



ENERGY EXERTER

Jack Up
Rig and Equipment Overview



RIG SPECIFICATIONS

GENERAL

Rig Energy Exerter
Flag Liberia
Owner Energy Exerter Limited
Previous Name(s) STC Descartes; Trident XI, Maersk Exerter
Year Built 1982
Builder CFEM, Dunkerque, France
Design CFEM T-2005-C, self-elevating cantilever jackup
Classification DnV + Maltese Cross A1, self-elevating unit HELDK

MACHINERY

Main Power 3 X Wartsila 12V22MD, 2,000 kW diesel engine; 3 X Leroy Somer S7 2,000 kVA generator
Power Distribution 2 X dual dc drive ABB, PSD 747, output 750 V; 3 X single dc drive ABB, PSD 747, output 750 V
Emergency Power Motormic 12P 15 SR marine generator,

DRILLING EQUIPMENT

Derrick Joseph Paris 160 X 36X 36 ft; 1,400,000 lb gross nominal capacity; static hook load 500 st; Crown block: Joseph Paris, capacity 500 ton, 7 X 60" diameter sheave
Drawworks National 1625-DE, 2,000 hp, driven by 2 X dc motor; with Baylor Elmagco 7838 eddy current electromagnetic brake
Rotary National C-375, 37-1/2" opening, with hydraulic independent drive
Top Drive Varco TDS-4, driven by 1 X GE 752 dc motor, 1,100 hp
Traveling Block/hook: Oilwell 500 ton with 6 X 60" sheave, grooved for 1-1/2" wireline, 500 ton; swivel: National P-650
Handling Varco AR3200 Ironrough neck, B&V 500 flush-mounted power stops 3 1/2" drillpipe to 9" drill collar
Cementing Dowell Schlumberger CBS-362 twin pump, 10,000 psi; recirculating mixing unit; liquid additive system
Mud Pumps 2 X National 12-P-160, triplex each driven by 2 X 800 hp Jeumont Schneider CIR 423 A dc motor

MOORING

Winches 4 X Brissonneau et Lotz MB 420-F20 single drum winch, pulling capacity 29 ton on first layer, 5.5 ton on last layer; 2 X Brissonneau et Lotz single drum winch, pulling capacity 25 ton
Wire/Chain Bow line 2 1/4" 700m, 220t break strain; stern line 1 1/4" 900m 66t break strain
Anchors 2 X Vicinay high holding power 18,357 lb, holding power 100 ton; 2 X Delta Flipper, high holding power 5,512 lb, holding power 48 ton
Cranage 2 X National OS-215 pedestal crane, 41 ton with 120 ft boom, port and starboard
Helideck S-61; 83 ft diameter
Diving Spread Contractor supplied
Jacking and Skidding System Electromechanical double rack and pinion unit with 24 pinions per leg; Jacking Speed: 1.5ft/min
Accommodations Max POB 86 berths

MAIN DIMENSION/ DRAFT/DISPLACEMENT

Length 245 ft
Breadth 283 ft
Depth 24.6 ft
Legs 3 X 438.2 ft; leg below hull 367 ft
Leg Spacing 216 ft from centre forward leg to centre of aft leg
Cantilever 45 ft lateral; 12 ft transverse each side
Spud Tanks 46 ft diameter X 13.12 ft deep
Transit Draft 32.8 ft loadline; 28.9 ft lightship
Transit Displacement 13,050 ton

OPERATING PARAMETERS

Max Water Depth 300 ft
Max Drilling Depth 25,000 ft
Survival Conditions Wind: 70 knots(gust); waves: 23m; period: 16 sec
Criteria Design Wind: 50 knots(gust); waves: 10m; period: 11.4 sec

CAPACITIES

Variable Deck Load 2,995 ton (6,708,800 lb) incl hook load; 1,686 ton towing; 1,686 ton jacking; 2,487 ton drilling (excl hook load)
Cantilever Load Hook load static with top drive: 1,000,000 lb; rotary: 1,000,000 lb; setback: 550,000 lb
Tubulars in Pipe Rack Main deck: 1,389,000 lb; Cantilever deck: 485,000 lb
Bulk Mud/Cement 5,509/5,509 ft³
Liquid Mud 1680 bbl
Sacks 4000 sacks
Drillwater 4572 bbl
Potable water 1987 bbl
Fuel oil 2378 bbl
Others Pre-load and ballast water: 37657 bbl; base oil: 1257 bbl; brines-1270bbl; Atlas AFGU 2 SD, two stage distilling unit, capacity 11 gpm

BOP SYSTEMS

BOP 13-5/8" NL Shaffer annular preventer, 5,000 psi annular; Cameron double U, hydraulic operated double ram, 13-5/8", 10,000 psi; Cameron single U hydraulic operated single ram preventer, 13-5/8" 10,000 psi; 21-1/4" BOP system: NL Shaffer annular preventer 21-1/4" 2,000psi; 2 X Cameron single U ram preventer 21-1/4" 2,000 psi
BOP Handling 2 X 25 ton overhead crane
Control System Koomey T25230, accumulator capacity 32 X 11-gallons, 3,000 psi bottles
Diverter Regan KFDJ, 500 psi
Drillpipe 15,000 ft 5"
DrillCollars 6 X 9-1/2"; 15 X 8"; 30 X 6-1/2"; 17 X 4-3/4" drillcollars
Choke and Kill Choke and kill manifold: Cameron 10,000 psi, H₂S trim; choke and kill lines: 2 X 3" id 10,000 psi, 55 ft long hoses with a 3 1/8" connector each end

Additional Data A. 1 x Swaco BEM-600 shale shakers; 3 X Swaco BEM-650 Shakers; 1 X Wellco 3200 degasser; 1 X mud/gas separator
B. Mud mixing system: 3 X 420 bbl and 1 X 280 bbl mud tank; 2 X 3" X 4" Halliburton automixer
C. Mud pump: Mission 6" X 8" 100 hp supercharging pump
D. Lifesaving equipment: 2 X Harding 50-man lifeboat; 8 X Viking 25-man life raft; 1 x Viking 12 man life raft; 1 X 32- Man Watercraft lifeboat.