 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.

Patent Notice: This rig, its systems, components, and/or equipment in use on this rig, may be protected by one or more US and/or foreign patents.

For additional information please contact:
Transocean
Marketing Department
4 Greenway Plaza
Houston, TX 77046, USA
Phone: +1-713-232-7500
Fax: +1-713-232-7880
marketing@deepwater.com
www.deepwater.com

DISCOVERER INSPIRATION
ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP

General Description

Design / Generation Transocean Offshore Enhanced Enterprise Class
Constructing Shipyard DSME
Year Entered Service / Significant Upgrades 2008
Flag Marshall Islands
Dimensions 835 ft. long x 125 ft. wide x 62 ft. deep
Drafts 42 ft. operating
Accommodation 200 persons
Displacement 98,421 st operating
Variable Deck 22,046 st operating / 22,046 st transit
Transit Speed up to 12 knots
Maximum Water Depth 12,000 ft. designed / 10,000 ft. outfitted
Maximum Drilling Depth 40,000 ft

Drilling Equipment

Derrick NOV Dual Activity derrick, 228 ft. high, with 80 ft. x 80 ft. base.
Hookload Capacity (Main) 2,500,000 lbs. gross nominal capacity
(Aux) 2,500,000 lbs. gross nominal capacity
Drawworks (Main): NOV Active Heave Drawworks with 6 x General Electric GEB-22A motors rated at 6,900 total hp, 1,050 st rated hook load with 2 inch drill line
(Aux): NOV Active Heave Drawworks with 6 x General Electric GEB-22A motors rated at 6,900 total hp, 1,050 st rated hook load with 2 inch drill line
Compensator (Main) active heave drawworks above
(Aux) active heave drawworks above
Rotary Table (Main) 1 x NOV 75-1/2 inch hydraulic
(Aux) 1 x NOV 60-1/2 inch hydraulic
Top Drive (Main) Maritime Hydraulics MDDM 1250-AC rated at 1,250 st motor, and rated to 101,200 ft.-lbs. continuous drilling torque in low gear
(Aux) Same as above
Tubular Handling 2 x NOV PRS-5 pipe racking system, and 2 x NOV AR 4500 Iron Roughnecks
Mud Pumps 5 x NOV HEX 240 pumps, each driven by 2 x Baylor traction motors
HP Mud System Rated for 7,500 psi
Solids Control 10 x Brandt LCM-3D/CM-2 shale shakers

Power & Machinery

Main Power 6 x MAN B&W V32/40 14 cylinder diesel engines rated at 7,000 kw, each driving 1 x LDW-Siemens generator
Emergency Power 1 x MAN B&W 7L27/38 diesel engine rated 2,310 kW, driving 1 x Hyundai 2,100 kW generator
Power Distribution Siemens 11 kV switchboards with Siemens Blue Variable Speed generator protection

Storage Capacities

Fuel Oil 36,000 bbl
Liquid Mud 20,000 bbl active
Base Oil 9,215 bbl
Brine 20,288 bbl
Drill Water 13,700 bbl
Potable Water 5,000 bbl
Bulk Material (mud + cement) 32,000 cu.ft.
Sack Storage 16,000 sacks

BOP & Subsea Equipment

BOP Rams 3 x Hydral 18-3/4 inch 15,000 psi Compact Double Ram Preventers (1 x 6-ram preventer)
BOP Annulars 1 x Hydral Annufflex 18-3/4 inch 10,000 psi annular preventer
2nd BOP Stack 1 x BOP stack with the same components as the primary stack listed above, including 1 x annular
BOP Handling BOP skid system comprised of 3 x 350 st rated BOP carts; 2 sets of spider beams rated to 350 st per set
Marine Riser Veto HMF 21 inch OD x 75 ft. long per joint. Class G couplings and 2 x 4-1/2 inch 15,000 psi choke and kill lines
Tensioners 6 x Hydraulift riser tensioners, rated at 400 st each with a 50 ft. stroke
Diverter Veto CSO with a 72 inch opening 500 psi diverter with 2 x 16 inch flow lines
Tree Handling 3 x 100 st Xmas tree trolley
Moonpool 72 ft. length x 30 ft. width.

Station Keeping / Propulsion System

Thrusters 6 x Rolls Royce Aquamaster thrusters rated at 7,000 hp fully azimuthing
DP System Kongsberg Maritime Triple Redundant SDP 32 system

Cranes

Cranes 4 x MT Hydralift electro-hydraulic knuckle-boom cranes, rated to a 150 ft lift radius

Other Information

Helideck Rated for Chinook 234 helicopters

Revision Date: 20 December 2016
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