DEEPWATER ORION

ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP

GENERAL DESCRIPTION

Design / Generation	Enhanced Samsung 10000
Constructing Shipyard	Samsung Heavy Industries, South Korea
Year Entered Service / Significant Upgrades	2011
Classification	DNV 1A Ship-Shaped Drilling Unit Crane Offshore DPS(3) DRILL E0
Flag	Marshall Islands
Dimensions	748 ft. (228 m) x 138 ft. (42 m) beam x 62 ft. (19 m) depth
Drafts	38 ft. (12 m) operating / 38 ft. (12 m) survival / 28 ft. (9 m) transit
Accommodation	200 persons
Displacement	105,822 st. (96,000 mt) operating / 73,304 st. (66,500 mt) transit
Variable Deck	22,046 st. (20,000 mt) operating / 18,188 st. (16,500 mt) transit
Transit Speed	up to 12 knots
Maximum Water Depth	10,000 ft. (3,048 m) designed / 10,000 ft. (3,048 m) outfitted
Maximum Drilling Depth	35,000 ft. (10,668 m)



DRILLING EQUIPMENT

Derrick	NOV Beam Leg Dual Dynamic Bottleneck Type, 200 ft. (61 m) x 60 ft. (18 m) x 80 ft. (24 m)
Hook Load Capacity	(Main) 1,000 st. (907 mt) capacity, (Aux) 1,000 st. (907 mt) capacity
Drawworks	(Main and Aux) NOV SSGD-1000, 5,750 hp, 1,000 st. (907 mt)
Compensator	(Main and Aux) NOV CMC, 1,000 st. (907 mt) / 500 st. (454 mt)
Rotary Table	(Main) NOV RST 605 hyrdraulic 60-1/2," (Aux) NOV RST-605 60-1/2" false rotary table
Top Drive	(Main and Aux) NOV HPS-1000, 1,000 st. (907 mt)
Tubular Handling	2 x NOV pipe handlers, 2 x NOV MPT Iron Roughnecks with TF-975 tool frame, fwd and aft catwalk machines
Mud Pumps	5 x HP Triplex mud pumps NOV-14P-220, 2,200 hp, 7,500 psi
Solids Control	6 x VSM 300 shale shakers

CRANES

Cranes	4 x NOV OC3932KCE knuckle boom crane 93 st. (84 mt)

POWER AND MACHINERY

Main Power	6 x STX-MAN 16V32/40 diesel engines, rated 8,000 kW each, 6 x ABB AMG 900 LSE generators, rated 7,000 kW each
Emergency Power	1 x STX Cummins / QSK60DMGE diesel engine rated 2,547 kW, driving 1 x Newage / PM734E1 1,350 kW generator

STORAGE CAPACITIES

Fuel Oil	53,770 bbl (8,549 m3)
Liquid Mud	6,460 bbl (1,027 m3) active / 6,400 bbl (1,018 m3) reserve
Base Oil	3,130 bbl (498 m3)
Brine	3,130 bbl (498 m3)
Drill Water	18,030 bbl (2,867 m3)
Potable Water	8,820 bbl (1,402 m3)
Bulk Material	(mud + cement) 33,050 cu. ft. (936 m3)
Sack Storage	26 ft. (8 m) x 62 ft. (19 m) x 13 ft. (4 m)

BOP AND SUBSEA EQUIPMENT

BOP	NOV Shaffer 6 ram 18-3/4" NXT BOP, 15,000 psi
Wellhead Connector	Vetco Super HD H4
Annulars	2 x NOV Shaffer 10,000 psi
Marine Riser	NOV Shaffer FT-H 21" OD Flanged with 4-1/2" ID K/C lines, 4" ID booster line, and 2ea conduit lines
Tensioners	8 x dual (16ea) NOV DWRT 100 st. (91 mt) each
Diverter	NOV Shaffer 21-1/4" 500 psi
BOP Control	NOV 112-Line 5th Generation MUX Pod
Moonpool	84 ft. (26 m) x 41 ft. (12 m)

STATION KEEPING / PROPULSION SYSTEM

Thrusters	6 x Rolls Royce UUC 455 azimuth thrusters
DP System	DP Class 3 Kongsberg / ICMS / K-POS

OTHER INFORMATION

Helideck	89 ft. (27 m) x 89 ft. (27 m), 23 st. (20 mt) load capacity, rated for Chinook helicopters

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. See https://www.deepwater.com/patents for details.

