



**Daily Drilling and Scientific Report for  
IODP3-NSF Expedition 501  
New England Shelf Hydrogeology, 2025**



**1<sup>st</sup> June 00:00 –1<sup>st</sup> June 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.8746°N, 70.2697°W @12:00 EDT 28th of May  
IODP-MSP borehole M0111B  
Prospectus borehole MV-03C  
Water Depth: 42m

**2. Operations Report**

Pumping tests continued, with tests 4,5, and 6, with the formation isolated from below 272 mbsf. The pumping tests provided increasingly better recovery rates. Pumping tests 4 and 5 were interrupted due to lack of hydraulic head at the pump level. Test 6 sustained a stable flowrate that enabled the cleaning of the borehole and samples to be taken. Sample-taking initiated at 21:00 and continued past midnight.

**3. Science Report**

15 samples were taken and analysed on the 1<sup>st</sup> of June for physical properties, interstitial water geochemistry, micropaleontology and microbiology.

**4. Core Recovery**

<b>Hole</b>	M0111B
<b>Cores recovered</b>	25
<b>Drilled length (Coring, m)</b>	47.8 m
<b>Drilled length (Open hole, m)</b>	n/a
<b>Recovered length (m)</b>	31.1 m
<b>Recovery (%)</b>	65%
<b>Depth at midnight (mbsf)</b>	281.53 m

**5. Time Breakdown**

00:00 - 20:00 Tests 4 & 5 conducted at 269 mbsf  
21:00 - 24:00 Test 6 conducted maintaining steady flow, sampling continued past midnight

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

<b>In port</b>	n/a
<b>Transiting</b>	n/a
<b>Operating</b>	24 hr
<b>Technical downtime</b>	0
<b>Weather downtime</b>	0
<b>Other downtime (specify)</b>	0

**7. Weather**

Winds moderated over the day from 18 to 15 kt and shifted from the WSW to SW, with southerly swells up to 2.5 m, dropping to 1.5 m. Visibility was clear.

**8. Planned Activity for the next 24 hours**

Conclude sample taking from pump test  
Condition the borehole  
Core ahead from 281 mbsf

**9. Health and Safety and Environmental**

A man overboard drill was conducted by the ship in which all on board took part.

#### 10. Photo of the day



*Figure 1: The team on Night Shift running the pump test, and successfully extracting low salinity water from the aquifer.*