

# GSP MAGELLAN



## GSP Magellan DRILLING RIGS •

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## TECHNICAL DATA

### GENERAL

Design:	Friede & Goldman L-780 Mod V
Builder:	Far East Livingstone (FELS) Singapore
Year Built:	1992
Flag:	Vanuatu
Overall Dimensions:	317 ft. x 241 ft.
Hull Dimensions:	228 ft. x 222 ft. x 31 ft.
Legs (3):	496.5 ft. long triangular
Accommodation:	116 persons
Max. Drill Depth:	30,000 ft.
Operating Water Depth:	350 ft.
Cantilever Envelope:	58 ft. x 30 ft. without extension 65 ft. x 30 ft. with extension
Max. Variable Load:	(drilling)10,400 kips
Helideck:	83 ft. x 83 ft. rated for Sikorsky s61/s92
Ocean Transit Draft:	19 ft. (deepest)
Operating Conditions:	Max. Wave Height :58 ft. @ 15 sec. Max. Wind Velocity:70 knots Max. Surface Current Velocity:1.5 knots
Storm Conditions:	Max Wave height: 81ft @15 sec. Max Wind velocity: 100 knots Max surface current velocity: 0 knots

### DRILLING EQUIPMENT

Derrick:	161 ft. x 40 ft. x 40 ft. Drecto, 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-Oilwell 49-1/2 in., hydraulic motor driven, non-drilling
Top Drive:	Varco BJ TDS-4S with one GE 752 hi-torque DC motor, rated to 45,000 ft.-lbs.@110 rpm, complete with an open-loop cooling system, PH-85 pipehandler and dolly retract 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 20 ft. above floor
Mud Pumps:	Three National Oilwell 14-P-200, 2,000 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:	Four Axiom AX-1 shale shakers

### POWER EQUIPMENT

Main Power:	Four Caterpillar 3606 diesel engines, 2,500 hp, driving four Kato 2,280 kva generators
Power Distribution:	Five Ross Hill SCR units, each rated at 2,500 amps, powering eleven GE 752 DC motors

### STORAGE CAPACITIES

Liquid Mud:	3,250 bbl.
Base Oil:	876 bbl.
Brine:	2,243 bbl.
Bulk Mud:	8,700 cu. ft.
Bulk Cement:	8,700 cu. ft.

### WELL CONTROL EQUIPMENT

Diverter:	Drill Quip 500 psi, 47-1/2 in. fixed diverter with three 16 in. discharge lines and two 14 in. hydraulically operated ball valves.
21-1/4 in. BOP:	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. BOP:	One Hydril type GX 10,000 psi annular preventer and two Hydril 15,000 psi double ram preventers

