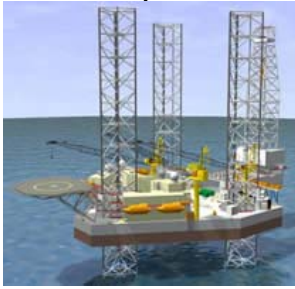


**KFELS Super B Class**



**Deep Driller 5**

<b>GENERAL DESCRIPTION</b>	
Unit Name	<i>Deep Driller 5</i>
Unit Design	KFELS Super B Class Independent leg, Cantilevered Jack-Up Drilling Unit
Built	Keppel FELS Limited, Singapore
Delivery	2 <sup>nd</sup> Quarter 2007
Class Society	American Bureau of Shipping
Class Notation	ABS, A1 Self-Elevating Drilling Unit, CDS (2001 Rules)
Flag	Singapore

**MAIN PARTICULARS**

<b>Drilling Depth Maximum</b>	
Water depth, maximum	350 ft.
Wind speed	70 knots
Wave height, maximum	35 ft.
Current speed, surface	1.5 knots
Air gap	50 ft
<b>Dimensions</b>	
Hull Length, overall	246 ft.
Hull Breadth, overall	218 ft.
Hull Depth	25 ft.
Leg length	486 ft
Leg Spacing, transverse	142 ft.
Leg Spacing, longitudinal	129 ft.
Cantilever envelope, well center from transom	15 - 70 ft.
Cantilever envelope, well centre from centerline	+/- 15 ft.
Spud can diameter	52.42 ft

**CAPACITIES**

Rated drilling depth	35,000 ft.
Static hook load	1,000 tons
Rotary capacity	1,000 tons
Setback capacity	600 tons
Conductor tension capacity	250 tons
Variable Load, maximum drilling	5,586 tons (based on above environment)
Maximum combined cantilever load	1,350 tons
Drill water capacity	6,579 bbls
Fuel oil capacity	3,345 bbls
Base oil	1,561 bbls
Brine	1,015 bbls
Potable water	2,052 bbls
Liquid mud	5,128 bbls (including slug tank)
Bulk mud	9,600 ft <sup>3</sup>
Bulk cement	6,147 ft <sup>3</sup>
Sack storage	5,000 sacks

**DRILLING EQUIPMENT**

Drawworks	National Oilwell Varco Model SSDG-4600-57, with 4 x 1, 150hp AC electric motors and regenerative braking		
Top Drive	National Oilwell Varco Model HPS-1000-2E-AC-KT, 2000 kip capacity		
Mud pumps	Three National Oilwell Varco Model 14-P-220, triplex pumps		
Cranes	Main Block	Whipline	
	Favelle Favco Model 7.5 / 10K	50 tons @ 40 ft	10.9 tons @ 120 ft
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	Favelle Favco Model 7.5 / 10K	50 tons @ 40 ft	10.9 tons @ 120 ft
Power Generation	5 x Warsila Model 6L26A2 engines (2,515 hp each, 12,575 hp total)		
Pipe Racking	National Oilwell Varco Model BR6-SD Bridge Racker		

**ACCOMMODATION**

Total Capacity	120
Number of single cabins	10
Number of double cabins	55
Number of operator offices	2
Number of contractor offices	3
Number of meeting rooms	1

## WELL CONTROL EQUIPMENT

Diverter	KDFJ-500 Diverter
Annular BOP	Cameron DL 18 3/4" x 10,000 psi WP Annular BOP
Ram BOP	2 x Cameron TL 18 3/4" x 15,000 psi WP Dual Ram BOP's
Choke manifold	15,000 psi WP

## FLUID PROCESSING

Gumbo System	National Oilwell Varco GM250, dual gumbo conveyor
Shale shakers	5 x National Oilwell Varco DLMS-380, Super G
Mud degasser	2 x National Oilwell Derick Vacu Flo 1,200 gpm
Desander	National Oilwell Varco DSN-3V-10CTX, 3 x 10" cones, 1,200 gpm
Desilter mud cleaner	National Oilwell Varco DSL-16GG-CTX, 16 x 4" cones, 1,200 gpm
Mud mixing pumps	HALCO or equivalent centrifugal pumps

## DRILL STRING

Drill pipe	20,000 ft, 5 7/8" OD, S-135, Range 2, XT57 tool joints, 7" OD x 4.25" ID, 26.3 ppf nominal
Drill collars	Six, 9 1/2" OD x 3" ID, spiral drill collars  Eighteen, 8 1/2" OD x 2 13/16" ID, spiral drill collars  Eighteen, 7" OD x 2 13/16" ID, spiral drill collars
Hevi-Wate drill pipe	Thirty, 5 7/8" Heavy Weight drill pipe, XT57 tool joints