WISSARD BOREHOLE DRILL CONTRACTOR (WBDC)
DAILY REPORT FOR 16 DECEMBER 2012
USAP Event C-524-M

1) Health, Safety & Environment
   No reportable incidents.

2) McMurdo Operations
   • Personnel on Site:
     Frank Rack, Dar Gibson, Graham Roberts, Chad Carpenter, Daren Blythe, Justin Burnett, Jeff Lemery, Dennis Duling, Adam Melby, Robin Bolsey
   • Summary:
     Plumbing: Glycol system on Gen3 repaired by ASC plumber using thicker gaskets on the flange adapters.
     Electrical: Work on day fuel tank automated fill system begun.
     General: Science tool assembly hole melted using return water hose and an improvised drill stem/nozzle system that could be operated by hand (hole was made about 50 feet deep and took 30 minutes to an hour). A test hole was then made using the return water hose and the main drill stem to simulate starting a keyhole well. Water supply replenished via melt tank.

3) Upcoming Events/Tasking:
   • Address issues shown below; drill through the ice shelf.

4) General Issues:
   • A leak was discovered on the left side of the return water reel (the side w/ the ¾” hose for the hot water corer) that appears to be a flaw inherent in the machining of the plumbing in the reel axle. We initially tried to use this hose to make the science tool assembly hole but had to switch to the 1.25” return water hose instead.
   • Return water hose crescent is not aligned optimally to receive the return water hose coming off the reel. Solutions are being investigated.
   • UV light box not optimally situated to allow easy passage of objects downhole. Some modifications to the mounting system will be required.
5) **Weather Conditions**
   - Temperatures ranged between 30 and 40°F during the day. Cloudy and warm with calm winds.

6) **Vehicles/Generators**
   - Vehicles in use: Caterpillar 297 skid steer, Mattrack pickup.
   - Generators in use: Both large generators operational; one being used to power camp. One WISSARD 50 kW generator on hand as a backup (the other one is in town for maintenance); portable 3.5 kW and portable 1 kW from ASC.

7) **ASC Interfacing**
   - Two ASC electrician still on loan to help with electrical work.

8) **Cargo**
   - No cargo delivered to site today.

Compiled by Daren Blythe for the WISSARD drill team