


THE FLEET

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Fleet Specifications

Deepwater Frontier		
Rig Type	5th Generation Deepwater	
Design	R&B/Samsung, based on double hull	
Builder		
Year Built	1999	
Classification	ABS + A1E, MODU, FSO, + AMS, +ACCU, +DPS, DLA, OMBO, Cargo Gear Registry	
Flag	Panama	
Accommodation	Air-conditioned to accommodate 160 people.	
Helideck	Equipped to accommodate Sikorsky S61-N and Super Puma 322L	
Moonpool	48 ft x 48 ft	
Station Keeping	Kongsberg Simrad, SDP-32 triple computer voting	
Max Drill Depth	30,000 ft / 9,144 m	
Max Water Depth	10,000 ft / 3,048 m	
Operating Conditions	Winds 63.7 to 129.6 kph (depending on wave and current), damaged stability to 92.6 kph	
Storm Conditions	Winds 63.7 to 129.6 kph (depending on wave and current)	

Technical Dimensions

Length	726 ft	221 m
Breadth	137 ft	42 m
Depth	66 ft	20 m
Operating Draft	56 ft	17 m
Ocean Transit Draft	44 ft	14 m
VDL - Operating	20,800 mt	22,928 st

Capacities

Liquid Mud	5,093 bbls	28,595 cu ft	810 cu m
Drill Water	17,610 bbls	98,871 cu ft	2,798 cu m
Potable Water	6,290 bbls	35,315 cu ft	999 cu m
Fuel Oil	28,300 bbls	158,890 cu ft	4,497 cu m
Bulk Mud		34,000 cu ft	962 cu m
Bulk Cement		34,000 cu ft	962 cu m
Sack Material	10,000 sacks	10,640 cu ft	300 cu m

Drilling Equipment

Derrick	170 ft. high with 40 ft. x 48 ft. base, dynamically designed to accommodate a top drive system; setback for 192 stands of 6-5/8 in. drill pipe, 228 stands of 5-1/2 in. drill pipe, and 16 stands of 9-3/4 in. collars, 2,000,000 lb. static load.
Drawworks	6600 hp; 1,500 kips hook load
Motion Compensator	Active Heave
Top Drive	Varco TDS-8S (AC), 750 ton
Rotary	60" opening, 1000 tons, 45000 ft-lbs @ 15rpm

Fleet Overview

Our Rigs

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Discoverer Clear Leader

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Pipe Handling	1 x Varco PHM-3i Pipe Racking System
Mud Pumps	4 x National 14P220, 7500 psi
Shale Shakers	4 x Derrick HI-G; 2x Derrick Flowline scalping shakers
Desander	
Desilter	
Mud Cleaner	Mud Cleaner: 2 x Derrick HI-G mud cleaner rated for 1500GPM
BOP	1 x 18-3/4" Cameron TL 15,000 WP; (Single + Doubles)
LMRP	2 x Annular type DL 18-3/4" 10,000 WP
Diverter	Hydril FS 21" bore (18" flow line and 14" diverter outlets)
Control System	Shaffer MUX System
Riser	21", 3" x 15K choke/kill line, 4" x 7.5K mud boost line
Riser Tensioners	8 x Maritime Hydraulics - Dual 160kips, max out
Guideline Tensioners	N/A
Podline Tensioners	N/A
Choke & Kill	3" x 15,000 psi; 2 x remote chokes; 1 x manual choke
Cementing	Halliburton Cement unit, 15000psi

Machinery

Main Power	Three each Wartsila 18V32 diesel electric engine generator sets arranged one each in engine rooms number one, two, and three rated at 7.0 Megawatts (9333 hp) each. Engines designed to operate on diesel or HFO.
Emergency Power	Main generator to provide 35,100 KW (47,000 hp). Emergency generator to provide 400 KW (536 hp).
Power Distribution	AC System
Deck Cranes	3 x 50 ton @ 43 ft (7224) Seatrax pedestal cranes, Model 7224; 1 x 85 ton @ 36 ft (8032) Seatrax pedestal crane, Model 8032; 2 x gantry cranes (pipe deck and riser storage area)
Thrusters	6 x Azimuth FPP Thrusters, 5360HP each
Propulsion	Same as Thrusters

Mooring Equipment

W inches		Quantity: no. 1	Make/model: Aker Maritime Pusnes Type 250 HW 15M.10/M20 CU	10.15	44.7 Tons @ 9 Mtrs/sec	Max pul 67 Ton	Brake Holding Load = 307 Ton	Type (electric/hydraulic /diesel): Pusnes / Korea- Hydraulic Power Packs	Motors per winch: no. 1	Motor make/type: Staffa
W ire/Chain	Make/type: CSSC Diameter: 97 MM K3 Useful length (nominal): 385 m									
Anchors	Type: Stockless type Weight: 16 tons									