A Swedish National Infrastructure for Scientific Drilling

Atlas Copco Christensen CT20 Core Drilling Rig

In November 2009, the Swedish Research Council (Vetenskapsrådet - VR) awarded Lund University and its co-applicants (from Uppsala University, Luleå University of Technology and Stockholm and Göteborg universities plus support by researchers from many other institutes) a grant of 25.8 MSEK (c. 2.75 M€) for buying,

implementing and running an infrastructure for deep core drilling. VR states that this infrastructure is a national resource which is managed and operated by the Department of *Engineering Geology* at Lund University to serve all Swedish universities and researchers.

Since the late 1970s, *Engineering Geology* at Lund University has taken part in or been responsible for drilling and well completion in c. 20 deep drilling operations.

Industry cooperation is welcome!

Technical data:

Depth capacity coring, based on vertical water filled hole.

P-size to around 1050 m, hole size 123 mm and core size 85 mm.

H-size to around 1600 m, hole size 96 mm and core size 63 mm.

N-size to around 2500 m, hole size 76 mm and core size 48 mm.

Weight: Complete rig, wet - 18000 kg

Dimensions on standard truck (length, width, height) during transport: 11500 x 2500 x 4150 mm

Available in-hole equipment:

Complete core assembly for PHD, HRQ and NRQ-sizes (see depth capacity above).

Both dual and triple tube for HRQ and NRQ-sizes.

Casing advancers (PW, HW, NW and BW)

Casing PWT, HWT, NW and BW

Bits and reamers

Additional equipment:

Mud cleaning and mixing system

<u>Contact:</u> Dr. Jan-Erik Rosberg

MWD-system (Measurements While Drilling) Cementing equipment Fishing tools (Bowen Spear) Blow Out Preventer (BOP) Deviation tools Wireline packers and more Department of Engineering Geology Lund University Box 118 SE-221 00 Lund email: jan-erik.rosberg@tg.lth.se



LUNDS UNIVERSITET Lunds Tekniska Högskola The researchers network "Scientific Drilling in the Nordic Countries" plans a workshop about the CT20 in 2012. Sign up here at the booth to receive the announcement.

