

ATWOOD CONDOR



The ATWOOD CONDOR is a Friede & Goldman ExD Millennium design ultra deepwater dynamically positioned semisubmersible drilling unit capable of operating in 3,050 meters (10,000 ft.) of water and drilling depths up to 12,200 m (40,000 ft.). The ATWOOD CONDOR has accommodations capacity for up to 200 persons, four (4) mud pumps 2,200 HP/7,500 psi, 1,000 ton active heave compensated drawworks and a 1250 ton AC top drive. The BOP is rated to 15k psi which includes two (2) annulars and six (6) rams and has upgraded capabilities for sheering and subsea intervention.



CHARACTERISTICS

Type Of Vessel	Ultra-Deep Water DP Semi
Rig Design	F&G ExD Millennium
Water Depth	1,640 ft. (500m) to 10,000 ft. (3048m) *All proposed water depths for the area of operations are subject to engineering approval and the stated range is for guidance purposes only.
Drilling Depth	40,000
Year of Construction	2012
Variable Deck Load Operation	8,000 MT
Drilling Draft	65.6 ft./20 m
Operating Displacement	46,568 MT

PRINCIPAL DIMENSIONS

Length	387 ft./118.1 m
Beam	299 ft./91.2 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	151 ft./46.05 m

CAPACITIES

Liquid Mud Active & Reserve	16,755 bbls
Base oil	4,694 bbls
Brine	5,231 bbls
Bulk Material	35,316 cu. ft
Sack Storage	6,250 sacks
Drill Water	21,906 bbls
Fuel	22,899 bbls
Potable Water	10,614 bbls
Accommodations	200 persons

ATWOOD CONDOR

STATION KEEPING SYSTEM

Kongsberg Simrad, DPS-2

Eight (8) ABB AC Drives/Motors

Eight (8) Rolls Royce Thrusters c/w 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 AHD-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, 15m x 16m (approx. 49.2ft x 52.5ft) Base, 210 ft. working height static hook load 2,000 kips

One (1) Alimak Derrick Elevator

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 TDX-1250 (1,000 ton Rotating Hook Load) top drive, with PH-100 pipe handler, block retract and raised back-up system

One (1) NOV Dual Hydra-Racker IV-ER Automated pipe handling/racking system (one of the Hydra-Rackers will be used as a Separate Stand Building system for Quads up to 13-5/8")

Two (2) NOV ST-120 Iron Roughneck

One (1) NOV Pipe Catwalk Machine SWL 20 MT

One (1) NOV Pipe & Casing Gantry Crane (2x 10 MT SWL)

One (1) NOV Riser Gantry Crane (2x 25 MT SWL)

One (1) Derrick Access Basket

One (1) NOV Riser Catwalk Machine (SWL 40 MT) with Gorilla Arm

One (1) NOV Racking Guide Arm (Derrick Mounted)

Two (2) NOV Hydraulic Catheads CAT-P15-2

Mouse Holes

Two (2) ea. NOV Powered Mouseholed (M1=45ft, M2=60ft)

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 VSM-300 cascading linear motion shale shakers

Mud Cleaners: Two (2) NOV 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

Four (4) Bulk Storage Tanks, Barite/Bentonite/Cement, 138 m³

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

Four (4) Bulk Storage Tanks, Barite/Bentonite/Cement – 54 m³

Two (2) Bulk Surge Tanks, 3.0 m³

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

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

HP Washdown System

One (1) Shim Højtryk central system, 34 ℓ/min @ 80 bar

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 CLIP 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 Air Compressor for Tensioner 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 (incl. 3 Shear Rams), 2 Annulars

One (1) Vetco 18 3/4" 15,000 psi HD-H4 wellhead connector

One (1) Vetco BOP retractable test stump

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

Ten (10) 160 gal 5,000 psi Subsea Accumulators

BOP CONTROLS

Hydril Control System 3,000/5,000 psi in accordance with API Spec 16D

One (1) Hydril BOP Test Pump

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

Two (2) Hydril BOP remote control panels

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Two (2) Hydril BOP MUX reels

One (1) Hydril BOP operating hot line reel

One (1) Hydril Central reel control panel

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 (+ 2 x 20 MT Aux)

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

One (1) NOV Underhull Guidance System

Two (2) NOV 5 MT Moonpool Hyd. Tuggers

Two (2) NOV 10 MT Moonpool Hyd. Tuggers

Two (2) NOV MR Moonpool Hyd. Winches

Two (2) NOV Moonpool access baskets

WASTE TREATMENT

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

One (1) Enviro Pak model 3000 AMR 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 starting air compressors, 37.8 cfm @ 30 bar

One (1) Mecomb Model D325 emergency generator cold start air compressor 18.9 acfm @ 150 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, 3512B emergency diesel engine 1424 bkW, 1800 rpm