



3rd July 00:00 – 3rd July 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.99783°N, 70.33337°W @12:00 EDT 3rd July IODP-MSP borehole M0112B Prospectus borehole MV-08AB

Water Depth: 41m

2. Operations Report

Today we recovered two cores from the spot coring, finishing at 63.22mbsf. The remainder of the day was filled by setting the casing, priming the hole with a bentonite plug and waiting or that to set.

3. Science Report

18 samples were taken on the 2nd of July for interstitial water, geochemistry, noble gas, microbiology and paleontology. 10.88m of core was run through the MSCL.

4. Core Recovery

| Hole | M0112B |
|-------------------------------|--------|
| Cores recovered | 2 |
| Drilled length (Coring, m) | 3.4 |
| Drilled length (Open hole, m) | 1 |
| Recovered length (m) | 3.08 |
| Recovery (%) | 91% |
| Depth at midnight (mbsf) | 64.22 |

5. Time Breakdown

00:00 – 02:00 HPC & ALN coring.

02:00 – 14:50 Run casing over the CHD string to set within clay

14:50 – 17:15 Casing moved during CHD trip and so had to be straightened

17:15 – 20:10 Adding plug mix, pressurizing and adjusting the string and set at 64.22mbsf

20:10 – 24:00 Allowing the bentonite plug to set

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

| In port | n/a |
|--------------------------|-----|
| Transiting | n/a |
| Operating | 24 |
| Technical downtime | 0 |
| Weather downtime | 0 |
| Other downtime (specify) | 0 |

7. Weather

Winds at 8 kts from the SW at 12:00. Waves less than 1.5m. Visibility poor in the morning but clearing to around 1.5nm through the afternoon at points.

8. Planned Activity for the next 24 hours

Once the plug has set we will drill through it and take HPC/ALN cores from 82mbsf to identify where to set the packer for the pump test.

9. Health and Safety and Environmental

An abandon ship drill was held at 06:00 and all people on board accounted for.

The vessel were searched for stranded seabirds at sunrise. None were found.

10. Photo of the day



Figure 1 Testing out the setup for the groundwater manifold and pump. STEWART@ECORD_IODP3_NSF_manifoldtest.