



1
00:00:00,600 --> 00:00:03,970
Mars. August 2012.

2
00:00:04,003 --> 00:00:06,572
[whooshes and pops]

3
00:00:06,605 --> 00:00:08,775
[rockets firing]

4
00:00:08,808 --> 00:00:11,811
[cheers]

5
00:00:11,844 --> 00:00:15,348
Five years ago Curiosity
landed safely on Mars.

6
00:00:15,381 --> 00:00:18,217
Curiosity's assignment:

7
00:00:18,250 --> 00:00:21,721
explore a layered mountain
inside Gale Crater

8
00:00:21,754 --> 00:00:25,391
to learn if ancient Mars was
capable of supporting life.

9
00:00:26,659 --> 00:00:29,629
Curiosity has driven
over 10 miles,

10
00:00:30,429 --> 00:00:33,399
returned over 200,000 images,

11
00:00:36,302 --> 00:00:39,272
drilled 15 rock samples,

12
00:00:41,807 --> 00:00:44,777

and even took a few selfies.

13

00:00:47,279 --> 00:00:50,216

What has Curiosity found?

14

00:00:52,718 --> 00:00:55,688

Rounded pebbles that hint
of an ancient river.

15

00:00:58,224 --> 00:01:01,194

And a delta, where a river
emptied into an ancient lake.

16

00:01:03,562 --> 00:01:06,532

Lakes spanned the crater floor,

17

00:01:09,034 --> 00:01:12,472

leaving mud that built the
lower part of the mountain,

18

00:01:12,505 --> 00:01:14,407

inch by inch.

19

00:01:14,440 --> 00:01:17,410

The lakes came and went,
and eventually dried up.

20

00:01:19,812 --> 00:01:22,782

But groundwater persisted,
leaving minerals behind.

21

00:01:25,284 --> 00:01:28,955

Though constantly changing,
Gale Crater was habitable

22

00:01:28,988 --> 00:01:30,656

for millions of years.

23

00:01:30,689 --> 00:01:32,959

Three billion years later,

24

00:01:32,992 --> 00:01:36,162

a thinner atmosphere
keeps Mars dry and cold.

25

00:01:36,195 --> 00:01:39,165

Winds shape sand into
ripples and dunes,

26

00:01:41,734 --> 00:01:44,704

and dust devils swirl
across the landscape.

27

00:01:47,173 --> 00:01:50,476

Curiosity also has
monitored radiation

28

00:01:50,509 --> 00:01:52,612

from the sun and space...

29

00:01:52,645 --> 00:01:54,447

to help plan for the day

30

00:01:54,480 --> 00:01:57,116

when astronauts enjoy
this same Martian view.

31

00:02:03,656 --> 00:02:05,291

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