

Drilling Rig



Vessel name:

SKD T-19

A purpose built barge-type self-erecting tender assisted drilling (TAD) rig. The D.E.S. is also designed to have offline capabilities for cementing, stand building and logging. The tender is able to erect the D.E.S. with its own crane on platform beams up to 90 feet (27.4m) above mean sea level.

GENERAL

Design	Flat bottom barge
Built/year	Kencana HL, Lumut, Malaysia / 2010
Rig type	Self-erecting TAD Rig
Major upgrades	N/A
Flag	Panama
Classification	ABS
Class notations	+A1 Barge Drilling Tender & 'Statement-of-Fact' for MODU A.649 (16)

MAIN DIMENSIONS / TECHNICAL

Length x breadth x depth	320 ft x 100 ft x 37.3 ft
Max. water depth	800 ft with conventional mooring system 6,000 ft with pre-laid mooring system
Min. water depth	39 ft
Drilling depth	20,000 ft with 5 7/8" OD Drill pipe
Variable load	8,800 mt
Helideck	S92N / S61N / Super Puma
Helideck compliance	CAP437
Accommodation	145 persons

DRILLING EQUIPMENT

Derrick	Loadmaster Bootstrap Mast, quad, 186-ft
Hookload / Setback	1,000 kips / 1,200 kips
Drawworks	Lewco LDW1500K, 3000 HP
Racking capacity	20,000 ft with 5 7/8" OD drill pipe
Top drive	Lewco DDTD750, cont torque 72,000 ft-lbs, 750 t
Pipe handling	AKER 'Knuckle Link' type Pipe Handler
Iron Roughneck	HawkJaw Model 100K-2GSR Power Tong
Rotary table	Lewco L-375 with 37 1/2" table opening
Power slips	Blohm & Voss PS-500
Drilling Line	7,500 ft x 1 1/2" OD
DES dry weight	1,085 mt
DES number of lifts	23
Max Platform height	115 ft

STORAGE CAPACITIES

Fuel	5,700 bbls
Drill water	17,000 bbls
Potable water	4,000 bbls
Liquid mud	5,347 bbls
Base oil	5,271 bbls
Brine	2,605 bbls
Barite/Bentonite	12,600 cu ft
Cement	8,400 cu ft
Sack storage	9,000 sacks

** Owners reserve the right to amend the specifications without notification.

POWER

Main engines	6 x Caterpillar 3516B @ 1,383 BkW
Main generators	6 x Kato AC Model AA27589002 @ 1,600 kW
Total power	7,680 kW
Emergency power	1 x Cat 3512B with Kato generator @ 1,020 kW

WELL CONTROL

Diverter-BOP	21 1/4" Hydril 'MSP', 2k ABOP
	21 1/4" Hydril, 2k, 2 x SRBOP
BOP	13 3/4" Hydril 'GX', 10k ABOP
	13 3/4" Cameron, 10k, 1 x SRBOP & 1 x DRBOP
C&K manifold	10k psi
BOP hoist	50 mt

MUD SYSTEM

Mud pumps	3 x Lewco W-1712, triplex, 1600 HP
Pressure rating	7,500 psi
Shale shakers	4 x MI Swaco Model BEM-650 shakers
Mud gas separator	30" OD x 22 ft OAH with 6-ft mud seal 8" OD vent line
Degasser	MI Swaco CD-1400 D-gasser, 1,400 GPM

LIFTING EQUIPMENT

Main crane	Favelle Favco PC300 with 170-ft boom
Main crane rating	300 mt @ 18.0 m radius (DF=2.0)
Deck crane	Favelle Favco 6/10K with 135.17-ft boom
Deck crane rating	20 mt @ 10.0m radius (DF=2.0)
Master Skid cranes	1 x 'CraneSafe' knuckle crane
Master Skid crane rating	10,000 lbs SWL

TUBULARS

Drill pipe	20,000 ft of 5 7/8" DP
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OFFLINE ACTIVITY CAPABILITY

OAC crane	Yes
OAC power tong	HawkJaw Model 100K-2GSR Power Tong
URF activity cantilever	Nil

STATION KEEPING

Anchor wire	8 x 2 1/2" OD x 4,600 ft galvanised steel wire ropes
Anchors	8 x 10 mt Delta Flipper
Mooring winches	4 x Skagit Model DMW 150, dual drums, electric winches

OTHER FEATURES

Lifeboats	4 x 80-persons, Jiangyin Norsafe survival crafts
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SAPURAKENCANA DRILLING PTE LTD

10 Hoe Chiang Road
#18-01 Keppel Towers
Singapore 089315
Tel: +65 6422 1000 Fax: +65 6222 5592

www.sapurakencana.com