

The “PACIFIC SHARAV” is an upgraded Dual Load Path Samsung 12,000 design dynamically-positioned Dual Gradient capable drillship able to operate in moderate environments and water depths up to 3,657 m (12,000 ft) using 18¾” BOP and 21” OD marine drilling riser, adapted for single and dual gradient drilling. In areas where dual activity patent is valid, drillship will operate in single activity only.



PACIFIC SHARAV UDW Drillship

GENERAL

Flag:	Liberia
Owner:	Pacific Sharav SARL
Year built:	2014
Design:	Samsung 12000 Double Hull
Builder:	Samsung Heavy Industries, South Korea
Classification:	DNV Classed: 1A1, Ship-shaped Drilling Unit, BIS, E0, DYNPOS-AUTRO, CRANE, HELDK-S, F-AM, COMF-V(2)

OPERATING PARAMETERS

Maximum transit speed:	11.5 knots	
Operating conditions:	Wave: 19 ft	Wind: 50 knots
Station-keeping conditions:	Wave: 28 ft	Wind: 60 knots
Storm conditions:	Wave: 47 ft	Wind: 100 knots
Water depth:	Equipped: 10,000 ft (3,048 m)	Maximum: 12,000 ft (3,657 m)
Drilling depth:	Equipped: 40,000 ft (12,000 m)	Maximum: 40,000 ft (12,186 m)

MAIN DIMENSIONS / CAPACITIES

Length:	748 ft	228 m
Breadth:	137 ft	42 m
Depth:	62 ft	19 m
Transit draft:	28 ft	8.5 m
Operating draft:	39 ft	12 m
Maximum load displacement:	105,800 ST	96,000 MT
Variable deck load – Operating:	24,250 ST	22,000 MT
Variable deck load – Transit:	18,740 ST	17,000 MT
Variable deck load – Survival:	24,250 ST	22,000 MT
Brine / sea water:	4,000 bbls	640 m ³
Brine:	15,700 bbls	2,500 m ³
Base oil:	6,200 bbls	1,000 m ³
Active mud:	6,200 bbls	1,000 m ³
Reserve mud:	18,700 bbls	3,000 m ³
Liquid (riser) mud:	3,145 bbls	500 m ³
Waste mud / reserve mud:	2,800 bbls	450 m ³
Sacks:	10,000 sacks	-
Drill water:	15,700 bbls	2,500 m ³
Potable water:	8,100 bbls	1,300 m ³
Diesel:	46,500 bbls	7,400 m ³
Pipe racks:	Storage for 3,000 MT of drill pipe and casing	
Riser storage:	Storage for 131 joints of 90 ft length, 21” outside diameter riser with 58” buoyancy	
Well test area:	Storage area aft designed for up to 2,500 MT of well test equipment	
Helideck:	22.2 x 22.2 octagonal, rated for Sikorsky S61N or S92	
ROV:	ROV deployed over side, space for one port and one starboard full spreads	
Moonpool:	84 ft x 41 ft (25.6 m x 12.5 m)	
Accommodation:	200 berths, 20 x 1 person and 90 x 2 persons rooms	
Burner boom:	N/A	

PACIFIC SHARAV

UDW Drillship



MACHINERY

Main power:	HIMSEN engines 6 x 8,000 kW at 720 RPM, Tier 2 compliant, each driving 1 x 7,760 kW 11kV ABB generators
Power distribution:	11 kV, 440 V, 60 Hz, 3-Phase Drilling Drive System
Emergency power:	6 Main engines are equipped for emergency duties
Craneage:	4 x 85 MT electro-hydraulic knuckle-boom cranes at 18 m (59 ft) radius 1 x 9 MT electro-hydraulic tubular handler at 22.3 m (73 ft) radius on forward pipe deck

STATION-KEEPING

Positioning:	Kongsberg DYNPOS AUTRO System for DP-3 Operations
Propulsion:	6 x 4,500 kW variable speed AC drives
Thrusters:	6 x Rolls Royce Aquamaster fixed pitch Azimuthing in water removable thrusters
Reference system:	Dual redundant DGPS or equivalent; Dual HiPAP hydro acoustic position reference system

