

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



**12<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 - provisional

**2. Operations Report**

The day started with lowering the drill pipe to an interval in the borehole that was previously cemented to improve mud circulation and cuttings removal. Good mud returns were achieved, and drilling continued for the rest of the day. By midnight, drilling had reached 229 m below sea floor (mbsf). During the day, the supply boat visited the L/B Myrtle and brought additional ESO personnel, logging engineers, food and fuel. The Science Party will join the vessel once 500 m below sea floor is reached, when coring will begin.

**3. Science Report**

N/A

**4. Core Recovery Details**

<b>Hole</b>	M0077A
<b>Cores recovered</b>	N/A
<b>Drilled length (Coring, m)</b>	N/A
<b>Drilled length (Open hole, m)</b>	229
<b>Recovered length (m)</b>	N/A
<b>Recovery (%)</b>	N/A
<b>Depth at midnight (mbsf)</b>	229

**5. Time Breakdown**

00:00 Running pipe  
04:35 Start to drill through cement plug 82m BSF  
06:30 Loose circulation,  
08:50 Continue drilling with careful drilling plan  
24:00 Drilling progressing well at 229m

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

<b>In port</b>	13.0
<b>Transiting</b>	3.0
<b>Operating</b>	175.0
<b>Technical downtime</b>	1.0
<b>Weather downtime</b>	0.0
<b>Other downtime (specify)</b>	0.0

**7. Weather**

Fair, sunny, good visibility, wave heights of 0.3 – 1.0 m; winds variable NE 15 kts, gusting 25kts; Temperature 21-26°C.

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

Continue with open hole drilling to 500m and POOH.

**10. Health and Safety and Environmental**

N/A

11. Photo of the day



Photograph by Dave Smith © ECORD/IODP.