

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



8<sup>th</sup> Apr 00:00 - 24:00 CDT Central Daylight Time (UTC -5)

**1. Location**

Position 21° 27.009' N, 89° 56.962' W (awaiting final verification)  
IODP-MSP borehole M0077A  
Prospectus borehole Chix-03A  
Water Depth: 17m

**2. Operations Report**

After completing running the guide casing to seabed, the open hole bit was run to seabed and drilling commenced. Drilling mud returned to deck through the temporary guide casing sitting on the seabed. This allowed cuttings to be sampled at regular intervals. Upon completion the drill string at 5.5m below sea floor was tripped and a 9 5/8" casing was run in the hole.

**3. Science Report**

N/A

**4. Core Recovery Details**

|                               |     |
|-------------------------------|-----|
| Hole                          | N/A |
| Cores recovered               | N/A |
| Drilled length (Coring, m)    | N/A |
| Drilled length (Open hole, m) | N/A |
| Recovered length (m)          | N/A |
| Recovery (%)                  | N/A |
| Depth at midnight (mbsf)      | N/A |

**5. Time Breakdown**

03:30 Casing complete to seabed and start to assemble open hole bit assembly with 12 ¼ inch tricone  
13:42 Tag seabed and start drilling, drill cuttings collected at intervals.  
15:50 Drilling complete to 15.5m BSF  
19:10 Drill string recovered, start to prepare 9 5/8" casing.  
24:00 6<sup>th</sup> length of casing run

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

|                          |      |
|--------------------------|------|
| In port                  | 13.0 |
| Transiting               | 3.0  |
| Operating                | 79.0 |
| Technical downtime       | 1.0  |
| Weather downtime         | 0.0  |
| Other downtime (specify) | 0.0  |

**7. Weather**

Fair, sunny, good visibility, wave heights of 0.3 – 0.5 m; winds variable NE 10 – 25 kts, gusting 14 – 25 kts; Temperature 21-26°C.

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

Continue with running casing to seabed, followed by cementing.

**10. Health and Safety and Environmental**

N/A

11. Photo(s) of the day



Photograph by Dave Smith © ECORD/IODP  
Removal of 12 ¼" Tricone drill bit, after making the hole for the conductor casing.