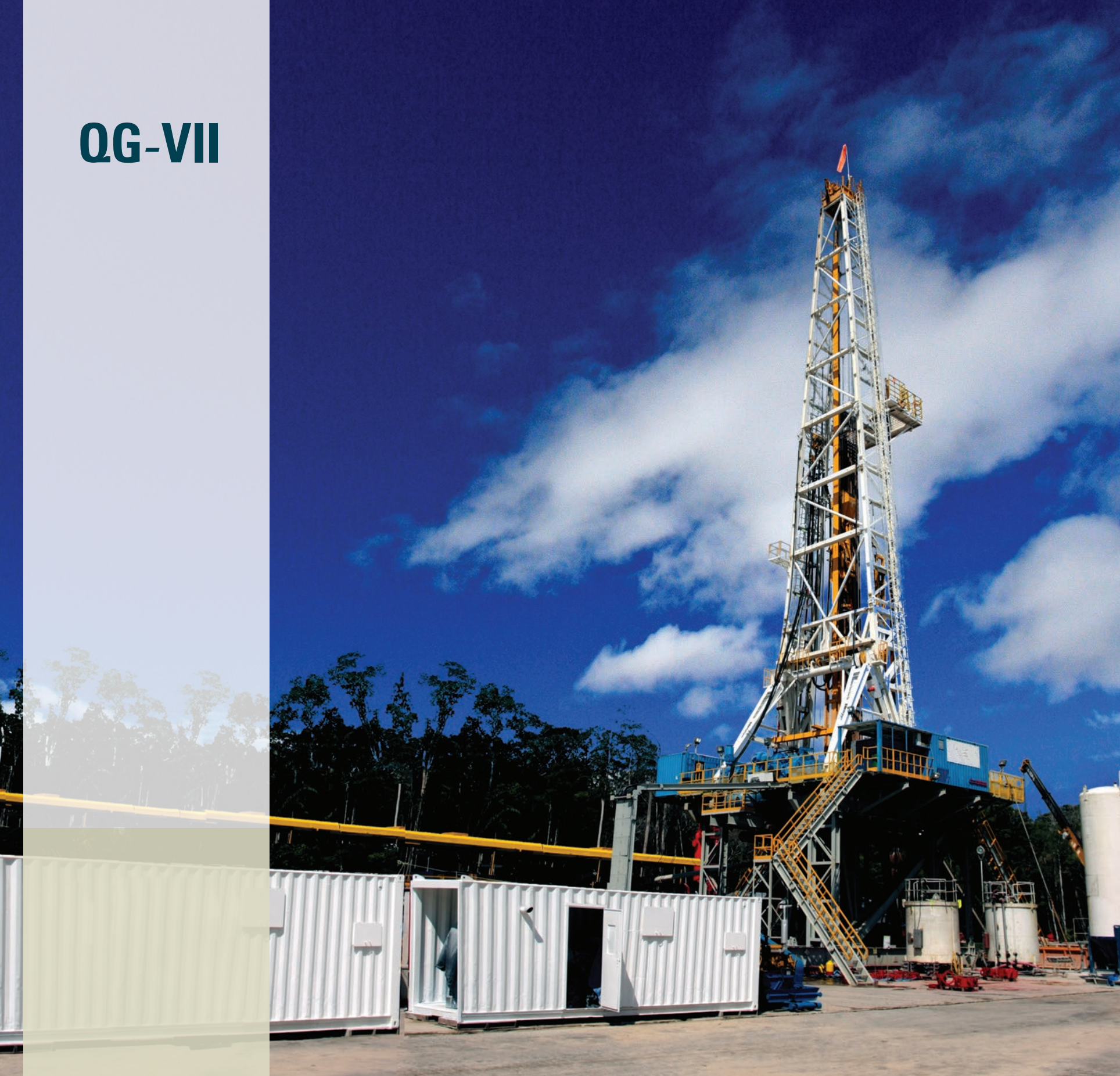


**QG-VII**





## DESCRIPTION

Conventional rig type, drilling depth capacity 23,000 ft.

## MAST

45.5 m - Manufacturer: Hong Hua  
Hook load capacity: 4,500 kN

## CROWN BLOCK

Hong Hua 4,500 kN with 7 x 60" sheaves

## SUBSTRUCTURE

Capacity of R/Table beam: 4,500 kN  
Setback load: 2,200 kN

## DRAWWORKS

Rated Horse Power: 2,000 HP  
Grooving: Lebus Grooved for 1-1/2" drill line.

## POWER SUPPLY SYSTEM

Features:  
Consist of 4 sets of main generators, 1 set of auxiliary generator, VFD system and MCC.  
Diesel engines are CAT3512B and generators are SR4B  
Auxiliary generator is CAT3406 diesel engine generator

## MUD PUMPS

3 Hong Hua 1600 HP

## SHALE SHAKER

3 Shale Shakers Derrick Flow Line Cleaner 2000

## DESSILTER

1 Hydro cyclone S-416-S 8" x 8"

## DEGASSER

Treatment capacity: 3 m<sup>3</sup>/min. Derrick  
Power of main motor 15 KW"

## DESANDER

Model DSV-10-3  
Work pressure: 0.2-0.35 MPa

## AIR WINCHES

Rated load: 50 kN  
Max. rope speed: 35 m/min

## MUD CLEANER

Derrick

## MUD SYSTEM

6 Mud Tanks, total stock capacity 1,628 bbl

## GENERATOR SETS

Model SR4B - Caterpillar

## ROTARY TABLE

Hong Hua drive by independent driving unit ZP375  
37 1/2" opening, 5,850 kN capacity

## SWIVEL

Hong Hua SL450  
Capacity: 4,500 kN Max.

