

# Discoverer Spirit



**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

## Ultra Deepwater Dual Activity Drillship

### General Description

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

### Drilling Equipment

<b>Derrick</b>	Dreco dual activity derrick, 226 ft. high, 80 ft. long, 80 ft. wide base.
<b>Hookload Capacity</b>	(Main and Aux) 2,000,000 lbs. gross nominal (each)
<b>Drawworks</b>	(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).
<b>Compensator</b>	(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
<b>Rotary Table</b>	(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.
<b>Top Drive</b>	(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.
<b>Tubular Handling</b>	2 x Varco PRS-5 racking arm pipe racking system, 1x Varco AR3500 Iron Roughneck
<b>Riser Feed</b>	1 x Vetco Type HY-3 1,000 st with 1 x Vetco hydraulic gimbal
<b>Mud Pumps</b>	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.
<b>HP Mud System</b>	Rated for 7,500 psi
<b>Solids Control</b>	8 x Brandt LCM-2D/CM-2 cascading shale shakers

### Power & Machinery

<b>Main Power</b>	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.
<b>Emergency Power</b>	1 x Wartsilla VASA 6R32LNE diesel engine rated at 3,000 hp 720 rpm 2,635 kva driving 1 x ABB-AMG630L10 generator
<b>Power Distribution</b>	22 x Baylor/ Model 6SE7233-OES00-3ACO2 SCR's, 4 x VFD switchboards with SCR generator protection.

### Storage Capacities

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

### BOP & Subsea Equipment

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

### Station Keeping / Propulsion System

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

### Cranes

<b>Cranes</b>	4 x Hydralift Model OKMCV 4000 with 147 ft. boom length rated at 100 mt load capacity.
---------------	--

### Other Information

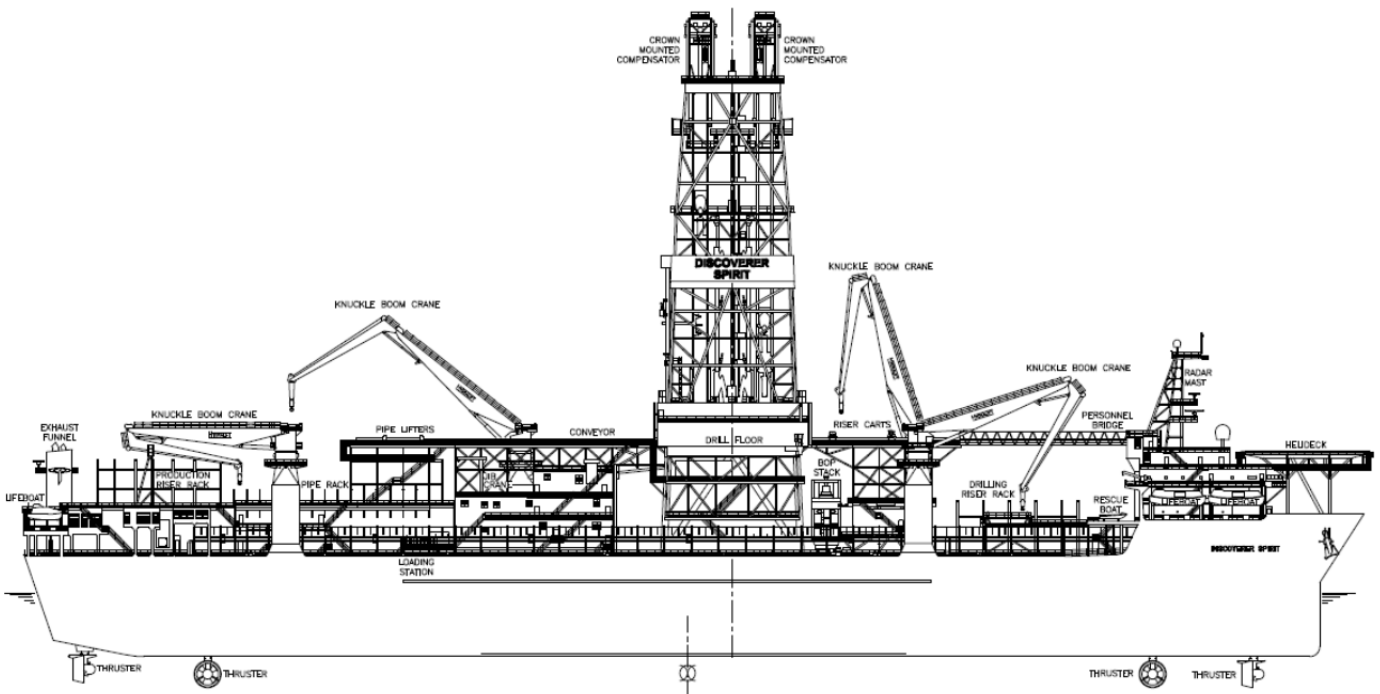
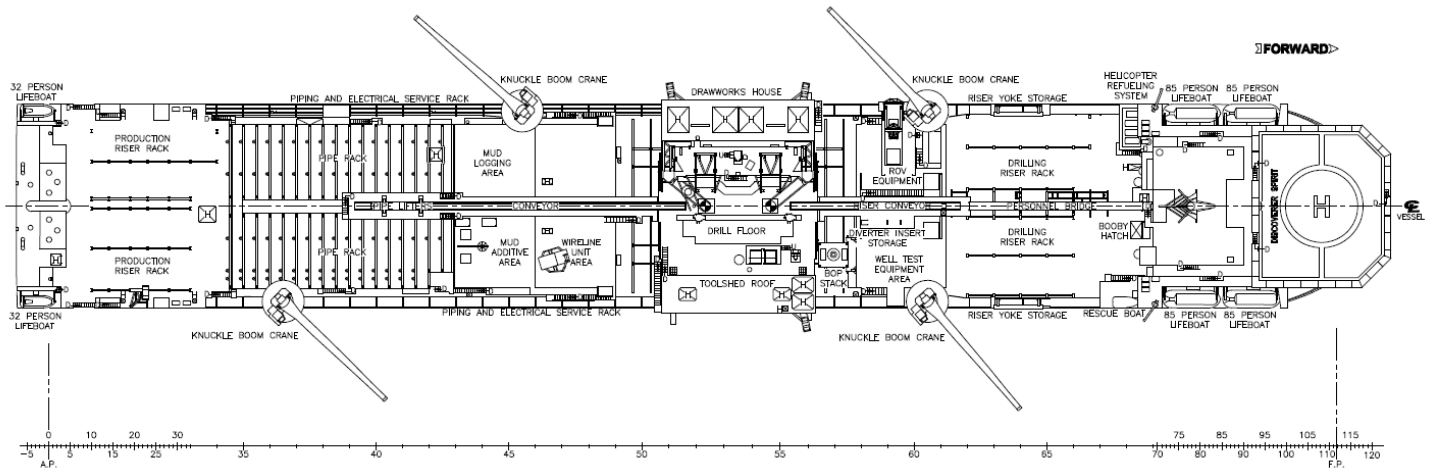
<b>Helideck</b>	Rated for Sikorsky S61 or Chinook 234 helicopters. 75 ft. x 90 ft
<b>Other</b>	N/A

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.

# Discoverer Spirit



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.