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ENSCO 107

GENERAL INFORMATION

Flag Liberian
Previous Name(s) _
Year Built 2006
Builder Keppel FELS, Singapore
Upgrade _
Design Keppel FELS KFELS MOD V B Class "Bigfoot"
Classification A. B. S. A-1 self elevating mobile offshore drilling unit

MAIN DIMENSIONS

Length 234'
Breadth 208'
Depth 25'
Legs 3 x triangular 517"
Leg Spacing Longitudinal leg center 129", transverse leg center 142"
Cantilever Minimum 19" 6", maximum 70" from stern to rotary centerline; Maximum 15" rotary displacement to either side of longitudinal centerline; 50" 6" x 30" live drilling area aft of hull
Spud Cans 53' diameter x 15' high
Deck Area Main deck storage capacity 6,100 sq. ft

DRAFT AND DISPLACEMENT

Transit Draft 16'
Transit Displacement 35,260 kips

MACHINERY

Main Power 5 x Cat 3516-B diesel engine each driving 1 x Cat SR4B 1,383 KW generator; total 9,275 HP
Power Distribution 4 x M&I 600 V, 2,200 amps SCR system for mud pumps; 4 x M&I variable frequency drives for AC top drive and AC dwks
Emergency Power 1 x Cat 3508-B diesel engine rated at (914 HP) driving 1 x Leroy Somer 600 KW generator

OPERATING PARAMETERS

Water Depth 350' - 400'
Maximum Drilling Depth 30,000'
Leg Penetration 25'
Air Gap 120'
Transit Speed 4.5 - 5 knots
Survival Conditions At 350' water depth: wind: 100 knots; waves: 43'; period 15 sec (with fixation system)
Criteria Design wind: 70 knots; waves: 40'; temp: -10 C

DRILLING EQUIPMENT

Derrick Woolslayer 160' x 32' x 35'; rated 1,500,00 lb static hook load capacity
Drawworks Varco/ADS-10DT, 3,000 HP
Rotary Varco/BJ RST 495, (49-1/2" max opening)
Top Drive Varco TDS-8SA, 750 ton
Travelling Varco 750 ton rating
Handling Varco PH 100 hydraulic; Varco AR-3200 Iron Roughneck
Cementing BJ Services (free placement only)
Mud Pumps 3 x Iewco W-2215, 2,200 HP; 7,500 psi
Drill Pipe 20,000' 5.5" 24.7 PPF S-135 HT-55 tool joints
Drill Collars 6 x 9.5", 18 x 8.25", 24 x 6 3/4", 24 x 4 3/4"

HOISTING EQUIPMENT

Crane 3 x Favco Model 7.5/10K 10 ton, whip line 45.4 MT main line; diesel hydraulic

CAPACITIES

Variable Deck Load 9,000 kips (drilling)
Cantilever Load 2,300 kips
Total Drilling Load 2,300 kips
Tubulars in Pipe Rack 30,000' 5 1/2" DP plus BHA
Liquid Mud 3,891 bbls
Bulk Mud/Cement 11,100 cu. ft.
Sacks 5,000 sacks
Drillwater 20,089 bbls
Potable Water 2,000 bbls
Brine Storage 1,000 bbls
Base Oil Capacity _
Fuel Oil 2,950 bbls
Watermaker _
Others Base Oil Tank: 1,000 bbls; Trip Tank 2 x 37 bbls

WELL CONTROL SYSTEMS

BOP Varco SLX 18 3/4" 10,000 psi 3 ram BOP stack (double & single); Shaffer 18 3/4" 5,000 psi annular
BOP Handling 2 x MOS 75 ton tandem chain hoists
Control System Koomey model T60360-3S, 3,000 psi, 42 bottles x 11 gal capacity
Diverter ABB Vetco KFDJ 49 1/2" 2,000 psi with 2 x 12" remote controlled valves & 1 x 14" remote controlled valve
TV System _
Choke and Kill Shaffer 3 1/16" x 15,000 psi

MOORING

Winches 4 x LeTourneau W-1500
Wire 2500' of 1 3/8" wire
Anchors 4 x Flipper Delta, 5,000 kg

HELIDECK S-61; 74' diameter; 20,400 lp

JACKING AND SKIDDING SYSTEM Keppel FELS with self positioning fixation system

ACCOMMODATION 112 berths (15 x 2 man staterooms with private T&S, 37 x 2 man staterooms with shared T&S, 2 x 4 man staterooms with private T&S) with gymnasium, recreation rooms, 6 x offices, control room, conference room, radio room and 2-bed hospital

ADDITIONAL DATA

4 x Brandt LCM-3D/CM-2 Shale Shakers; 1x Brandt LCM-3D /CMC linear motion Mud Cleaner 3 x 12" Desander; 24 x 4" Desilter; 2 x Brandt DG-10 1.000 gpm vacuum degasser, 200 MT conductor tensioning system, offline capabilities with Varco "Phantom Mousehole" rotating Mousehole, Varco Foxhole Spider Mousehole, MDT/Varco flex chair drilling controls and instrumentation; single point discharge

CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Max combined load & setback	70'	563	1500	563
	38'	2156	2300	2156