### CRANES

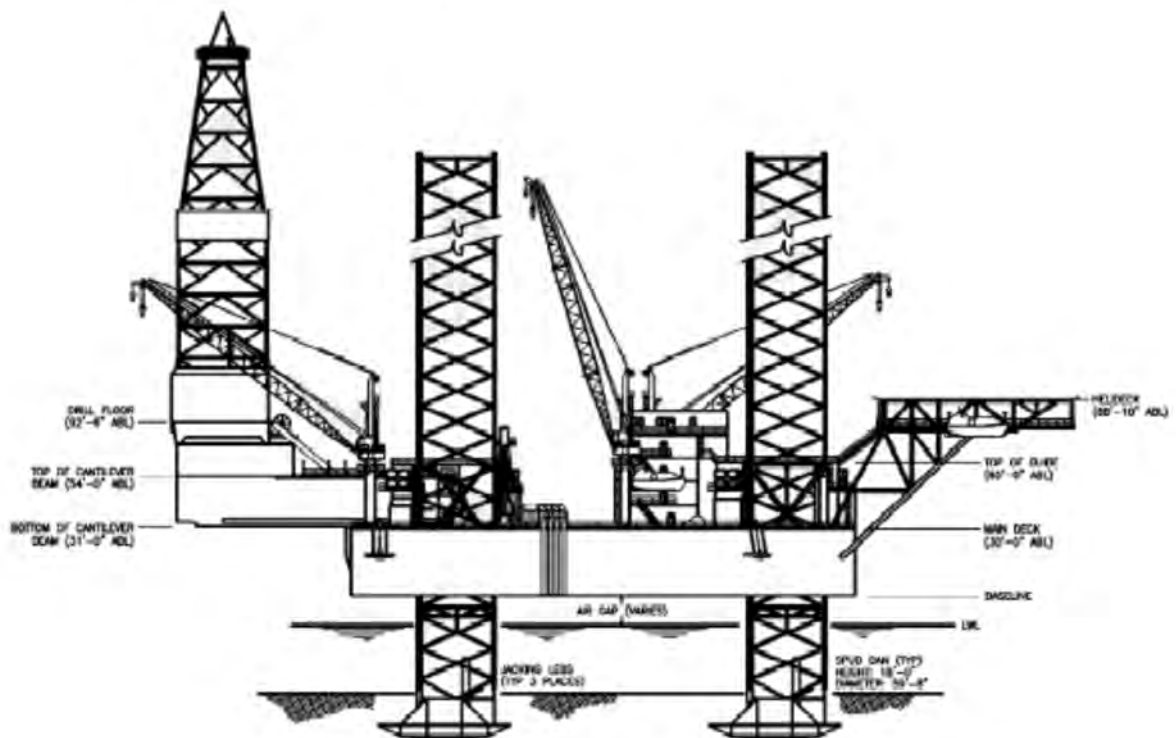
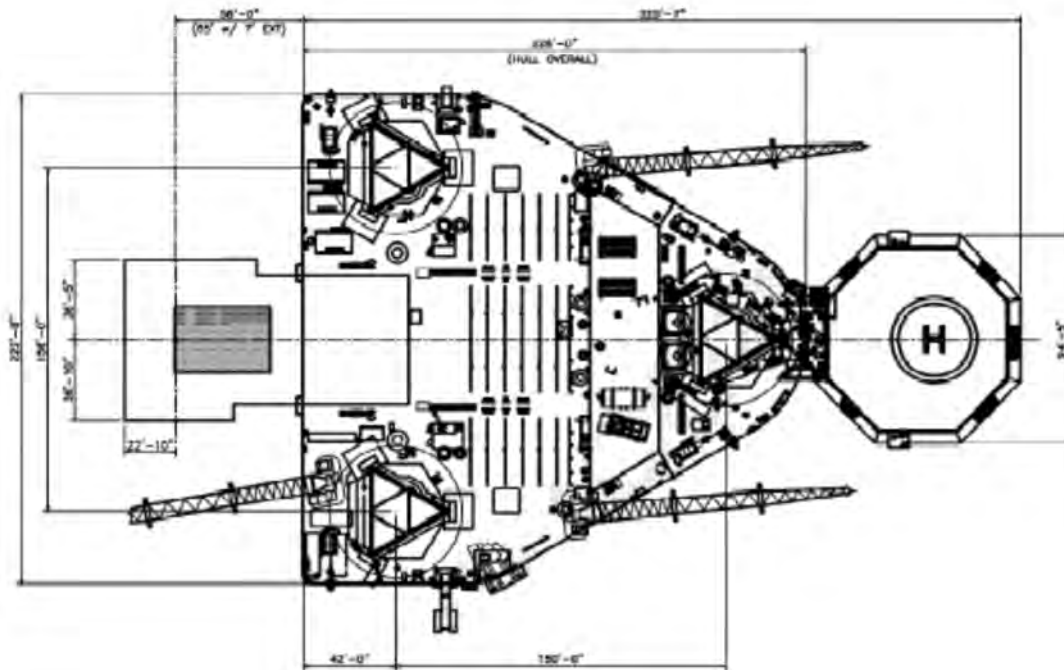
Pedestal Cranes:	Three Sea King SK3500 cranes, with 120 ft. booms, rated for 40.5 MT at 25 ft. radius
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### SPECIAL FEATURES

CTU:	600 kip conductor tensioning unit positioned below the cantilever beams, provides tension at any point within the drilling envelope
BOP Handling:	200 kips bridge crane, with telescoping lifting forks, allows the BOP to be placed anywhere within a three dimensional envelope of the wellhead and handling area



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