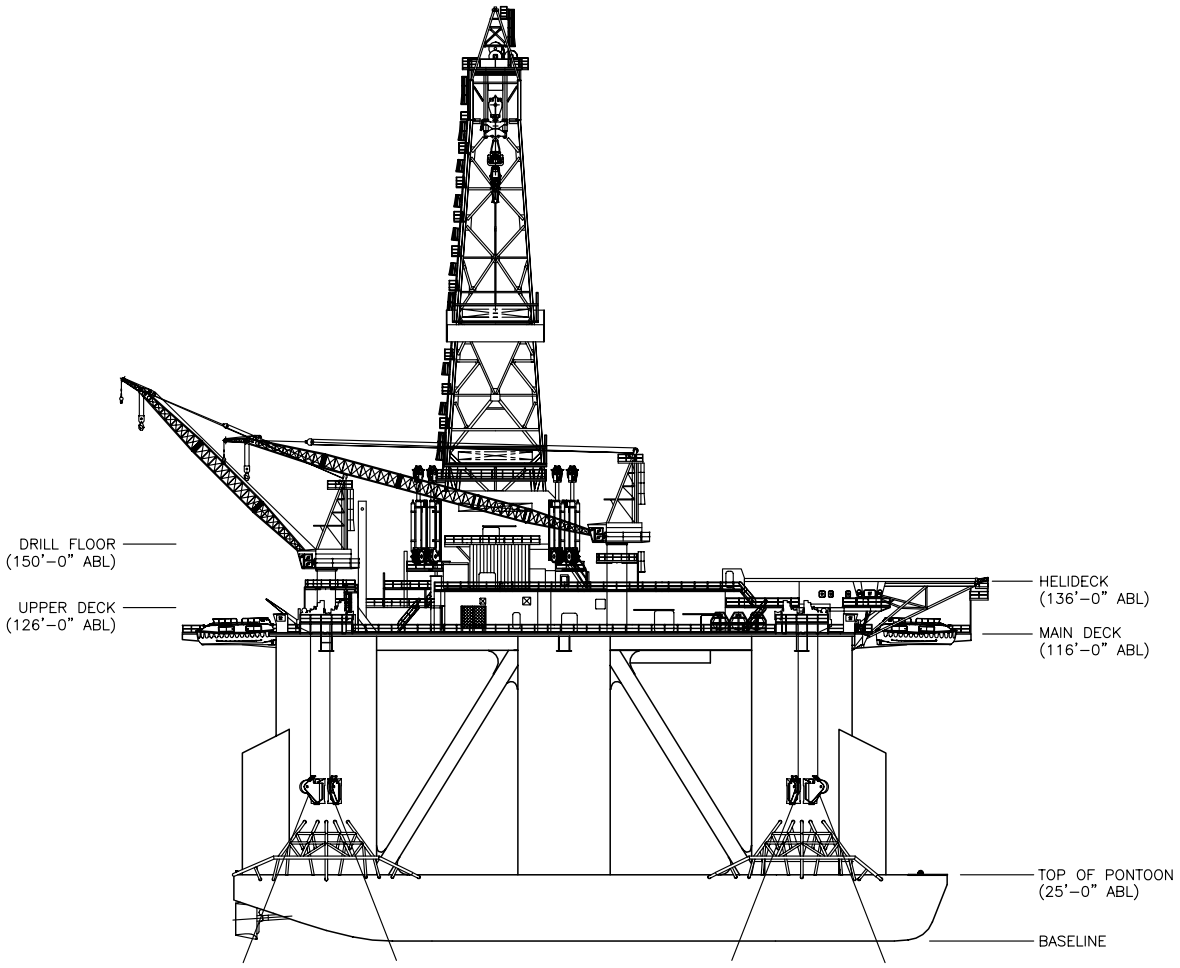
Four Skagit WMD-48 double wildcats with dynamic disc brakes. Eight anchor chains consisting of 4,550 ft. x 3 in. K-4 and eight Bruce TS 26,500 lb. Anchors.

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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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