DRILLING EQUIPMENT

Derrick:	Dual load path main 1,250 ST auxiliary 1,000 ST, maximum combined load 1,750 ST 210 ft x 60 ft x 80 ft derrick to handle 135 ft-tubular. Crown block with 9 each 72" sheaves Racking board capable of racking 3 1/2" DP up to 20" casing
Draw-works:	2 x NOV Active Heave Drawwork, 2,500 kips single speed gear driven by 6 x 1,150 HP AC motors with 2 1/8" line
Rotary:	1 x NOV RST 755 (75-1/2") hydraulic (Main); 1 x NOV RST 605 (60-1/2") hydraulic (Auxiliary)
Top drive:	2 x NOV TDX-1250, 1250 ST hoisting, 1,200 ST rotating, torque 90,740 ft.lbs
Travelling block:	2 x NOV 2,500 kips, 8 x 72" sheaves
Mud pumps:	4 x NOV 14-P-220, 7,500 psi
HP brine - DGD pumps:	3 x NOV 14-P-220, 7,500 psi
Cementing unit:	Third Party Services – Halliburton
Shale shakers:	7 each NOV Multi size Triple Deck shale shaker
Degasser:	2 x Brandt DG-12 vacuum degasser
Centrifuges:	Space available for 2 x Brandt HS 2,172 centrifuges
Drill-pipe:	5,000 ft 6.5/8" Casing landing string with 6.5/8" FH connections, V-150, 57 lbs/ft 5,000 ft 6 5/8" Casing landing string with 6 5/8" FH connections, V-150, 57 lbs/ft slip proof 6,500 ft 6.5/8" Drill string with 6.5/8" FH connections S-135, 0.625 Wall Thickness 10,000 ft 6.5/8" Drill string with 6.5/8" FH connections S-135, 0.522 Wall Thickness 10,000 ft 6.5/8" Drill string with 6.5/8" FH connections S-135, 0.362 Wall Thickness 10,000 ft 5.7/8" Drill string with 585 Turbotorque connections, S-135, 0.361 Wall Thickness 5,000 ft 4.1/2" Drill string with XT43 connections, S-135, 0.430 Wall Thickness
Drill-collars / HWDP:	12 x 9 1/2", 30 x 8 1/4", 30 x 6 3/4" / 40 x 5 7/8" HWDP, 40 x 5" HWDP
Pipe handling:	Outfitted to facilitate offline tubular handling with system consisting of: 2 x Hydra-Racker System HR-IV (for 3.1/2" to 20" tubulars) 2 x Hydratong MPT-200 (for 3.1/2" to 9.3/4" tool-joints)

SUBSEA SYSTEMS

Note:	2 each complete BOPs installed.
BOP – 2 each:	6 Ram cavities: 2 x NOV-Shaffer NXT 18 3/4" 15k triple; GE-Vetco SHD H4 18 3/4" 15k wellhead
LMRP – 2 each:	2 x NOV-Shaffer 18 3/4" 10k annular; GE-Vetco ExF H4 18 3/4" 15k High Angle Release LMRP connector
BOP / Xmas tree handling:	1 x BOP trolley with skid rated 540 tons; 2 x 240 ton BOP gantry crane with dual lifting hoists 2 x X-mas tree skids rated 120 tons 1 x Multi-purpose cart rated 1,000 tons (lower BOP, X-mas tree handling, riser hang-off, DGD pump)
Control system:	NOV-Shaffer 6 th Gen. Multiplex Control System suitable for 12,000 ft
Riser details:	NOV-Shaffer 21" OD, FT-DGD 90 ft joints Class H 3 1/2 M. lbs couplings & 15k 4.1/2" ID C&K lines – 10,000 ft; 58" buoyancy
Riser gantry crane:	One riser gantry crane with 2 x 27.5 MT hoist
Choke & kill:	3.1/16" x 15k C&K Manifold H2S Service
Diverter:	NOV-Shaffer 21 1/4" CSO for 75 1/2" Rotary table, 500 psi
Riser tensioner:	8 x Dual Wireline 225 kips with 50 ft stroke