

# DEEPWATER ORION

## ULTRA-DEEPWATER DUAL-ACTIVITY DRILLSHIP



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### General Description

Design / Generation	Enhanced Samsung 10000
Constructing Shipyard	Samsung Heavy Industries, South Korea
Year Entered Service / Significant Upgrades	2011
Classification	ABS +A1 Drilling Unit E-circle, +AMS +CDS +ACCU +DPS-3 (RRDA, UWILD, CRC, SH-DLA, PMP, NBLES, RW)
Flag	Marshall Islands
Dimensions	748 ft. x 137.8 ft. beam x 62.3 ft. depth
Drafts	37.7 ft operating / 37.7 ft survival / 27.9 ft transit
Accommodation	209 persons
Displacement	96,000 mt operating / 66,500 mt transit
Variable Deck	20,000 mt operating / 20,000 mt survival / 16,500 mt transit
Transit Speed	up to 12 knots
Maximum Water Depth	10,000 ft designed / 10,000 ft outfitted
Maximum Drilling Depth	35,000 ft

### Drilling Equipment

Derrick	NOV Beam Leg Dual Dynamic Bottleneck Type, 200 x 60 x 80ft
Hookload Capacity	(Main) 1,000 st (Aux) 1,000 st
Drawworks	2 x NOV SSGD-1000, 5750hp, 1000 st
Compensator	2 x NOV CMC, 1000 st
Rotary Table	(Main) NOV RST 605 hydraulic 60-1/2" (Aux) NOV RST-605 60-1/2 inch false rotary table
Top Drive	2 x NOV HPS-1000, 1000 st
Tubular Handling	2 x NOV pipe handlers, 2x 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, 2200hp, 7500psi
Solids Control	6 x VSM 300 shale shakers

### Power & 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
Liquid Mud	6,460 bbl active / 6,400 bbl reserve
Base Oil	3,130 bbl
Brine	3,130 bbl
Drill Water	18,030 bbl
Potable Water	8,820 bbl
Bulk Material	(mud + cement) 33,050 cu. ft.
Sack Storage	8 x 19 x 4 m

### BOP & Subsea Equipment

BOP	NOV Shaffer 6 ram 18/ 3/4" NXT BOP. 15,000psi
Wellhead Connector	Vetco Super HD H4
Annulars	2 x NOV Shaffer 10,000psi
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 91 mt each
Diverter	NOV Shaffer 21 1/4" 500psi
BOP Control	NOV 112-Line 5th Generation MUX Pod
Moonpool	25.6 m x 12.49 m

### Station Keeping / Propulsion System

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

### Cranes

Cranes	4 x NOV OC3932KCE Knuckle Boom Crane 85 mt
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### Other Information

Helideck	27.2m x 27.2m, 21 mt load capacity, rated for Chinook helicopters
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# BOUNDLESS

