



# ENERGY SEARCHER

Drill Ship  
Rig and Equipment Overview



## RIG SPECIFICATIONS

### GENERAL

Rig : Energy Searcher  
Flag: St. Vincent et Grenadines  
Owner: Jet Holding Ltd  
Year converted: 1981  
Year Upgrades: 1996, 2006  
Design: Norwegian Rig Consultants  
Builder: Eriksbergs Mekaniska Verkstads  
Classification: Lloyd's +100 – A1 Drillship

### POWER PLANT & TRANSMISSION MACHINERY

Main propulsion : Burmeister & Wain, 674 VTBF - 160  
Power Dist.: 7,200 hp  
Diesel Engines Power: 5 x Caterpillar D-399  
Max continuous power: 1325 hp.  
Fuel consumption: operating: +/- 12m3/day. Moving +/- 25.5m3/day.  
SCR System: 5 x Hill Graham model 1800 G SCR  
Cranes: 3 X FMC link belt ABS/API, 238A, 40 tons SWL

### DRILLING EQUIPMENT

Derrick: Maritime Hydraulics 160 ft x 40ft x 40ft base. Static hook load: 1,250,000 lbs with 12 lines.  
Drawworks: Gardner Denver 3000E, with 2x GE 752, 3000HP.  
Rotary: Wirth RTSS 49 1/2", fitted with Varco MPCH bushings.  
Top Drive: Maritime Hydraulics, 650 DDM. Max speed: 270 rpm.,  
Traveling Block: Maritime Hydraulics MH 1066.

Drill pipe: 14,500ft 5" S135 19.5lbs / ft Connection: NC50  
Pipe Handling: Maritime Hydraulics upper intermediate and lower arms to fit from 31/2" to 9".  
Motion Compensator: NL Shaffer, 18ft stroke rated to 1,000,000 lbs in locked position

Mud Pumps: 2 x Gardner Denver PZ 11, with 2 x GE752 each rated at 800 hp.  
Shale Shakers: 4x Thule Rigtech linear motion VSM 300

### MOORING

Winches: 4 X double windlasses  
Wire/Chain: 3" K4 chain X 3,000 ft , MI X ED  
Anchors: 8 EA – 13 ton EA  
Positioning: NA

### MAIN DIMENSION/ DRAFT/DISPLACEMENT

Length: 610 ft, 8 1/4"  
Breadth: 79ft, 7"  
Depth: 39 ft, 3"  
Operating Draft: 28ft 6"  
Ocean Transit Draft: 28 ft, 6"  
Storm Draft: 28ft 6"  
Drilling displacement: 24989 tons  
Transit displacement: 25003 tons  
Lightship displacement: 15929 tons including permanent ballast 4460 tons

### OPERATING PARAMETERS

Max Water Depth: 2,500 ft  
Max Drilling Depth: 25,000 ft  
Transit Speed: 9 knots (depending on weather conditions)  
Operating Conditions: 40 knot winds, (26 knots Crane) 15ft wave  
Storm conditions: 83 knot winds 38.5ft wave

### CAPACITIES

VDL – Operating: 9,157 tons  
VDL – Storm: 9,157 tons  
VDL – Ocean Transit: 9,157 tons  
Liquid Mud: 2,364 bbls  
Bulk Bentonite/Barite: 10,000 ft<sup>3</sup>  
Bulk Cement: 6,000 ft<sup>3</sup>  
Sack material: 570 m<sup>3</sup>  
Drillwater: 8,200 bbls  
Portable Water: 5,540 bbls  
Fuel Oil: 1300 tons

### SUBSEA SYSTEMS

BOP: 18-3/4" 10,000 psi stack consisting of:  
1 x Shaffer type, Triple  
1X Shaffer type, Single  
LMRP: Shaffer Dual, Oil States 18 3/4" 2K Flex Joint,  
Shaffer dual "SL" 5K annular  
BOP Handling: Skid Mounted Riser Details: 21" OD, marine riser C&K  
Choke & Kill: Cameron 10,000 psi, H<sub>2</sub>S service  
Diverter: Regan system 500 psi, 2 X 12" lines  
Riser Tensioner: 10 EA Shaffer 80-K, 80,000 lbs capacity  
Guideline Tensioner: 6 Shaffer 16,000 lbs  
Pod Tensioner: 2 Shaffer 16,000 lbs

### OTHERS

Moon Pool: 23 X 23 ft  
Helideck: Certified for Sikorski-61N  
Accommodations: 110 persons