## TRAVELING BLOCK AND HOOK

Hong Hua YC450  
Load rating: 4,500 kN

## BLOWOUT PREVENTERS

Rong Sheng Type U Double ram preventer 13 5/8" x 10,000 psi  
Rong Sheng Type U Single ram preventer 13 5/8" x 10,000 psi  
Rong Sheng Type D Annular preventer 13 5/8" x 5,000 psi

## ACCUMULATOR

Guangdong Guangzhou Model: FKQ1280-8, 338 gls, 16 bottles

## CHOKE MANIFOLD

Guangdong Guangzhou - 4 1/16" x 10,000 psi with 2 manual adjustable chokes and 1 hydraulic choke

## HCR

Chengde Kingdream Petroleum Machinery  
Model: JLFY103-70, 4 1/16" - 10,000 psi

## WIRELINE UNIT

Slick line 20,000 ft of 0.92" wire

## AIR COMPRESSOR

2 Ingersoll Rand - Model HP50-PE  
1 Mecanic Compressor Jiangsu Dayleap

## INSTRUMENTATION

Sensors:  
1 Weight load sensor  
1 Depth sensor  
3 Pump SPM sensor  
1 Pump RPM sensor  
1 Pump pressure sensor  
1 Mud return flow sensor  
1 Rotary torque sensor (Electrical)  
1 Tong torque sensor  
8+1 Ultra-sonic probe  
Display System at driller's console  
TFTLCD with touching screen to display electronics as follows:  
Hook load  
Weight on bit  
Rotary table & top drive RPM  
Rotary table & top drive torque  
Tong torque  
Pump SPM 1, 2, 3  
Pump pressure  
Mud return flow  
Well depth  
ton Mile of drilling line  
ROP. (rate of penetrate)  
Mud pit/trip tank volume (gain/loss)  
Mechanical meters on driller's console:  
1 Weight indicator  
1 Stand pipe pressure gauge  
1 Tong torque meter  
1 Rotary torque meter

## DRILL PIPES

Drill Pipe 5" S-135  
Drill Pipe 3 1/2" S-135  
Roller Reamer Near Bit 12.1/4", 8.1/2" e 6.1/8"  
Roller Reamer String 12.1/4", 8.1/2" e 6.1/8"

## HEAVY WEIGHT

HW's 5" x 30 ft.  
HW's 3 1/2" x 30 ft.

## DRILL COLLARS

Drill Collars 6 1/2", 8", 9 1/2" and Short Drill Collars

## KELLY DRIVE AND BUSHING

Hong Hua 1 x 5 1/4" Hexagonal  
Hong Hua 1 x 3 1/2" Square

## HYDRAULIC TONGS

Yancheng Teda  
Drill pipe range: 3-1/2" - 8"

## MUD LABORATORY

Baroid 821-01

## TOP DRIVE SYSTEM

National Oilwell Varco, Model TDS11- SA - 800 HP  
Hoisting Capacity: 500 ton

## EZYTORQUE

Deyang Tianfa  
Model: YM-1611

## CAMP

The camp houses are equipped to accommodate up 80 people, full air conditioned, with: office room, recreation room, clinic room, team communication room (computer/telephone), chemical laboratory with sleeping room, bathroom, showers room, laundry room, kitchen room, bakery, pantry room, freezer store container, refectory, food storage container, dressing room, tool pusher sleeping room with office and bathroom, company man sleeping room with office and bathroom, 5 sleeping room with bathroom, 4 sleeping room without bathroom.  
Laundry with washer machine, dry machine, and centrifugal  
Recreation room with TV set and DVD player 2 camp generator Toshiba, 135 KVA-60 Hz water treatment unit Enasa Brasil FN594/02, 2 m<sup>3</sup>/h.  
3 Water drinkable tank - Total: 15 m<sup>3</sup>  
2 Auxiliar AC Generator usable on Rig Movies, Olympiam, Model GP 150, 135 KVA, 220V, 60 Hz, driven by diesel Perkins Motors  
Triphasic transformer Unit 100 KVA, 600/220/127V - 60 Hz

## INDUSTRIAL SAFETY AND POLLUTION CONTROL

4 H2S detect sensors  
4 LEL (lowest explosion limit) sensors

## CRANE

Grove Crane - Model CM20  
Nominal Capacity: 22T/8'  
Hydraulic Tele-Boom Crawler, 3 Section  
Boom 78', Single Speed Plantary  
Capacity: 30 ton

## WATER PUMP

1 - FD-FXX GARDNER DENVER  
1 - EMSCO 175

## STORAGE TANKS

3 Reserve Tank Effective volume 1020 bbl

## CASING TOOLS

Casing range: 5-1/2", 7", 7-5/8", 9-5/8", 13-3/8"

## RIG FLOOR TOOLS

Elevators Jiangsu Rudong  
Collar Type Center Latch Complete and Syders

## FACILITIES

Mechanical Workshop, Electrical  
Workshop, Weld Workshop