

Daily Drilling and Scientific Report for IODP/ICDP Expedition 364
Chicxulub Impact Crater 2016



3rd May 00:00 - 24:00 CDT (UTC -5)

1. Location

Position 21 Deg 27.009' N, 89 Deg 56.962' W
IODP-MSP borehole M0077A
Prospectus borehole Chix-03B
Water Depth: 19.8 m

2. Operations Report

Started running in pipe after completing essential drill rig maintenance. Reached base of hole and started coring. Upon recovering core to deck, fragments of the drill bit were found in the core liner indicating the bit had worn in places. Tripped pipe to recover BHA. Decision made to case, cement the borehole and step down to a standard PQ3 size to improve efficiency of coring. Casing the hole continued through the remainder of the day.

3. Science Report

A single core was recovered comprising a melt-rich impact breccia, similar to previous cores.

4. Core Recovery Details

Hole	M0077A
Cores recovered	1
Drilled length (Coring, m)	2.55
Drilled length (Open hole, m)	0
Recovered length (m)	1.97
Recovery (%)	77
Depth at midnight (mbsf)	701.64

5. Time Breakdown

00:00 Maintenance of the drill rig continues
01:00 Running pipe
03:25 Start coring
07:35 Core on deck
07:40 Tripping pipe
14:00 Recovered BHA
15:00 Start running casing
00:00 Running casing continued

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

In port	13.0
Transiting	3.0
Operating	532
Technical downtime	124
Weather downtime	0.0
Other downtime (specify)	0.0

7. Weather

Fair, sunny, good visibility, wave heights of 0.3 – 0.5 m; wind N 10 Kts, Temperature 21-31°C.

8. Planned Activity for the next 24 hours

Continue running casing, cement and wait for cement to cure before running in pipe.

9. Health and Safety and Environmental

N/A

10. Photo of the day



Image: MMowat©ECORD_IODP.