



1
00:00:00,000 --> 00:00:06,610

[Music]

2
00:00:11,089 --> 00:00:09,110

this enhanced color Mosaic from the

3
00:00:13,009 --> 00:00:11,099

perseverance Rover on Mars allows our

4
00:00:16,250 --> 00:00:13,019

team to walk right into the scene in

5
00:00:21,290 --> 00:00:18,830

this is a combination of images taken by

6
00:00:25,189 --> 00:00:21,300

mass cam Z so it's incredibly rich in

7
00:00:29,870 --> 00:00:27,050

the blue sky is an indication of the

8
00:00:31,609 --> 00:00:29,880

enhancement we have done to the image

9
00:00:34,190 --> 00:00:31,619

fewer on Mars everything would appear

10
00:00:36,290 --> 00:00:34,200

pink including the sky

11
00:00:37,850 --> 00:00:36,300

by enhancing the image we make it easier

12
00:00:53,630 --> 00:00:37,860

for the science team to use our everyday

13
00:00:57,590 --> 00:00:54,950

the mountains that you see in the

14

00:00:59,270 --> 00:00:57,600

background are the rim of the crater

15

00:01:14,450 --> 00:00:59,280

they're more than half a mile high and

16

00:01:17,870 --> 00:01:16,190

that Canyon was carved by a river about

17

00:01:19,249 --> 00:01:17,880

three and a half billion years ago when

18

00:01:19,800 --> 00:01:19,259

the climate of Mars was very different

19

00:01:21,890 --> 00:01:19,810

from today

20

00:01:23,929 --> 00:01:21,900

[Music]

21

00:01:26,149 --> 00:01:23,939

the cliff-like brown Hills you see here

22

00:01:28,429 --> 00:01:26,159

are more evidence of that River these

23

00:01:30,410 --> 00:01:28,439

are part of the delta when the river hit

24

00:01:31,770 --> 00:01:30,420

Lake jezero its mud and sand were

25

00:01:35,109 --> 00:01:31,780

deposited on the crater floor

26

00:01:36,890 --> 00:01:35,119

[Music]

27

00:01:38,690 --> 00:01:36,900

one of the most scientifically

28

00:01:40,789 --> 00:01:38,700

interesting aspects of this Mosaic is

29

00:01:42,350 --> 00:01:40,799

this whitish area here which the science

30

00:01:44,569 --> 00:01:42,360

team has been calling the bacon strip

31

00:01:45,889 --> 00:01:44,579

based on its appearance

32

00:01:47,929 --> 00:01:45,899

we think this is a layer of mud

33

00:01:49,010 --> 00:01:47,939

deposited on the lake Bottom now turn to

34

00:01:50,929 --> 00:01:49,020

rock

35

00:01:52,249 --> 00:01:50,939

that mud layer is important because it

36

00:01:54,050 --> 00:01:52,259

may be the best place to look for

37

00:01:55,350 --> 00:01:54,060

evidence of Martian life that could have

38

00:01:58,190 --> 00:01:55,360

lived in Lake Jezreel

39

00:02:00,050 --> 00:01:58,200

[Music]

40

00:02:01,249 --> 00:02:00,060

the large Boulders on the Delta are

41

00:02:03,950 --> 00:02:01,259

another interesting Target for

42

00:02:05,690 --> 00:02:03,960

investigation by perseverance

43

00:02:07,730 --> 00:02:05,700

The Boulders very likely washed down

44

00:02:09,529 --> 00:02:07,740

from far up the river channel from

45

00:02:11,869 --> 00:02:09,539

places too far away for the Rover to

46

00:02:18,770 --> 00:02:11,879

ever go they're a gift that allows us to

47

00:02:22,430 --> 00:02:19,910

as soon as we're done with our

48

00:02:24,050 --> 00:02:22,440

investigation on the crater floor

49

00:02:26,089 --> 00:02:24,060

smaller rocks like these which we think

50

00:02:29,449 --> 00:02:26,099

are volcanic we'd like to move quickly

51
00:02:32,869 --> 00:02:31,430
but unfortunately perseverance has to

52
00:02:37,550 --> 00:02:32,879
take a longer route to void these sand

53
00:02:47,990 --> 00:02:44,030
[Music]

54
00:02:49,369 --> 00:02:48,000
mosaics like this one help us learn more

55
00:02:51,050 --> 00:02:49,379
about the ancient Martian environment

56
00:02:53,330 --> 00:02:51,060
and provide new Clues to where to seek

57
00:02:55,130 --> 00:02:53,340
evidence of ancient microbial life we're

58
00:02:57,390 --> 00:02:55,140
just getting started on our long journey