DRILL FORCE I Jack-Up (MODU)

GENERAL INFORMATION
Flag: Liberian
Previous Name(s): PETROBRAS VI
Year Built: 1982
Builder: Davie Quebec Canada by Davie Shipbuilding Limited, Quebec, Canada, in Vicksburg
Design: Designed by LeTourneau Class 116-C
Classification: ABS A-1 Self-elevating Drilling Unit

MAIN DIMENSIONS
Length (molded) Including Helideck: 243' (74.09 m)
Breadth (molded): 100'35" (61.11 m)
Hull Depth: 26 ft
Leg Length (3 Nos Square Trelice): 410'38" (125.08 m)
Leg Spacing: 129ft Longitudinal Leg Centres, 142 ft. Transverse Leg Centres
Cantilever Envelope: Reach AFT, From/to 45 ft
Transverse Port/STB 12/12 ft.
Spud Can Area / Diameter: 154 SqM / 46'

OPERATING PARAMETERS
Water Depth: 300 ft (76 m)
Max. Drilling Depth: 23000 ft
Available Leg Length below Hull: 358 ft
Air Gap: 35 ft – 50 ft (site specific / storm Criteria)
Transit Speed: 4.0 knots (Leg 12.6 ft below hull, 3 tow boat with 80 bollard pull
Survival Conditions: 100 Knots wind, 50 ft wave, 15 sec wave period
Criteria Design: Wind: 70 Knots wind

MACHINERY
Main Engines: 3 x EMD 16-645-E8 engines (2200 HP ea)
Main Generators: EMD 600 Volts @1500 KW
SCR system: 4 X Ross Hill
Emergency Power: One CAT / D379 engine, 536 hp @ 1200 RPM
(Battery)
Emergency Generator: Kato 400 KW

DRAFT AND DISPLACEMENT
Transit Draft: 14.98 ft
Transit Displacement: 11119.270 Ton

DERRICK: Pyramid API-4E with 160 ft height, 30 ft x 30 ft base,
825,000 lbs static hook load
Drawworks: National Oilwell E-3000, 2,000 HP, 7838
Auxiliary Brake, Battery Back-up
Crown Block: Pyramid, 500 tons, 7 x 60" sheaves for 1-3/8" drilling line
Traveling Block: Oilwell B 500 TB Block with Dynaplex
-500 hook, 500 short tons, 6 x 52" sheaves for 1-3/8" drilling line.
Rotary Table: National C-375 X 37-1/2" Opening, Independent electric drive x 1,000 kips max load
Top Drive: NOV PS2/500, Power Swivel
Handling: AR 3200 Iron Roughneck
Cementing: N/A
Mud Pumps: 2 x National Oilwell A-1700-PT Triplex, each powered by two EMD D-79 DC motors

 MOORING SYSTEM
Anchors: 02 Nos , Anchor Wire: 2 x 1-1/2’ 2500’
Anchor Windlasses: 4 X Danforth

CAPACITIES
While Drilling Combined Rotary/ Hook/Setback load: 509t
Maximum Rotary Load: 408.2t
Transit VDL: 1151.9t
Drilling VDL: 1579.9t
Liquid Mud: 1,669 bbls
Bulk Mud / Cement: 3,800 ft3/3,600 ft3
Sacks: 141.8 m
Drill Water: 6657 BBLs
Fuel Oil: 2967.5 BBLs
Lube Oil: 5.6 m3
Hydraulic Oil: 36.4 m3
Dirty Oil: 8 m3

WELL CONTROL SYSTEM
BOP: Shaffer LWS 21-1/4” X 2000 PSI Double Ram, Hydril GK
-1X 13-5/8” X10000 PSI Annular, Shaffer SL Double Ram Hub
Type 1X 13-5/8” x 10,000 psi, Shaffer SL Single Ram Hub
Type 1X 13-5/8” x 10,000 psi
BOP Handling: 2 X hoist and trolley handling system
Control System: Koomey Make, T-201603 Koomey accumulator unit with master control panel.(T series)
Diverter: Regan KFDJ-2000, 30° - 14° (KFD)
Choke and Kill: 3-1/16”X10M with 2 Hydraulic & 2 Manual Chokes

HELIDECK
Sikorsky S-61, 121.34 M Diameter / 18,000 lbs

JACKING AND SKIDDING SYSTEM
Marathon Le Tourneau

ACCOMODATION
Three floors of air conditioned cabins for 119 personnel

GYM: A Fully Equipped Gym

ADDITIONAL DATA
Mud Cleaning Facilities: 3 X Derrick Corp, FLC Shakers
Desander: Derrick, Flo Line 2000 (10 cones)
Mud Cleaner: Derrick, FLC 12X4” Cones
Mud Agitators: 4 x Active Pits – 1 x Slug Pit
Degasser: One Derrick Vaccu Flo 1000
Oily Water Separator: 1 no, TE 25 El
TV System: PELCO Make Cameras in Derrick, Shakers, Engine Room, And other Rig area
Rig Communication System: Gai-Tronics Make, Explosion proof
Instrumentation System: MD Totco Make