



RIG FLEET SPECIFICATIONS

Rig Type	Dynamically Positioned Drillship
Design	Gusto Engineering / Pelican Class
Previous Names	Valentin Shashin
Built By	Rauma Repola OY, 1982
Upgraded	1991, 1997-1998, 2006-2007, 2014-2015
Classification	DNV *1A1 Ice-1A Ship-shaped Drilling Unit MODU, DYNPOS-AUTR
Flag	Barbados
Min/Max Water Depth	90 m to 1700 m (295 ft to 5577 ft)
Max Drilling Depth	7,000 m (23,000 ft)
Accommodation	116 berths (single & double cabins)
Helideck	22 x 22 m , Max weight - 13 t
Design and environmental criteria	Wave: 3.7 m (12 ft) @ 8 sec; WInd: 36 m/sec

VESSEL

TECHNICAL DIMENSIONS

Main Dimensions	LOA: 139.49 m; LBP: 136.8 m; Breadth:
Loadline Draft	28.8 m; Depth: 12.67 m; Draft: 7-7.3 m
Gross/Nett tonnage	12923 RT / 3877 RT
Variable Deck Load	7500 mt

MACHINERY

Main Power	6 x 3000 BHP Wartsila 16V22B diesel engines, alternator 3300 KVA, 6000V, 50Hz
Emergency Power	1 x generator, 500 kVA, Cummins KTTA19G2, 380V, 50Hz
Thrusters	5 x tunnel thrusters, 3 forward, 2 aft, 1380 KW each
Dynamic Positioning System	Kongsberg SDP 531 Triple Redundant
Deck Cranes	Port side: Liebherr 40 t Starboard side: Liebherr 60 t

STORAGE CAPACITIES

Cargo holds	Hold 1: 1225 m3 (350t); Hold 2: 1225 m3 (650t); Hold 3: 900 m3 (430t)
Liquid Mud active	258m3 (1622 bbl)
Liquid Mud reserve	336m3 (2113 bbl)
Drill Water	1695 mt
Potable Water	669 mt
Fuel Oil	1860 mt
Bulk Barite	3 tanks x 46 m3 each
Bulk Bentonite	3 tanks x 46 m3 each
Bulk Cement	6 tanks x 46 m3 each
Material in Sacks	365 mt
Chemical tanks	63 bbl & 140 bbl

LIFE SAVING APPLIANCES

Life boats	4 x 58 people each
Life rafts	12 x 20 people each
Rescue boat	1 MOB boat

DRILLING PACKAGE

DERRICK

Manufacturer/Type	Dreco / Rauma Repola Heavy Duty Dinamic derrick
Dimensions	53 m x 14 m x 11 m (175 ft x 44.4 ft x 36 ft)
Max Hook Load	590 mt (1,300,000 lb) with 14 lines
Racking Capacity	385 x 5½" DP, 3 x 9½" DC,
Setback Capacity	340 tn (750 000 lb)

DRAWWORKS

Manufacturer/Type	Oil well E-3000-UDB
HP Rating	3,000 hp driven by 3 ASEA motors
Brakes	Emalgco 7838;

TOP DRIVE

Manufacturer/Type	Maritime Hydraulics DDM 650 HY
Output Power	
Rated Capacity	590 mt (650 st)
Continuous Torque	55000 ft lbs @ 225 rpm

ROTARY TABLE

Manufacturer/Type	National Oilwell 49 -1/2
Rated Capacity	800 tn
Max. Opening	49½" (1 257.3 mm)

MUD PUMPS

Manufacturer/Type	2 x National Oilwell A1700-PT Triplex, 1 x Continental Emsco FB1600 Triplex
HP Rating	800 hp (each)
Max. Pressure	5,000 psi

SOLIDS CONTROL

Shale Shakers	5 x Mi Swaco / Mongoose PT9672300-03
Desander	1 x Derrick DSI-10-3 with cones 3 x 10"
Desilter	1 x Derrick D-RND-CM-4-20 with cones 20 x 4"

WELL CONTROL SYSTEMS

BOP Stack	1 x 18¾"(476 mm) x 5,000 psi (345 bar) Dual Hydril annular, H2S certified; 2 x 18¾" (476 mm) x 10,000 psi (690 bar) Cameron U double rams, H2S certified;
Diverter	HYDRIL / FS 21-500 21" (533,4 mm), 500 psi (34 bar) WP;
Control System	ABB Type 80 Accumulator Unit; Accumulator capacity: 990 gallons
Choke & Kill	T3 TYPE "FC" 10,000 psi (690 bar) C&K manifold with 2 x adjustable FLOW CONTROL chokes, 2 x power choke & 10K by-pass lines, H2S certified WOM 15,000 psi (1,035 bar) C&K manifold with 2 x hydraulic Swaco chokes, 1 manual choke & 15K by-pass lines, H2S certified