



1
00:00:06,690 --> 00:00:04,590
this is the largest and highest

2
00:00:09,540 --> 00:00:06,700
resolution panorama the Curiosity rover

3
00:00:12,360 --> 00:00:09,550
has ever taken it's made up of almost

4
00:00:16,140 --> 00:00:12,370
1200 individual images taken over four

5
00:00:18,839 --> 00:00:16,150
days the rover's body is too close for

6
00:00:20,640 --> 00:00:18,849
the mass Cam's telephoto lens but we

7
00:00:23,580 --> 00:00:20,650
were able to capture the rover using the

8
00:00:26,140 --> 00:00:23,590
other mastcam lens the higher resolution

9
00:00:27,650 --> 00:00:26,150
version is nearly 1.8 billion pixels

10
00:00:30,419 --> 00:00:27,660
[Music]

11
00:00:32,670 --> 00:00:30,429
what I love about this panorama is that

12
00:00:35,549 --> 00:00:32,680
we can zoom way in and see details far

13
00:00:37,260 --> 00:00:35,559

in the distance when you start to do

14

00:00:39,209 --> 00:00:37,270

that you can see the rim of the crater

15

00:00:45,479 --> 00:00:39,219

we're inside out all the way to the

16

00:00:47,450 --> 00:00:45,489

north here's an impressive sight 20

17

00:00:50,849 --> 00:00:47,460

miles away is slang post crater just

18

00:00:53,759 --> 00:00:50,859

inside Gale craters rim and to end

19

00:00:56,700 --> 00:00:53,769

slang post is three miles wide something

20

00:00:58,560 --> 00:00:56,710

huge must have struck here whenever I

21

00:01:00,900 --> 00:00:58,570

start to think that Mars looks familiar

22

00:01:02,549 --> 00:01:00,910

sights like this dramatic impact crater

23

00:01:04,850 --> 00:01:02,559

remind me that we're looking at a

24

00:01:07,170 --> 00:01:04,860

different planet

25

00:01:08,899 --> 00:01:07,180

curiosity is exploring a clay bearing

26

00:01:11,340 --> 00:01:08,909

region on the side of a mountain

27

00:01:13,520 --> 00:01:11,350

this ancient landscape was the site of

28

00:01:16,170 --> 00:01:13,530

lakes and streams billions of years ago

29

00:01:25,490 --> 00:01:16,180

they left their clues in the finely

30

00:01:30,470 --> 00:01:28,100

this crumbling cliff is the edge of the

31

00:01:32,180 --> 00:01:30,480

green hue pediment it's a vast sheet of

32

00:01:34,430 --> 00:01:32,190

rock draped over the side of a mountain

33

00:01:36,050 --> 00:01:34,440

it must have formed after the lakes

34

00:01:38,570 --> 00:01:36,060

disappeared and the mountain took its

35

00:01:43,850 --> 00:01:38,580

present shape did it once extend even

36

00:01:46,310 --> 00:01:43,860

farther out curiosity looks a bit like

37

00:01:48,800 --> 00:01:46,320

an abstract painting here that's because

38

00:01:50,720 --> 00:01:48,810

this is a 360-degree perspective the

39

00:01:53,720 --> 00:01:50,730

image is warped like looking through a

40

00:01:58,460 --> 00:01:53,730

fish-eye lens you can make out some

41

00:02:02,350 --> 00:01:58,470

amazing details on the rover itself this

42

00:02:05,240 --> 00:02:02,360

is the shadow of curiosity's mast

43

00:02:08,359 --> 00:02:05,250

here's rad an instrument that detects

44

00:02:10,370 --> 00:02:08,369

radiation from the Sun and space thanks

45

00:02:14,540 --> 00:02:10,380

to rad we have a better idea of how to

46

00:02:16,699 --> 00:02:14,550

protect future astronauts on Mars why

47

00:02:19,790 --> 00:02:16,709

are their severed tubes and wires on the

48

00:02:21,470 --> 00:02:19,800

rover these tubes were part of the fluid

49

00:02:23,060 --> 00:02:21,480

cooling system that circulated

50

00:02:24,550 --> 00:02:23,070

throughout the spacecraft that flew the

51

00:02:27,410 --> 00:02:24,560

rover to Mars

52

00:02:31,420 --> 00:02:27,420

these wires were like an umbilical cord

53

00:02:34,790 --> 00:02:31,430

for data they were cut during landing in

54

00:02:39,170 --> 00:02:34,800

spite of all the dust our Sun Dial still

55

00:02:43,130 --> 00:02:39,180

tells us to explore trailing behind the

56

00:02:45,979 --> 00:02:43,140

rover you can see our tracks including

57

00:02:48,320 --> 00:02:45,989

where we climbed up a hill even after

58

00:02:53,060 --> 00:02:48,330

seven years on Mars curiosity is not

59

00:02:55,840 --> 00:02:53,070

done making tracks yet panoramas like

60

00:02:59,720 --> 00:02:55,850

this are like a window to another world