



DYNAMIC DRILLING PTE LTD

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VALIANT DRILLER

The Valiant Driller, ex- Ensco 85, is a Marathon Le Tourneau Class 116-C cantilever jack up which was extensively refurbished/upgraded in 2012 at Keppel FELS Singapore and in 2015 at ASL Yard Batam Indonesia. The rig is capable of operating in water depths up to 300 feet and is equipped with a 10,000psi Well control system, and is capable of drilling to depths of up to 25,000 feet. Rig management system is certified to **ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007** standards

GENERAL INFORMATION

Design : Marathon Le Tourneau Class -116-C
Builder : Marathon Le Tourneau
Year Built : 1981, Singapore
Upgrade : 2012 (major upgrade) and in 2015 at Batam Indonesia
Previous Name : Ensco 85
Flag : Liberian
Classification : ABS-A1-MODU
Helideck : S-61
Accommodation : 90

MAIN DIMENSIONS

Length : 243 ft. (299.5 ft. including Helideck)
Breadth : 200 ft.
Depth : 26 ft.
Legs : 3 x 410 ft. - Square Truss
Leg Spacing : Transverse 142 ft. / longitudinal 129 ft.
Cantilever: : 45 ft. x 12 ft. (stbd and port)
Spud Cans: : 46 ft. diameter

STORAGE CAPACITIES / WATER TREATMENT

Variable Deck Load : 6,165 kips
Cantilever Load : 1,900 kips
Total Drilling Load : 1,900 kips combined total
Tubulars in Pipe Rack : 800 kips (setback 600kips)
Liquid Mud : 1,780 bbls
Barite/Bentonite : 5,050 cu. ft.
Cement : 4,200 cu. ft.
Sacks : 2,500 sacks
Drill water : 8,985 bbls
Potable Water : 1,294 bbls (can be increased)
Brine Storage : 614 bbls (brine/base-oil)
Base Oil Capacity : 1,905 bbls (incl 614bbl brine/base-oil tank)
Fuel Oil : 1,780 bbls
Watermaker : 2 x Alpha Laval D-PU-36-C100/125
Others : 2 x Alfa Laval desalination plant, capacity 1,300 gpd

MACHINERY

Main Power : Total 4,960 kw from 2 x EMD 12-645-E9B turbo each rated at 2,500 hp and 1 x EMD 12-645-8 Rootes Blown diesel rated at 1,650 hp
Power Distribution : 600V/480V/240V/120V AC, 60Hz, 750V DC SCR system
Emergency Power : 1 x 480V AC, 60Hz, 350kw generator

OPERATING PARAMETERS

Water Depth : 300 ft.
Min Waterdepth : 30 ft
Max. Drilling Depth : 25,000 ft.

DRAFT AND DISPLACEMENT

Transit Draft : 16 ft.

JACKING

Make/Speed : Letourneau/1.5/min,

Mooring

Winches : 2 nos Letourneau

DRILLING EQUIPMENT

Derrick : Dreco Beam Leg 170 ft. x 30 ft. x 30 ft.;
Hookload : 1,000,000 lbs (max)
Drawworks : National 1320-UE, 2,000 hp
Racking : Capacity of 15,000 ft. of 51/2"
Top Drive : Varco TDS-4H with soft torque control, 45,500 ft./lbs. cont. torque low gear @ 0-116 RPM
Pipe H'dling : LT1/DDTD - 750
Iron Roughneck : WR 120
Rotary : National C-375 independent Hydraulic drive
Power Slips : NOV SA- PS - 16
Travelling : National H-500 block; swivel: National P-650
Mud Pumps : 3 x National Triplex 12-P-160, 1,600 hp
Shale Shaker : DATA 4 x VSM300

WELL CONTROL SYSTEMS

BOP : 1 x Cameron "U" double ram, 1 x Cameron "U" single ram, 10,000psi; 13-5/8" Shaffer 5,000psi annular.
1 x 21 1/4 Hydril MSP 2K, 20 3/4" Shaffer x3K LWS Double
BOP Handling: 2 x 30 tons JD Nehaus pneumatic chain hoist dual handling capabilities rated@60mT
Control System : Koomey 160-11S type 80 uni, 8 stations
Diverter : 1 x Regan KFDJ 27-1/2" (2,000psi)
TV System : Roloos CTV
Choke and Kill : 3-1/16" x 10,000psi with 2 Quality Oiltools remoteoperated chokes

HOISTING EQUIPMENT

Deck Canes : 1 x Dreco 48 DNS 120 15, 40.75tons@40ft
2 x MLT PCM-120 AS, 32tons@40ft