



Daily Drilling and Scientific Report for IODP Expedition 313 New Jersey Shallow Shelf

16th June 2009 (0240 - 2400, local time)

1. Location

Hole MAT-2D (Hole M0028A).

Time zone: US Eastern Time, UTC -4

Position at midnight:

Latitude: 39° 33.94279' N

Longitude: 73° 29.83481' W

2. Activity summary

Hole was flushed and reamed, before through-HQ pipe logging (spectral gamma and VSP).

3. Science report

With coring finished at this hole, we began logging operations. The first run was spectral gamma ray through the HQ pipe from TD up to 390 mbsf, where spectral gamma data had been collected through the PQ pipe several days ago. The data quality was excellent, and confirmed the assignment of the major lithologic boundaries we had derived from the cores, core catchers and multi-track core logger data. The VSP data were acquired through the HQ pipe from TD up to the base of the PQ pipe at 404 mbsf. Preliminary results showed excellent first arrivals up to 610 mbsf, but above that depth reverberations thought to derive from the pipe suddenly overwhelmed the signal. We plan tomorrow to run a second VSP over the same interval but in open-hole.

4. Core recovery details

N/A

5. Weather

Sea swell 2-3 ft; E winds 10 kt; mainly dry; 19°C.

Next 24 hrs: sea swell 3-5 ft; E winds 10-15 kt (gusting 20 kt); dry; 18°C.