



## ENSCO 110

### GENERAL INFORMATION

**Flag:** Liberia  
**Previous Name(s):** None  
**Year Built:** 2015  
**Builder:** Keppel FELS, Singapore  
**Upgrade:** N/A  
**Design:** Keppel FELS KFELS MOD V B Class "Bigfoot"  
**Classification:** ABS A-1 Self Elevating Mobile Offshore Drilling unit

### MAIN DIMENSIONS

**Length:** 234 ft (314 ft including helideck)  
**Breadth:** 208 ft (225 ft including anchor racks)  
**Depth:** 25 ft  
**Legs:** 3 x triangular 517 ft  
**Leg Spacing:** Longitudinal leg center 129 ft, transverse leg center 142 ft  
**Cantilever:** Minimum 0ft, maximum 70 ft from stem to rotary centerline; Maximum 15 ft; rotary displacement to either side of longitudinal centerline  
**Spud Cans:** 52.4 ft diameter x 19 ft high  
**Deck Area:** Main deck storage capacity 425 lb/ft<sup>2</sup> / Main deck storage area 6,100 ft<sup>2</sup>

### DRAFT AND DISPLACEMENT

**Transit Draft:** 16.5 ft  
**Transit Displacement:** 3,434 kips  
**Spud Cans free flooded:** 33,323 Kips  
**Spud Cans Buoyant:** 36,345 Kips

### MACHINERY

**Main Power:** 5 x Caterpillar diesel engine each driving 2,150 kVA generators; total 10,750 HP  
**Power Distribution:** 600V / 480V 7 x ABB ACS 800 Multi Drive VFD – Assigned to Drawworks / TDS / Mud Pumps.  
**Emergency Power:** 1 x Diesel engine rated at 682 kW driving 480V AC generator

### OPERATING PARAMETERS

**Water Depth:** 400ft  
**Maximum Drilling Depth:** 30,000 ft  
**Leg Penetration:** Min – 6.3 ft / Max – 110 ft  
**Air Gap:** Max – 120 ft / Min – 35 ft (site specific dependent)  
**Transit Speed:** 4 Knots  
**Survival Conditions:** 100 knot wind; 37 ft – 43 ft waves  
**Criteria Design:** 70 knot wind; 34 ft – 40 ft waves

### DRILLING EQUIPMENT

**Derrick:** 160 ft x 36 ft x 36 ft; rated 1,500,000 lbs static hook load capacity  
**Drawworks:** National Oilwell Varco ADS-10T, 3200 HP  
**Rotary:** NOV RST-495, (49 1/2" max opening)  
**Top Drive:** National Oilwell Varco TDS-8SA, 750 mt  
**Travelling Block:** National Oilwell Varco 750 mt rating  
**Handling:** (1) NOV AR3200M Iron Roughneck; (1) NOV ST120 Iron Roughneck (offline stand building); (1) NOV Rotating Mouse hole (1) Forum-16K-Offline Activity Crane  
**Cementing:** Schlumberger CPS-361  
**Mud Pumps:** 3 x NOV 14-P-220; 2,200 HP; 7,500 psi.  
**Drill Pipe:** 50,000ft G105 VAM CDS 5", 40,000ft G105 VAM VX40 4".  
**HWDP:** 50 x 5" x NC-50 VAM CDS // 50 x 4" x VX-40  
**Drill Collars:** 15 Jts 9 1/2", 15 jts 8", 36 jts 6 1/2", 9 jts 4 3/4"

### HOISTING EQUIPMENT

**Crane:** 3 x Favelle Favco, 2 x 120 ft boom, 1 X 135 ft boom, 11 St whip line; 50 St main line; diesel hydraulic.

### CAPACITIES

**Variable Deck Load:** 7,500 kips (drilling)  
**Cantilever Load:** 2,500 kips  
**Total Drilling Load:** 2,500 kips  
**Tubulars in Pipe Rack:** 270 stds x 5 1/2" or 5-7/8" DP, 10 stds x 5 1/2" or 5-7/8" HWDP; 8 stds x 8 1/4" DC  
**Liquid Mud:** 4,500 bbl  
**Bulk Mud/Cement:** 6,000 ft<sup>3</sup> / 5,100 ft<sup>3</sup>  
**Sacks:** 5,000 sacks  
**Drill water:** 5,500 bbl  
**Potable Water:** 2,053 bbl  
**Brine Storage:** 1,014 bbl  
**Base Oil Capacity:** 1,273 bbl  
**Fuel Oil:** 2,733 bbl  
**Watermaker:** 2 x Village Marine PWE-17000  
**Others:** Trip Tank 2 x 60 bbl

### WELL CONTROL SYSTEMS

**BOP:** Cameron U BOP, 13 5/8" 10,000 psi (2 x Double) 4 Ram stack, Shaffer Annular 13 5/8" 5,000 psi  
**BOP Handling:** 2 x 75 mt Ingersoll Rand pneumatic driven BOP hoists  
**Control System:** NOV 3,000 psi  
**Diverter:** GE KFDJ – 49 1/2" x 500 psi  
**TV System:** Pelco 10 station  
**Choke and Kill:** NOV 3-1/16" x 15,000 psi

### MOORING

**Winches:** 4 x OTD – OMW 300 – 42HP - 30Mt  
**Wire:** 1 1/2" x 2,500 ft  
**Anchors:** 4 x 5 mt – Delta Flipper

### HELIDECK

S-61N and S-92; EH-101; 74'10" Octagonal, 14.8t

### JACKING AND SKIDDING SYSTEM

OTD with hydraulic fixation system

### ACCOMMODATION

140 berths, 6 x 1 man, 67 x 2 man

### ADDITIONAL DATA

5 x Brandt VSM-300 Shale Shaker; 2 x Brandt DG-10 vacuum degasser; 1 x NOV dual gumbo conveyor.  
 2 x Mud Centrifuge  
 Dual Fluid System Auger system

### CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Max combined load & setback	70'	670	1640	670
	30'	2500	2500	2500