

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



PACIFIC SCIROCCO UDW Drillship

GENERAL

Flag:	Liberia
Owner:	Pacific Scirocco Ltd.
Manager:	Pacific Drilling Services, Inc.
Year built:	2011
Design:	Samsung 12000 Double Hull
Builder:	Samsung Heavy Industries, South Korea
Classification:	ABS classed: A1, Drilling Unit, AMS, ACCU, DPS-3

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: 35,000 ft (10,668 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:	22,046 ST	20,000 MT
Variable deck load – Transit:	18,740 ST	17,000 MT
Variable deck load – Survival:	22,046 ST	20,000 MT
Brine:	6,290 bbls	1,000 m ³
Base oil:	3,145 bbls	500 m ³
Active mud:	6,698 bbls	1,065 m ³
Reserve mud:	6,290 bbls	1,000 m ³
Liquid (riser) mud:	3,145 bbls	500 m ³
Waste mud / reserve mud:	3,145 bbls	500 m ³
Sacks:	10,000 sacks	-
Drill water:	17,611 bbls	2,800 m ³
Potable water:	8,176 bbls	1,300 m ³
Diesel:	38,997 bbls	6,200 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 54” buoyancy	
Well test area:	Storage area aft designed for up to 2,500 MT of well test equipment	
Helideck:	89 ft Aluminium Pancake Octagon, rated for Chinook	
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	
Burner boom:	1 Each 80 ft Swan neck burner boom installed on aft ship, ship will weather vane	

PACIFIC SCIROCCO UDW Drillship



MACHINERY

Main power:	6 x 7,000 kW STX-MAN 720 RPM, each driving one 7,000 kW 11,000 V generators
Power distribution:	11 kV, 440 V, 60 Hz, 3-Phase Drilling Drive System
Emergency power:	1 x 1,350 kW driving 1 x 1,350 kW generator 440 V system
Cranage:	4 x 85 MT electro-hydraulic knuckle-boom cranes at 18 m (59 ft) radius

STATION-KEEPING

Positioning:	Kongsberg-Simrad 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:	200 ft x 60 ft x 80 ft derrick to handle 135 ft-tubular with 2 x NOV 2,000 kips compensating crown block plus AHC
Draw-works:	2 x NOV SSGD-5750, 2,000 kips single speed gear driven by 1,150 HP AC motors with 2" line
Rotary:	1 x Varco BJ RST 75-1/2" hydraulic (Main); 1 x Varco BJ RST 60-1/2" hydraulic (Auxiliary)
Top drive:	2 x Hydralift HPS 1000-2E-AC-KT, 2,000 kips
Travelling block:	2 x NOV 2,000 kips, 7 x 72" sheaves
Motion compensator:	2 x NOV CMC-1000-25 with 25 ft max stroke static load 2,000 kips; compensating load 1,000 kips
Mud pumps:	4 x NOV 14-P-220, 7,500 psi
Cementing unit:	Third Party Services – Schlumberger CPS-665, remote control, LAS
Shale shakers:	7 each VSM 300 shale shakers
Degasser:	2 x NOV Brandt DG-12 vacuum degasser
Centrifuges:	2 x Brandt HS 3,400 centrifuges with 45 HP power pack and control system
Drill-pipe:	10,000 ft 6.5/8" Casing landing string with 6.5/8" FH connections, UD-165, 50.41 lbs/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 14" tubulars)
	2 x Hydratong MPT-200 (for 3.1/2" to 9.3/4" tool-joints)

SUBSEA SYSTEMS

BOP:	6 Ram cavities: 2 x NOV-Shaffer NXT 18 3/4" 15k triple; 1 x NOV-Shaffer 18 3/4" 10k annular; GE-Vetco SHD H4 18 3/4" 15k wellhead connector
LMRP:	1 x NOV-Shaffer 18 3/4" 10k annular; GE-Vetco ExF H4 18 3/4" 15k High Angle Release LMRP
BOP / Xmas tree handling:	1 x BOP trolley with skid rated 470 tons; 2 x 240 ton BOP gantry crane with dual lifting hoists
	1 x Xmas Tree base plate trolley rated 200 tons; 2 x Xmas Tree storage cart rated 120 tons
Control system:	NOV-Shaffer 5 th Gen. Multiplex Control System suitable for 12,000 ft
Riser details:	NOV-Shaffer 21" OD, 90 ft joints with Class H 3 1/2 M. lbs couplings & 15k 4.1/2" ID C&K lines 10,000 ft ; 54" buoyancy
Riser gantry crane:	One riser gantry crane with 2x25 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