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ENSCO 105

GENERAL INFORMATION

Flag Liberian
Previous Name(s) Chiles Galileo
Year Built 2002
Builder AMFELS Inc. Shipyard Brownsville, Texas
Upgrade August 2010
Design Keppel FELS Mod V Class B
Classification A. B. S. Maltese Cross A-1

MAIN DIMENSIONS

Length 225'
Breadth 208'
Depth 25'
Legs 3 x 517' Triangular Truss
Leg Spacing Longitudinal leg centers 129' transverse leg centers 142'
Cantilever Maximum 70' overhang from stern to rotary centerline; maximum 15' rotary displacement to either side of longitudinal centerline; Drilling pattern length 70', width 30'
Spud Cans 47' diameter x 19' high
Deck Area 6,100 sq ft (main deck storage capacity)

DRAFT AND DISPLACEMENT

Transit Draft 16'
Transit Displacement 15,412 ton

MACHINERY

Main Power 5 x Cat Model 3516-B diesel engines, 1,855 HP; 5 x 2,150 KVA, 600 V; 5 x Cat Sr-4 generators 600 V
Power Distribution Ross Hill SCR power units with controls for 5 x DC drilling motors
Emergency Power 1 x Cat 3516-B, rated 1,855 HP; 2,150 KVA, 600 V; Cat SR4 generator, 600 V

OPERATING PARAMETERS

Water Depth 400' (16' - 400')
Maximum Drilling Depth 30,000' with 5" DP
Leg Penetration 25'
Air Gap Minimum 36'; maximum 121'
Transit Speed 4.5 knots historical
Survival Conditions Water depth 328'; wind 100 knots; wave height 63'; wave period 14 seconds
Criteria Design 70 knot winds, 40 ft. seas, -10 C

DRILLING EQUIPMENT

Derrick Dreco standard 170' x35' x 32' rated 1,500,000 lb
Drawworks National 1625-UDBE, 3,000 HP; Elmagco 7838 Baylor brake
Rotary National D-495, 49 1/2" opening, driven by 1 x GE752 DC Hi-Torque electric motor 1,085 HP
Top Drive NOV TDS4-H, rated 750 tons
Travelling Dreco 760-TB-750-8 rated @ 750 tons
Handling NOV AR3200
Cementing Dowell Schlumberger. (Free placement only)
Mud Pumps 3 x National 14-P-220, triplex, 2,200 HP
Drill Pipe 5 1/2" range 2, 24.7ppf S-135; FH connections
Drill Collars 6 1/2"; 8 1/4"; 9 1/2"

HOISTING EQUIPMENT

Crane 3 x Dreco pedestal cranes with 120' boom, 50 ton at 20' radius

CAPACITIES

Variable Deck Load 8,200 kips (3,718 mt)
Cantilever Load 2,250 kips
Total Drilling Load 2,250 kips
Tubulars in Pipe Rack 30,000' x 5" drill pipe.
Liquid Mud 3,575 bbls
Bulk Mud/Cement 6,000 cu. ft. / 5,100 cu. ft.
Sacks 5,900 sacks
Drillwater 15,715 bbls
Potable Water 2,010 bbls
Brine Storage 2,276 bbls
Base Oil Capacity 662 bbls
Fuel Oil 2,584 bbls
Water Maker Specific Equipment Company, 15,000 gpd
Others 2 x 30 bbl trip tanks, 275 bbls. mud process pits

WELL CONTROL SYSTEMS

BOP 2 x Cameron type "U" 18 3/4" 10,000 psi WP doubles with Bonnet seal carries H2S trim; 1 x Cameron 18 3/4" 5,000 psi WP type DL annular H2S trim
BOP Handling 2 x 100 ton hoist and trolley handling system
Control System 1 x 600 gal, 3,000 psi air/electric powered BOP control system with 3 x control panels
Diverter 1 x Shaffer 30" 1,000 psi bolted -cover spherical BOP
TV System _
Choke and Kill 3 1/16" x 15,000 psi Cameron

MOORING

Winches 2 x LeTourneau W-1500 Anchor Winches
Wire 2 x 2,000' (1,900' Usable) 1 1/2"
Anchors 2 x Flipper Delta 15,000 lbs each

HELIDECK S-61N; 75' diameter

JACKING AND SKIDDING SYSTEM Keppel FELS electric

ODT 1000 FV rack and pinion, 90'/hr

ACCOMMODATION 94 berths

ADDITIONAL DATA

5 x Brandt LCM-2D/CM2 cascade shakers
PS-16 Auto Slips (5 1/2 inserts)