Transocean

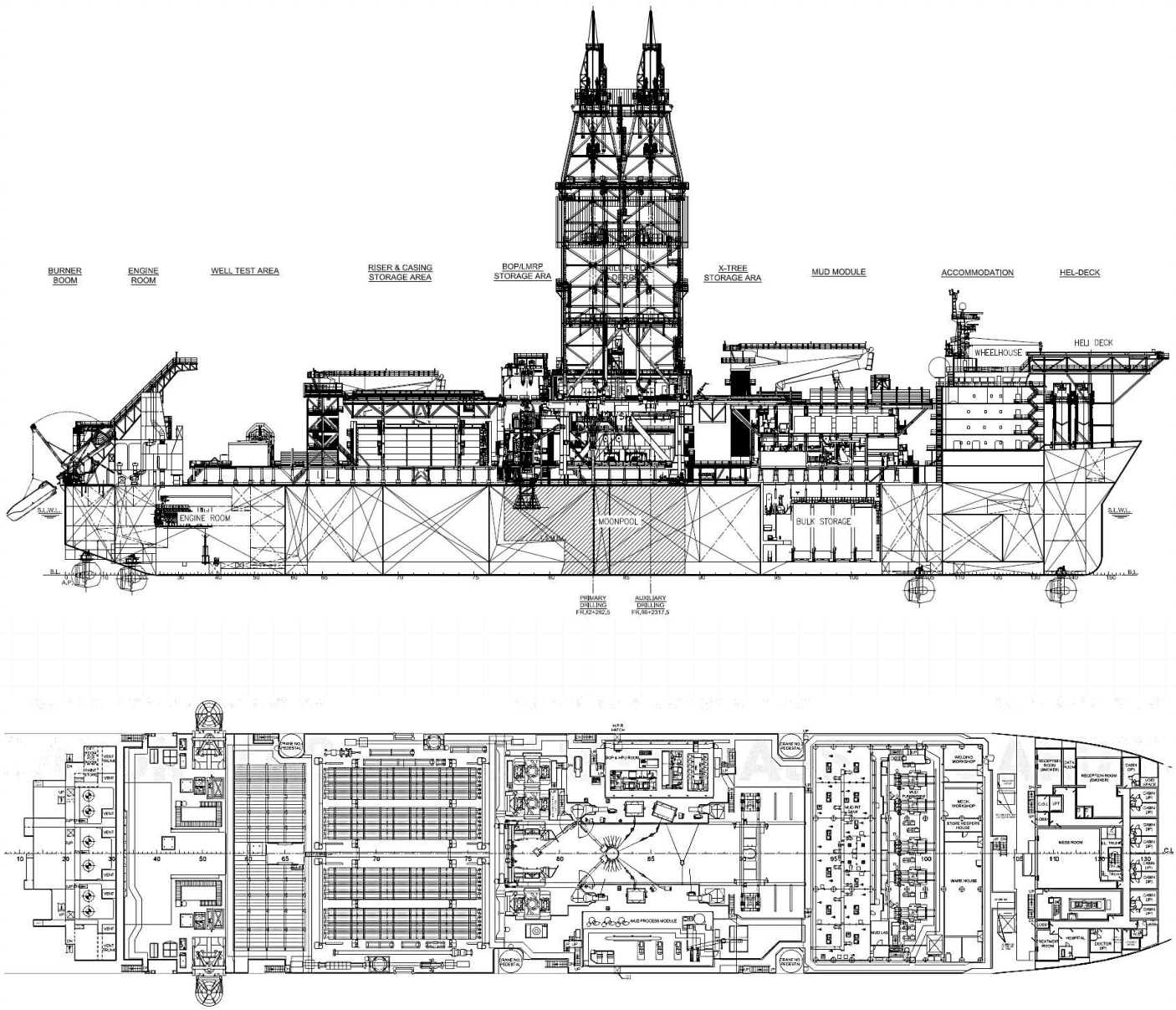
For additional information please contact the Transocean Marketing Department:

1414 Enclave Parkway, Houston, TX 77077, USA | Phone: + 1-713-232-7500 | Fax: + 1-713-232-7800 | marketing@deepwater.com | www.deepwater.com

Current as of: 05/16/2023

DEEPWATER ORION

ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP



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. See https://www.deepwater.com/patents for details.

For additional information please contact the Transocean Marketing Department:

1414 Enclave Parkway, Houston, TX 77077, USA | Phone: + 1-713-232-7500 | Fax: + 1-713-232-7800 | marketing@deepwater.com | www.deepwater.com

Current as of: 05/16/2023