

ATWOOD FALCON



The ATWOOD FALCON is a column stabilized semi-submersible drilling unit currently rated to drill to 25,000 feet in water depths up to 5,000 feet. The ATWOOD FALCON is equipped with three (3) mud pumps, a Varco TDS-4 top drive system and a Cameron 18 3/4" x 10,000 psi BOP stack complete with two (2) dual rams and two (2) annular preventers. The ATWOOD FALCON is very well equipped and outfitted for drilling, completion, and intervention duties and has excellent subsea tree and template handling capabilities.



CHARACTERISTICS

Type Of Vessel	Semisubmersible
Rig Design	Upgraded Korkut New Era
Water Depth	5,000 ft.
Drilling Depth	25,000 ft.
Year of Construction	1983
Year of Upgrade	1998/2006/2012
Variable Load	4,400 ST
Drilling Draft	55 ft.
Operating Displacement	28,905

PRINCIPAL DIMENSIONS

Length	325 ft.
Beam	226 ft.
Hulls	2
Beam	48 ft.
Depth	25 ft.
Baseline to Main Deck	95 ft.
Baseline to Pipe Rack	108 ft.
Baseline to Drill Floor	128.25 ft.

CAPACITIES

Liquid Mud	5,346 bbls.
Brine	1,668 bbls.
Base Oil	1,792 bbls.
Fuel	6,108 bbls.
Bulk Material	10,000 cu. ft.
Sack Storage	5,120 sacks
Drill Water	23,090 bbls.
Potable Water	1,621 bbls.
Accommodations	130 persons

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MOORING SYSTEM

Anchor Winches

Four (4) Amclyde Model CTW-350/48 double traction winch/windlass; combination chain/wire rope

Chains

Eight (8) 3" x 4,500' grade R3S

Wire

Eight (8) 3½" x 8,000' EEEIPS grade, galvanized

Anchors

Eight (8) 10 Metric Ton Stevpris Mk V

Chain Chasers

Eight (8) Bruce cast steel ring chasers

Bolster Camera System with lights

DRILLING EQUIPMENT

Drawworks

Oilwell E-3000 driven by two (2) MCM ESE-752N DC motors with Baylor 7838 electric brake

Derrick

188' Dynamic with 1,000,000 lb. hook load capacity

Motion Compensator

Western Gear Model (650,000 lb. 25 ft. stroke)

Rotary Table

NOV 60.5" driven by Hagglands CA70 Hydraulic Motor Design torque 30,280 ft/lb. Design loading 1,250 short tons

Crown Block

Branham 600 short ton

Traveling Block

Western Gear 650 short ton

Pipe Spinner

Varco model SSW-40

Top Drive

Varco TDS-4H

Iron Roughneck

Varco ST-100

Power Slips

Varco PS21 Hydraulic

Hydraulic Calhead

Varco HC-26

Power Tongs

One (1) Weatherford Lamb Model 20,000 and one (1) Model 16,000 hydraulic power tongs with jaws for normal operations

Drill Pipe

15,000 ft. 5.5" Grade S-135 21.9 lb w/ 5.5" FH Connections, 26 jts. 5.5" Hevi-water w/5.5" FH connections.

Drill Collars

Twenty-eight (28) 6½" OD x 2 13/16" ID x 30' long spiral collars with 4½" IF connections, twenty-six (26) 8¼" OD x 2 13/16" ID x 30' long spiral collars with 6 5/8" API regular connections; six (6) 9" x 30' long collars

BOP EQUIPMENT

Divertor System

Vetco KFDH-500 with 14" diverter lines

Flex Joint

Oil States 18¾" with Vetco MR-6D connections

Riser Connector

Vetco H-4, 18¾" 10,000 PSI WP

Annular BOP's

Two (2) Shaffer 18¾" 5,000 PSI WP

Ram Preventers

Two (2) Cameron double type "U" 18¾" 10,000 PSI WP

RISER EQUIPMENT

Wellhead Connector

Vetco H-4, 18¾" 10,000 PSI WP

BOP Accumulator Unit

Koomey Type 80 model SSA-320-11S with Bias System 455 gallon capacity, 3,000 psi

Marine Riser

5,000' 21" OD x 5/8" wall x 65 ft. long with Vetco type MR-6D connections and 4" OD integral 10,000 psi choke and kill lines; one (1) 3.375" OD 3,000 psi booster line and one (1) 2.75" 3,000 psi hydraulic line

Riser Floatation

1,690 ft. rates for 2,000 ft. water depth and 1,495 ft. rated for 3,500 ft. water depth and 1,040' rates for 5,000' water depth

Riser Pup Joints

One (1), each of ten (10), twenty (20), thirty (30) and forty (40) ft. long slick joints

Slip Joints

Two (2) Vetco 55 ft. stroke with dual packers, split inserts and MR – 6D dog type connections

Riser Tensioning Units

Four (4) Control-Flo 160 dual kips & two (2) 80 kips dual line tensioning units with 50' line travel; total riser tensioning capacity on 12 lines 1,600,000 lbs.

Pod Line Tensioning Units

Two (2) single line with 40 ft. line travel and maximum line load capacity of 16,000 lbs. each

Guideline Tensioning Units

Four (4) single line with 40 ft. line travel and maximum line load capacity of 16,000 lbs. each

Kongsberg

Hydro-Acoustic Positioning System

MUD SYSTEM

Mud Pumps

Three (3) Oilwell A-1700PT triplex each driven by two (2) MCM ESE-752N DC motors; one (1) Lewco W446SF Triplex driven by GE-752 motor

Charging pumps

Three (3) 6" x 8" centrifugal with 100HP electric motors

Mud Mixing Pumps

Three (3) 6" x 8" centrifugal with 100HP electric motors; one (1) 6" x 5" centrifugal pump with 50HP electric motor (Lewco Pump)

Shaleshaker

Four (4) Axiom model AX-1

Degasser

Brandt Model DG10

Auxiliary

Mud/Brine Storage

POWER SYSTEM

AC Generator

Three (3) EMD 16-645-E9B diesel engines (2,925 HP) driving two (2) AB20-6 generators 2625 KVA @ 2100 KW and one (1) AB21-6 generator 2625 KVA @ 2100 KW

Emergency Generator

One (1) Caterpillar 3412 diesel engine driving 550kW AC generator

Power Distribution

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

AUXILIARY EQUIPMENT

Cranes

One (1) Seatrax Model 8032 rated 45.5 metric ton with 150' boom; one (1) Seatrax model 6032 rated 27.58 metric ton with 140' boom; one (1) 2 x 15 ST CND type DGPC with 85' span for handling riser; two (2) 80 ton GH50- Braden BOP bridge cranes

Safety

One (1) lot portable fire extinguisher & fixed CO2 systems as per IMO MODU Code; 200 litre AFFF tank for Marine Aluminium Helideck pop up foam system, lifejackets, eight (8) 25 person life rafts, three (3) Whittaker 44 person lifeboats, two (2) Norsafe 68 person lifeboats

Vessel Positioning Reference System

Kongsberg Simrad APC 10 System

Drilling Recorder

Rigsense System

Pit Level Indicator

Totco Level Sensor, Ultrasonic, 16 ft. sensing depth

Ballast Control System

Electronic control board with readouts on all tanks

Heliport

designed to accommodate Sikorsky S-61N and S-92

Communication System

Furuno Global Maritime Distress and Safety System

Distillation Units

Alfa-Laval Desalt Freshwater Generator, Type dolphin 60 rated @ 60~3/day or 13,735 GPD

Sewage Treatment System

Omnipure 12MC and 8MC