

RIG RDN#101 2000 HP

PT. RODA DRILLING NUSANTARA

General Description

Land Drilling Rig
 Estimated drilling depth rating 20.000 ft (6.100 meter)
 Made in US and are mostly build circa 1980-1985

1985 until 2007 owned and operated by DATI (PT. Daya Alam Teknik Inti) under license Parker Drilling Company and previously named DATI#206 Rig.

2008 was taken over by RDN (PT. Roda Drilling Nusantara) and now called RDN#101 Rig.

Mast

Manufacture : Parco
 Model : HH - 636 - 80
 Height : 136 ft
 Rated capacity : 800.000 lbs
 Rotary capacity : 680.000 lbs
 Racking capacity : 20.000 lbs
 Wind load capacity : 185 km/hr (without load) & 135 km/hr (with load)

Substructure

Manufacture : Parco
 Clear height, rotary beam to ground : 29,6 ft (9,02 meter)
 Type: Box to box
 Setback capacity : 680.000 lbs
 Static load capacity : 1.000.000 lbs

Rotary Table

Manufacture : OIME
 Opening table : 27-1/2"
 Static load capacity : 780.000 lbs
 Torque rating max : 30.000 ft-lbs
 H-Beam range 35"
 Split Master Bushing

Drawwork

Manufacture : OIME
 Model : TBA - 2.000 Mechanical
 Rated Input : 2.000 HP
 Auxiliary Brake : Parmac 342A Hydromatic Brake
 Independent fresh water cooling system untuk DW & auxiliary brake

Swivel

Type : Grey B-44-M
 Capacity : 500 ton
 Working Pressure : 5.000 psi

Engine

Prime Mover

4 x Caterpillar KTA11150 - 525 HP

Generator Set

2 x Caterpillar G19 - 365 HP 265 kV

Well Control (Blow Out Preventer)

Annular

1 x 21-1/4" 2.000 psi, Shaffer
 1 x 13-5/8" 5.000 psi, Hydril

Blind Ram*

1 x 21-1/4" 2.000 psi, Shaffer
 1 x 13-5/8" 5.000 psi, Shaffer

Pipe Ram

1 x 21-1/4" 2.000 psi, Shaffer
 1 x 13-5/8" 5.000 psi, Shaffer

Accumulator Unit

Koomey, 3.000 psi, 5 station

Tank

Water Tank

1 x 81.000 liter
 1 x 75.000 liter

Fuel Tank

1 x 80.000 liter
 1 x 10.000 liter



Mud System

Mud Pump

1 x Gardner & Denver PZ11 - 1600 HP 1193 Kw, Mechanical System
 2 x Gardner & Denver PZ11 - 1600 HP 1193 Kw, Electrical System

Generator

3 x Caterpillar 3516B DITA 2340 HP with 1500 Rpm, 2000 Kv

Mud Tank

9 x 120 bbl mud pit
 1 x 55 bbl trip tank

Shale Shaker

3 x MI Swaco Dual Tandem Super Screen
 Linear Motion Shale Shaker
 Capacity : 1800 gpm

Desander

1 x MI Swaco Desander c/w centrifugal pump & elmot
 Capacity : 1.500 gpm

Desilter

1 x MI Swaco Desilter c/w centrifugal pump & elmot
 Capacity : 1.500 gpm

Degasser

1 x MI Swaco Horizontal Degasser, 460 V, 60 Hz
 Capacity : 1.000 gpm

Drill String

Drill Pipe

281 joint x Drill Pipe 5"
 184 joint x Drill Pipe 3-1/2"

HWDP

48 joint x HWDP 5"
 13 joint x HWDP 3-1/2"

Drill Collar

5 joint x 9-1/2" Spiral Drill Collar
 24 joint x 8" Spiral Drill Collar
 39 joint x 6-1/4" Spiral Drill Collar
 6 joint x 4-3/4" Silindrical Drill Collar

Handling Tool

Manual Tong

for pipe size: 3-1/2" DP, 5" DP, 4-3/4" DC, 6-1/4" DC, 8" DC & 9-1/2" DC.
 for casing size: 20", 13-3/8", 10-3/4", 8-5/8", and 7"

Power Tong*

for casing size: 20", 13-3/8", 10-3/4", 8-5/8", and 7"

Experience in Geothermal Project

Drilling

2008 KMJ 81, Kamojang Area, PT. Pertamina Geothermal Energy
 2009 KMJ 82, Kamojang Area, PT. Pertamina Geothermal Energy
 2009 LHD 31, Lahendong Area, PT. Pertamina Geothermal Energy
 2010 LHD 32, Lahendong Area, PT. Pertamina Geothermal Energy
 2010 LHD 35, Lahendong Area, PT. Pertamina Geothermal Energy
 2010 LHD 25, Lahendong Area, PT. Pertamina Geothermal Energy
 2011 LHD 7-3, Lahendong Area, PT. Pertamina Geothermal Energy

Work Over

2010 LHD 34, Lahendong Area, PT. Pertamina Geothermal Energy
 2010 LHD 27, Lahendong Area, PT. Pertamina Geothermal Energy

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