

VANTAGE DRILLING COMPANY TUNGSTEN EXPLORER

GENERAL SPECIFICATIONS

Shipyards Delivery	May-13
Classification Agency	ABS ✕ 1A, (E), "Drillship", AMS, ACCU, CDS, DPS3, SH-DLA, UWILD, CRC
Design	DSME Ultra Deepwater Drillship
Dimensions	781' x 137' x 62'
Moonpool	82' x 41'
Water Depth	Design: 10,000 ft Equipped: 10,000 ft
Max. Drilling Depth	40,000 ft
Variable Deck Load	Operating / Survival and Transit: 20,000 MT
Operating Draft	39 ft
Transit Draft	27 ft
Max. Wave Height	Normal Drilling: 15 ft, Max Operating: 24 ft
Helideck Capacity	Sikorsky S-92, S-61N or equivalent c/w refueling system



DRILLING EQUIPMENT

Derrick	Aker Kvaerner Maritime Hydraulics (AKMH) Pyramid Dynamic Derrick, 46 ft x 52 ft base x 170 ft clear working height, API-4F 3 rd Edition E2/U2
Capacity	2.5 Million lbs Static Hook Load
Racking Capacity	6 $\frac{5}{8}$ " Drill pipe–368 stands x 135 ft (49680ft) 9 $\frac{1}{2}$ " Drill collars– 8 stands x 135 ft (992 ft) 13 $\frac{5}{8}$ " casing - 35 stands x 135 ft (4725 ft) Quad range II drill pipe, triple range III casing
Drawworks	AKMH Wirth GH 9000-EG-01-AC electric motor driven 9000 hp
Rotary Table	AKMH Wirth RTSS 75 $\frac{1}{2}$ ", hydraulically driven, 20 rpm, 1250 sht capacity
Iron Roughneck	1 x AKMH 1899 MKII Iron Roughneck for Well Center Operations 1 x AKMH 'Torque Master' for tubular range 3" to 20" for offline operations.
Top Drive	AKMH model MDDM-1250-AC-2M, 1250 sht capacity, AC motor driven, 101,200 ft lbs max continuous torque, 151,300 ft lbs intermittent, 0 -282 max rpm, 2 x 1270 hp AC motors

CAPACITIES

Diesel Fuel Oil	56,608 bbls	Drill-water	18,869 bbls
Fresh Water	8,176 bbls	Liquid Mud	18,869 bbls
Base Oil	5032 bbls	Bulk Storage	28,252 ft ³
Brine	5032 bbls	Sack Storage	10,000 sacks

OTHER PARTICULARS

Accommodations	200 Persons
Mud Pumps	4 x AKMH Wirth model TPK-7 $\frac{1}{2}$ x 14 / 2200 CL, Gear driven , 2,200 hp 7,500 psi,
Mud Manifold	API 6A PSL dual 5" ND 7,500 psi WP
Cement Manifold	API 6A PSL single 3" ND 15,000 psi WP
Mud Cleaning	6 DP 626 double deck shakers, 2 DP 626 3-20 double deck mud cleaners
Motion Compensator	AKMH Crown Mounted Compensator, rated at 1270mt/1400 st (static) AND 680 mt/750 st (Compensation) with a 25 ft stroke

AKMH Active Heave Compensator, 25 ft stroke

PROPULSION & POWER

DP Class	DP-3
DP Control System	Converteam, triple redundant
Main Engines	6 x STX MAN 14V32/40 diesel engines c/w Siemens AC 8438 kVA alternators
Emergency Power Thrusters	1 x STX MAN B&W diesel engine c/w Siemens 2625 kVA alternator. 6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt thrust nominal)

WELL CONTROL AND RISER SYSTEMS

BOP Stack	1 x Cameron 18¾" 15,000 psi, 6 x ram BOP (3 TL doubles), + 2 x Cameron 18¾", 10,000 psi DL annular BOP's
Control System	Cameron Multiplex (MUX) Control System
Diverter	1 x 75½" 500 psi with 16" diverter lines, 16" flow line, 6" trip tank line, 6" fill up line and 16" Mud Gas Separator line.
C & K Manifold	API 16C 3¼" 15k HP side / 4¼" 10k LP side
Riser	21", Cameron Load King / 15k psi Choke & Kill Line, 5k psi booster line, 2 x hydraulic lines.
Riser Tensioning	8 x AKMH wire line tensioner, 3,600,000 lbs total capacity with maximum stroke of 50ft.
Riser Length	10,000 ft + buoyancy (75 ft joints)
BOP / Riser HANG Off	1000 mt SWL hang off trolley (Tripsaver)

HANDLING SYSTEMS

Cranes	3 x Liebherr model BOS 4200-85, 85 mt max load at 9 m radius & 37.5 mt at 46 m radius (static), 80 mt max load at 9 m & 30.6 mt at 46 m (dynamic) Auxiliary hook 15 mt max load at 51 m radius (dynamic), 1 x model BOS 4200-50, 50 mt max load at 9 m radius & 39.2 mt at 46 m radius (static), 50 mt max load at 9 m & 32.3 mt at 46 m (dynamic), Auxiliary hook 15 mt max load at 51 m radius (dynamic) 1 x AKMH 27.5 ST capacity riser gantry cranes (can accommodate 75 ft long riser joints) 1 x AKMH 14 ST capacity 17 m reach PDPH knuckle boom crane
Tubular Handling	1 X AKMH Dual bridge crane system, c/w dual lower guiding arms, each 15 mt capacity 1 x AKMH Eagle stand-building arm 6.4 MT capacity 1 x AKMH drill floor manipulator arm 1 x AKMH 15 mt capacity pipe handling catwalk suitable for handling 45 ft tubulars 1 x AKMH 40 mt capacity riser catwalk suitable for handling 75 ft riser joints
Xmas Tree Handling	150 mt capacity hydraulically operated Xmas tree trolley
Xmas Tree Hoists	2 x 75 mt capacity hydraulically operated hoists
BOP Handling	460 mt capacity hydraulically operated BOP trolley
LMRP Hoists	2 x 75 mt capacity hydraulically operated overhead gantry cranes are installed for handling of BOP components once installed in the storage area

LIFESAVING SYSTEMS

Lifeboats	6 x 70 man capacity, davit launched lifeboats (210% of PoB) + 1 x FRC for 6 persons
Life rafts	16 x 25 man inflatable liferafts (200% of PoB)
Lifejackets	630 lifejackets (200 in accommodation)
Lifebuoys	14 installed in accordance with IMO MODU & SOLAS