Revision Date: 04 October 2019



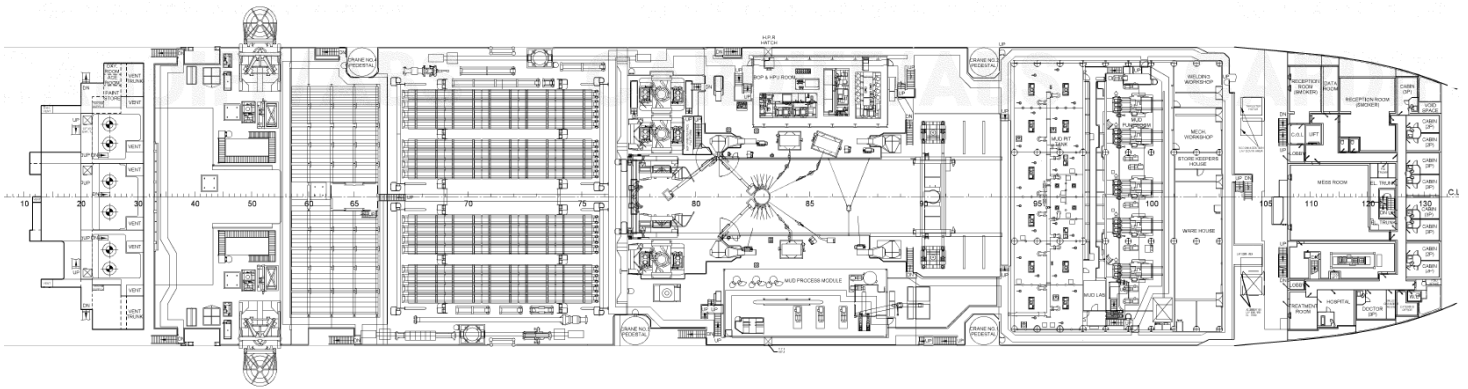
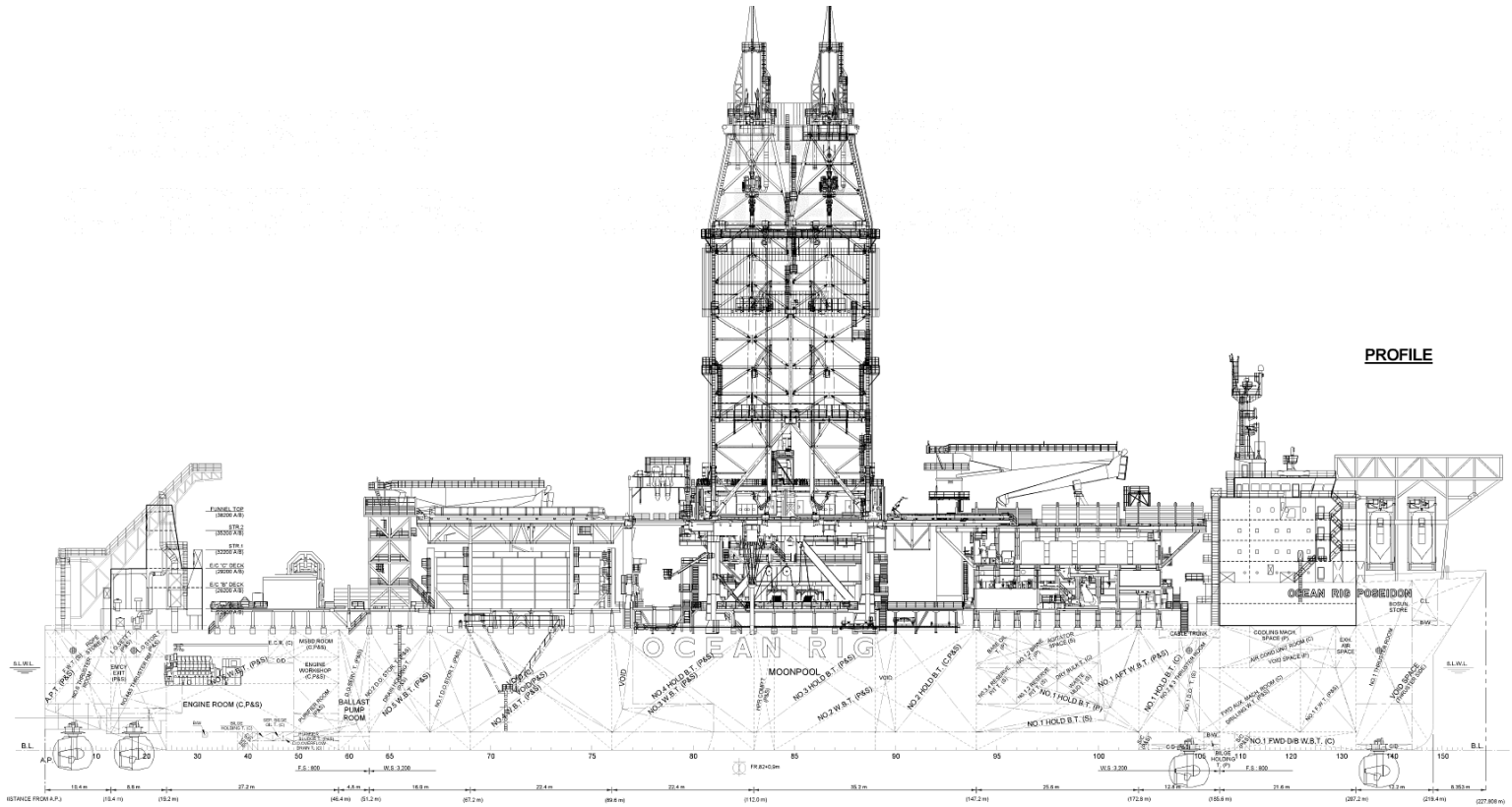
## SERVICE FOCUSED DATA DRIVEN PERFORMANCE ORIENTED

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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Revision Date: 05 December 2018

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