

# ENSCOROWAN

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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:** 225ft  
**Breadth:** 208ft  
**Depth:** 25ft  
**Legs:** 3 x 517ft Triangular Truss  
**Leg Spacing:** Longitudinal leg centers 129ft transverse leg centers 142ft  
**Cantilever:** 70ft x 30ft  
**Spud Cans:** 47ft diameter x 19ft high.  
**Deck Area:** 1,680ft<sup>2</sup> lower / 2,580ft<sup>2</sup> upper

### DRAFT AND DISPLACEMENT

**Transit Draft:** 16ft  
**Displacement:** 15,412t (Transit)

### MACHINERY

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

### OPERATING PARAMETERS

**Water Depth:** 25ft Min – 400ft Max  
**Drilling Depth:** 30,000ft with 5" DP. (Maximum)  
**Leg Penetration:** 25ft  
**Air Gap:** Minimum 36ft, Maximum 121ft.  
**Transit Speed:** 4.5kt historical.  
**Survival Conditions:** 328ft water depth; 100kt wind; 63ft wave height; 14s wave period.  
**Criteria Design:** 70knot winds, 40ft. seas, -10°C.

### DRILLING EQUIPMENT

**Derrick:** Dreco standard 170ft x 35ft x 32ft rated 1,500,000lbs.  
**Drawworks:** National 1625-UDBE, 3,000hp; Elmagco 7838 Baylor brake.  
**Rotary:** National D-495, 49-1/2" opening, driven by 1 x GE752 DC Hi-Torque electric motor 1,085Hp  
**Top Drive:** NOV TDS-8SA rated 750t  
**Travelling:** Dreco 760-TB-750-8 rated@750t  
**Handling:** NOV AR3200  
**Cementing:** Dowell Schlumberger (Free placement only)  
**Mud Pumps:** 3xNational 14-P-220, triplex 2,200hp; 7,500Psi  
**Drill Pipe:** 20,000ft x 5 1/2" R 2, 24.7lb/ft S-135; HT55  
**HWDP:** 30 x 5 1/2"  
**Drill Collars:** 20 x 6 1/2"; 18 x 8 1/4"; 6 x 9 1/2"

### HOISTING EQUIPMENT

**Cranage:** 3 x Dreco pedestal cranes with 120ft boom, 50T at 20ft radius.

### CAPACITIES

**Variable Deck Load:** 8,200kips (3,718mT)  
**Cantilever Load:** 2,250kips  
**Total Drilling Load:** 2,250kips  
**Tubulars in Pipe Rack:** 30,000ft x 5" drill pipe.  
**Liquid Mud:** 3,575 bbl  
**Bulk Mud/Cement:** 6,000ft<sup>3</sup>  
**Bulk Cement:** 5,100ft<sup>3</sup>  
**Sacks:** 5,900 sacks  
**Drill water:** 15,715 bbl  
**Potable Water:** 2,010 bbl  
**Brine Storage:** 2,276 bbl  
**Base Oil Capacity:** 662 bbl  
**Fuel Oil:** 2,584 bbl  
**Others:** 2 x 30 bbl trip tanks, 275 bbl mud process pits

### WELL CONTROL SYSTEMS

**BOP:** 1 x Shaffer 18 3/4" x 5,000 Psi Spherical. 2 x Cameron 18 3/4" x 10,000 Psi, Type-U, Double Ram BOP's  
**BOP Handling:** 2 x 100t hoist and trolley handling system  
**Control System:** 1 x 600gal, 3,000psi air/electric powered BOP control system with 3 x control panels.  
**Diverter:** 1 x Shaffer 30" x 1,000psi bolted -cover spherical BOP  
**Choke and Kill:** 3-1/16" x 15,000psi Cameron

### MOORING

**Winches:** 4 x LeTourneau W-1500 Anchor Winches  
**Wire:** 1 1/2" x 2,500ft (1,900ft Usable) 1 1/2"  
**Anchors:** 4 x Flipper Delta x 15,000lbs

### HELIDECK

EC225, 75ft diameter

### JACKING AND SKIDDING SYSTEM

Keppel FELS electric ODT 1000 FV rack and pinion, 90ft/hr.

### ACCOMMODATION

120 berths

### ADDITIONAL DATA

4 x Axiom AX-1, series or parallel cascade shakers; PS-21 Auto Slips (5 1/2" & 5" inserts)  
**Water Maker:** Green Marine Company, 17,000gpd  
**TV System:** Hernis Ex Camera System. Camera's located "3 in Derrick", "1 in Shaker House". Monitors located in Drillers Shack.