



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



**30<sup>th</sup> June 00:00 – 30<sup>th</sup> June 24:00 East Daylight Time (UTC -4)**

**1. Location**

Position 40.9976°N, 70.3334°W @12:00 EDT 30<sup>th</sup> of June  
IODP-MSP borehole M0112A  
Prospectus borehole MV-08A  
Water Depth: 41m

**2. Operations Report**

Downhole logging of the borehole was completed in two sections by raising the casing by 30m after lifting the main casing after the PVC casing was removed from the hole. This process took longer than expected, possibly due to the bentonite plug as well as formation collapse around the casing. PVC casing was replaced in the hole before the upper section was logged, following which all material was removed from the hole, the drill floor dismantled and tied down in preparation for moving to a new location. Preparations were finished by midnight.

**3. Science Report**

All processing of samples from Hole M0112A was completed on the 30<sup>th</sup>, and all cores were run through the MSCS and initial data processing completed. Downhole logging continued throughout the day until 18:50 resulting in a 4 complete toolstrings for M0112A from 28 mbsf to 326 mbsf. Tools runs included DIL (Dual induction), SGR (spectral gamma) and HMI (Hostile Magnetic Induction), SGR and NMR (Nuclear Magnetic Resonance) and yesterday's Gamma through the CHD pipe. Logging data is being processed to produce a preliminary offshore dataset.

**4. Core Recovery**

<b>Hole</b>	M0112A
<b>Cores recovered</b>	n/a
<b>Drilled length (Coring, m)</b>	n/a
<b>Drilled length (Open hole, m)</b>	n/a
<b>Recovered length (m)</b>	n/a
<b>Recovery (%)</b>	n/a
<b>Depth at midnight (mbsf)</b>	n/a

**5. Time Breakdown**

00:00 – 03:30 Run SGR+NMR.  
03:30 – 06:00 Trip out PVC casing  
06:06 – 14:00 Trip out 30m casing  
14:00 – 14:50 Run PVC casing to 124m below bump stop  
14:50 – 18:50 Complete logging of upper section of the borehole with all 3 strings.  
18:50 – 19:30 Trip out PVC casing  
19:30 – 24:00 Trip out casing, lower the drill mast, clean and tie down rig & CHD

**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
<b>Technical downtime</b>	0
<b>Weather downtime</b>	0
<b>Other downtime (specify)</b>	0

## 7. Weather

Winds from WSW 3 kts at 12:00. Wave heights less than 1m. Fog with generally poor visibility (0-0.25nm). Winds increasing in the evening to 7-9 kts.

## 8. Planned Activity for the next 24 hours

Await OSV Gaspee with relief boat crew, transit to new location, MV-08AB, and conduct and complete set up procedure to allow safe operations. Commence drilling operations per Operational Sequence 18.

## 9. Health and Safety and Environmental

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

Reminder to stay aware of deck changes and crane operations during logging. Made team aware that transiting to begin after 00:00 on the 1<sup>st</sup> and that no access to the main deck or working areas will be permitted.

## 10. Photo of the day



*Figure 1 Captain Alan Atkinson at the bridge on the 30<sup>th</sup> on the last day of this rotation on the LB Robert. Yakutchik@ECORD\_IODP3\_NSF\_captain.*