

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 heightm 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" HWDP, 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 pannel
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