



2nd July 00:00 – 2ndJuly 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.99783°N, 70.33337°W @12:00 EDT 2nd July IODP-MSP borehole M0112B Prospectus borehole MV-08AB

Water Depth: 41m

2. Operations Report

We continued to wait for the weather blow through which would allow us to run the casing safely. This happened early morning and the casing set temporarily at 28.2mbsf where two HPC cores were recovered. Drilling continued to the top of the next coring interval which was reached at 20:15 and coring continued to midnight.

3. Science Report

13 samples were taken on the 2nd of July for interstitial water, geochemistry, noble gas, microbiology and paleontology. Preparations continued for groundwater pump tests.

4. Core Recovery

Hole	M0112B
Cores recovered	6
Drilled length (Coring, m)	9.65
Drilled length (Open hole, m)	50.17
Recovered length (m)	7.8
Recovery (%)	81
Depth at midnight (mbsf)	59.82

5. Time Breakdown

00:00 - 08:30	Waiting on weather.
08:30 - 17:35	Run casing, run CHD string and HPC
17:35 - 19:25	Spot sample at prearranged depth
19:25 - 20:15	Drill with NCA to top of next spot coring interval
20:15 - 24:00	Core using HPC & ALN

6. Hours (inc. cumulative total) - no contractual implications can be made from these figures

In port	n/a
Transiting	n/a
Operating	15.5
Technical downtime	0
Weather downtime	8.5
Other downtime (specify)	0

7. Weather

Winds at 12 kts from the SW at 12:00. Wave height between 1 and 2m decreasing during the day. Visibility very poor with fog most of the day.

8. Planned Activity for the next 24 hours

Set casing at 64.74mbsf; add bentonite plug and core to clay at the top of the aquifer.

9. Health and Safety and Environmental

The upper decks were searched for stranded seabirds at sunrise. None were found.

10. Photo of the day



Figure 1 Expedition 501 team members (L-R) Bryce Mitsunaga (Boston), Sara Polanco (Australia), and Marisa Rydzy (Berlin) putting up directions home on the expedition signposts. STEWART@ECORD_IODP3_NSF_signs.