

GREATDRILL CHETNA is a KFELS B Class cantilever Jackup and capable of operating in water depths up to 350 ft. The rig has 13-5/8" 15,000 psi BOP capable for HPHT Operations with maximum drilling depths up to 30,000 ft.

GREATDRILL CHETNA

350 FT CANTILEVER JACK UP RIG



GENERAL

Rig	GREATDRILL CHETNA
Flag	Singapore
Owner	Mercator Offshore Ltd
Manager	Greatship (India) Limited
Year of Built	March 2009
Builder	Keppel FELS Ltd, Singapore
Design	Keppel FELS Mod V "B"
Classification	ABS, +A1 Self Elevating Drilling Unit
Rules	ABS, MPA Singapore
Hull no.	B 294
Official Number	IMO No. 8769248

MACHINERY

Main Power	5 X Caterpillar 3516 B HD diesel engines, 1855 BHP each, 5 X Kato 600 V 1505 KWA Generators.
Power Distribution	4 X 2300 amps Keppel Norway SCRs
Emergency Power	1 X Caterpillar engine 3508B, 912 HP, Leroy Somer 480 V Generator
Jacking System	OTD 1000FV electric Rack and Pinion system, Self Positioning Fixation system.
Cranage	3 X Favelle Favco Electro-Hydraulic cranes; each Load capacity 50 ston @ 40ft radius, Boom length of 120 ft.

DRILLING EQUIPMENT

Derrick	Woolslayer 162 ft X 35 ft X 32 ft with 1500 kips hook load capacity (14 lines).
Draw-works	VARCO ADS-10T, 3000 hp input; Electric Disc brakes type.
Rotary	NOV RST 49 1/2" opening with 1000 ston capacity AC driven (Power-1150 HP)
Top Drive	Varco TDS-8SA 750 ston capacity VFD Driven PH-100 Pipe handler
Travelling Block	NOV - Dresco 750 ston capacity
Drill Pipe	Sizes : 5 1/2", 5", 3 1/2" & 2 7/8"
Drill Collars	Sizes : 8", 6 1/2", 4 3/4" & 3 1/2"
Pipe Handling	Varco ST 80
Cementing Unit	Schlumberger - Third party
Mud pumps	3 X NOV 14-P-220, 2200 hp each, 7500 psi working pressure
Shale Shakers	4 X Brandt LCM-3D/CM-2, each 1400 GPM

Mud Cleaner	Brandt 1 X LCM-3D, 24 x 3", 3 X 12" Cones.
Pile Hammer Rig system	PILECO - D 46 - 32 Amphion system, VFD Drive

MOORINGS

Winches	4 X Brohl electric winches, 30 T each.
Wire/Chain	2500 ft X 1 1/2" wire rope
Anchors	4 X Flipper Delta 5 T each

OTHER

Helideck	73 ft diameter suitable for S61 helicopter
Accommodation	104 beds

MAIN DIMENSIONS

Length	234 ft	71 m
Breadth	208 ft	63 m
Depth	25 ft	7.5 m
Legs	3 X 491 ft truss type.	
Usable leg length below hull	430 ft	130 m
Distance AFT legs Centre	142 ft	44 m
Distance FWD and AFT Legs Centre	129 ft	40 m
Spud Tanks	53 ft diameter X 19 ft height	
Cantilever reach	70 ft aft; 15 ft - 15 ft port/stbd	
Ocean Transit Draft	16 ft	4.8 m
Field Transit Draft	16 ft	4.8 m

OPERATING PARAMETERS

Max. Water Depth	350 ft	106 m
Min. Water Depth	30 ft	9 m
Max. Drilling Depth	30,000 ft	9091 m

CAPACITIES

VDL Drilling	5100 kips	2310 MT
VDL Ocean Survival	3600 kips	1631 MT
VDL Field Transit	3600 kips	1631 MT
VDL Jacking	3600 kips	1631 MT
Liquid Mud	3524 bbl	560 m ³
Bulk Mud	6000 ft ³	170 m ³
Bulk Cement	5100 ft ³	144 m ³
Sack Storage	5000 sacks	
Drill Water	22595 bbl	3592 m ³
Potable Water	2052 bbl	326 m ³
Fuel Oil	2701 bbl	429 m ³
Independent Brine Storage	994 bbl	158 m ³
Base Oil	820 bbl	130 m ³
Water Maker	2 X Alfa Laval Waste Heat Evaporator type; 45 mt capacity each.	

