

GLOBAL EMERALD



GENERAL

Rig Type	Tender Drilling Barge
IMO Number	
Rig Design	Maltese Cross I 3/4
Overall Dimensions	321 x 70 x 34.5 ft
Accommodations	116 person
Shipyard	Sabah Shipyard, Malaysia
Year Built	1993
Gross Tons	7636

OPERATING PARAMETERS

Water Depth	40 ft - 656 ft
Maximum Drill Depth	20,000 ft with 5" DP
Survival Conditions	Wind: 70 knots; Waves: 5 m at 20 sec; Current: 3.0 knots
Drilling Conditions	Wind: 40 knots; Waves: 2.5 m at 11 sec; Current: 3.0 knots

MACHINERY

Main Power	Five (5) CATERPILLAR Model 3516 TA diesel engine driven generator sets each rated to 1,545 BHP/1,156 KW continuous and 1,615 Bhp max @ 1200 rpm
Emergency Power	One (1) 3508 T diesel engine for emergency power coupled to one (1) CATERPILLAR SR-4 AC generator
SCR	Three (3) GENERAL ELECTRIC 750 V each

DRILLING EQUIPMENT

Derrick	ENFAB ABI SPECS 4F, 2 section telescopic fitted with derrickman's escape device Clear height 152 ft, base width 22 ft, 18 ft racking area 1,000,000 lbs with 12 lines strung plus 226 MT setback
Crown Blocks	ENFAB 583T complete with six + one 60" sheaves for 1 1/2" line. Capacity 583 short tons. One 12" catline sheave, two 14" air hoist sheaves, one 24" core line sheave
Drawworks	NATIONAL 1320 UE, 2000hp (2 x 752, 1000hp motors). Auxiliary Brake; Baylor ELMAGCO 7040 with battery back up and fitted with two HALCO water cooling packages
Rotary Table	NATIONAL C375, 37 1/2" 650 ton capacity (NB. 500 ton capacity limit due to rotary support beams) 1 x GE 752 1000 hp Electric motor
Traveling Blocks	National model 650 G500 traveling block/hook combination with six (6) 50" sheaves grooved for 1 1/2" line, capacity 500 short tons
Top Drive	VARCO TDS-4S complete with wire line adapter, 500 ton capacity, 1100 HP continuous output power, Continuous torque 45,500 ft/lbs low gear, 29,100 ft/lbs high gear. Working pressure 5000 psi

Risers:

1 x riser 20 3/4 x 3,000 psi WP height 6,948mm
Hub CIW 20 3/4 x 3,000 psi WP (RX 73/ face to face)

1 x riser 20 3/4 x 3,000 psi WP height 400mm Hub CIW 20 3/4 x 3,000 psi WP (RX 73 x 21 1/4 flange) 2,000 psi WP (R73)

Mud Pumps

Three (3) EMSCO model FB-1600 Triples mud pumps powered by two (2) GE 752 DC electric motors, 1,600 HP each @ 120 SPM @ 5,000 psi working pressure

Mud Treatment

Four (4) FLC 2000 four panel shale shakers

One BURGESS model 1000 Vacuum degasser

Iron Roughneck

Hawk Jaw Model 100K-2GSR to handle tubulars from 4" to 9 1/2" OD

CAPACITIES

Variable Deck Load	1619 tons
Liquid Mud	3,300 bbls
Bulk Mud/Cement	6,360 ft ³
Drillwater	4,930 bbls
Potable Water	3,000 bbls
Fuel Oil	3,580 bbls
Brine	1,352 bbls

BOP EQUIPMENT

Diverter

One (1) VETCO 30" KFDJ-1000 diverter complete

20 3/4" BOP System

One (1) MH KOOMEY 20 3/4" x 3000 psi annular

One (1) CAMERON type "U" 20 3/4" 3000 psi double ram preventer equipped with large bonnets for shear/blind rams

13 5/8" BOP System

One (1) Shaeffer spherical 13 5/8" 5000 psi annular BOP

One (1) CAMERON type "U" 5000 psi single

One (1) CAMERON type "U" 13 5/8" 5000 psi double

BOP Control System

EAGAR B08/03-XPX (dillers cabin) EA GOO B08/03-WPX office

Choke Manifold

One (1) KOOMEY model TF290-11 SB3 control unit

One (1) FLOCON 4 1/16" x 10,000 psi manifold with H2S service dressed valves, including

One (1) hydraulis SWACO 2 9 1/16" 10,000 psi remote choke

Two (2) FLOCON manual adjustable 41/16" chokes, 10,000 psi WP

MOORING

Anchors

4 x PUSNES double drum anchor windlasses (300 MT SBL) 8 x 2 1/2", 6 x 36 IWRC EIPS-RH anchor lines (1600 m) 8 x Delta Flipper 10 MT anchors

CRANES

Crane No.1

Hydralift OMCVC 4000 rated to 100 metric tons

Crane No.2

OMCVC 1891-15T rated to 15 metric tons

MPC 1

Cranesafe 3.4 MT at 7.2 m "C - Frame Port side"

MPC 2

Cranesafe 3.4 MT at 7.2 m "C - Frame Stbd side"

MPC 3

Cranesafe 3.4 MT at 7.2 m "Mezz Deck Port side"

MPC 4

Cranesafe 3.4 MT at 7.2 m "Mezz Deck Stbd side"

HELICOPTER DECK

Suitability

Sikorsky S92



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