

DISCOVERER SPIRIT

ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP



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General Description

Design / Generation	Transocean Offshore Enterprise class Drillship
Constructing Shipyard	ASTANO S.A. Ferrol, Spain
Year Entered Service / Significant Upgrades	2000
Classification	DNV1A1, EO DYNPOS
Flag	Marshall Islands
Dimensions	835 ft. long x 125 ft. wide x 62 ft. deep
Drafts	42 ft. operating / 33 ft. transit
Accommodation	200 persons
Displacement	91,394 lt operating
Variable Deck	20,000 mt operating / 18,000 st transit
Transit Speed	up to 8 knots
Maximum Water Depth	10,000 ft. designed / 10,000 ft. outfitted
Maximum Drilling Depth	35,000 ft

Power & Machinery

Main Power	4 x Wartsila 18V32 LNE diesel engines rated at 9,722 hp each, 2 x Wartsilla 12V32 LNE diesel engines rated at 6,515 hp each, each driving 1 x ABB 8,700 kVA AC generator
Emergency Power	1 x Wartsilla VASA 6R32LNE diesel engine rated at 3,000 hp 720 rpm 2,635 kva driving 1 x ABB-AMG630L10 generator
Power Distribution	22 x Baylor/ Model 6SE7233-OES00-3ACO2 SCRs, 4 x VFD switchboards with SCR generator protection

Storage Capacities

Fuel Oil	33,252 bbl
Liquid Mud	6,000 bbl Active / 9,000 bbl Reserve
Base Oil	18,426 bbl
Brine	N/A
Drill Water	12,321 bbl
Potable Water	7,062 bbl
Bulk Material	(mud + cement) 32,000 cu.ft.
Sack Storage	16,000 sacks

Drilling Equipment

Derrick	Dreco dual activity derrick, 226 ft. high, 80 ft. long, 80 ft. wide base.
Hookload Capacity	(Main and Aux) 2,000,000 lbs. gross nominal (each)
Drawworks	(Main and Aux) 2 x Continental Emsco EH-V5000 1,000 tons rated each driven by 4 x GE 752 hi-torque electric motors (5,000 hp total output).
Compensator	(Main and Aux) 2 x Varco/Shaffer Model CM-25-1000DA crown mounted compensators rated at 1,000 st locked, 500 st compensating, 25 ft. stroke. active heave compensation
Rotary Table	(Main and Aux) 2 x Varco Model RST605 hydraulic 60-1/2 inch with a static load rating of 1,000 st and 37,576 ft. lbs. of torque.
Top Drive	(Main and Aux) 2 x Varco TDS-85 with a PH-100 pipe handler rated at 750 st and 7,500 psi with 63,000 ft. lbs. of continuous torque.
Tubular Handling	2 x Varco PRS-5 racking arm pipe racking system, 1x Varco AR3500 Iron Roughneck
Riser Feed	1 x Vetco Type HY-3 1,000 st with 1 x Vetco hydraulic gimbal
Mud Pumps	4 x NOV P14-220 triplex pumps rated at 1,130 hp each driven by 2 x GE 752 DC traction motors with a maximum working pressure of 7,500 psi
HP Mud System	Rated for 7,500 psi
Solids Control	8 x Brandt LCM-2D/CM-2 cascading shale shakers

BOP & Subsea Equipment

BOP Rams	Hydril 18-3/4 inch 15,000 psi BOP which includes 3 x double 15,000 psi ram preventers.
BOP Annulars	1 x Hydril 18-3/4 inch 10,000 psi annular preventer.
BOP Handling	BOP crane 2 x 300 mt skid cart system
Marine Riser	Vetco HMF 21 inch rated for 2,500,000 lbs. tension, 75 ft. long per joint (nominal)
Tensioners	6 x Hydralift tensioners rated at 400 st with 50 ft. stroke
Diverter	Vetco model CSO 60 inch rated at 500 psi with 16 inch flow lines
Tree Handling	Xmas tree trolley with Xmas tree skid carts
Moonpool	82 ft. length x 39 ft. width

Station Keeping / Propulsion System

Thrusters	6 x Aquamaster Model UUS 7001 fully azimuthing with 1 x Ceglec 5,500 kW 1260 VAC AC 7,000 hp electric motor each.
DP System	Kongsberg Simrad triple redundant DPS-903 dynamic positioning system with SDP-32 monitoring stations.

Cranes

Cranes	4 x Hydralift Model OKMCV 4000 with 147 ft. boom length rated at 100 mt load capacity.
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Other Information

Helideck	Rated for Sikorsky S61 or Chinook 234 helicopters. 75 ft. x 90 ft
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Revision Date: 23 June 2014

