



The "PACIFIC SHARAV" is an upgraded Dual Load Path Samsung 12000 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.



Pacific Sharav UDW Drillship (Hull # 2015)

GENERAL

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| Flag: | Liberia |
| Owner: | Pacific Drilling VI Limited, a subsidiary of Pacific Drilling Limited |
| Manager: | Pacific Drilling Services Inc |
| Year Built: | New Build – to be delivered September 2013 |
| Design: | Samsung 12000 Double Hull |
| Builder: | Samsung Heavy Industries, South Korea |
| Classification: | DNV +A1, Ship-shaped Drilling Unit, BIS, E0, DYNPOS-AUTRO, DRILL, CRANE, HELDK-S, F-AM, HIL DP, HIL PMS, COMF-V(2) |

OPERATING PARAMETERS

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| Maximum transit speed: | 11.5 knots |
| Operating conditions: | Wave: 19ft Wind 50: knots |
| Station-keeping conditions: | Wave: 28ft Wind 60: knots |
| Storm conditions: | Wave: 47ft Wind 100: knots |
| Water depth: | Equipped: 10,000ft (3048m) Maximum: 12,000ft (3657m) |
| Drilling depth: | Equipped: 35,000ft (10,668m) Maximum: 40,000ft (12,186m) |

MAIN DIMENSIONS / CAPACITIES

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| 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 | 15,700 bbls | 2500m ³ |
| Base oil: | 6,200 bbls | 1000 m ³ |
| Active mud: | 6,200 bbls | 1000 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 | 2500 m ³ |
| Potable water: | 8,100 bbls | 1300 m ³ |
| Diesel: | 46,500 bbls | 7400 m ³ |
| Pipe racks: | Storage for 3,000 MT of drill pipe and casing | |
| Riser storage: | Storage for 131 joints of 90 ft length, 21-1/4" outside diameter riser with 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 spread | |
| 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: | TBD | |



Pacific Sharav UDW Drillship

MACHINERY

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| 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: | All main engines are rated as emergency |
| Cranage: | 4 x 85 MT electro-hydraulic knuckle-boom cranes at 18 m (59 ft) radius 1 x 9 MT electro-hydraulic knuckle-boom cranes at 22.3 m (73 ft) radius |

STATION-KEEPING

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| 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 |
| Ref. System: | Dual redundant DGPS or equivalent; Dual HiPAP hydro acoustic position reference system |

DRILLING EQUIPMENT

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| Derrick: | Dual load path main 1250 ST auxiliary 1000 ST, maximum combined load 1750 ST 210 ft x 60 ft x 80 ft derrick to handle 135 ft-tubular. Crown block with 9 ea 72" sheaves Racking board capable of racking 3 1/2" DP up to 20" casing |
| Draw-works: | 2 x NOV Active Heave Drawwork, 2500 kips single speed gear driven by 6 x 1150 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, 1200 ST rotating, torque 90,740 ft.lbs |
| Travelling block | 2 x NOV 2000 kips, 8 x 72" sheaves |
| Mud Pumps: | 4 x NOV 14-P-220, 7500 psi |
| HP Brine - DGD Pumps: | 3 x NOV 14-P-220, 7500 psi |
| Cementing Unit: | Third Party Services – Schlumberger CPS-665, remote control, LAS |
| Shale Shakers: | 7 ea. NOV Multi size Triple Deck shale shaker |
| Degasser: | 2 x Brandt DG-12 vacuum degasser |
| Centrifuges: | Space available for 2 x Brandt HS 2172 centrifuges |
| Drill-pipe: | 10,000 ft 6.5/8" Casing landing string with 6.5/8" FH connections, V-150, 50.41lbs/ft 25,000 ft 5.7/8" Drill string with 585 Turbotorque connections, S-135, 26.30 lbs/ft 10,000 ft 5" Drill string with GPDS50 connections, S-135, 19.50 lbs/ft |
| 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 Hydro-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

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| BOP: | 6 Ram cavities: 2 x Shaffer NXT 18 3/4" 15K triple (rated for 12,000'); Vetco SHD H4 18 3/4" 15K wellhead connector |
| LMRP: | 2 x Shaffer 18 3/4" 10K annular; 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 Rails for 1 x Multi purpose hang off cart rated 1000 tons, with 13m clearance for Xmas trees. |
| Control System: | Shaffer Multiplex Control System suitable for 12,000' |
| Riser Details: | Shaffer 21" OD, 90 ft joints Class H couplings & 15K 4.1/2" ID C&K lines |
| Riser Gantry crane | One riser gantry crane with 2 x 27.5 mt hoist |
| Choke & Kill: | 3.1/16" x 15K C&K Manifold H ₂ S Service |
| Diverter: | Shaffer CSO (or equivalent) with 75-.1/2" bore, 500 psi |
| Riser Tensioner: | 8 x Dual Wireline 225kips with 50 ft stroke |