



## ENSCO 101

### GENERAL INFORMATION

<b>Flag:</b>	Liberian
<b>Previous Name(s):</b>	None
<b>Year Built:</b>	2000
<b>Builder:</b>	Keppel FELS Singapore
<b>Upgrade:</b>	
<b>Design:</b>	KFELS MOD V-A
<b>Classification :</b>	ABS

### MAIN DIMENSIONS

<b>Length:</b>	228ft
<b>Breadth:</b>	222ft
<b>Depth:</b>	31ft
<b>Legs:</b>	3 x 540ft (triangular shape)
<b>Leg Spacing:</b>	Longitudinal leg center 150ft, transverse leg center 156ft
<b>Cantilever:</b>	70ft From Stern to Rotary Centre line, 15ft x 15ft Transverse
<b>Spud Cans:</b>	59.67ft diameter x 18ft high
<b>Deck Area:</b>	8,335sq.ft.

### DRAFT AND DISPLACEMENT

<b>Transit Draft:</b>	19ft
<b>Displacement:</b>	38,028kips (Transit)

### MACHINERY

<b>Main Power:</b>	6 x Cat 3516-B engines x Total 12,900kw x 1,855hp.
<b>Power Distribution:</b>	600/480/240/120V AC, 60Hz, 750V DC SCR system.
<b>Emergency Power:</b>	1 x 480V AC, 60Hz, 920kw generator.

### OPERATING PARAMETERS

<b>Water Depth:</b>	25 ft - 400ft (North Sea site sensitive)
<b>Drilling Depth:</b>	30,000ft (Maximum)
<b>Length below hull:</b>	
<b>Air Gap:</b>	80ft – 120ft working
<b>Transit Speed:</b>	4.5knots
<b>Survival</b>	
<b>Conditions:</b>	87knot waves: 80ft
<b>Criteria Design:</b>	MODU code

### DRILLING EQUIPMENT

<b>Derrick:</b>	Dreco x 170ft x 40ft x 40ft x 1,500,000lb maximum hook load capacity.
<b>Drawworks:</b>	National 1625 UDDBE x 3,000hp disc brakes with joy stick control.
<b>Rotary:</b>	National D-495 x 49½"
<b>Top Drive:</b>	Varco TDS-4H
<b>Travelling:</b>	Dreco x 750T c/w block retract system.
<b>Handling:</b>	Varco PRS4i automated pipe racking system / Varco AR3200 Iron Roughneck / Varco PS16 Slips.
<b>Cementing:</b>	Free placement only
<b>Mud Pumps:</b>	3 x National x 14-P-220 x 2,200hp x 7,500psi mud system.
<b>Drill Pipe:</b>	19,500ft x 5-1/2" DP x S-135 w/HT55 connections; 8,000ft x 5" DP x S-135 w/NC-50 connections.
<b>Drill Collars:</b>	6 x 9 ½"; 12 x 8 ¼"; 18 x 6 ¾".

### HOISTING EQUIPMENT

<b>Crane:</b>	3 x 72 DNS Dreco King post diesel/hydraulic; 3 x 140ft booms.
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### CAPACITIES

<b>Variable Deck Load:</b>	12,859kips
<b>Cantilever Load:</b>	2,600kips (centerline < 60ft aft of transom)
<b>Total Drilling Load:</b>	2.600kips
<b>Tubulars in</b>	
<b>Pipe Rack:</b>	800kips (included in TD)
<b>Liquid Mud:</b>	5,000bbl
<b>Bulk Mud/Cement:</b>	17,600cu.ft.
<b>Sacks:</b>	5,000 sacks
<b>Drill water:</b>	9,000bbl
<b>Potable Water:</b>	2,000bbl
<b>Brine Storage:</b>	900bbl
<b>Base Oil Capacity:</b>	850bbl
<b>Fuel Oil:</b>	3,100bbl

### WELL CONTROL SYSTEMS

<b>BOP:</b>	1 x Shaffer x 18-3/4" x 15,000psi 4 ram NXT; 18-3/4" x 10,000psi Shaffer spherical
<b>BOP Handling:</b>	2 x JDN x 75T ton Air op chain hoists.
<b>Control System:</b>	Shaffer Koomey 260/FA c/w Minuteman pod.
<b>Diverter:</b>	Regan KFDJ x 2,000psi
<b>Choke and Kill:</b>	3-1/16" x 15,000psi with T3 15,000psi choke.

### MOORING

<b>Winches:</b>	4 x Amclyde x 350,000lbs holding capacity.
<b>Wire:</b>	2" wire
<b>Anchors:</b>	4 x Delta Flipper x 15,000lb

### HELIDECK

S-61; 75ft diameter

### JACKING AND SKIDDING SYSTEM

Keppel FELS, self-positioning fixation system

### ACCOMMODATION

120 berths

### ADDITIONAL DATA

3 x Brandt VSM 300 shale shakers, 1 x Brandt VSM Multi-size; Zero discharge (single point)  
 Offline stand/casing buildup  
 Dedicated preload pumps  
 Enclosed pollution containment unit (Texas deck)  
 V-Sat TV system.  
 Watermaker: 2 x Distillation Units  
 TV System