



DESCRIPTION OF ZJ50L-RIG#5

Rig Number:	5
Manufacturer:	Kerui
Rig Horsepower:	1500 HP
Rig Type:	ZJ50L(1500HP) Onshore Drilling Rig
Drilling Depth:	5000 m with 4 1/2" OD DP
Max. Capacity:	700,000 lbs (3150 KN)
Drive Motors :	G12V190PZL-3/YOZ750-20FLshA 3 x 810 KW
Disc Brake:	PS50 Hydraulic Disk Brake
Auxillary Brake:	Electro-magnetic Eddy- FDWS50 (air cooling)

DRAWWORKS	JC50L
Rated Input Power	1100 KW
Max.fastline Pulling Force:	340 KN
Max. Capacity	500,000 lbs (2,250 KN)
Main Brake(disk brake)	PS50 Max. braking torque: 75 kN.m
Electro-magnetic FDWS50	Working brake torque: 165 kN.m
Drum Size	Ø685 x 1138 mm

TOP DRIVE	NOV HPT-500-2E-AC-SG
With 2 x 450 HP motor	
Max. Capacity	500 tons
Drilling Torque	40.000 ft.lbs
Break-Out Torque	80.000 ft.lbs
Max. Speed	259 RPM

SUBSTRUCTURE	DZ315/7.5-K
Drill Floor Height	7.5 m (24.6 ft)
Drill Floor Area	12.5 m x 7.9 m
Clear Height	6.3 m (20.66 ft)

MAST	JJ315/45-K
Nominal Capacity	500,000 lbs
Height of racking platform	24.5 m, 25.5 m, 26.5 m
Max. Hook Load	3150 KN (6*7 Strand)
Effective height	45 m (147.6 ft)



SWIVEL with KELLY SPINNER **XSL450**

Max. static load	4500 KN
Max. working pressure	35 MPa
Connector thread	6-5/8" REG-LH
Max. rotating speed	300 rpm

CROWN BLOCK **TC-315**

Max. Load	3150 KN (700,000 LBS)
Wireline Dia.	Ø35 mm(1-3/8")

TRAVELLING BLOCK **YC-315**

Max. hook load	3150 KN
Sheave	No: 6 ; OD: Ø1270 mm(50")

GENERATORS

**2 x VOLVO 400 KW, 400 V, 50 HZ
Emergency generator 50 KW**

MUD PUMPS **2 x F-1300**

Rated input power	1300 HP
120 Spm; 5000 Psi ; Stroke:12"; Liner diameter: 7"	

MUD SYSTEM

Total Mud Tank Capacity (6 tanks) 267 m³ (1680 bbl)	
3 x Shale shaker HS240-3P	(2 x 2.2 Kw)
Desander HD-300 x 2	240 m ³ /h; 150~200 mesh
Desilter HM-100 x 12	180 m ³ /h; 4"x12; 100~200 mesh
Degasser HV240	200 m ³ /h
Mixing hopper x 3 HJM-200	200 m ³ /h

With Sand Pump x 2, Mixing pump x 2, Shearing pump, Measuring pump, Agitator x 12, Mud agitator x 2, Liquid-gas separator

Drilling Instrument SZJ

WOB, hook weight, SPP, tong torque, rotary table torque, rotary table rotating speed, pump stroke, mud return.

Hydraulic Power Tools

Hydraulic drill pipe power tong, Hydraulic Casing power tong, B type manual tong x 2 , Hydraulic power cathead Hydraulic power rotary cathead.