General Description

Design / Generation .................................................. KFELS MSC Gusto DSS51
Constructing Shipyard ................................................ KFELS, Singapore
Year Entered Service / Significant Upgrades ....................... 2009
Classification .......................................................... ABS A1
Flag ........................................................................ Vanuatu
Dimensions ............................................................... 257 ft. long x 255 ft. wide x 121 ft. deep
Dratts ................................................................. 67 ft. operating / 32 ft. transit
Accommodation ......................................................... 200 persons
Displacement .............................................................. 53,783 mt operating / 39,388 mt transit
Variable Deck ............................................................ 13,500 mt operating / 6,730 mt transit
Transit Speed .............................................................. up to 5 knots
Maximum Water Depth .................................................. 10,000 ft. designed / 7,500 ft. outfitted
Maximum Drilling Depth .................................................. 37,500 ft.

Drilling Equipment

Derrick ................................................................. NOV Dual-Static Bottle Neck Derrick, 200 ft. x 52 ft. x 57 ft.
Hookload Capacity ..................................................... 3,000,000 lbs. gross nominal capacity (2,000 kips Main, 1,000 kips Aux).
Drawworks ........................................................................
(Main) NOV AHD-1000, 6,900 input hp
(Aux) NOV AHD-500, 4,600 input hp
Compensator ............................................................... Main and Auxiliary, compensated via the AHDs above
Rotary Table ............................................................... (Main) NOV RST-605 60-1/2 inch opening rated at 1,375 st with a maximum continuous output of torque of 45,000 ft-lbs.
(Aux) NOV RST-495 49-1/2 inch opening rated at 500 st with a maximum continuous output of torque of 45,000 ft-lbs.
Top Drive ........................................................................
(Main) NOV HSP-1000 1,000 st rated capacity, with 1 x GEB AC motor, rated to 78,450 ft-lbs. maximum drilling torque
(Aux) NOV HSP-500 500 st rated capacity, with 1 x GEB AC motor, rated to 58,500 ft-lbs. maximum drilling torque
Cranes .......................................................................... Crane #3
1 x NOV knuckle boom crane with 115 ft. boom and rated at 16.5 st at a radius of 82 ft.
Mud Pumps ................................................................. 4 x National 14-P-220 triplepump pumps, each driven by 2 x GE 752 traction motors.
HP Mud System ........................................................... Rated for 7,500 psi

Power & Machinery

Main Power ............................................................... 8 x Caterpillar 3616 diesel engines rated at 6,760 hp at 900 rpm, each driving 1 x Leroy Somner LSA 58L generator.
Emergency Power ......................................................... 1 x Caterpillar 3516B diesel engine rated at 1,715 hp; 1,200 rpm driving 1 x Leroy Somner type generator.
Power Distribution ....................................................... 8 x 4,860 kVA SWBD transformers generator protection.

Storage Capacities

Fuel Oil ................................................................. 27,362 bbl
Liquid Mud ............................................................... 11,800 bbl. Active / 10,000 bbl. Reserve
Base Oil ................................................................. 4,837 bbl
Brine .......................................................................... 4,824 bbl
Drill Water ................................................................. 13,234 bbl
Potable Water ............................................................. 5,224 bbl
Bulk Material ............................................................. (mud + cement) 48,000 cu.ft
Sack Storage .............................................................. 4,000 sacks

BOP & Subsea Equipment

BOP Rams ................................................................. Hydrlc annular 18-3/4 inch 15,000 psi 6-rpm preventer (2 x doubles, 2 x singles)
BOP Annulars ............................................................. 2 x Hydrlc GX 18-3/4 inch 10,000 psi annular preventer. (1 on stack and 1 on LMRP)
BOP Handling ............................................................ BOP crane Hydra Lift 2 x 100 st and 25 st auxiliary winches
Marine Riser ............................................................. Kvaerner 21 inch OD 'Clip' type marine riser with an average of 75 ft. long per joint and 2 x 4 inch x 15,000 psi Choke/kill lines.
Tensioners ................................................................. 12 x Hydra lift tensioners rated at 250 kips each for a total of 3,000 kips.
Diverter ....................................................................... Vetco CSO 20 inch OD rated at 500 psi with 18 inch flow line.
Tree Handling ............................................................ Hydra Lift 200 mt capacity skid cart.
Moonpool .................................................................... 136 ft. length x 25 ft. width.

Station Keeping / Propulsion System

Thrusters ..................................................................... 8 x 5,360 hp variable speed fixed pitch thrusters; azimuthing
DP System ................................................................. Kongsberg ABS class DPS2+
Mooring System ........................................................ 4 x Brohl anchor winches with 8 x Vryhof Stevins NG 1500 15 st anchors with 8 x 1,970 ft. of stud link chain 3-1/2 inch in diameter with a breaking strength of 1,796,000 lbs.

Cranes........................................................................... Cranes #1 & #2
2 x Liebherr MTC 6000 pedestal cranes with 167 ft booms and rated at 150 st at a radius of 64 ft.
Cranes #3 ..................................................................... 1 x NOV knuckle boom crane with 115 ft. boom and rated at 16.5 st at a radius of 82 ft.

Other Information

Helideck ................................................................. Rated for Sikorsky S-61 & S-92 helicopters.
Other .......................................................................... 1 x Huisman ‘Over-the-side‘ active heave compensated subsea construction winch for up to 7500 ft. (2286m) operating depth; with 1x 125 MT winch complete with 80 mm wire; 1 x 80 MT winch complete with 28mm wire. Complete with control cabin and moveable hang-off platform to transfer winch loads to I from the port-side rig crane. Location: Port side midship

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These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating manuals, policies and procedures, and within its stated operational limits or continuous rated capacity, in order to assure maximum operational efficiency.

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