



**CUSH COMMUNITY
RELIEF INTERNATIONAL (CCRI)**

DEPARTMENT OF WATER AND SANITATION

PAT-Drill

PAT 301, 301TP CCRI- SUDAN

DTH-Hammer and Rotary Drilling Machines



PAT-Drilling 301 or 301T is a compact and portable hydraulic drilling rig for both DTH-Hammer in rock formations, or rotary drilling in sedimentary deposits. This machine has a capacity to drill up to depths in excess of 100 meters. CCRI-has been licensed by the Ministry of Cooperative and Rural Development and Ministry of Water Resources and Irrigation, Government of Southern Sudan, Juba.



CCRI-Pat Drill 301T or Pat-Drill 301 TP is highly compact, mounted-on trailer hydraulic drilling rig, and move with any truck.

Water is Life for people! Therefore, Cush Community Relief International (CCRI)-Sudan integrates water and sanitation for programs in its strategic planning. Cush Community Relief International Sudan objective is to access safe drinking water to at least 75% of the Human and Livestock populations to a proxy distance of 3km or less by the end of 2008, within its program areas of operation.

Cush Community Relief International has been providing various services for a number of years which included provision of water of life and sanitation in the target communities in Jonglei State's Counties of Akobo, Uror and Nyirol, Southern Sudan. The PAT 301 was delivered in Early December 2007 to Waat Payam the head Office of CCRI in Central Lou Nuer.

Our drilling team is managed by Albert Otieno Ogeda ccri-drilling@cushcommunity.org

or **+256-477-147749 Sat +8821667504519** that organized the training with the support staff as drill instructor to give the new drill crew previously experienced in hand dug well construction for their first experience on a drilling machine.

Our major activities are as follows:

- A) Domestic water
 - i) Sink and Dig shallow wells
 - ii) Develop water tanks and jars to institutions and households
 - iii) Establish Water committees
 - iv) Train local artisans on maintenance techniques
 - v) Develop urban water system e.g. pipe/tap water, population to water consumption distribution
- B) Livestock water
 - i) Excavate earth dams and ponds
 - ii) Drinking troughs
 - iii) Establish water committee associations among common users
- C) Sanitation
 - i) Dig Ventilated Improved Pit latrines
 - ii) Safe refuse disposal mechanisms
 - iii) Training on water safety and environmental cleanliness/hygiene
 - iv) Water drainages

