



Stena DrillMAX

Harsh Environment Dynamically Positioned DP Class 3 Drillship

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GENERAL INFORMATION

RIG TYPE / DESIGN.....Dynamically Positioned, Harsh Environment DP3 Drillship
 CONSTRUCTION SHIPYARD.....SHI (Samsung Heavy Industries)
 YEAR ENTERED SERVICE / SIGNIFICANT UPGRADES.....December 2007 / N/A
 CLASSIFICATION.....DNV: + 1A1 Ship-shaped Drilling unit(N) BIS Crane DRILL(N) DYNPOS(AUTRO) EO F(A, M) HELDK(S, H)
 FLAG.....United Kingdom (UK)
 DIMENSIONS.....228 m (Long) x 42m (Wide) x 19m (moulded depth)
 DRAFTS.....12m (39.4 ft) operating / 8.5m (27.9 ft) transit
 ACCOMODATION.....180, **upgradeable to 220**
 VARIABLE DECK (OPERATING)...19,500Mt @12m
 TRANSIT SPEED.....up to 12 knots
 MAXIMUM WATER DEPTH.....3,000m designed / 2,285m outfitted - **Additional Riser Available**
 10,000 ft designed / 7,500 ft outfitted - **Additional Riser Available**
 MAXIMUM DRILLING DEPTH10,700m / 35,104 ft *With Offset Setback Standbuilding Capability
 HELIDECK.....Rated for EH-101 and S-92, Equipped with trace heating

DRILLING EQUIPMENT

MAST.....NOV Dual Hoisting and Drilling Tower - Offline Standbuilding Capability
 HOOKLOAD CAPACITY.....[MAIN] 1000st static hookload (2,000,000 lbs), **upgradeable to 1250st**
 [AUX] 600st static hookload (1,200,000 lbs)
 HOIST/DRAWWORKS.....[MAIN] Hydraulic NOV Cylinder Hoisting Rig system with emergency lift/boost speed accumulator system
 Rated to a capacity of 2,300,000lbs - **upgradeable to a capacity of 1400st**
 [AUX] Hydraulic NOV Cylinder Hoisting Rig system with emergency lift/boost speed accumulator system
 Rated to a capacity of 1,200,000lbs
 MOTION COMPENSATOR.....[MAIN] NOV Deadline Compensator with active heave compensation.
 Rated to 1040kips - **upgradeable to 1125st compensated**
 [AUX] NOV Deadline Compensator with active heave compensation.
 Rated to 840kips
 ROTARY TABLE.....[MAIN] NOV RST 60-1/2", static load rating of 1250st, max torque 57,000ft-lbs
 [AUX] NOV RST 49-1/2", static load rating of 800st, max torque 47,160ft-lbs
 TOP DRIVE.....[MAIN] NOV HPS-03 1000, 2 x ABB HXR 450 (LM6) AC-motors (2 x 990HP).
 1,000st static load rating, max continuous drilling torque 68,888ft-lb.
Upgradeable to NOV TDX 1250
 [AUX] NOV HPS-03 750, 2 x ABB HXR 450 (LM8) AC-motors (2 x 1000HP).
 750st static load rating, max continuous drilling torque 68,900 ft-lb
 TUBULAR HANDLING.....Drillfloor:
 Main and aux well NOV MPT 200 Hydratong Roughnecks, tubular range 3 1/2" to 9 3/4". Maximum make-up/brake-out torque: 140/200kNm respectively. Casing tong KT-7585 data: Jaw range: 2 3/8" to 8 5/8" (inch), Max torque: 25,000 Ft-Lb
 NOV horizontal pipe handling catwalk machine for single drillpipes, collars and casing. Pipe size range from 2 7/8" to 36" OD, for singles up to 50ft.
 Setback:
 Dedicated off-drillfloor pipe racking setback comprising dual NOV HR-IV quadruple stand height vertical pipe racking machines, 3 1/2" to 13 5/8", serving both main and aux wells.
 RISER FEED.....1 x NOV horizontal riser handling catwalk for 80ft riser/slip-joints.
 OFFLINE STANDBUILDING.....1 x NOV MPT 200 Hydratong Roughneck, tubular range 3 1/2" to 9 3/4"
 Casing tong KT-7585 data: Jaw range: 2 3/8" to 8 5/8" (inch)
 Max torque: 25,000 Ft-Lb
 NOV horizontal pipe handling catwalk machine for single drillpipes, collars and casing. Pipe size range from 2 7/8" to 38" for singles up to 50ft.
 1 x Torque Master;
 3-1/2" to 14" Diameter (90 to 355mm) Tailstock
 3-1/2" to 18" Diameter (90 to 457mm) Headstock
 2-3/4" to 13-1/4" Diameter (70 to 336mm) Tailstock using extended tong dies
 2-3/4" to 17-1/4" Diameter (70 to 438mm) Headstock using extended tong dies
 MUD PUMPS.....4 x National FC2200 pumps – 7500psi
 HP MUD SYSTEMS.....Rated for 7,500psi – **Dual Fluid System upgradeable**
 SOLIDS CONTROL.....5 x NOV Shale Shakers – VSM 300
 MANAGED PRESSURE.....
 DRILLING (MPD).....MPD-Ready, DNV Approved for Stena Drilling owned MPD System

