

DRILLING RIG 103



High Arctic has successfully been operating and maintaining Rig 103 in Papua New Guinea since 2007: continuously optimising the integrity and availability of the rig with a proven track record of its increased performance, minimal downtime and optimised operating costs.

Rig 103 is a heli-portable, 1500 hp, drilling rig that includes a leapfrog package; allowing for the most efficient mobilisation and demobilisation in remote areas with significant reductions in rig move critical path time. Rig 103 is operated by highly experienced crews, ensuring safe and efficient operation in harsh conditions and environmentally sensitive areas.

MAST

Type: Bootstrap Triple
Height: 147'
Hookload: 750,000 lbs

SUBSTRUCTURE

Type: Slingshot
Height: 6.2 m
Hookload: 750,000 lbs
Setback: 400,000 lbs
BOP Handling: 50 ton
Skidding System: Yes

DRAWWORKS

Type: JC50DB
Rating: 1,500 hp
Drilling Line: 1-3/8"
Drive Type: 2x AC Motor
Brake: Regenerative

ROTARY TABLE

Type: Hydraulic Drive
Size: 27-1/2"

IRON ROUGHNECK

Type: NOV ST-80
Makeup Torq: 60,000 ft/lb
Breakout Torq: 80,000 ft/lb

TOP DRIVE

Type: NOV TDS11HD
Rating: 1,200 hp
Cont. Torque: 58,800 ft/lb
Max. Makeup: 62,500 ft/lb
Pipe Handler: PH-75

POWER GENERATION

Type: 512DFGB Diesel
Engines: Cummins VTA28
Rating: 820 hp
Alternators: Stamford LV
Rating: 512 kW
Quantity: 8

MUD TANKS

Volume: 1,500 bbls
Shale Shakers: 4x MI Swaco MD2
Degasser: Brandt DG10

MUD PUMPS

Type: NOV 8P80
Rating: 800 hp
Max. Liner: 6-1/4"
Stroke: 8-1/2"
Rated Speed: 160 spm
Rated Pressure: 5,000 psi
Quantity: 5

WELL CONTROL EQUIPMENT

Annular: NOV 13-5/8" 5K
Single Gate: Cameron 13-5/8" 10K
Double Gate: Cameron 13-5/8" 10K
Choke Manifold: 3-1/16" 10K

DRILL PIPE

5-1/2" FH: 4,000 m
4" XT39: 3,500 m

SUPPORT EQUIPMENT

Crawler Crane: 40t Mantis GTC400EX
Loader: 7t Caterpillar IT38
Telehandler: 4t JCB 541-70

