



ENSCO 54

GENERAL INFORMATION

Flag: Liberian
Previous Name(s): Western Apollo III; Loosbrock Galaxy; Dual Rig 89
Year Built: 1982
Builder: China Shipbuilding Co., Taiwan
Upgrade: 2018
Design: Friede & Goldman L-780 Mod II cantilever jack-up
Classification: ABS

MAIN DIMENSIONS

Length: 180 ft
Breadth: 175 ft
Depth: 25 ft
Legs: 3 x 413.25 ft triangular/truss
Leg Spacing: Long leg centers 115 ft; trans leg centers 120 ft
Cantilever: ± 12 ft x 50 ft
Spud Cans: 39' 8" Diameter x 20' High
Deck Area: Pipe rack 2,420 sq.ft. misc. 1,000 sq.ft.

DRAFT AND DISPLACEMENT

Transit Draft: 16.0 ft Load Line Draft
Transit Displacement: 9,057 mt

MACHINERY

Main Power: 3 x EMD 12-645-E8 engines x 4,950 HP; EMD AB20-6 x 1,180 kW generators
Power Distribution: IPS model 2200
Emergency Power: 1 x 910 kW

OPERATING PARAMETERS

Water Depth: 300 ft (20 ft – 300 ft)
Maximum Drilling Depth: 25,000 ft
Available distance below hull with 5ft margin: 363 ft
Air Gap: 45 ft
Transit Speed: 4.5 knots x 2 tugs x 100T BP combined
Survival Conditions: 300 ft water; waves 48 ft; wind 100 knots; current 0
Criteria Design: Air - 4 F; water 32 F

DRILLING EQUIPMENT

Derrick: Dreco "Bottleneck" 170 ft x 30 ft x 30 ft; static hook load capacity 1,036,000 lbs
Drawworks: Continental Emsco C2 x 1,800 HP; Baylor model 7838 brake
Rotary: Continental Emsco T-3750 x 37-1/2" independent electric drive
Top Drive: Varco TDS-4H
Travelling: 650 mt
Handling: VARCO ST-80
Cementing: Baker Hughes cementing services (SCP 348 free placement only)
Mud Pumps: 2 x Continental Emsco FB-1600 triplex, P-Quip rod and liner retention system
Drill Pipe: 5", 4" XT-39 and 2-3/8" DP
Drill Collars: 6-1/2", 4-3/4" and 3-3/8" DC

HOISTING EQUIPMENT

Cranes: 2 x Dreco Kingpost; 48 DNS-120-1.5, 40.3 mt Dynamic/52.55 mt Static @ 20.7 ft radius 6-part hoisting, Static Factor 1.33, Dynamic Factor 2.00

CAPACITIES

Variable Deck Load: Transit: 1,666 kips; Drilling: 5,160 kips; Survival 2,410 kips
Cantilever Pipe Deck Load: 750 kips
Total Drilling Load: 1000 kips
Tubulars in Pipe Rack: 25,000 ft x 5" at monkey board
Liquid Mud: 2,300 bbls
Bulk Mud/Cement: 8,900 cu.ft.
Sack Storage: 500 sacks
Drill water: 4,770 bbls
Potable Water: 1,171 bbls
Brine Storage: 4 x mud pits that can be used to store brine or oil base
Base Oil Capacity: 4 x mud pits that can be used to store brine or oil base
Fuel Oil: 2,694 bbls
Watermaker: 1 X PWE 17000 Reverse Osmosis Machine X 11.8 GPM, plus 2 each AlfaLaval Model D-PU-36-C100

WELL CONTROL SYSTEMS

BOP: Shaffer spherical Annular x 13-5/8" x 5,000 psi; Cameron "U" ram x 13-5/8" x 10,000 psi x 1 double & 2 single
BOP Handling: 4 x 25 mt x JDN Hoist
Control System: CAD- 9 Station, 420 Gallon with PLC Remotes, Integrated Diverter and UPS
TV System: Explosive proof camera & monitor for top drive system, Stabbing board, Shale Shaker, BOP deck
Choke and Kill: Cameron x 3-1/16" x 10,000 psi, x 2 Swaco super adjustable chokes x 2 Cameron manual chokes

MOORING

Winches: none
Wire: none
Anchors: none

HELIDECK

Sikorsky S-61, 75 ft diameter

JACKING AND SKIDDING SYSTEM

Jacking: National NS 400 Rack and Pinion system; skidding: hydraulic piston system

ACCOMMODATION

96 berths

ADDITIONAL DATA

Communication system consisting of: GMDSS and VSAT system; Sewage Treatment; Omnipure 12MX; Shale Shaker: 4 x Brandt VSM 300; Desilter/ Desander: Brandt VSM 300 16/2

CANTILEVER CAPACITY (kips)

	Reach	+12'	0	-12'
Max combined load and setback	50'	267	991	312

Updated 10/27/17