

**DRILLING RIG BCH-02**  
**BCH Energy Services**

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ITEM	DESCRIPTION
<b>DRAWWORKS:</b>	- IRI Cabot 2550
Horsepower Rating:	- 1200 H.P.
Maximum Hoisting Capacity:	- 337.5 T with 10 lines of 1-1/4"
Auxiliary Brake:	- Parmac V-80 Hydromatic
Crown Block Protection:	- Stewart – Stevenson
<b>PRIME MOVER (DRAWWORKS):</b>	- 2 Cat 3412 DITA
Output Horsepower rating:	- 600 H.P. each
Emergency Shut-down:	- Barber Type
(Pumps):	- 2 Cat D-399 TA
Output Horsepower:	- 1150 H.P. with Barber Type Shutdown
<b>AIR COMPRESSORS:</b>	
Type:	- 1 – Quincy 350-21 (E) – Electric Powered
	- 1 – Quincy 350-22 (E) – Electric Powered
Automatic:	-Yes -1 – Primary / 1 – Backup
<b>ROTARY TABLE:</b>	- Gardner Denver RT 27-1/2
Maximum Table Opening:	- 700 mm
Maximum Static Load:	- (222,500 daN)
Torque Gauge:	- Totco
RPM Gauge:	- Totco
<b>DERRICK:</b>	- IRI Telescoping
Static Hook Load w/ Lines of:	- 322 T with 10 lines (318,000 daN)
Racking Capacity:	- 145 STD with 5"
Clear Working Height:	- 38.7m (127 feet)
Wind Capacity (Bare Mast):	- 106 MPH
Wind Capacity (Full Set-back):	- 80 MPH
<b>SUBSTRUCTURE:</b>	- IRI Telescoping
Casing Load:	- 460 Ton (409,400 daN)
Minimum Clear Working Height:	- 4.15m (13.8 ft)
Set Back Capacity:	- 162 Ton (360,000 lbs) (162,200 daN)
<b>TRAVELLING EQUIPMENT:</b>	
Crown Block:	- IRI 6 – 42" Sheaves
Hook Block:	- Emsco 350 T / 5 Sheaves (311,500 daN)
Links:	- BJ 350 T / 96" (311,500 daN, 2743 mm)
Swivel:	- Emsco LB 400 (Static Ratio mg 800,000 lb) (356,000 daN)
<b>TOP DRIVE:</b>	
Manufacturer:	- TESCO
Model:	- 250 HMIS
Capacity:	- 250 Tons
Specs:	- Hydraulic Power Pack (475 HP)

Escritório Central:

Av. Rio Branco, 01 – 8º andar – sala 804  
Rio de Janeiro – RJ  
20090-003  
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Base de Operações:

Rua dos Jasmins, 01 - Bairro Planalto II  
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48110-000  
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ITEM	DESCRIPTION
<b>DRILLING LINE:</b>	
Drilling Line Diameter:	- 31.5 mm (1-1/4")
Type:	- IWRC – IPS
Strength Capacity:	- 71,000 daN (79.9T)
<b>DEAD LINE ANCHOR:</b>	
Weight Indicator:	- Martin Decker
Hydraulic Sensor:	- Martin Decker
Line Scale Weight Indicator	- Cameron C
<b>HYDRAULIC WINCH:</b>	
Type:	- Pull master PL8 (Hydraulic)
Load:	- 7000 Lbs: 3115 daN
No:	- Two
<b>MUD PUMP:</b>	
No/Make/Model/Type – Pumps:	- 2 – Gardner Denver PZ9 Triplex
Power Rating:	- Pump- 750 kw (1000 H.P.) Each Engine Rating Caterpillar D-399c/w torque converter (1150 H.P.)
Maximum Strokes / Minute:	- 120
Maximum Working Pressure:	- Lesser of 80% of Liner Rating or Published Pressure
Liner Size Available:	- 6", 6-1/2"
Suction Pulsation Dampener:	- No
Discharge Pulsation Dampener:	- Continental Emsco 10 Gallon Lower Case 5000 psi on each Pump
Charge Pump (Centrifugal):	- Mission 5 x 6
<b>MUD TANKS:</b>	
Active Tank Volume:	- 180 m <sup>3</sup> (1110 bbl)
Premix Tank:	- 48 m <sup>3</sup> (400 bbl)
Trip Tank:	- 3.5 m <sup>3</sup> (22 bbl)
Agitators:	- 5 – Norgear Model 800SW- 20 H.P.
Mud Guns:	- Low Pressure for each Compartment
Desilter:	- Swaco 12- 4" Cones
Degasser:	- Roll'n Atmospheric 20" (500 mm Dia.)
Centrifuge Machine:	- Swaco Model 1828
Shale Shakers:	- 3 – Swaco Linear
Centrifugal Pumps:	- Mission Style
Type:	- 6" x 8" and 2"x3"
Capacity:	- Various as per application
Number:	- Seven