WELL CONTROL EQUIPMENT

BOP STACKS.....2 x 6 Ram, 2 Annular, Cameron 18-3/4" 15,000psi TL BOP Stacks
Features
 API S53 Class 8-A2-R6, Wet BOP weight of 660kips (< 320mT)
 BOP Footprint 160" x 200",
 Upper Annular (LMRP) Cameron 18-3/4" 10,000psi DL
 Lower Annular (Lower Stack) Cameron 18-3/4" 10,000psi DL
 Vetco SHD H4 Wellhead Connector 27" (30" adapter kit available)
 BOP CONTROL SYSTEM.....Cameron MKIII Multiplex Primary & Secondary BOP Control Systems.
 Secondary BOP control system used for offline testing of setback BOP stack (minimising end of well maintenance time).
Features;
 Acoustic and API 17H ROV Intervention Secondary Control Systems
 Emergency Disconnect, Autoshear & Deadman (AMF) Emergency Control Systems
 RISER.....Cameron Load King, 3,500kips, 80ft, 21" OD, Flanged Riser & 4.5" ID Auxiliary Lines (Choke, Kill, Hydraulics & Booster)
 Telescoping Joint with 63ft Stroke and Dual Seal Assembly
 Subsea Services Remotely Operated Pull-in System (ROPS) (providing efficient hands free connection and disconnection of colfexip hoses).
 RISER TENSIONER.....6 x 600kip, NOV N-Line Direct Acting Tensioners
Features; 48.5ft stroke, Riser Anti-Recoil System
 CHOKE MANIFOLD.....Cameron 3-1/16" 15,000psi Choke Manifold
Features; 3-1/16" 15,000psi Inlet / 4-1/16" 10,000psi Outlet
 2 x 15,000psi Hydraulic Chokes, 2 x 15,000psi Manual Chokes
 HDI Choke Control System
 DIVERTER.....GE KFDS-CSO 500psi WP Diverter
Features; Designed for 60.5" Rotary Table, Diverter Housing is 59" ID
 21-1/4" Packer ID, Pressure Rating of 500psi in Complete Shut Off (CSO)
 TREE STORAGE & HANDLING ...1 x NOV X-Mas Tree Gantry Crane, 264kips (120mT) Capacity
 1 x NOV X-Mas Tree Trolley, 551kips (250mT) Capacity
 4 x NOV X-Mas Tree Skids, 264kips (120mT) Capacity
 MOONPOOL.....84ft x 41ft (25.60m x 12.48m)

POWER MANAGEMENT & MACHINERY

MAIN POWER.....6 x Wartsila 16V32C diesel engines rated at 7.29 MW driving
 6 x ABB AMG 1120MR10 LSE alternators rated at 7 MW
 EMERGENCY POWER.....6 x Main power generators each capable of operating as designated emergency generator rated at 7 MW with automatic change-over function from main switchboards to supply ABB Unigear 11 kV emergency switchboard.
 POWER DISTRIBUTION.....3 x ABB Unigear 11 kV switchboards with ABB REM 543 protection relays supplying 690 V, 440 V and 220 V distribution networks and with ABB ACS800 air-cooled variable speed drilling drives.

STORAGE CAPACITIES

FUEL OIL.....10805.3 m ³ / 67963 bbl	LIQUID MUD.....Active: 1068 m ³ / 6718 bbl Reserve: 1004.8 m ³ / 6320 bbl Total: 2072.8 m ³ / 13038 bbl
BASE OIL.....490.3 m ³ / 3084 bbl	BULK CEMENT.....420 m ³ / 2642 bbl
BRINE.....490.3 m ³ / 3084 bbl	BARITE.....315 m ³ / 1981 bbl
DRILL WATER.....4464.2 m ³ / 28079 bbl	BENTONITE.....105 m ³ / 660 bbl
POTABLE WATER.....2052.5 m ³ / 12910 bbl	SACK STORAGE.....250 tonnes / 7,500 sacks

STATION KEEPING – PROPULSION SYSTEMS

THRUSTERS.....6 x Rolls Royce UUC-455, variable speed, fixed pitch, 360° azimuthing thrusters driven by 6 x ABB ACS6000 5.5MW water-cooled variable speed drives.
 DP SYSTEM.....Kongsberg K-Pos DP-32 dual redundant control system and K-Pos DP-12 backup control system with 2 x HiPAP, 1 x HAIN, 3 x DGPS position reference systems.
 MOORING SYSTEMS.....2 x 12.675 Mt Anchors

CRANES

CRANES.....3 x NOV Knuckle Boom Cranes, model OC3932KCE
 1 fall: SWL 17mT @ 45m radius 5 fall: SWL 85mT @ 17m radius
 All units personnel handling – **upgradeable to 100mT internal lift**
 BOP HANDLING.....BOP overhead gantry crane with 2 x 175mT main winches and 1 x 20mT auxiliary winches.
 1 x BOP skid rated to 370mT 2 x LMRP skids rated to 350mT each.
 Dual BOP/LMRP sea fastening.
 RISER HANDLING.....Riser overhead gantry crane including riser handling yoke.
 Crane rated to 2 x 20mT, yoke rated to 2 x 17.5mT
 TUBULAR HANDLING.....NOV Pipehandling Knuckle Boom Crane, model C2201 PCE
 Gripper yoke size & Type: 2-7/8" to 20", 3.5mT SWL
 Without gripper: SWL 14mT @ 17m radius
 SWL 6mT @ 29m radius

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These specifications are intended for general reference only. Equipment and Specifications are subject to change based on Contractual Status and Customer Requirements. Stena Drilling Limited operates and maintains the equipment in compliance with company policies and procedures.

