

**DRILLING RIG JR MACMILLAN (BCH-01)**

Former: RIG-26

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**MANUFACTURER:** KREMCO CANADA  
**MODEL:** SUPERIOR 400 TRAILER MOUNTED RIG

**DEPTH RATING**

101.6 (mm), 4 (in.) drill pipe : 1500 (m), 4921 (ft)

**DRAWWORKS**

Make : Superior  
Model : 400  
Drilling line : 25.4 (mm), 1 (in.) (EIPS)  
Main brake : Band  
Auxiliary brake : Parmac Hydromatic  
Power : Caterpillar 3412 (630 hp)  
Drive : Alison Torque Converter  
Crown saver: Hitec Cathead

**MAST**

Type : Box telescope (free standing)(cable raise)  
Height : 34.14 (m) 112 (ft)  
Make : Kremco  
Gross nominal Capacity : 146,780, (daN), 330 000 (lbs)  
Static hook load rating : 88,960 (daN), 200 000 (lbs)  
Racking capacity (doubles): 153 x 101 mm, (4")pipe (doubles)

**SUBSTRUCTURE**

Make : Kremco  
Type : One piece box  
Casing capacity: 88,960 (daN), 200 000 (lbs)  
Set back capacity: 66,720 (daN), 150 000 (lbs)

**TRAVELLING EQUIPMENT**

Block (ton) : BJ 150  
Hook (ton) : BJ Unimatic 150  
Block and hook model: BJ 6150  
Swivel (ton) : National 200  
Model : P200

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**Escritório Central:**

Av. Rio Branco, 01 – 12º andar – sala 111/12  
Rio de Janeiro – RJ  
20090-003  
Tel.: 21 - 2588-8011 / 2588-8012  
Fax: 21 - 2588-8116

**Base de Operações:**

Rua dos Jasmins n° 01, Bairro Planalto II  
Catu, Bahia  
48110-000

## ROTARY TABLE

Make : National  
Model : C-175  
Opening size: 444.5 (mm), 17-1/2 (in.)  
Static load rating: 226,796 (kg), 250 (ton)  
Drive : Caterpillar 3406 (420 hp)

## MUD PUMP NO. 1

Make : BPMMP - Baoiji, China (to Continental Emsco design)  
Model : F500  
Type : Triplex  
Displacement : 0.5 - 2.2 (m<sup>3</sup>/min) (gpm)135-575 @ 165 SPM  
Pressures : 9.2 - 26.3 (mPa), 1340 to 3820 (psi)  
Charge pump : Mission Magnum 5 in x 6 in centrifugal  
Power : Caterpillar 3412 (600 hp)  
Transmission : 5-speed Allison 5960

## MUD PUMP NO. 2

Make : BPMMP - Baoiji, China (to Continental Emsco design)  
Model : F500  
Type : Triplex  
Displacement : 0.5 - 2.2 (m<sup>3</sup>/min), 135 - 575 (gpm) @ 165 spm  
Pressures : 9.2 - 26.3 (mPa), 1340 to 3820 (psi) spm  
Charge pump : Demco 5 in x 4 in centrifugal  
Power : Caterpillar 3412 (600 hp)  
Transmission : 5-speed Allison 5960

## GENERATORS

Engines : Caterpillar D3406 DIT  
Number : Three  
Generators : 210 KW (2x) / 300 KW (1x) - 460/220 V 60 Hz

## MUD SYSTEM

Tank volume : 64 (m<sup>3</sup>), 370 (bbl), (two tanks)  
Shakers : Sweco LM 3  
Degasser : Poorboy

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## **BOP SYSTEM**

BOP stack : 11 in Hydril GK 3M annular  
11 in Shaffer 3M double gate  
Accumulator : Hydril K8 454 (ltr), 120 (gal)  
Choke manifold : Oilmaster 3M  
Adjustable choke: Willis  
Test pump : Hydratron

## **INSTRUMENTATION**

Drilling recorder : 3-pen Totco  
Driller console : Hitec Cathead mini console  
Inclinometer : Totco  
Weight Indicator: MD Totco

## **HANDLING EQUIPMENT**

Winch : Gearmatic hydraulic 2720 (kg), 3 (ton)  
Manriding winch: IR46RJ Pneumatic  
Kelly spinner: Foster hydraulic  
Wireline winch: Gearmatic  
Hydraulic Power Tongs: White Bear – 25,000 foot – pounds (3" – 5" in.)

## **FUEL TANK**

Capacity: 21 800 (ltr), 5760 (gal)

## **WATER TANK**

Capacity: 400 (ltr), 105 (gal)

## **BUILDINGS:**

Change shack: 20 ft container (modified)  
Doghouse a/c (large): 20 ft container  
Trailers: 2x 40ft (offices, mess room)  
2x 20ft (living quarters)  
Geologist Lab: 20 ft container

## **TUBULARS**

Drill pipe : 300 ea - 101.6 (mm), 4" (in.)  
Grade E (H90 tool joints)

Drill collars : 20 ea - 171.5 (mm), 6-3/4" (in.) spiral  
20 ea - 120.6 (mm), 4-3/4" (in.)  
03 ea - 196.9 (mm), 7.3/4" (in.)  
07 ea - 171.5 (mm), 6.3/4"(in.)

Heavy Weight Drill pipe: 14 ea - 127 (mm) – 5" (in.)

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