



ENSCO DS-9

GENERAL INFORMATION

Flag:	Marshall Islands
Previous Name(s):	N/A
Year Built:	2015
Builder:	Samsung
Upgrade:	N/A
Design:	SAMSUNG 78k Drillship
Classification:	ABS XA1(E) Drillship, XAMS, XACCU, XDPS-3, NBLES, SH-DLA, ENVIRO-OS+, HELIDK(SFR)

MAIN DIMENSIONS

Length:	754.5ft
Breadth:	124.6ft
Depth:	60.7ft
Deck Area:	3,600m ²
Moon Pool:	35 ft x 81 ft

DRAFT AND DISPLACEMENT

Drilling Draft:	11m
Displacement:	78,463Mt (operating)

MACHINERY

Main Power:	6 x Wartsilla 16V32/40 x 7,290kW 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:	13kt
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 6 General Electrical GEB22A x 1,150Hp AC Motors.
Rotary:	2 x NOV Rotary tables. Main well RST-75½" hydraulically driven x1,133Mt 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:	5 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:	BHI Seahawk AC VFD 2,300 HP Cementing Unit
Drill Pipe:	5"-10,260'; 5.875"-16,020'; 6.625" 40#-18,315'; 6.625" 45#-6,075'; 6.625" LS-10,395';

HWDP:	5"-33 jts; 5.875"-50 jts; 6.625"-50 jts;
Drill Collar:	6.75"-30 jts; 8.25"-24 jts; 9.5"-10 jts;

HOISTING EQUIPMENT

Cranage:	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 12,000ft. 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.
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CAPACITIES

Variable Deck Load:	22,000Mt, 17,000Mt during transit.
Tubulars in	1 x NOV Hydralift Tubular Catwalk Machine for tubular up to 30" diameter, 50ft long, and 10Mt.
Pipe Rack:	
Total Drilling Load:	
Liquid Mud:	16,970bbl
Bulk Cement:	26,800ft ³
Bulk Mud:	Barite-16,000ft ³ ; Bentonite-8,000ft ³
Drill water:	15,090bbl
Potable Water:	7,540bbl
Brine Storage:	7,540bbl
Base Oil Capacity:	7,540bbl
Fuel:	44,020bbl
Sacks:	10,000sacks

WELL CONTROL SYSTEMS

BOP:	2 x NOV Shaffer BOP Stack x18¾" x 15,000Psi working pressure x 7 Ram cavities; 2 x annulars x 12,000ft water depth.
BOP Handling:	1 x NOV BOP Gantry Crane, rated 2 x 240m; 1 x NOV BOP Trolley x rated 540Mt.
Control System:	1 x Shaffer 6 th generation Multiplex BOP Control system x 12,000ft 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 H ₂ S sour service. Split buffer chamber, Dual port/starboard high pressure emergency overboard lines.
Diverter:	75 ½" x NOV Shaffer CSO x 500Psi.
MPD:	RCD – Elite/Weatherford, 2000 psi static 1000 psi dynamic, 3.5 M lbs riser connector (flanged); DSIT - AF Global, 2000 psig, 3.5 M lbs riser connector (flanged); Flow Spool - AF Global, 2000 psig, 3.5 M lbs riser connector (flanged)

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 Alfa Laval; 2 x RO.
Others: CCTV System.