



PROJECT SITUATION REPORT

Project:	DISC Drill Test-Summit Greenland		
Project Manager:	Alex Shturmakov		
Report No:	8	For period:	6-12-06 through 6-17-06
Prepared by:	Jay Johnson	Date:	6-18-06

Weather Conditions: Temperature range -28°C to -8°C , wind 2 to 19 knots.

ICDS Personnel on Site:	Jay Johnson Kristina Dahnert Michael Jayred Bill Mason Nicolai Mortensen Paul Sendelbach Laurent Augustin John Robinson Scott Haman John Fowler
Other Personnel on Site:	

ACTIVITIES DURING PERIOD

- Personnel – On Wednesday Laurnet Augustin and John robinson left camp and John Fowler came in. John will be working with us until the end of the season.
- Drilling – This week we drilled a total of 175.933 meters. The bore hole depth is 458.543 meters. The average core length was 2.19 meters. The longest core drilled this week was 3.08 meters. The average core length we are able to drill has gone down as we have drilled deeper. We have been running each drill run until we loose penetration. The screens are full when a three meter core is drilled, but when we loose penetration with shorter cores it do to the head plugging only. The screens still have space in them for more chips. This week we have been experimenting with feeding the drill fast enough for the drill to ride on the shoes. When we do this the cable tension and motor current grafts smooth out. We have had the best luck drilling long cores by dropping about 1000n of tension off the crown sheave at the beginning of the drill run and holding that tension for the remainder of the run. We have been running the cutter between 60 and 90 rpm and the pump from 2000 to 3000 rpm during this weeks tests. Feed rates have ranged from 5 to 10 mm/s. Running the drill on the shoes has greatly reduced the number of fractured cores.
- Core dog cages – When the cutter head gets packed with chips the core dogs also get chips packed behind them so they can't retract when pushing the core out. To solve this problem I Milled a notch in each core dog cage so any chips that get packed behind them can be cleaned out or will push out of the

openings when the core is pushed out. This modification is working very well.

- Instrument section – The problems with getting the cutter motor to start lead to changing from instrument section K to J the beginning of this week. Section J initially ran better, but then we began having problems getting the pump motor to start. This is the same problem we were having with cutter motor and the K instrument section. Nicolai opened up the K instrument section and while looking for problems had the solder on side of a connector on the cutter motor controller board fall off. All eight solder joints on the connector were bad. He fixed the connector and we put this instrument section back in service. It has been working without problems since the fix. Current drill configuration is “A” anti-torque section, “K” instrument section, and “Z” motor section.
- Winch – The level wind on the winch continues to fault out now and then. We are typically tripping down hole at only .5 m/s to avoid having to restart a drill run do to the level wind faulting. The latest problem is that when you are in computer mode with the winch is tripping down hole and you tell it to stop it can take up to 30 meters for the winch to stop. Sometimes it will stop in less, but not predictably. Paul changed the deceleration rate parameter in the computer and the winch stops better now, but the problem isn't truly fixed.

COMMENTS

(Problems, Concerns, Recommendations, Etc.)