

OCEAN COURAGE



**Sixth Generation
Ultra-Deepwater DP
Semisubmersible**

GENERAL DESCRIPTION	
Design	F&G ExD Millennium
Year Entered Service	2009
Classification	ABS +A1, Column Stabilized Drilling Unit, Circle E, +AMS, +DPS-2
Main Deck	244.2ft (74.42m) Long x 244.2ft (74.42m) Wide
Draft	59ft (17.98m) Operating, 43.5 (13.26) Transit
Displacement	46,700MT Operating, 33,000MT Transit
Variable Deck Load	8,100MT Operating, 5,600MT Transit
Transit Speed	up to 6 knots
Water Depth	10,000ft (3,048m) designed
Drilling Depth	40,000ft (12,192m)
Accommodation	164 people
Helideck	Eurocopter EH-101 CAP 437 and NORMAM 27 compliant

DRILLING EQUIPMENT	
Derrick	Aker MH AS Quad 210ft high with 46ft x 52ft base, hook load capacity 2,500 kips
Drawworks	Wirth GH-4500, three AC motors, 3,150hp total output, with 2" drilling line
Compensator	Active/Passive compensator, 1,500 kips capacity with 25 ft stroke
Rotary Table	Wirth RTSS, 60 1/2" x 2000kips static
Top Drive	1x Aker MH Vertical Pipe Handler 3 1/2" to 14" Independent offline standbuilding 3 1/2" to 14"
Fingerboard Capacity	DP – 13,824 ft up to 5-7/8" OD DP – 26,112 ft up to 6-5/8" OD BHA – 2,362 ft up to 9 1/2" OD CSG – Adjustable fingerboard up to 14" OD
Mud Pumps	4x Wirth TPK AS 2,200hp triplex, 7,500 psi
Shale Shakers	6x Derrick / FLC-503 VE, 1,650 gpm

CRANES	
Deck Cranes	2x 100 ton Seatrax S10832 with 170 ft boom 1x 15 ton Maritime Hydraulics knuckle-boom with 3 1/2" – 20" pipe gripper
Gantry	1x MH vertical riser handling gantry
X-Mas Tree / BOP	1x MH gantry / 1x MH Gantry

STORAGE CAPACITY		
Liquid Mud	18,986 bbls	3,018 m ³
Base Oil	4,718 bbls	750 m ³
Brine	4,801 bbls	763 m ³
Bulk Mud & Cement	34,114 ft ³	966 m ³
Sack Storage	6,100 sacks	6,100 sacks
Fuel	21,043 bbls	3,345 m ³
Drill Water	14,613 bbls	2,323 m ³
Potable Water	10,676 bbls	1,697 m ³

SUBSEA EQUIPMENT	
Diverter	Vetco KFDS-CSO 60-1/2" Max Bore Size 20" Working Pressure 500 psi
BOP Stack	Cameron TL 18 3/4" 15,000psi six-ram preventer 2x Cameron DL 18 3/4" 10,000psi annular preventers APIS53 compliant 2x BSR 5k bonnets w/ shearing capability to 85.3ppf 10-3/4" casing
C&K Manifold	3 1/16", 15,000 psi
Marine Riser	Cameron 21" Load King 75ft per joint, 4 1/2" C&K lines Vertical riser storage bay for 99 joints (7,425 ft)
Tensioners	6x 600 kips AKER MH AS Direct Acting Tensioner System Each capacity 416.5 sT with 50 ft stroke
Moonpool	135.6ft x 29.5ft (41.3m x 9m) 1x X-Mas Tree Trolley with 150 mT capacity

POWER GENERATION	
Main Power	8x ABB / AMG 0710Lt08 LSE rated 4,800 kW / 900 rpm
Emergency Power	Caterpillar 3512 diesel engine rated 1,300 kW @ 1,800 rpm

STATION KEEPING / PROPULSION SYSTEM	
Thrusters	8x Rolls Royce Ulstein Aquamaster Total HP per Thrust 3800KW / 60.3 mT Variable speed, fixed pitch, fully azimuthing
DP System	Kongsberg KPOS-32 / Full DP - DP-2 Enhanced

OTHER INFORMATION	
Flare Booms	Deployable and retractable
MPD	Ready (hard piping installed)

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