



WILPHOENIX



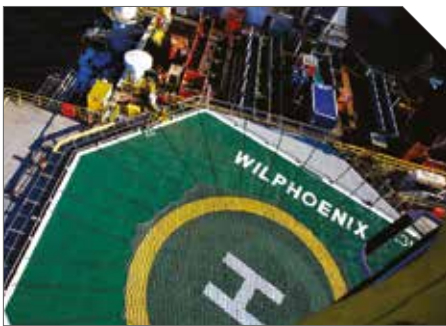
AWILCO DRILLING

WILPHOENIX:

TECHNICAL SPECIFICATIONS

NAME: WILPHOENIX
FLAG: VANUATU
OWNER: WILPHOENIX (MALTA) LTD.
MANAGER: AWILCO DRILLING PLC.
PREVIOUS NAME(S): VINLAND; MAERSK JUTLANDER;
GSF ARCTIC II; ARCTIC II
YEAR BUILT: 1983, EXTENSIVELY UPGRADED
2011 & 2016".

BUILDER: GOTAVERKEN ARENDAL, SWEDEN
DESIGN: FRIEDE & GOLDMAN L-907 ENHANCED
PACESETTER SEMI-SUBMERSIBLE
CLASSIFICATION: DNV 1A1 COLUMN STABILISED
DRILLING UNIT



> MAIN DIMENSIONS

LENGTH: 308 ft
BREADTH: 206 ft
DEPTH: 116 ft main deck elevation.
COLUMNS: 4 x 35 ft diameter corner columns, with stability boxes 12.5 ft deep x 22.3 ft wide & length of column; 2 x 32 ft diameter centre columns.
PONTOONS: 2 x 260 ft long x 50 ft wide x 25ft deep, with sponsons 5 ft wide x 24 ft deep x 157.4 ft long
DECK AREA: Main deck length 220ft. Main deck width 200 ft. Total deck area 42,400 ft²

> DRAFT AND DISPLACEMENT

OPERATION DRAFT: 64 ft
TRANSIT DRAFT: 25 ft
SURVIVAL DRAFT: 50 ft
OPERATION DISPLACEMENT: 26,353 ton
TRANSIT DISPLACEMENT: 17,556 ton

> MACHINERY

MAIN POWER: 4 x Nohab F312 12-cylinder diesel with maximum continuous power 2652 hp with 4 x Siemens 1808 kW ac generator
POWER DISTRIBUTION: 8 x Siemens SCR power unit, 720V dc 1200amp; 4 x Sundberg AB transformer 1200 kVA; 3 x Sundberg AB transformer 875 kVA
EMERGENCY POWER: 1 x Cummins KTA 50-D (M1) Rated at 1000 kW

> OPERATING PARAMETERS

WATER DEPTH: 1200 ft
MAXIMUM DRILLING DEPTH: 25000 ft
SURVIVAL CONDITIONS: Wind: 100 knots; wave height: 100 ft; period: 13.5 sec;
DRILLING CONDITIONS: Wind: 60 knots; wave height: 50ft; period 10 sec
DESIGN CONDITIONS: Max wind speed: 100 knots; max wave height: 100 ft



> DRILLING EQUIPMENT

DERRICK:	Dreco 195ft x 40ft x 40ft, 1,250,000 lb static hook load with 14 lines; Crown block: Maritime Hydraulics, 650 ton
DRAWWORKS:	National 1625 UDBE 3000 hp with 3 x GE 752 motors & disc brake and a Baylor 7838 auxiliary electric brake
ROTARY:	Ideco 49 ½" hydraulic motor driven, non-drilling
TOP DRIVE:	Maritime Hydraulics DDM-650-HY-C 359, 590 te, continuous drilling torque rating of 40,450 ft/lb @ 265 rpm
TRAVELLING BLOCK:	Ideco 750 st with retract.
RISER TENSIONERS:	8 x 80,000 lb NL Shaffer 50 ft line travel
GUIDELINE TENSIONERS:	4 x 16,000 lb NL Shaffer, 40 ft line travel
POD TENSIONERS:	NL Shaffer 2 x 16,000 lb, 40 ft travel
MOTION COMPENSATORS:	Maritime Hydraulics Crown Mounted Compensator MH 1659 270 – 20 with Active Heave, Compensating capacity 595,000lb.
CEMENTING:	Schlumberger remote operated CPS 679
MUD PUMPS:	2 x Ideco T-1600, 1600 hp triplex, each driven by 2 x Siemens dc motor, rated to 5000 psi with plungers and high pressure liners; 1 x National Oilwell 12-P-160 1600 hp triplex driven by 2 x GE 752 dc traction motor, rated to 5000 psi with plungers and high pressure liners

> CAPACITIES

VARIABLE DECK LOAD:	4167 Tonne
BULK MUD/CEMENT:	3778/5777 ft ³
LIQUID MUD:	Active - 1716 bbls Mud processing - 358bbls Reserve - 1445bbls
SACKS:	6000 sacks (100 lb ea)
DRILLWATER:	13,737bbls
POTABLE WATER:	2791 bbls
FUEL OIL:	8013 bbls
OTHERS:	Base Oil 3711 bbls Brine 2016 bbls

> SUBSEA SYSTEMS

BOP:	1 x 18¾" 15,000psi Vetco H4 E x F Wellhead connector, 1 x Shaffer 15K Triple NXT ram preventer, 1 x Shaffer 15K NXT double ram preventer, 1 x 18¾" 10,000 psi Shaffer annular preventer
LMRP:	1 x 18¾" 15,000 psi VETCO HAR connector, 1 x 18¾" 10000 psi Shaffer annular preventer
BOP HANDLING:	Nomar 235 te BOP Elevator
CONTROL SYSTEM:	AXON 3000 psi electric powered control system with 5000psi DMS system
RISER DETAILS:	1200 ft x Regan FC8 21"
DIVERTER:	Regan KFDS-3, 23in nominal size diverter with Regan DR-1 ball joint
DRILLPIPE:	As required
DRILLCOLLARS:	As required
CHOKE AND KILL:	3 1/16" 15,000 psi wp AXON choke manifold HP/HT ready

> MOORING

WINCHES:	4 x Norwinch 2A-76-2 E1-hydraulic double winch
CHAIN:	8 x 4250 ft x 3" K4 anchor chain
ANCHORS:	8 x 12 te Stevpris MK6 with chain chasers

> CRANES:

2 x Liebherr, 120ft boom, 30 te at 31 ft radius; 1 x Liebherr 80 ft boom, 50 te at 31 ft radius

> HELIDECK:

S-61N, 85 ft x 87 ft

> MOONPOOL:

75 ft x 20 ft

> ACCOMMODATION:

110 berths – 2 man cabins – extensive additional offices as a result of 2011 upgrades

> ADDITIONAL DATA:

Solids control: 4 x Derrick 626 Dual Pool Shakers. STEP automated mud mix system

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