



1
00:00:00,000 --> 00:00:01,501
(music throughout) Like boot prints on the Moon,

2
00:00:01,501 --> 00:00:05,338
NASA's OSIRIS-REx spacecraft left its mark on asteroid Bennu.

3
00:00:05,338 --> 00:00:08,174
Now, new images — taken during the spacecraft's

4
00:00:08,174 --> 00:00:14,114
final fly-over on April 7, 2021 — reveal the aftermath of the historic feat.

5
00:00:14,114 --> 00:00:18,451
The spacecraft flew within 3.7 km of the asteroid —

6
00:00:18,451 --> 00:00:24,324
the closest it has been since the Touch-and-Go, or TAG, sample collection event on October 20, 2020.

7
00:00:24,324 --> 00:00:29,462
During TAG, the spacecraft's sampling head sunk 48.8 centimeters

8
00:00:29,462 --> 00:00:34,667
into the asteroid's surface and simultaneously fired a pressurized charge of nitrogen gas,

9
00:00:34,667 --> 00:00:39,572
churning up surface material and driving it into the collection chamber.

10
00:00:39,572 --> 00:00:43,243
Four of the spacecraft's back-away thrusters launched rocks and dust

11
00:00:43,243 --> 00:00:48,314
during the maneuver as OSIRIS-REx pushed back off into space.

12
00:00:48,314 --> 00:00:53,186
Multiple sub-meter boulders were mobilized by the thrusters into a campfire,

13
00:00:53,186 --> 00:00:57,991

ring-like shape – similar to rings of boulders seen around small craters pocking the surface.

14

00:00:57,991 --> 00:01:02,562

The spacecraft will remain in Bennu's vicinity until departure on May 10,

15

00:01:02,562 --> 00:01:05,598

when the mission will begin its two-year return cruise back to Earth.