



EnSCO Asia & Pacific Rim  
 300 Beach Road, #10-01  
 The Concourse  
 Singapore 199555  
 Phone: + 65-66228900  
 Fax: + 65-66228909  
 E-mail: marketing.ap@enscoplc.com  
 www.enscoplc.com



## ENSCO 108

### GENERAL INFORMATION

**Flag** Liberian  
**Previous Name(s)** \_  
**Year Built** 2007  
**Builder** Keppel FELS, Singapore  
**Upgrade** 2009  
**Design** Keppel FELS KFELS MOD V B Class "Bigfoot"  
**Classification** A. B. S. A-1 self elevating mobile offshore drilling unit

### MAIN DIMENSIONS

**Length** 234'  
**Breadth** 208'  
**Depth** 25'  
**Legs** 3 x triangular 517"  
**Leg Spacing** Longitudinal leg center 129', transverse leg center 142'  
**Cantilever** Minimum 19'6", maximum 70" from stern to rotary centerline; Maximum 15' rotary displacement to either side of longitudinal centerline; 50' 6" x 30' live drilling area aft of hull  
**Spud Cans** 53' diameter x 15' high  
**Deck Area** Main deck storage capacity 6,100 sq. ft

### DRAFT AND DISPLACEMENT

**Transit Draft** 16'  
**Transit Displacement** 35,260 kips

### MACHINERY

**Main Power** 5 x Cat 3516-B diesel engine each driving 1 x Cat SR4B 1,383 KW generator; total 9,275 HP  
**Power Distribution** 4 x M&I 600 V, 2,200 amps SCR system for mud pumps; 4 x M&I variable frequency drives for AC top drive and AC dwks  
**Emergency Power** 1 x Cat 3508-B diesel engine rated at (914 HP) driving 1 x Leroy Somer 600 KW generator

### OPERATING PARAMETERS

**Water Depth** 350' - 400'  
**Maximum Drilling Depth** 30,000'  
**Leg Penetration** 25'  
**Air Gap** 55'-120' subject to extending crane and LB fall wires)  
**Transit Speed** 4.5 - 5 knots  
**Survival Conditions** At 350' water depth: wind: 100 knots; waves: 43'; period 15 sec (with fixation system)  
**Criteria Design** 70

### DRILLING EQUIPMENT

**Derrick** Woolslayer 160' x 32' x 35'; rated 1,500,00 lb static hook load capacity  
**Drawworks** Varco/ADS-10DT, 3,000 HP  
**Rotary** Varco/BJ RST 495, (49-1/2" max opening)  
**Top Drive** Varco TDS-8SA, 750 ton  
**Travelling** Varco 750 ton rating  
**Handling** Varco PH 100 hydraulic; Varco AR-3200 Iron Roughneck  
**Cementing** Dowell Schlumberger (free placement only)  
**Mud Pumps** 3 x Lewco W-2214, 2,200 HP; 7,500 psi  
**Drill Pipe** 20,000' 5.5" 24.7 PPF S-135 HT-55 tool joints; HWDP 5.5" HT-55 EWCHL; 3.5" drillpipe 15.5 ppf 5135, NC 38  
**Drill Collars** 6 x 9.5", 18 x 8.25", 24 x 6 3/4"

### HOISTING EQUIPMENT

**Crane** 3 x Favco Model 7.5/10K 10 ton, whip line 45.4 MT main line; diesel hydraulic

### CAPACITIES

**Variable Deck Load** 9,000 kips (drilling)  
**Cantilever Load** 2,300 kips  
**Total Drilling Load** 2,300 kips  
**Tubulars in Pipe Rack** 30,000' 5 1/2" DP plus BHA  
**Liquid Mud** 3,891 bbls  
**Bulk Mud/Cement** 11,100 cu. ft.  
**Sacks** 5,000 sacks  
**Drillwater** 20,089 bbls  
**Potable Water** 2,000 bbls  
**Brine Storage** 1,020 Bbls  
**Base Oil Capacity** 1,020 Bbls  
**Fuel Oil** 2,950 bbls  
**Watermaker** RO and Distillation Units producing up to 100 cm/day  
**Others** Base Oil Tank: 1,000 bbls: Brine Tank: 1,000 bbls Trip Tank 2 x 37 bbls

### WELL CONTROL SYSTEMS

**BOP** Varco SLX 18 3/4" 10,000 psi 3 ram BOS stack (double & single); Shaffer 18 3/4" 5,000 psi annular; Varco SLX 13 5/8" 15,000 psi 4 ram BOP; Shaffer 13 5/8" Type S 10,000 psi Annular  
**BOP Handling** 2 x 75 ton tandem BOP hoists  
**Control System** Shaffer Model # 20028424, 3,000 psi, 42 bottles x 11 gal capacity  
**Diverter** ABB Vetco KFDJ 49 1/2" 2,000 psi with 2 x 12" remote controlled valves & 1 x 14" remote controlled valve. 9 bottles x 11 gallon capacity  
**TV System** CCTV system includes cameras in derrick, under substructure and at shale shakers  
**Choke and Kill** Techdrill 3 1/16" x 15,000 psi

### MOORING

**Winches** 4 x LeTourneau W-1500  
**Wire** 2,000' x 1-1/2"  
**Anchors** 4 x Flipper Delta, 5,000 kg

**HELIDECK** S-92; 74' diameter; 26,230 lb

**JACKING AND SKIDDING SYSTEM** Keppel FELS with self positioning fixation system

**ACCOMMODATION** 112 berths (15 x 2 man staterooms with private T&S, 37 x 2 man staterooms with shared T&S, 2 x 4 man staterooms with private T&S) with gymnasium, recreation rooms, 6 x offices, control room, conference room, radio room and 2-bed hospital

### ADDITIONAL DATA

4 x VSM - 300 Shale Shakers; 1x VSM 300 24/3 Mud Cleaner; 3 x 12" Desander; 24 x 4" Desilter; 2 x Brandt DG-10 1,000 gpm vacuum degasser, 200 MT conductor tensioning system, offline capabilities with Varco "Phantom Mousehole" rotating Mousehole, Varco Foxhole Spider Mousehole, MDT/Varco flex chair drilling controls and instrumentation; single point discharge

### CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Max combined load & setback	70'	563	1500	563
	38'	2156	2300	2156