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ENSCO 104

GENERAL INFORMATION

Flag Liberian
Previous Name(s) Chiles Discovery
Year Built 2002
Builder Keppel FELS, Singapore
Upgrade
Design KFELS MOD V B Class
Classification A. B. S. A-1 self elevating mobile offshore drilling unit

MAIN DIMENSIONS

Length 225'
Breadth 208'
Depth 25'
Legs 3 x triangular 517'
Leg Spacing Longitudinal leg center 129', transverse leg center 142'
Cantilever Maximum 70' from stern to rotary centerline; maximum 15' rotary displacement to either side of longitudinal centerline; 50' x 30' live drilling area aft of hull
Spud Cans 47.2' diameter x 19' high
Deck Area Main deck 6,100 sq. ft. Helideck S-61; 75' diameter; 9.3 ton

DRAFT AND DISPLACEMENT

Transit Draft 16'
Transit Displacement 31,351 kips

MACHINERY

Main Power 5 x Cat 3516-B diesel engine, each driving 1x Cat 2150 KVA generator; 9,275 HP total
Power Distribution 5 x Ross Hill control 600 V, 2,200 amps SCR system
Emergency Power 1 x Cat 3516-B diesel engine driving 1x Cat 2150 KVA generator

OPERATING PARAMETERS

Water Depth 350' - 400'
Maximum Drilling Depth 30,000'
Leg Penetration 25'
Air Gap 120'
Transit Speed 4.0 KPH
Survival Conditions At 250' water depth: wind: 100knots; waves: 40'; period 15.0 sec
Criteria Design 70 knots; waves: 42'; -10 C

DRILLING EQUIPMENT

Derrick DRECO 170' x 35' x 32'; rated 1,500,000 lb
Drawworks National 1625 UDBE
Rotary National D-495 (49 1/2")
Top Drive NOV TDS-8
Travelling 650 ton rating
Handling Varco ST-80 Roughneck
Cementing Haliburton HCS Advantage 15k
Mud Pumps 3 x National 14-P-220; 7,500 psi mud system
Drill Pipe 5 1/2"-S-135 range 2, 5-1/2"HWDP range 2, 3 1/2" S-135 range 2, 3 1/2" HWDP range 2
Drill Collars 9 1/2", 8 1/4", 6 1/2", and 4 3/4"

HOISTING EQUIPMENT

Crane 3 x Drecto DNS-48, 50 ton at 30' radius, 120' boom

CAPACITIES

Variable Deck Load 8,025 kips (drilling)
Cantilever Load 1,675 kips
Total Drilling Load 9,700 kips w/ Rack Chocks engaged
Tubulars in Pipe Rack 25,000
Liquid Mud 3,516 bbls
Bulk Mud/Cement 11,100 cu. ft.
Sacks 5,000 sacks
Drillwater 15,082 bbls
Potable Water 2,053 bbls
Brine Storage 2,229 bbls
Base Oil Capacity 1,298 bbls
Fuel Oil 2,584 bbls
Watermaker Specific Equipment, 14,000 GPD
Others Skimmer-209 Bbls: Dirty Oil 51 Bbls

WELL CONTROL SYSTEMS

BOP Cameron "U" 18 3/4" 10,000 psi 4 ram BOP stack; Shaffer spherical blowout preventer 5k 18-3/4" 5,000 psi annular (15,000 piping)
BOP Handling J.D Neuhaus model UH-100, 200 ton
Control System ABB TX392-15BT3X
Diverter Shaffer 30" 1,000 psi
TV System CCTV for Monkey Board, Stabbing Board, and Flo-Line
Choke and Kill 3 1/16" x 15,000 psi Cameron

MOORING

Winches 4 x Marathon LeTourneau / W1500
Wire 1 1/2" x 2,000' anchor wire
Anchors 4 x Delta Flippers @ 11,000 lbs. each

HELIDECK 75' Diameter Rated 20,400 Pounds
JACKING AND SKIDDING SYSTEM Jacking Unit: Keppel Fels – OTD Model 1000FV; Skid Unit: Keppel Fels – OTD Model SS200-FL
ACCOMMODATION 110 berths, 30 x 2 man rooms, 12 x 4 man rooms, 2 x private room

ADDITIONAL DATA

4 x Brandt VSM-300 Shale Shaker, 1 x Brandt LCM-3DCMC Mud Cleaner; 1 x Gumbo Scalper, 2 x 25 ton Conductor Tensioning System, 2 x 100 ton BOP Tensioning System: Cameron

CANTILEVER CAPACITY (kips)

	Reach	+15'	0	-15'
Allow Loads	70'	519	1321	392
Max combined load & setback	46'	1675	1675	1543