

ATWOOD HUNTER



CHARACTERISTICS

Type of Vessel	Semisubmersible
Rig Design	Upgraded Korkut New Era
Water Depth	5,000 ft.
Drilling Depth	28,000 ft.
Year of Construction	1981
Years of Upgrade	1997 and 2001
Variable Load	3,559 ST
Drilling Draft	55 ft.
Operating Displacement	26,670.4 ST

PRINCIPAL DIMENSIONS

Length	290 ft.
Beam	246.77 ft.
Hulls (2)	
Beam	52 ft.
Depth	25 ft.
Baseline to Main Deck	95 ft.
Baseline to Pipe Rack	108 ft.
Baseline to Drill Floor	128.4 ft.

CAPACITIES

Liquid Mud	
Active & Reserve	3,247 bbls.
Bulk Material	10,000 cu. ft.
Sack Storage	5,120 sacks
Drill Water	21,328 bbls.
Fuel	7,548 bbls.
Potable Water	1,966 bbls.
Accommodations	120 persons (plus 6 bed sick bay)

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MOORING SYSTEM

Anchor Winches – Four (4) Skagit TMWW-325/44 combination traction winch/windlass units

Chains – Eight (8) 2 3/4" ORQ + 20% x 4, 500' each, 1,060,000 lbs. min. breaking strength

Wire – Eight (8) 3 1/4" x 8,500' 6 x 49 IWRC galv.

Anchors – Eight (8) 10 Metric Ton Stevpris MK5

Chain Chasers – Eight (8) Bruce Ring cast steel

DRILLING EQUIPMENT

Drawworks – Oilwell E-3000 driven by three (3) GE752 DC 800HP motors with Baylor 7838 electric brake and National ME3000 disc brake

Derrick – Pyramid 185' with 1,200,000 lb. static hook load capacity

Motion Compensator – Western Gear Model 600-20/25C with 600,000 lb. capacity and 25 ft. stroke. Static load lockout capacity 1,200,000 lbs.

Rotary Table – Oilwell 49 1/2" driven by GE752 motor

Crown Block – Pyramid 600 ton

Traveling Block – Western Gear 650 ton on two (2) guiderail system

Swivel – Oilwell PC-650

Top Drive – Varco TDS-4S with PH85 pipe handler

Drill Floor Manipulator Arm – MH Pyramid MH3009-01 for handling riser and tubulars

Iron Roughneck – MH Pyramid Model MH1898 for 3 1/2", 9 1/2" tool joints

Rotating Mousehole – International Oiltools Phantom Mouse Model 1994 and Twister Torque Tool Model TT98 to allow make up and break out off the critical path

Drill Pipe 15,000 ft. S-135, 19.50 lb with NC50 connections; thirty (30) 5" heavyweight drill pipe with NC50 connections

Drill Collars – Thirty (30) 6 1/2" OD x 2 13/16" ID x 30' long spiral collars with NC50 connections; Eight (8) 8" OD x 2 13/16" ID x 30' long spiral collars with 6 5/8" API regular connections; Twenty-five (25) 7 3/4" OD x 2 13/16" ID x 30' long spiral collars with 6 5/8" API regular connections; Nine (9) 9" OD x 3" ID x 30' long spiral collars with 7 5/8" API regular connections

BOP EQUIPMENT

Diverter System - Regan KFDS-500 with 12" diverter lines

Flex Joint – Oil States 10 degree single flex 18 3/4" with Vetco HMF connections

Riser Connector – Vetco H-4, style "E" 18 3/4" 10,000 PSI WP

Annular BOP's - Two (2) Shaffer 18 3/4" 5,000 PSI WP

Ram Preventers – Two (2) Cameron double type "U" 18 3/4" 10,000 PSI WP

Wellhead Connector – Vetco H-4 Style "E" 18 3/4" 10,000 PSI WP

Choke Manifold – Control Flow 3 1/16" 10,000 PSI WP with two (2) hydraulic and two (2) manual adjustable chokes

RISER EQUIPMENT

Marine Riser – 5,100' Vetco 21" OD x 75' long x 5/8" wall with Vetco HMF flanged connectors with 2,575" ID x 4,375" OD 15K PSI WP integral choke and kill lines, one (1) hydraulic supply line and one (1) mud circulating line; 22 jts. with 2,000' floatation; 23 jts. with 3,500' floatation; 20 jts. with 5,000' floatation and 3 slick jts.