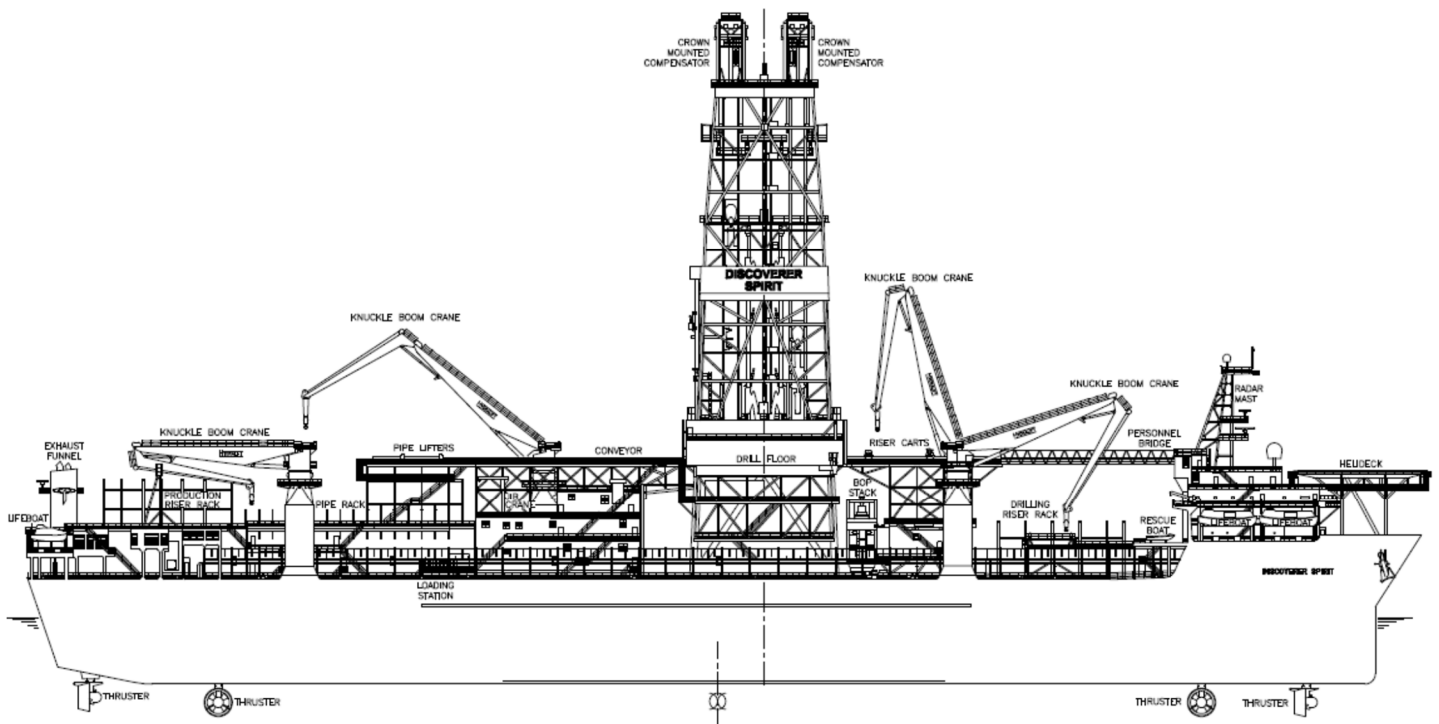
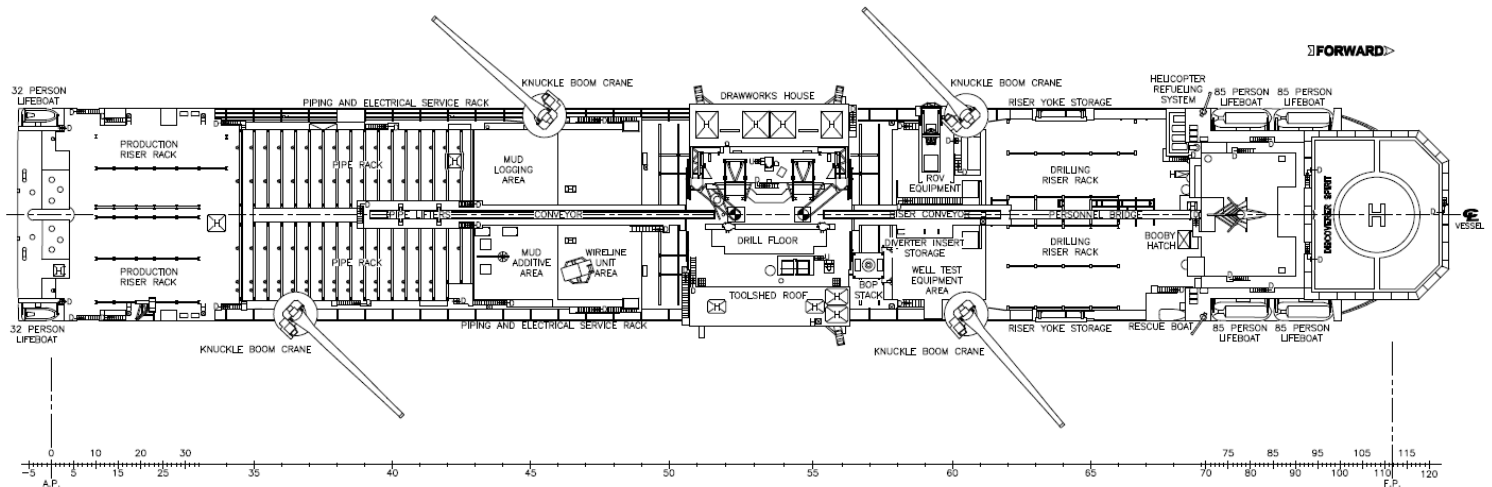


These specifications are intended for general reference purposes only, as actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs. All equipment shall be operated and maintained at all times, in compliance with Transocean standard operating 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.

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BOUNDLESS

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SERVICE FOCUSED
DATA DRIVEN
PERFORMANCE ORIENTED

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