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General Information

Rig Name	Platinum Explorer
Rig Type	Ultra Deepwater Drillship
Rig Design	DSME 10,000
Year Built	2010
Year Upgraded	N/A
Builder	DSME
Class	ABS ✕ A1, Drillship, Ⓢ, ✕ AMS, ✕ ACCU, ✕ DPS-3, SH- DLA
Flag	Bahamas

General Specifications

Hull Length	781'
Hull Breadth	138'
Hull Depth	62'
Moon Pool	82' x 41'
Accommodation	180 POB
Helideck	CAP437, 90ft Octagon, Sikorsky S-61N, S-92 Compatible

Operational Capabilities

Water Depth (Design)	10,000'
Water Depth (Outfitted)	10,000'
Water Depth Min	1,500'
Load Line Draft	42.6'
Load Line Displacement	111,762 MT
Operating Draft	39.3'
Operating Displacement	102,826 MT
Transit Draft	27.8'
Transit Displacement	71,832 MT
Drilling Depth	40,000'
Variable Deck Load	20,000 MT (Drilling) 20,000 MT (Transit)
Max Setback	1,000 MT 500 MT (In field Transit)
Transit Speed	up to 10 kts

Storage Capacities

Diesel	55,404 bbls
Drill Water	14,911 bbls
Potable Water	8,630 bbls
Bulk Barrite/Bentonite	15,821 ft ³
Bulk Cement	15,821 ft ³
Base Oil	5,118 bbls
Brine	5,118 bbls
Active Mud	8,942 bbls
Reserve Mud	10,564 bbls
Slugs	758 bbls
Mud Treatment Tanks	506 bbls
Trip Tank	137 bbls
Sack Store	10,000 sacks

Mud System

Working Pressure	7,500 psi
Mud Pumps	4 x AKMH Wirth model TPK-7½ x 14 / 2200 CL, Gear driven, 2,200 hp 7,500 psi c/w 2 x GE AC motors
Shakers	6 x DP 626 , 7G, BEM dual deck shakers (2 configured as Mud cleaners with 4 x 20" cones each)
Mud Manifold	1 x Techdrill, API 6A PSL dual 5" NB 7,500 psi WP

Cement System

Working Pressure	15,000 psi
Cement Manifold	1 x Techdrill, API 6A PSL single 3" NB 15,000 psi WP
Cement Unit	Free Placement Schlumberger Dowell, CPS-763 AC offshore cementing skid, 15,000 psi WP

Drilling Package

Derrick	Aker Kvaerner Maritime Hydraulics (AKMH) Single Pyramid Dynamic Derrick, 46 ft x 52 ft base x 210 ft clear working height, API-4F 3rd Edition
Hookload Capacity	2 million lbs static

Racking Capacity	6 ⁵ / ₈ " Drill pipe—368 stands x 135 ft (49,680ft) 9 ¹ / ₂ " Drill collars— 8 stands x 135 ft (992 ft) 13 ³ / ₈ " casing - 35 stands x 135 ft (4,725 ft) or, 9 ⁵ / ₈ " casing - 54 stands x 135 ft (7,290 ft) or, 7" liner – 91 stands x 135 ft (12,285 ft)
Drawworks	1 x AKMH Wirth GH 4500-EG-AC electric motor driven 4,500 hp,
Rotary Table	1 x AKMH Wirth RTSS 60 ¹ / ₂ ", hydraulically driven, 20 rpm, 1,000ton capacity
Iron Roughneck	1 x AKMH 1899 MKII Iron Roughneck for Well Center Operations, 2 ³ / ₈ " to 9 ³ / ₄ "
Topdrive	1 x AKMH model DDM-1000-AC-2M, 1,000 tons hoisting capacity, AC motor driven, 87,020 ft lbs max continuous torque, 94,395 ft lbs intermittent, 0 -240 max rpm, 2 x 1150 hp AC motors

Tubular Handling Capabilities

Pipe Feeding Machine	1 x AKMH Tubular Feeding Machine, SWL 15 MT, 2-7/8" to 30", suitable for handling 45 ft tubular
Pipe Rackers	2 x AMH Bridge Racking cranes, Lower Guiding Arms, each 15 MT, 3 ¹ / ₂ " to 13 ⁵ / ₈ "
Riser Feeding Machine	1 X AKMH Riser Feeding Machine, SWL 40 MT, 2-7/8" to 54", suitable for handling 83 ft tubular
Manipulator Arm	1 x AKMH Drill Floor Manipulator arm, 3 ¹ / ₂ " to 60"
Pipe Deck Handling Crane	1 x AKMH PDPH, SWL 4.5 MT to 9 MT, 2 ⁷ / ₈ " to 20"

