



## ENSCO 140

### GENERAL INFORMATION

**Flag:** Liberia  
**Previous Name(s):** N/A  
**Year Built:** 2016  
**Builder:** Lamprell Group, Dubai UAE  
**Upgrade:** N/A - Newbuild  
**Design:** Cameron Letourneau Super 116E  
**Classification:** ABS A-1 Self Elevated Drilling Unit 2014

### MAIN DIMENSIONS

**Length:** 243 ft  
**Breadth:** 206 ft  
**Depth:** 26 ft  
**Legs:** 3 x 444 ft Square Lattice  
**Leg Spacing:** Longitud. leg center 129 ft, transv. leg center 142 ft  
**Cantilever:** Maximum 70ft from stern to rotary center 50 f x 30 ft live drilling area aft of hull  
**Spud Cans:** 46 ft diameter x 23.8 ft high (1,556 sq.ft)  
**Deck Area:** Cantilever pipe rack 3,500 sq.ft main deck 12,500 sq.ft

### DRAFT AND DISPLACEMENT

**Transit Draft:** 15.5 ft  
**Transit Displacement:** 27,520 Kips

### MACHINERY

**Main Power:** 5 x Cat 3516 CHD engine x 1,596 KW output  
**Power Distribution:** A/C System – 12 x VFD units  
**Emergency Power:** 1 x Cat 3512 – C engine x 1,360 KW

### OPERATING PARAMETERS

**Water Depth:** 340ft outfitted, upgradeable to 400ft  
**Maximum Drilling Depth:** 30,000ft  
**Leg length below hull:** 382 ft  
**Air Gap:** 110ft  
**Transit Speed:** TBD (4 .0 kts historical average for ENSCO 102)  
**Survival Conditions:** At 60 ft Air Gap: Wind: 100 knots; Waves: 45 ft; Period: 10.5 sec.  
**Criteria Design:** IMO MODU Code 2009

### DRILLING EQUIPMENT

**Derrick:** LCM Woolslayer 170 ft x 35 ft x 32 ft x 1,500,000 lbs max hook load capacity, max lines 14.  
**Drawworks:** NOV ADS-10T x 3,450 Hp  
**Rotary:** NOV D-495 x 49 ½" 750 tons, 2 speed 1,150 Hp AC Motor  
**Top Drive:** NOV TDS-8SA x 750 tons Hoisting, 1,150 Hp AC Motor with retractable dolly function.  
**Travelling:** NOV Derco 768TB-750-8C x 750 tons, 7 x 68 sheaves  
**Handling:** Pipe handling system PRS8i; Pneumatic fingerboards and casing boards; Hydraulic Catheads – 2 ea. 34 kips pull, Iron Roughneck ST-160 M/U 140 kft-lbs, B/O 160 kft-lbs; and pneumatic foxhole for stand building.  
**Cementing:** Baker Hughes – Client Choice Diesel Unit  
**Mud Pumps:** 3 x NOV 14-P-220 x 2,200Hp AC Dual Cross Triplex pumps, with 2 x GE GEB22D AC motors; 7,500psi mud system  
**Drillpipe:** 20,000ft x 5 ½" DP; 5,000ft x 4" DP; 50 x 5 ½" HWDP; 15 x 4" HWDP.  
**Drillcollars:** 15 x 4 ¾"; 15 x 6 ½"; 15 x 8 ¼" and 6 x 9 ½".  
**Casing Stabbing Basket:** 1 ea. Hydraulic type  
**Substructure Cherry Picker Baskets:** 2 ea. Hydraulic type  
**Slickline Unit:** Mathey Surveyor II, with 25,000ft wire.

### HOISTING EQUIPMENT

**Crane:** 1 x 140 ft boom x 75 sT at 35 ft radius (Diesel), 2 x 120 ft boom x 51 sT at 30 ft radius, Electric

### CAPACITIES

**Variable Deck Load:** 6,639kips (max. hull subject to environmental conditions)  
**Cantilever Load:** 2,650 kips (centerline 70ft aft of transom)  
**Total Drilling Load:** 6,639 kips (Variable load capacity)  
**Fingerboard:** 309 stands 5-1/2" DP; 5 stands 9-1/2" DCs  
**Liquid Mud:** 5,235 bbls active total. 349 bbls mud processing. 2 x trip tank, Total 85 bbls.  
**Bulk Mud/Cement:** 14,000 cu.ft combined total; 4 x 1,750 cu.ft Barite/Bentonite Silos, 4 x 1,750cu.ft Cement Silos  
**Sacks:** 775 sq.ft sacks  
**Drill Water:** 16,536 bbls  
**Potable Water:** 2,648 bbls  
**Brine Storage:** 981 bbls  
**Base Oil Capacity:** 981 bbls  
**Fuel Oil:** 3,928 bbls  
**Watermaker:** 2 x 65 t/day Dual Reverse Osmosis system

### WELL CONTROL SYSTEMS

**BOP:** 1 ea. NOV Shaffer 13-5/8" x 10,000psi Annular, 2 ea. Cameron 13-5/8" x 10,000psi U-Type Double - 4 Rams, 1 ea. Drilling Mud Cross 13-5/8" x 10,000 psi  
**BOP Handling:** 2 x 100T hoists  
**Control System:** NOV Koomey, 3,000 psi working pressure, Fluid Reservoir Capacity and Total Accumulator Capacity per API 16D 2nd Ed. and Std. 53 + 30%  
**Diverter:** Vetco KFDJ x 49-1/2" RST, 16" outlet OD  
**TV System:** CCTV System x 11 Cameras, 3 Monitors  
**Choke and Kill:** Choke Side 4-1/16" 15,000 psi / 4-1/16" 10,000 psi. Kill Side 3-1/16" 10,000psi x 4-1/16" 10,000 psi. Two auto chokes, two manual choke.

### MOORING

**Winches:** Foundations for winches provided, none outfitted  
**Wire:** None  
**Anchors:** Anchor racks provided, none outfitted

### HELIDECK

S-92, S-61, EH-101 type helicopters. CAP 437 compliant. MTOW 14.6t. D value 22.8m.

### JACKING AND SKIDDING SYSTEM

Letourneau rack & pinion. 20 per leg = 60 total. Max jacking load 22,230kips

### ACCOMMODATION

140 berths; 10 x single bed with private bathroom. Combination of 2 and 4 bed rooms with private / semi-private bathroom.

### ADDITIONAL DATA

5 x NOV Brandt VSM 300 Shale Shakers; 2 x NOV Brandt DG-10 Degasser; Mud Cleaner with 24 x 4 desilter and 3 x 12" desander cones.

### CANTILEVER CAPACITY (kips)

Max combined Load with max setback at 70ft reach: 2,650 kips  
Starboard Transverse: -15ft/1,221kip; -9ft/1,728kips; 3ft/2,444kip  
Port transverse: 3ft/2,650kips; 9.7ft/2,095kip; 15ft/1,537kip