



## ENSCO 72

### GENERAL INFORMATION

<b>Flag:</b>	Liberian
<b>Previous Name(s):</b>	Ocean Benarmin; Ross Explorer, Dan King
<b>Year Built:</b>	1981
<b>Builder:</b>	Hitachi SB & Engineering
<b>Upgrade:</b>	1996, 2002, 2011, 2012, 2016
<b>Design:</b>	Hitachi K1025N
<b>Classification:</b>	ABS Maltese Cross self-elevating MODU

### MAIN DIMENSIONS

<b>Length:</b>	230ft
<b>Breadth:</b>	250ft
<b>Depth:</b>	23ft
<b>Legs:</b>	3 x 343.8ft Triangular truss
<b>Leg Spacing:</b>	Transverse 188' longitudinal 134'
<b>Cantilever:</b>	Aft 45ft / 12ft x 12ft Transverse
<b>Spud Cans:</b>	45.18ft diameter 20.34ft height
<b>Deck Area:</b>	7.061ft <sup>2</sup> pipe racks only (including cantilever).

### DRAFT AND DISPLACEMENT

<b>Transit Draft:</b>	15.32ft
<b>Displacement:</b>	31,385Kips (Transit)

### MACHINERY

<b>Main Power:</b>	Total 4,650KW from 5 each Cat D-3512 engines rated at 1,295Hp each.
<b>Power Distribution:</b>	600/480/240/120V AC, 60Hz, 750V DC SCR system.
<b>Emergency Power:</b>	1 x 480V AC, 60Hz, 400KW generator

### OPERATING PARAMETERS

<b>Water Depth:</b>	225ft (nominal)
<b>Drilling Depth:</b>	25,000ft (Maximum)
<b>Length below hull:</b>	50ft (North sea)
<b>Air Gap:</b>	50ft – 110ft
<b>Transit Speed:</b>	4.5Kt
<b>Survival</b>	
<b>Conditions:</b>	5,920kips elevated storm combined VDL
<b>Criteria Design:</b>	1989 MODU code

### DRILLING EQUIPMENT

<b>Derrick:</b>	Dreco 160ft s 30ft x 30ft x 1,500,000lbs gross nominal capacity.
<b>Drawworks:</b>	National 1320-UDBE, (1,600 Hp/motorpeak) National Universal disc brake; Baylor 7838 electric brake.
<b>Rotary:</b>	National C-375 independent electric
<b>Top Drive:</b>	500 ton Varco TDS-4H
<b>Travelling:</b>	Block Continental Emsco 500T, Swivel: National Oilwell P650
<b>Handling:</b>	Iron Roughneck – Varco AR-3200.
<b>Cementing:</b>	Halliburton HCS 25D (free placement only)
<b>Mud Pumps:</b>	3 x National Triplex, 12-P-160, 1,600Hp
<b>Drill Pipe:</b>	10,000ft x 5 1/2" S-135 HT-55; 10,000ft x 4" S-135 VX39; and 20,000ft x 5" S-135 NC-50
<b>Drill Collars:</b>	9 1/2", 8", 6 1/2", 4 3/4"

### HOISTING EQUIPMENT

<b>Craneage:</b>	Portside 1 x Liebherr MTC 1900-60D 140ft boom, 15Ton Aux hoist, 60Ton main hoist, wind speed 50 knots. Stbd 1 x National OS-215 140ft boom 31.78Ton @ 29.85ft
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### CAPACITIES

<b>Variable Deck Load:</b>	8,673kips (max, including all drilling loads)
<b>Cantilever Load:</b>	1,750kips combined with drilling loads
<b>Tubulars in Pipe Rack:</b>	Main deck 547lbs/ft <sup>2</sup> ; cant 512lbs/ft <sup>2</sup>
<b>Liquid Mud:</b>	1,729bbl active; 2,400bbl reserve; 240bbl in sand traps.
<b>Bulk Mud/Cement:</b>	10,000ft <sup>3</sup> nominal
<b>Sacks:</b>	1,120sacks
<b>Drill water:</b>	5,373bbl
<b>Potable Water:</b>	1,216bbl
<b>Brine Storage:</b>	1,414bbl
<b>Base Oil Capacity:</b>	869bbl
<b>Fuel Oil:</b>	2,355bbl

### WELL CONTROL SYSTEMS

<b>BOP:</b>	1 x Cameron Type U 21 1/4" x 2,000Psi; 1 x Hydril MSP annular 21 1/4" x 2,000Psi; 1 x Hydril GX annular 13 5/8" x 5,000Psi; 1 x Cameron type "U" double ram 13 5/8" x 10,000Psi; 1 x Cameron type "U" single ram 13-5/8" x 10,000Psi. All BOP's H <sub>2</sub> S service.
<b>BOP Handling:</b>	2 each JDN BH 72, 25t
<b>Control System:</b>	Shaffer EX-6CRBX + 5k FXT HPU
<b>Diverter:</b>	1 x ABB Regan KFDJ 2,000Psi
<b>Choke and Kill:</b>	3-1/16ft x 10,000Psi with Shaffer system

### MOORING

<b>Winches:</b>	4 x Nippon Pusnes winches, 30t each
<b>Wire:</b>	2,132ft x 44mm when new
<b>Anchors:</b>	4

### HELIDECK

S-61 (approvals also for S-92 and EC-225 in Denmark)

### JACKING AND SKIDDING SYSTEM

National floating/electric rack & pinion jacking system, hydraulic skidding system

### ACCOMMODATION

90 berths; 4 x single bed rooms with private wet units, 43 x 2 bed rooms with private wet units

### ADDITIONAL DATA

Mud cleaning facilities: 4x Brandt VSM 300; 2 ea Vortex Lobestar Dustless Mixing Hoppers, rated to 40mTons/hr barite; Sewage treatment: Super Trident RT-80 zero discharge; Noise suppression enhancement; Subsea tree handling and running system.

**Water Maker:** Alfa Laval