1
00:00:02,669 --> 00:00:11,330
Hi, I’m Louise Jandura, sample system chief
engineer and I’m here with your Curiosity

2
00:00:11,330 --> 00:00:15,190
rover report.
This was a great week for Curiosity. We got

3
00:00:15,190 --> 00:00:19,690
to see something we’ve all been waiting
for quite some time: sample in the scoop confirming

4
00:00:19,690 --> 00:00:23,390
that our first drill on Mars collected as
we had expected.

5
00:00:23,390 --> 00:00:26,680
This was an important event as this is the
first time the drill has been used on Mars

6
00:00:26,680 --> 00:00:30,250
to collect sample for analysis by instruments
on the rover.

7
00:00:30,250 --> 00:00:36,679
We use these computer-generated images to
help us visually identify how much we’ve

8
00:00:36,679 --> 00:00:42,440
collected. We were able to estimate that we
collected about 14 cubic centimeters of sample,

9
00:00:42,440 --> 00:00:46,920
or about a tablespoon, and this matched our
expectations of what we would see in the scoop

10
00:00:46,920 --> 00:00:50,469
when we got to this point.\h
Our drilling capability gives us the ability

11
00:00:50,469 --> 00:00:54,699
to get inside this rock. The first thing you
notice about the material\his that it’s

12
00:00:54,699 --> 00:00:59,649
a different color. Gray not the reddish orange
color on the surface all around us. That reddish

13
00:00:59,649 --> 00:01:04,549
orange color is a sign of an iron oxidation.
A kind of rusting\hprocess that’s occurred

14
00:01:04,549 --> 00:01:08,380
all around on Mars
Since we’ve been at Yellowknife Bay, Curiosity

15
00:01:08,380 --> 00:01:13,759
has done more than a 100 MAHLI images and
more than 12,000 laser shots. You can see

16
00:01:13,759 --> 00:01:18,560
the telltale laser grid patterns from the
Chemcam in this image. Additionally, you can

17
00:01:18,560 --> 00:01:23,289
see a fine grain structure of this rock\hindicating\heither
a mudstone or a siltstone.

18
00:01:23,289 --> 00:01:27,969
The next steps for the team are to finish
processing\hthe sample with Chimera and then

19
00:01:27,969 --> 00:01:33,350
put small portions into the SAM and Chemin
instruments for analysis of chemistry and