



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: 1982
Year of last modification: 2008
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, 2000HP.
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" SI35 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 drum windlasses
Wire/Chain: 3" K4 chain X 3,000 ft, MI X ED
Anchors: 8 EA – 13 tonnes 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 tonnes
Transit displacement: 25003 tonnes
Lightship displacement: 15929 tons including permanent ballast 4460 tonnes

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 tonnes
VDL – Storm: 9,157 tonnes
VDL – Ocean Transit: 9,157 tonnes
Liquid Mud: 2,364 bbls
Bulk Bentonite/Barite: 10,000 ft³
Bulk Cement: 6,000 ft³
Sack material: 570 m³
Drillwater: 8,200 bbls
Portable Water: 5,540 bbls
Fuel Oil: 1300 tonnes

SUBSEA SYSTEMS

BOP: 18-3/4" 10,000 psi stack consisting of:
1 X Shaffer, Triple
1 X Shaffer, 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, H₂S service
Diverter: Regan system 500psi, 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 ea

OTHERS

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