Offline Capabilities

Offline Stand Building	1 x AKMH Stand building arm for offline tubular handling lifting capacity of 6.4 MT, 15 ft to 45 ft tubular, 2 ⁷ / ₈ " to 13 ⁵ / ₈ "
Offline Roughneck	1 x AKMH 'Torque Master' for tubular range 2 ⁷ / ₈ " to 20" for offline operations.
Offline Mouseholes	2 x AKMH Hydraulic Mousehole for up to 13 ⁵ / ₈ "
Offline Bucking Unit	1 x McCoy Clincher Bucking Machine RP3014, Headstock – 3 ¹ / ₂ " to 13 ¹ / ₂ ", Tailstock – 3 ¹ / ₂ " to 17 ¹ / ₂ ", Make-up torque 160k ft-lbs; Break-out Torque 190k ft-lbs

Handling Systems

Deck Cranes	- 3 x Liebherr model BOS 4200-85, 85 mt max load at 9 m radius & 32.7 mt at 46 m radius (static), Auxiliary hook 15 mt max load at 51 m radius - 1 x Liebherr model BOS 4200-50, 50 mt max load at 9 m radius & 34.2 mt at 46 m radius (static), Auxiliary hook 15 mt max load at 51 m radius
Riser Gantry Crane	1 x AKMH Riser Gantry Crane, SWL 40 MT
BOP Handling	1 x AKMH BOP Trolley, SWL 460 MT 2 x AKMH LMRP Overhead Gantry Crane, each SWL 75 MT
Xmas Tree Handling	1 x AKMH Xmas Tree Trolley, SWL 150 MT

2 x AKMH Xmas Tree Overhead Gantry Crane, each SWL 75 MT

Well Control Equipment

Blowout Preventer	1 x Cameron BOP, 18 ³ / ₄ " 15,000 psi, 5 x ram cavities (2 x Type TL doubles, 1 x TL Singles), 1 x Type DL, 18 ³ / ₄ ", 10,000 psi annular preventer
LMRP	1 x Cameron Type DL, 18 ³ / ₄ ", 10,000 psi annular preventer
Diverter	1 x Hydril 60 ¹ / ₂ " 500 psi with 16" diverter lines, 16" flow line, 16" Mud Gas separator line, 6" trip tank line, 4" fill up line. 21" nominal bore.
BOP Control System	Cameron Multiplex (MUX) BOP Control System for up to 10,000 ft water depth capability
C & K Manifold	1 x WOM, API 16C 3 ¹ / ₁₆ " 15k HP side / 4 ¹ / ₁₆ " 10k LP side, 2 manual chokes, 2 remote chokes, double 15K isolation valves, Glycol Injection unit, Split Buffer system, Bypass Line, Port/Stbd emergency overboard line

Riser Equipment

Riser	21" Aker Kvaerner CLIP riser w/ 15k psi, 4.5" ID Choke and Kill lines, 5k psi, 4" ID booster line, 2 x 5K psi 3.5" ID hydraulic lines
Riser Tensioning	8 x AKMH Dual wire line tensioner, 3,200,000lbs combined capacity with a maximum net effective stroke of 12.5 ft.
Motion Compensators	- 1 x AKMH Crown Mounted Compensator, rated at 908mT / 2000 kips (static) and 454mT / 1000kips (Compensation) with a 25 ft stroke - 1 x AKMH Active Heave Compensator, rated at 25.6mT with a 25 ft stroke, AHC WD (while drilling) upgradeable

Power Generation

Main Engines	6 x STX MAN 14V32/40 diesel engines, 7,000 kW @ 720 rpm c/w HHI
Emergency Engines	HSJ7 1205-10P Electric Generator 1 x STX MAN B&W diesel engine, 2,100kW at 720 rpm c/w HHI Electric Generator

Station Keeping & Propulsion System

DP Control System Thrusters	GE Converteam, DPS32+ IJS 6 x 4.6 MW Rolls Royce Ulstein Aquamaster UUC 405 Azimuth (81.8 mt thrust nominal), variable speed, fixed pitch, fully azimuthing
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Life Saving Systems

Lifeboats	6 x Norsafe, 60 man TEMPSC, davit launched lifeboats (200 % of POB)
Fast Rescue Craft	1 x Vanguard, FRC, 6 man
Life Rafts	18 x 25 man Viking 25DK+ inflatable life rafts (250% of POB)

Drill Pipes & Fishing Equipment

Drill Pipes	Various, details available on request
Fishing Equipment	Various, suitable to fish for Contractor's drill pipes