

ATWOOD ULTRA DEEPWATER DP SEMI



CHARACTERISTICS

Type Of Vessel	Ultra Deep Water DP Semi
Rig Design	F&G ExD Millennium
Water Depth	10,000 feet
Drilling Depth	40,000
Year of Construction	Under Construction - June 2012 Delivery
Variable Deck Load Operation	8,000 MT
Drilling Draft	65.6 ft./20 m
Operating Displacement	46,500 MT

PRINCIPAL DIMENSIONS

Length	324 ft./98.8 m
Beam	258 ft./78.7 m
Pontoon	
Beam	66 ft./20.1 m
Depth	28 ft./8.5 m
Baseline to Main Deck	118 ft./36 m
Baseline to Pipe Rack	118 ft./36 m
Baseline to Drill Floor	TBD

CAPACITIES

Liquid Mud Active & Reserve	20,756 bbls
Bulk Material	6,290 bblsv
Sack Storage	6,100 sacks
Drill Water	14,467 bbls
Fuel	20,127 bbls
Potable Water	10,064 bbls
Accommodations	200 persons

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STATION KEEPING SYSTEM

Kongsberg Simrad, DPS-2
Eight (8) ABB AC Drives/Motors
Eight (8) Rolls Royce Thrusters c/w drive motors, steering motors control panel and Hydraulic unit, 3800 kW, 720 rpm

DRILLING EQUIPMENT

Instrumentation/Control - Drilling

One (1) NOV Drillers Control Cabin w/ three (3) operators stations / chairs w/ safety glass & guards. Drilling control & monitoring system (Drill view) Dr. contr. Interface with Mud Pump control system & Drawworks Integration Control system One (1) NOV C & K Manifold Instrumentation

Drawworks

One (1) NOV 1,000 ton, 6 motor AHC-1000 Active Heave Drawworks System Equipped with GEB – 22 (General Electric) alternating current motors Continuous rating is 858 kW (1150 HP), 600 VAC, 1024 Amps @ 800 rpm

Derrick

One (1) NOV Galvanized Derrick, 49 x 52 Base, 210 ft. working height static hook load 2,000 kips

Rotary Table and Floor Tools

One (1) NOV Rotary table 60½", hydraulic drive (20 rpm) and brake

Traveling Block

One (1) NOV HTB-1000 traveling block rated at 1,000 S.T.

Top Drive and Tubular Handling Equipment

One (1) NOV TDS – 1,000A top drive, 1,000 st capacity with PH-100 pipe handler, block retract and raised back-up system
One (1) NOV Dual Hydra-Racker IV Automated pipe handling/racking system (one of the Hydra-Racker will be used as a Separate Stand Building system for Quads up to 13-5/8")

Two (2) NOV ST-120 Iron Roughneck ST120

One (1) NOV Pipe Catwalk Machine SWL 20 MT

One (1) Casing Stabbing arm (integrated to riser catwalk)

One (1) Casing Stabbing Basket (Access basket)

Two (2) NOV Cherry picker – moonpool access platform

One (1) NOV Riser Catwalk (SWL 2 x 25 MT) with Gorilla Arm

Mouse Holes

Two (2) ea. NOV Powered Mouseholed

Fingerboards

NOV Fingerboard 490 Stand Capacity x 135 ft.: 40,000 ft. 5-7/8" DP + DC/BHA, 10,000 ft. 6-5/8" HWD/P, 10,000 ft. casing up to 13-5/8"

MUD SYSTEM

Mud Pumps : Four (4) NOV 14P-220 HP mud pumps, 2,200 HP, 7,500 psi

Riser Boost Pump : One (1) JWS-400 triplex well service pump, 1,150 hp, 10,000 psi

Shale Shakers : Six (6) NOV / Thule VSM-300 cascading linear motion shale shakers

Mud Cleaners: Two (2) NOV / Thule VSM-300 shale shakers with SE-20 desilter/mud conditioners

Degassers : Three (3) NOV/Brandt DG-12 vacuum degassers, 1,200 gpm each

One (1) NOV Mud Gas Separator (Poorboy degasser)

One (1) MGS vent line, 12"

BULK MUD AND CEMENT SYSTEM

Six (6) Bulk Storage Tanks, Barite/Bentonite/Cement, 110 m3

Four (4) Bulk Storage Tanks, Barite/ Bentonite Cement, 58 m3

Three (3) Bulk Storage Tanks, Barite/Bentonite/Cement – 37 m3

Two (2) Bulk Surge Tanks, 2.8 m3

Two (2) Dust Cyclone, Barite/Bentonite, 2.0 m3

Two (2) Dust Collector, Barite/Bentonite, 2.0 m3

HP Washdown System

One (1) Niagara Power washer model P450A

RISER AND TENSIONING EQUIPMENT

Six (6) NOV In-Line Riser Tensioners, 600 kips each, total 3,600 kips capacity 10,000 ft. Aker Solutions Marine Riser, 75 ft. each, 21" OD including bare joints and pup joints

Two (2) Telescopic Joint Assembly, 21" Telescoping Joint x 60 ft. stroke prepared for Split Tensioning Ring

Three (3) HP N2/Air Compressor for Tensioner/Compensation System

One (1) NOV Control System & Skid

One (1) Air Products Nitrogen Generator

One (1) NOV Trip saver Trolley (in-line tensioner skidding system) SWL 1634 MT

BOP EQUIPMENT

One (1) Hydril BOP & accessories, 18-3/4" x 15,000 psi, 6 Ram x 2 Annular

One (1) Vetco BOP retractable test stump

One (1) Hydril Diverter remote control panels

One (1) Hydril Central reel control panel

One (1) Hydril Diverter, 60-1/2" x 500 psi, KFDJ fixed type, 18" flow line 16"

Discharge & mud return nozzles

BOP CONTROLS

One (1) Hydril BOP Test Pump

Two (2) Hydril BOP Fluid Hoses (Choke/kill/control)

One (1) Hydril Diverter closing unit c/w pumps, accumulator, and operator/test panel

Two (2) Hydril BOP remote control panels

Two (2) Hydril BOP MUX reels

One (1) Hydril BOP operating hot line reel

One (1) Hydril BOP operating POD testing plate

BOP HANDLING

One (1) NOV BOP skid SWL 350 MT

One (1) NOV LMRP skid SWL 200 MT

One (1) NOV BOP Trolley SWL 750 MT

One (1) NOV BOP Overhead Crane 2x275MT

One (1) NOV X-Mas Tree Trolley SWL 200 MT

WASTE TREATMENT

Two (2) ORCA Model 11A-330 Type II sewage treatment plants

One (1) Enviro Pak model 3,000 AMP trash compactor

One (1) Teamtec trash incinerator

DECK CRANES

Two (2) each Seatrax Series S108

HELIDECK

One (1) Wilmax Engineering Helicopter refueling system

ICAO and CAP 437 Compliant for a S61N, S92. or EH-1

COMPRESSORS

Three (3) Hamworthy HP compressors, 75 cfm @ 3625 psi

Four (4) IR Model R150IU-W-125 rig air compressor, 875 cfm @ 125 psi

Two (2) IR Model 15T2XB 15/35 main engine cold start compressors, 37.8 cfm @ 30 bar

One (1) Mecomb Model D340 emergency generator cold start air compressor 29.8 cfm @ 175 psi

AC ELECTRICAL SYSTEM - GENERAL

Two (2) ABB Switchboard 11,000 V for generator control and distribution

Eight (8) Caterpillar C 280-16 Main diesel engine 5060 bkW, 900 rpm

One (1) Caterpillar, 3512 emergency diesel engine 1424 bkW, 1800 rpm