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ITEM	DESCRIPTION
<b>LIGHT PLANTS:</b>	
Generators Available, (Rating-KW) Lighting available for: Both for rig : Voltage:	- 2-CAT-3412 DITA 680 KW - Location Lighting and Wellsite Module - For Rig and Wellsite Accommodation - 480 Volts w/ Transformer to 220v / 110v
<b>TUBULARS:</b>	
Drill Pipe:	<ul style="list-style-type: none"> <li>- 288 Joints of 5 inch 19.5 lb per ft Grade S135 c/w 4 ½ inch IF tool joints</li> <li>- 144 Joints of 5 inch 19.5 lb. per ft Grade E c/w 4 ½ inch IF tool joints</li> <li>- 8- 5 inch pup Joints of assorted lengths c/w 4 ½ inch IF tool joints</li> <li>- 40 Joints of 5 inch HEVI-WATE drill pipe c/w 4 1/2 inch IF connections</li> </ul>
Drill Collars:	<ul style="list-style-type: none"> <li>- 3- 9 inch Spiral drill collars with 7 5/8 REG connections</li> <li>- 9-8 inch Spiral drill collars with 6 5/8 inch REG connections</li> <li>-11-7 inch Spiral drill collars with 4 ½ inch IF connections</li> <li>-12-6 ½ inch Spiral drill collars with 4 ½ inch IF connections</li> <li>- 30 – 6 ¼ inch Spiral drill collars with 4 ½ inch IF connections</li> <li>- 21- 4 ¾ inch Spiral drill collars with 3 ½ inch IF Connections</li> </ul>

ITEM	DESCRIPTION
<b>BLOW OUT PREVENTION EQUIPMENT:</b>	
Annular Preventer:	- 1 -13 5/8 inch x 5000 psi Annular Preventer
Ram Preventers:	- 1 -13 5/8 x 5000 psi Cameron double Ram Preventer
Drilling Spool:	- 1- 13 5/8 x 5000 psi drilling spool c/w 2- 4 1/16 5000 psi outlets
Choke Manifold:	- 1 - 5000 psi choke manifold c/w one manual and one auto choke with console
Accumulator:	- Valvcon 130 Gallon 6 station
<b>AUXILIARY TOOLS &amp; INSTRUMENTS:</b>	
1. Automatic Drill Recorder	- Martin Decker 5 Pen
2. Single shot Drift Recorder	- Totco 7°
3. Wire-line Unit (Hydraulic):	- 0.092 Line Rated for 4570m / (15,000 ft)
4. High Pressure Wash Gun (Pump):	- CAT w/ 3 H.P. Electric Motor
5. Sump Pump:	- FLYGT 4" (Electric)
6. Kelly Spinner:	- Foster 77 (Mckinney)
Kelly Bushing:	- Varco HDP Hex
7. Drill Pipe Spinner:	- Varco SSW 10
8. Rotary Hose:	- Goodall 75' x 3' ID x min 5000PSI Working Pressure
09. Kelly:	- 5-1/4" Hex – 40 ft long
Kelly Drive Bushing:	- Pin Drive
10. Fuel Tanks, One tank at rig	- 40,000 liter / Tank
11. Fuel Pumps:	- 2 – Electric Powered
12. Water Tanks, (Drilling Water Rig Storage):	- 1 Hydromatic Tank
	- 1-Rig Water Tank
Water Pumps:	- 2 – 3" Jacuzzi (Electric Powered)
13. Hand Tools:	- Complete set for rig, mechanic and electrician
14. One (1) Derrick Bunk	
15. One wellsite unit for Rig Manager	

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