



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



29th June 00:00 – 29th June 24:00 East Daylight Time (UTC -4)

1. Location

Position 40.9976°N, 70.3334°W @12:00 EDT 29th of June
IODP-MSP borehole M0112A
Prospectus borehole MV-08A
Water Depth: 41m

2. Operations Report

Following a period of hole conditioning when a tight spot was encountered and a zone of exceptionally hard sands, the Hole M0112A was completed to a depth of 328.71mbsf. Preparations were made to carry out downhole logging with three runs (Gamma through the CHD pipe; DIL (Dual induction) and SGR (spectral gamma) & HMI (Hostile Magnetic Induction) completed before midnight.

The OSV Gaspee arrived at 20:00 with 8 members of the X501 team transferring onto the LB Robert. 6 team members transferred off.

3. Science Report

5 samples were taken during the 29th of June for interstitial water, geochemistry and paleontology. 4.7m of core were run through the MSCL, completing the scanning for Hole M0112A.

4. Core Recovery

Hole	M0112A
Cores recovered	3
Drilled length (Coring, m)	4.7
Drilled length (Open hole, m)	n/a
Recovered length (m)	2.08
Recovery (%)	44%
Depth at midnight (mbsf)	328.71 (end of hole)

5. Time Breakdown

00:00 – 02:45 Conditioning the borehole.
02:45 – 05:55 Advancing borehole using the Alien corer. Hole M0112A complete at 05:55.
05:55 – 08:05 Set up logging deck; reposition the logging winch, run cables, install sheaves, attach tool, flush the hole with mud etc.
08:05 – 12:05 Running gamma tool to measure through the CHD pipe
12:05 – 16:00 Running the pvc casing
16:00 – 24:00 Run DIL and SGR & HMI strings and commence SGR & NMR run

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 from WSW 11kts at 12:00. Wave heights around 1m. Fog with zero visibility in the morning, clearing somewhat by 17.30.

8. Planned Activity for the next 24 hours

Complete the logging programme; trip all casing out of the hole and reposition the boat on MV-08B.

9. Health and Safety and Environmental

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

X501 team members coming onboard received safety induction and tour of the ship.

10. Photo of the day



Figure 1 Physical Properties Specialist Andrew McIntyre, and Expedition Operations Managers Adam Wspanialy and Graham Tulloch discuss logging and drilling strategies while Expedition Project Managers Raushan Arnhardt and Margaret Stewart prepare for X501 team transfers in the ESO office container. LEBER@ECORD_IODP3_NSF_drilling_coordination.