

ENSCOROWAN

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ENSCO DS-10

GENERAL INFORMATION

Flag: Marshall Islands
Previous Name(s): N/A
Year Built: 2015
Builder: Samsung Heavy Industries, South Korea
Upgrade: N/A
Design: SAMSUNG GF12000
Classification: ABS □A1(E) Drillship, □AMS, □ACCU, □DPS-3, NBLES, SH-DLA, ENVIRO-OS+, HELID

MAIN DIMENSIONS

Length: 754.6ft
Breadth: 124.7ft
Depth: 60.7ft
Deck Area: 3,600m²
Moon Pool: 42ft x 81,37ft

DRAFT AND DISPLACEMENT

Drilling Draft: 11m
Displacement: 77,000 Mt (operating)

MACHINERY

Main Power: 6 x Wartsilla 16V32/40 x 7,680kW diesel main engines coupled with ABB x 7,000kW AC generators x 2 sets in port, center, and starboard engine rooms.
Power Distribution: ABB.
Emergency Power: 1 x STX-Cummins x 1,700kW diesel engine driving an ABB AC generator x 1,700kW x 1,800rpm.

OPERATING PARAMETERS

Water Depth: 12,000ft (Maximum)
Drilling Depth: 40,000ft (Maximum)
Transit Speed: 10kt
Survival Conditions: 47ft waves; 100kt

DRILLING EQUIPMENT

Derrick: NOV Dual Dynamic Derrick x 80ft x 60ft, 210ft clear height x static hook load 2,500,000lb single hook, 3,500,000lb simultaneously.
Drawworks: 2 x NOV Dresco Drawworks. Main Well AHD-1250-9000 with regenerative braking x 6 General Electric GEB22A x 1,500Hp AC Motors Aux Well: AHD-1000-6900 with regenerative braking x 5 General Electrical GEB22A x 1,150Hp AC Motors.
Rotary: 2 x NOV Rotary tables. Main well RST-75½" hydraulically driven x 1,133Mt capacity. Aux well RST-60½" x 907Mt capacity, no hydraulic drive feature (auxiliary well center is outfitted with mouse hole barrier).
Top Drive: 2 x NOV TDX-1250.
Mud Pumps: 4 x NOV triplex mud pumps N14-P-220 x 2,200Hp belt driven by x 2 General Electric AC motors (upgradable to 6 mud pumps).
Handling: 2 x NOV Hydralift "Hydraracker IV" Column Rackers; 2 x NOV ARN 200 Hydratong 'Iron Roughnecks'; 1 x NOV Torquemaster 8045 bucking machine.
Cementing: Baker Hughes Seahawk Cementing Unit/2,300 BHP (3rd Party Unit)
Drill Pipe: 10,000ft 6-5/8" V150 59.33 ppf range 3
10,000ft 6-5/8" V150 39.43 ppf range 3
20,000ft 5-1/2" S135 24.35 ppf range 3.
30 joints of 6-5/8" range 2 and 30 joints of 5-1/2" range 2
HWDP: 30 joints of 6-5/8" range 2 and 30 joints of 5-1/2" range 2
Drill Colar: 10 joints of 9-1/2", 24 joints of 8-1/4" and 30 joints of 6-1/2"

HOISTING EQUIPMENT

Craneage: 2 x NOV Hydralift Knuckle Boom Cranes, Rated capacity 85Mt @59ft & 17Mt @137ft; 1 x NOV Lattice Boom Crane, rated capacity 85Mt @ 26ft and 7Mt @ 161ft; 1 x NOV Hydralift Active Heave Compensated Knuckle Boom Crane, rated capacity 165Mt and capable of running 100Mt loads to 10,000ft; 1 x Pipe Handling Knuckle Boom Crane with gripper yoke for 2^{7/8"} to 20"; 2 x Subsea Gantry Cranes x 75Mt; 3 x Riser Gantry Cranes.

CAPACITIES

Variable Deck Load: 22,000Mt, 17,000Mt during transit.
Tubulars in Pipe Rack: 1 x NOV Hydralift Tubular Catwalk Machine for tubular up to 30" diameter, 15.2m long, and 10Mt
Total Drilling Load:
Potable Water: 1,200m³
Drill water: 2,666m³
Fuel: 7,000m³
Active Liquid Mud: 988m³ –including slug, chemical tanks
Reserve Liquid Mud: 1,600m³
Brine Storage: 1,200m³
Base Oil Storage: 1,200m³
Barite/Bentonite: 24,150 ft³
Bulk Cement: 26,800ft³
Sack Storage: 10,000sacks

WELL CONTROL SYSTEMS

BOP: 2 x NOV Shaffer BOP Stack x 18¾" x 15,000Psi working pressure x 7 ram cavities; 4 x annulars x 12,000ft water depth.
BOP Handling: 1 x NOV BOP Gantry Crane, rated 2 x 220m; 1 x NOV BOP Trolley x 540Mt.
Control System: 1 x Shaffer 5th generation Multiplex BOP Control system x 12,000 ft water depth, complete with BOP control unit satisfying API 16D Specification.
Choke and Kill: 1 x Anson x 3 1/16" x 15,000Psi upstream, 10,000Psi downstream wp Manifold, with two manual chokes, two remote operated chokes, and glycol injection system, rated for H₂S sour service. Split buffer chamber, Dual port/starboard high pressure emergency overboard lines.
Diverter: 75 ½" NOV Shaffer CSO x 500Psi.

HELIDECK:

Size: 75ft octagonal.
Load Capacity: 14.6mT
Design: EH101 helicopters

ACCOMMODATION:

200 persons

ADDITIONAL DATA

Thrusters: 6 x Rolls Royce 5.5MW (33MW total) underwater dismountable fully azimuthing thrusters with fixed blade propellers and nozzles (All thrusters are fully retractable).
Watermaker: 3 x Waste Heat; 2 x RO.
Others: CCTV System.