



Jennifer Trospen

Curiosity Rover Deputy Project Manager

1
00:00:08,810 --> 00:00:06,680
hi I'm Jennifer trois / the deputy

2
00:00:12,339 --> 00:00:08,820
project manager on the Curiosity rover

3
00:00:15,770 --> 00:00:12,349
and this is your Curiosity rover report

4
00:00:17,779 --> 00:00:15,780
we landed on Mars over 1 Mars year ago

5
00:00:20,689 --> 00:00:17,789
with the purpose of studying Mount sharp

6
00:00:22,450 --> 00:00:20,699
we've driven six miles to get to the

7
00:00:24,560 --> 00:00:22,460
base of this incredible mountain

8
00:00:26,120 --> 00:00:24,570
exploring the foothills of Mount sharp

9
00:00:29,060 --> 00:00:26,130
is like turning a history book page by

10
00:00:30,560 --> 00:00:29,070
page as we look at each layer we want to

11
00:00:32,089 --> 00:00:30,570
know what formed and deposited these

12
00:00:34,220 --> 00:00:32,099
layers and how are they related to each

13
00:00:36,080 --> 00:00:34,230

other we also want to understand the

14

00:00:38,810 --> 00:00:36,090

potential for organic preservation in

15

00:00:40,400 --> 00:00:38,820

each of these layers in preparation for

16

00:00:42,200 --> 00:00:40,410

drilling we did some testing here in the

17

00:00:44,030 --> 00:00:42,210

Mars yard to understand how changing

18

00:00:46,490 --> 00:00:44,040

some of our drill parameters could help

19

00:00:48,200 --> 00:00:46,500

us be more effective at drilling softer

20

00:00:50,900 --> 00:00:48,210

and more breakable rocks like the ones

21

00:00:53,240 --> 00:00:50,910

we see at Pahrump Hills we perform a

22

00:00:54,590 --> 00:00:53,250

mini drill on an adjacent Rock usually

23

00:00:56,720 --> 00:00:54,600

to understand the properties of the

24

00:00:59,330 --> 00:00:56,730

material we'll be drilling then we do a

25

00:01:00,979 --> 00:00:59,340

full drill and if we confirm the sample

26

00:01:02,869 --> 00:01:00,989

won't clog our sample collection system

27

00:01:05,539 --> 00:01:02,879

the next step is to transfer it to the

28

00:01:07,370 --> 00:01:05,549

instruments for analysis since it's such

29

00:01:09,320 --> 00:01:07,380

an interesting location we expect to

30

00:01:12,620 --> 00:01:09,330

spend several weeks here systematically

31

00:01:14,300 --> 00:01:12,630

studying the rocks layer by layer this