

VANTAGE DRILLING COMPANY DRAGONQUEST

GENERAL SPECIFICATIONS

Shipyards Delivery	Jul-11
Classification Agency	ABS ⓧ A1 (E), Drilling Unit AMS, ACCU, CDS, DPS3, SH-DLA
Design	DSME Ultra Deepwater Drillship
Dimensions	781' x 137' x 62'
Moonpool	82' x 41'
Water Depth	Design: 12,000 ft Equipped: 10,000 ft
Max. Drilling Depth	40,000 ft
Variable Deck Load	Operating: 20,000 mt Survival: 20,000 mt 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



DRILLING EQUIPMENT

Derrick	Aker Kvaerner Maritime Hydraulics (AKMH) Pyramid Dynamic Derrick, 46 ft x 52 ft base x 210 ft clear working height
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) Or 9 $\frac{5}{8}$ " casing - 54 stands x 135 ft (7290 ft) Or 7" liner – 91 stands x 135 ft (12285 ft) Quad range II drill pipe, triple range III casing
Drawworks	AKMH Wirth GH 6000-EG-01-AC electric motor driven 6000 hp, 1190 mt capacity with 14 lines
Rotary Table	AKMH Wirth RTSS 60 $\frac{1}{2}$ ", hydraulically driven, 1250 sht capacity
Iron Roughneck	2 x AKMH 'Torque Master' for tubular range 2 $\frac{3}{8}$ " to 20"
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	21,385 bbls	Heavy Fuel Oil	19,498 bbls
Drillwater	15,096 bbls	Fresh Water	8,176 bbls
Liquid Mud	20,127 bbls	Base Oil	5032 bbls
Bulk Storage	31,783 ft ³	Brine	5032 bbls
Sack Storage	10,000 Sacks		

OTHER PARTICULARS

Accommodations	180 Persons
Mud Pumps	4 x AKMH Wirth model TPK-7 $\frac{1}{2}$ x 14 / 2200 CL, 2,200 hp 7,500 psi, c/w 2 x GE AC motors
BOP Stack	1 x Cameron 18 $\frac{3}{4}$ " 15,000 psi 6 x ram BOP, (2 TL doubles + 2x1 TL Single), + 2 x Cameron 18 $\frac{3}{4}$ " 10,000 psi DL annular BOP's

Diverter	1 x 60½" Hydril 500 psi with 16" diverter lines
C & K Manifold	API 16C 3 ¹ / ₁₆ " 15k HP side / 4 ¹ / ₁₆ " 10k LP side
Mud Manifold	API 6A PSL dual 5" NB 7,500 psi wp
Cement Manifold	API 6A PSL single 3" NB 15,000 psi wp
Motion Compensator	AKMH Crown Mounted Compensator, rated at 680 mt with a 25 ft stroke AKMH Active Heave Compensator, rated at 25 mt with a 25 ft stroke
Control System	Cameron Multiplex (MUX) Control System

PROPULSION & POWER

DP Class	DP-3
DP Control System	Convert Team, triple redundant
Main Engines	6 x STX MAN 14V32/40 diesel engines c/w Siemens AC 8438 kVA alternators
Emergency Power	1 x STX MAN B&W diesel engine c/w Siemens 2800 kVA alternator (in addition, as per DP-3 class requirements, one main generator can be assigned as emergency generator)
Thrusters	6 x 5.5 MW Rolls Royce Ulstein Aquamaster UUC 455 Azimuth (100 mt thrust nominal)

RISER SYSTEMS

Riser	21" Aker Kvaerner CLIP riser w/ 15k psi Choke and Kill lines, 5k psi booster line, 2x hydraulic lines
Riser Tensioning	8 x AKMH wire line tensioners, 4,000,000 lbs total capacity with 50 ft line travel (12.5 ft stroke)
Riser Length	10,000 ft + buoyancy (75 ft joints)

HANDLING SYSTEMS

Cranes	4 x Platform pedestal cranes, Liebherr, 3 x model BOS 4200-85 Litronic, 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 Litronic, 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 20 mt capacity riser gantry cranes (can accommodate 75 ft long riser joints) 1 x AKMH 9 mt capacity 25 m reach 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 dual standbuilding arm, each 6.4 mt capacity, for 15 ft to 45 ft tubulars 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 83 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 60 man capacity Norsafe JYN 8.5 m davit launched lifeboats (200% of PoB)
Life rafts	8 x 20 man + 8 x 25 man inflatable liferafts (200% of PoB)
Lifejackets	250 lifejackets (180 in accommodation)
Lifebuoys	14 installed in accordance with IMO MODU & SOLAS