



ENSCO 71

GENERAL INFORMATION

Flag:	Liberia
Previous Name(s):	Dan Earl
Year Built:	1982
Builder:	Hitachi Zosen
Upgrade:	1995 and 2012
Design:	Hitachi 300C
Classification:	ABS Maltese Cross self-elevating MODU

MAIN DIMENSIONS

Length:	230ft
Breadth:	250ft
Depth:	23ft
Legs:	3 x 343ft Triangular Truss
Leg Spacing:	Transverse 188ft longitudinal 164ft
Cantilever:	Aft 45ft + (17ft extension) / 12ft x 12ft Transverse
Spud Cans:	45.18ft diameter 20.34ft height
Deck Area:	5,215sq.ft. pipe racks only (including cantilever)

DRAFT AND DISPLACEMENT

Transit Draft:	15.25ft
Displacement:	31,385kips (Transit)

MACHINERY

Main Power:	Total 5,775kW x 5 Cat D-399 TA engines x 1,195Hp; 1 x Cat 3516 B x 2,150Hp
Power Distribution:	600/480/240/120V AC, 60Hz, 750V DC SCR system
Emergency Power:	1 x 480V AC, 60Hz, 450kw generator, CAT D-379 engine x 600Hp

OPERATING PARAMETERS

Water Depth:	225ft (nominal)
Drilling Depth:	25,000ft (Maximum)
Length below hull:	54ft (North Sea)
Air Gap:	50ft – 110ft
Transit Speed:	4.5Kt
Survival Conditions:	6,770 kips elevated storm VDL
Criteria Design:	MODU code 1989

DRILLING EQUIPMENT

Derrick:	Dreco 160ft x 30ft x 30ft x 1,500,000lbs gross nominal capacity.
Drawworks:	National 1320-UE x 2,000Hp with Baylor electric brake, 7838 model.
Rotary:	National C-375 independent electric.
Top Drive:	Varco TDS-4H with PH85 pipe handler
Travelling:	National 660-H500
Handling:	Mechanical Pipe racking System – Weatherford IDM S-3 Pipe Racker / Iron Roughneck – Varco AR-3200
Cementing:	Free placement
Mud Pumps:	3 x National Triplex, 12-P-160 x 1,600Hp
Drill Pipe:	10,000ft x 5-1/2" x 24.7lb/ft., S135 DP 20,000ft x 5" NC 50 S135 DP 10,000ft x 4" S135 DP
Drill Collars:	4 3/4", 6 1/2", 8", 9 1/2"

HOISTING EQUIPMENT

Crane:	Portside: 1 x Liebherr MTC 1900-6D x 140ft boom, 15T Aux hoist, 60T main hoist, wind speed 50knots. 1 x National OS-215 x 140ft boom x 18.75T @ 29.2ft
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CAPACITIES

Variable Deck Load:	9,525 Kips
Cantilever Load:	1,675 Kips
Total Drilling Load:	1,670 Kips
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Pipe Rack:	Main deck 547lb/ft ² ; cant 512lb/ft ²
Liquid Mud:	1,729bbl Active, 1,200bbl aux pit room, 1,200bbl water based mud pit, 200bbl Shakers
Bulk Mud/Cement:	9,993ft ³
Sacks:	5,000 sacks
Drill water:	5,372bbl
Potable Water:	1,216bbl
Brine Storage:	617bbl
Base Oil Capacity:	670bbl
Fuel Oil:	414mT

WELL CONTROL SYSTEMS

BOP:	1 x Hydril MSP annular x 21 1/4" x 2,000Psi and 1 x Cameron type "U" x 21 1/4" Double 2,000Psi, 1 x Hydril GX annular x13-5/8" x 5,000Psi; 1 x Cameron type "U" double ram x 13-5/8" x 10,000Psi; 1 x Cameron type "U" single ram x 13-5/8" x 10,000Psi
BOP Handling:	2 x JD Neuhaus chain hoist x 25 ton pull
Control System:	Raisepower BOP HPU Control Unit and FXT HPU
Diverter:	ABB Regan KFDJ x 2,000Psi
TV System:	Scan systems AS/Hemis and Stahl
Choke and Kill:	3-1/16" x 10,000Psi with T3 remote chokes and EFC choke control station

MOORING

Winches:	4 x Nippon Pusnes winches x 30t
Wire:	2,132ft x 44mm anchor wires
Anchors:	4 x Delta Flipper anchors x 10,000lb

HELIDECK

9,300 kg Max. Take-off Mass, including S92 (12,800kg) and EC225 (11,000kg) approval

JACKING AND SKIDDING SYSTEM

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

ACCOMMODATION

94 berths; 4 x single bed rooms with private wet units, 45 x 2 bed rooms with private wet units

ADDITIONAL DATA

Mud cleaning facilities: Shale Shakers: 4 Brandt VSM 300; Sewage treatment: Hamworthy ST8C-R; zero discharge (single point); 4x50 MT riser tensioner system
 Watermaker: Alfa Laval / Aqua Offshore - 125