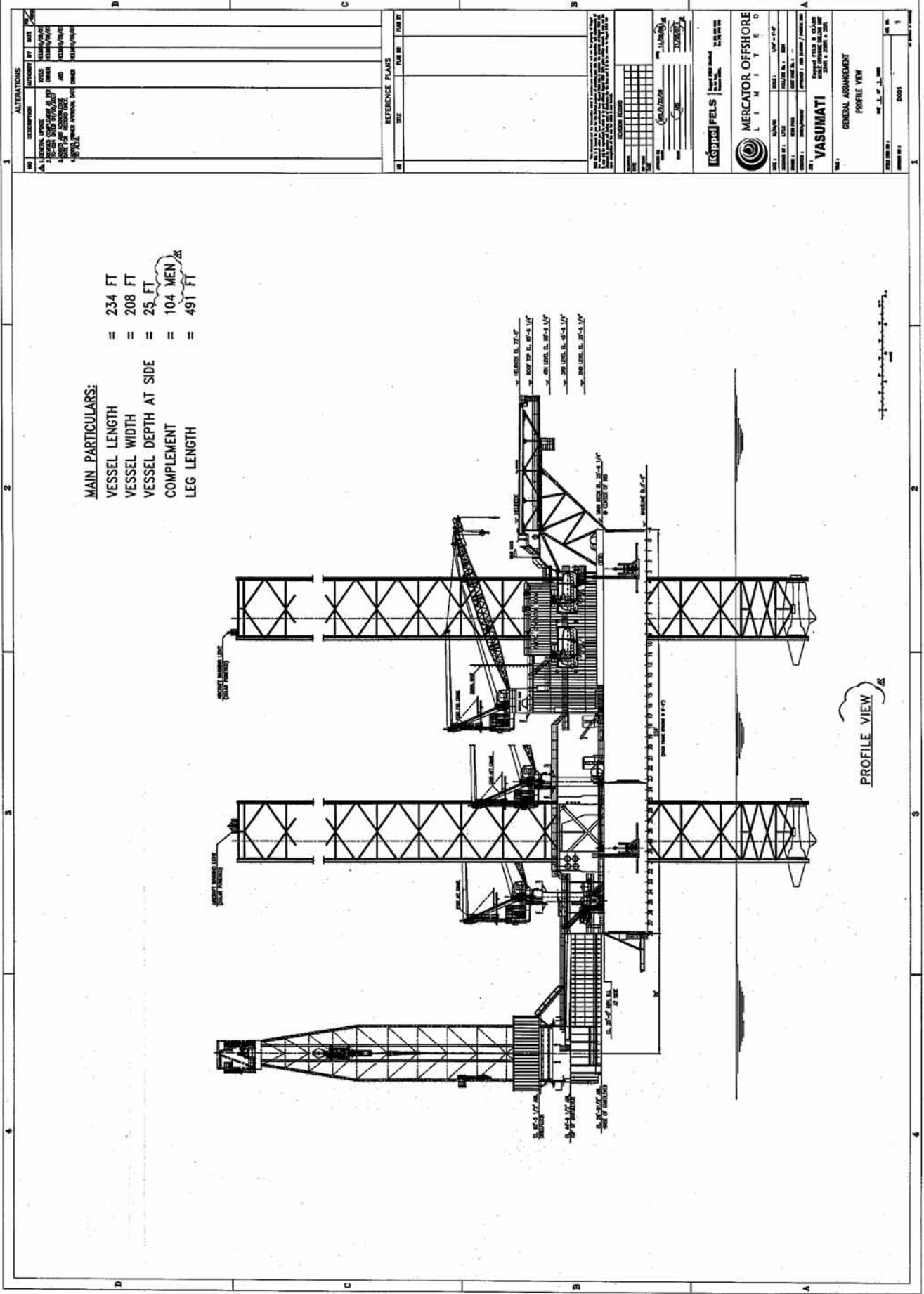
OPERATING SYSTEMS

BOP	1 X 13 5/8" X 10K Annular Cameron make, 2 X 13 5/8" X 15K Double Cameron make
BOP Handling	2 X Ingersoll Rand air hoists, rated 50 T each.
Control System	Cameron 3000 psi, 30 bottles of 15 gallons each
Choke and Kill	Cameron 3 1/16" X 15k choke manifold with 2 X 3 1/16" Hydraulic choke & 2 X 3 1/16" Manual choke.
Diverter	2 X 29 1/2" Hydrill MSP 500 PSI WP spool with 2 x 14" OD diverter lines port/starboard with hydraulically actuated Piper ball valves.

The vessel specifications are subject to modifications and may change without prior notice.

Greatship (India) Limited

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MAIN PARTICULARS:
 VESSEL LENGTH = 234 FT
 VESSEL WIDTH = 208 FT
 VESSEL DEPTH AT SIDE = 25 FT
 COMPLEMENT = 104 MEN
 LEG LENGTH = 491 FT

PROFILE VIEW

ALTERATIONS		NO.	DESCRIPTION	APPROVED BY	DATE
1	AS ISSUED				

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KOPELL FELS

MERCATOR OFFSHORE

VASUMATI

GENERAL ARRANGEMENT
 PROFILE VIEW

NO. 10001