Riser Pup Joints – One (1) each – 25 ft., 31.5 ft., 37.5 ft., and 50 ft.

Slip Joints - Two (2) 55 ft. stroke with dual packers, split inserts with Vetco HMF connections

Pod Line Tensioning Units – Two (2) Western Gear single line tensioners with 40 ft. line travel and maximum line load capacity of 16,000 lbs. each

Guideline Tensioning Units - Four (4) Western Gear single line tensioners with 40 ft. line travel and maximum line load capacity of 16,000 lbs. each.

Hole Position Indicator – Kongsberg Simrad HPR410D Acoustic Positioning System

Underwater Television – Kongsberg/Simrad Fiber Optic Subsea TV Color System with 5,700 ft. fiber optic cable

MUD SYSTEM

Mud Pumps – Three (3) Oilwell A-1700PT beltdrive triplex pumps, each driven by two (2) GE-752 DC motors

Charging Pumps – Three (3) 6" x 5" centrifugal with 100HP electric motors

Mud Mixing Pumps – Three (3) 6" x 5" centrifugal with 100HP electric motors

Shaleshaker – Four (4) Brandt Dual Tandem high speed units cascading onto four (4) Brandt flow line cleaners

Desander – Fluid Systems model 132X-NP with 6 each 8" cones, capacity 900 GPM

Desilter – Fluid Systems model CXP200-6 with 16 each 4" cones, capacity 1,280 GPM

Degasser – One (1) Welco 5200, capacity 811 GPM and One (1) Brandt Model DG10, Capacity 1,000 GPM

Mud Gas Separator – 48" diameter x 17' tall with 10" vent line to derrick top, two (2) 5" inlet lines from choke manifold and liquid seal system

Gumbo Box – One (1) Atwood design

POWER SYSTEM

AC Generator – Two (2) EMD-16-645-E9B diesel engines, 2,925 HP each driving GE AB20-6 (2,625KVA) 600 VAC generator; one (1) EMD-16-645-E8 diesel engine 2,200 HP driving GE AB20-6 (2,625KVA) 600 VAC generator.

Emergency Generator – One (1) Caterpillar 3412 diesel engine driving 550 KW 600 VAC generator.

Power Distribution – Ten (10) Bay IPS SCR system, 600 VAC/750 VDC; two (2) 3,000 amp; four (4) 2,000 amp; four (4) 1,200 amp

AUXILIARY EQUIPMENT

Cranes – One (1) Seatrax Series 80 Model 8032 with 150' boom and dynamic rating of 105,061 lbs. at 70 ft.; one (1) Sea Trax Series 60 Model 6032 with 140 ft. boom. Main block dynamic rating, 60,000 lbs. (30 tons) at 90 ft., auxiliary line dynamic rating 30,000 lbs (15 tons) at 140 ft. two (2) 60 ton hydraulic bridge cranes for handling BOP stack; Houston System Gearmatic Model 44 BOP transporter system with cart tracks and four (4) handling carts for port/starboard skidding of BOP (LMRP) Subsea Trees; and one (1) Cranemann 30 ton riser handling gantry crane.

Safety – One (1) lot portable fire extinguishers per IMO MODU; CO2 fire suppression system; 50 gallon foam system on heliport; life jackets; six (6) 25 person life rafts; three (3) 44 person Watercraft lifeboats per IMO MODU regulations; one (1) Schat Harding MOB 17 fast rescue craft

Drilling Instrumentation – Petron drillers cabin with Petron Networked Distributed Drilling Data (3D) Instrumentation System with (controls, gauges and lights for the control and monitoring of approximately 90 items).

Ballast Control System – Electronic control board with readouts on all tanks

CCTV System – Kongsberg Simrad fiber optic color system with 18 cameras and 9 monitors for monitoring various areas on the rig

Heliport – 83 ft. x 83 ft. rated for 19,000 lbs designed to accommodate Sikorsky S-61N helicopter

Communication System – GMDSS Radio Station

RC-1500-IT with MF/HF Radiotelephone and Inmarsat C MES

Distillation Units – Alfa-Laval Model DPU-36-C125 rated at 14,500 GPD

Sewage Treatment System – Omnipure 12MS