



WILHUNTER



AWILCO DRILLING

WILHUNTER:

TECHNICAL SPECIFICATIONS

NAME:	WILHUNTER	BUILDER:	DAEWOO SHIPBUILDING & HEAVY MACHINERY LTD, KOREA; UPGRADED: 1999 ALSO 2011
FLAG:	VANUATU	DESIGN:	FRIEDE & GOLDMAN L-907 ENHANCED PACESETTER SEMI-SUBMERSIBLE
OWNER:	WILHUNTER (UK) LTD	CLASSIFICATION:	DNV 1A1 COLUMN STABILISED DRILLING UNIT
MANAGER:	AWILCO DRILLING PLC		
PREVIOUS NAME(S):	BENREOCH; STENA FORTH; GLOMAR ARCTIC IV, GSF ARCTIC IV		
YEAR BUILT:	1983		



> MAIN DIMENSIONS

LENGTH:	270ft
BREADTH:	206 ft
DEPTH:	116ft main deck elevation
COLUMNS:	4 x 38ft diameter corner columns: 2 x 35ft diameter mid columns
PONTOONS:	2 x 270 ft long x 56 ft wide x 25 ft deep
DECK AREA:	Main deck length 221 ft, Main deck width 203ft. 43,263 ft ²

> DRAFT AND DISPLACEMENT

OPERATING DRAFT:	65ft
TRANSIT DRAFT:	24.5ft
SURVIVAL DRAFT:	50ft
OPERATING DISPLACEMENT:	28,878 te
TRANSIT DISPLACEMENT:	18,153 te

> MACHINERY

MAIN POWER:	4 x Ruston 12-RKCZ diesel engine, maximum continuous power 3320hp and 4 x GEC 2600kVA ac generators
POWER DISTRIBUTION:	6 x Hill Graham SCR unit, each rated at 1200amp; 2 x distribution transformer 1300/1600kVA, 600-440V @ 60 Hz
EMERGENCY POWER:	1 x Caterpillar 3512 turbo charged diesel rated at 955kW
PROPULSION:	2 x in-line fixed propeller with Kort nozzles, 1492 bhp each

> OPERATING PARAMETERS

WATER DEPTH:	1500ft
MAXIMUM DRILLING DEPTH:	25000ft
TRANSIT SPEED:	5 knots
SURVIVAL CONDITIONS:	Wind: 100 knots; wave height: 100ft: 12.5 sec period
DRILLING CONDITIONS:	Wind: 75 knots; max wave height: 50ft; current: 1.5 knots
DESIGN CONDITIONS:	Max wind speed: 100 knots; max wave height: 100 ft

> DRILLING EQUIPMENT

DERRICK:	Derrick Services International 175ft x 40ft x 40ft: 1,400,000 lb static hook load capacity with 14 lines
DRAWWORKS:	National Oilwell 1625-DE, 3000hp, driven by 3 x Unirig DM7661DC electric motor and with a Baylor 7838 auxiliary electric brake
ROTARY:	National Oilwell C-495 with 49½" opening, hydraulic drive 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: HANDLING:	National 760-H650; with retract. BJ V-34-238FB 3-arm racking with system; Maritime Hydraulics Iron Roughneck MH 1898.
RISER TENSIONERS:	8 x Brown Brother, 110,000lb, 50ft line travel
GUIDELINE TENSIONERS:	4 x Brown Brothers, 16,000lb, 40ft line travel
MOTION COMPENSATORS:	Brown Brothers in-line 600,000 lb compensating capacity, 20ft stroke, 1,500,000 lb locked capacity;
CEMENTING: MUD PUMPS:	Schlumberger remote operated CPS 679 2 x National Oilwell 12-P-160 1600hp triplex, 1 x Continental Emsco FB 1600 1600hp triplex, each driven by 2 x Unirig dc traction motor, rated to 5000psi with plungers and hi-pressure liners.

> CAPACITIES

VARIABLE DECK LOAD:	3644 te
BULK MUD/CEMENT:	11400 / 11400 ft³
LIQUID MUD:	2235bbl
DRILLWATER:	8600bbl
POTABLE WATER:	981bbl
FUEL OIL:	8600bbl
OTHERS :	Base oil: 3424bbl; brine: 3245 bbl

> SUBSEA SYSTEMS

BOP:	1 x 18 ¾" x15,000psi Vetco H4 E x F wellhead connector, 2 x 18 ¾" Cameron U2 15,000psi double ram preventers, 1 x 18 ¾" in Cameron D 10,000psi annular preventer;
LMRP:	1 x 18 ¾" Cameron Model 70 Collet connector, 1 x 18 ¾" Cameron D 10,000psi annular preventer; OSK Flex Jt.
BOP HANDLING: SYSTEM:	Nomar 208 te BOP elevator CONTROL Cameron 3000psi hydraulic system.
RISER DETAILS: DIVERTER:	1600ft x Cameron RD 21" od Regan KFDS 24" nominal size diverter with Regan type DR-1 ball joint
DRILLPIPE: DRILLCOLLARS:	As required As required
CHOKE AND KILL:	3 ½" 15,000psi.

> MOORING

WINCHES:	4 x Skagit WMD-48 double wildcat with dynamic disc brakes
CHAIN:	8 x 6300 / 6500 ft x 3" diameter K-4 chain
ANCHORS:	8 x 12 te Stevpris Mk VI with chain chasers

> CRANES:

3 x National OS-435 hydraulic; 2 x 140ft boom, 49.5 te at 30ft radius, 1 x 80 ft boom, 52.2 te @ 40 ft radius.

> HELIDECK:

72 ft x 88 ft suitable for S-61

> MOONPOOL:

72ft x 23 ft

> ACCOMMODATION: 110 berths, extensive additional office space as a result from 2011 upgrade.

> ADDITIONAL DATA: Solids control: 3 x Axiom AX-1 shale shaker; Reinforced aft deck for skip & ship or Rotomill.



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