



1  
00:00:09,320 --> 00:00:06,309

[Music]

2  
00:00:11,240 --> 00:00:09,330

it's been seven years since the rover's

3  
00:00:13,640 --> 00:00:11,250

landed on Mars this was originally a

4  
00:00:15,860 --> 00:00:13,650

90-day mission only three months the

5  
00:00:17,920 --> 00:00:15,870

fact that they lasted this long and

6  
00:00:21,650 --> 00:00:17,930

driven this far was a nobody's

7  
00:00:24,170 --> 00:00:21,660

imagination opportunity is crossed

8  
00:00:26,689 --> 00:00:24,180

almost 26 kilometers of the dama tree

9  
00:00:36,130 --> 00:00:26,699

and it's still in very good health but

10  
00:00:44,619 --> 00:00:39,979

opportunities and kind of a desert trek

11  
00:00:48,170 --> 00:00:44,629

mode ever since we've left Victoria

12  
00:00:50,900 --> 00:00:48,180

opportunity now is located at Santa

13  
00:00:52,700 --> 00:00:50,910

Maria crater it's one of the freshest

14

00:00:55,670 --> 00:00:52,710

craters that either Rovers had a chance

15

00:00:58,460 --> 00:00:55,680

to explore and there's also evidence of

16

00:01:01,490 --> 00:00:58,470

some hydrated sulfate minerals around

17

00:01:04,369 --> 00:01:01,500

the southeast corner of this crater they

18

00:01:07,810 --> 00:01:04,379

can only form when there's been water

19

00:01:10,969 --> 00:01:07,820

along for a really long period of time

20

00:01:12,469 --> 00:01:10,979

the next big adventure for that rover

21

00:01:14,570 --> 00:01:12,479

and that's to get to Endeavour crater

22

00:01:17,510 --> 00:01:14,580

which is a giant crater that's still

23

00:01:19,460 --> 00:01:17,520

some six kilometers away from where the

24

00:01:24,290 --> 00:01:19,470

rover is right now we're trying to do a

25

00:01:26,300 --> 00:01:24,300

balance of driving as fast as we can but

26

00:01:29,389 --> 00:01:26,310

making sure we don't miss anything

27

00:01:32,270 --> 00:01:29,399

critical as we drive endeavours such a

28

00:01:35,330 --> 00:01:32,280

large crater we might start seeing rocks

29

00:01:37,760 --> 00:01:35,340

ejected from Endeavour well before we

30

00:01:40,490 --> 00:01:37,770

get there that's our next big objective

31

00:01:43,280 --> 00:01:40,500

because we know there are these clay

32

00:01:46,130 --> 00:01:43,290

minerals present in the rim of Endeavour

33

00:01:49,510 --> 00:01:46,140

crater that is suggestive of ancient

34

00:01:52,609 --> 00:01:49,520

water on Mars that was a neutral pH

35

00:01:55,550 --> 00:01:52,619

neutral water is what astrobiologists

36

00:01:57,499 --> 00:01:55,560

assess that life started in and so the

37

00:01:59,719 --> 00:01:57,509

fact that there is evidence of ancient

38

00:02:01,850 --> 00:01:59,729

neutral water on Mars is very exciting

39

00:02:05,200 --> 00:02:01,860

for the viable potential of the planet

40

00:02:07,690 --> 00:02:05,210

it's an exciting time