

1
00:00:08,870 --> 00:00:07,269

hi

2
00:00:10,870 --> 00:00:08,880

i'm ashley stroup one of the rover

3
00:00:12,870 --> 00:00:10,880

drivers for spirit and opportunity

4
00:00:15,190 --> 00:00:12,880

i'm here in the surface mission support

5
00:00:16,870 --> 00:00:15,200

area where we do all of our analysis of

6
00:00:17,510 --> 00:00:16,880

the data that the rovers send back every

7
00:00:19,510 --> 00:00:17,520

day

8
00:00:20,870 --> 00:00:19,520

and i'm here to give you an update on

9
00:00:22,470 --> 00:00:20,880

our rovers

10
00:00:24,550 --> 00:00:22,480

now that spirit has completed her

11
00:00:27,189 --> 00:00:24,560

studies of home plate and silica valley

12
00:00:29,509 --> 00:00:27,199

and survived the long cold winter the

13
00:00:30,070 --> 00:00:29,519

scientists want her to travel on to two

14

00:00:31,910 --> 00:00:30,080

interesting

15

00:00:33,430 --> 00:00:31,920

science features in the south they're

16

00:00:35,750 --> 00:00:33,440

called bonbron hill

17

00:00:37,110 --> 00:00:35,760

and the depression goddard they're

18

00:00:38,950 --> 00:00:37,120

thought to be remnants of ancient

19

00:00:41,190 --> 00:00:38,960

volcanic activity

20

00:00:42,950 --> 00:00:41,200

the shortest distance to these features

21

00:00:43,670 --> 00:00:42,960

is due south across the top of home

22

00:00:45,910 --> 00:00:43,680

plate

23

00:00:47,830 --> 00:00:45,920

but that is requiring spirit to do the

24

00:00:50,310 --> 00:00:47,840

very difficult task of climbing up the

25

00:00:51,750 --> 00:00:50,320

30 degree hill that she's parked on

26

00:00:53,990 --> 00:00:51,760

we weren't sure that spirit would be

27

00:00:55,510 --> 00:00:54,000

able to make this difficult climb

28

00:00:57,590 --> 00:00:55,520

but in hopes of the rover would once

29

00:00:57,990 --> 00:00:57,600

again surprise us we made the first

30

00:01:01,510 --> 00:00:58,000

attempt

31

00:01:03,830 --> 00:01:01,520

on october 22nd saw 1709.

32

00:01:06,070 --> 00:01:03,840

spirit in fact defied the odds and

33

00:01:07,670 --> 00:01:06,080

climbed eight centimeters up that hill

34

00:01:09,910 --> 00:01:07,680

on her very first try

35

00:01:12,310 --> 00:01:09,920

meanwhile opportunity has completed an

36

00:01:13,109 --> 00:01:12,320

amazing two-year campaign at victoria

37

00:01:17,590 --> 00:01:13,119

crater

38

00:01:19,109 --> 00:01:17,600

kilometers to the southeast and that

39

00:01:22,070 --> 00:01:19,119

journey will take her more than

40

00:01:23,350 --> 00:01:22,080

one year to complete she has begun this

41

00:01:25,030 --> 00:01:23,360

journey in earnest

42

00:01:28,870 --> 00:01:25,040

and we had our last view of victoria

43

00:01:30,789 --> 00:01:28,880

crater about two weeks ago on sol 1683

44

00:01:32,870 --> 00:01:30,799

winds have helped to keep opportunity

45

00:01:34,469 --> 00:01:32,880

solar panels relatively clean

46

00:01:35,910 --> 00:01:34,479

that with the increase in power that

47

00:01:38,710 --> 00:01:35,920

we're getting from the sun

48

00:01:39,270 --> 00:01:38,720

is enabling her to make long drive each

49

00:01:41,350 --> 00:01:39,280

day

50

00:01:42,550 --> 00:01:41,360

we're averaging more than 60 meters and

51

00:01:45,590 --> 00:01:42,560

sometimes getting more than

52

00:01:47,670 --> 00:01:45,600

200 meters this greatly improves her

53

00:01:49,749 --> 00:01:47,680

chances of getting to endeavour

54

00:01:51,590 --> 00:01:49,759

now with victoria far out of sight

55

00:01:53,270 --> 00:01:51,600

opportunity is driving through some

56

00:01:55,510 --> 00:01:53,280

amazing edge terrain

57

00:01:56,789 --> 00:01:55,520

and is now surrounded by beautiful sand

58

00:01:59,350 --> 00:01:56,799

ripple

59

00:02:00,550 --> 00:01:59,360

so for the near future both spirit and

60

00:02:01,670 --> 00:02:00,560

opportunity are going to be

61

00:02:03,510 --> 00:02:01,680

concentrating

62

00:02:05,510 --> 00:02:03,520

on driving towards their next science

63

00:02:06,469 --> 00:02:05,520

goal of course we will stop here and

64

00:02:08,389 --> 00:02:06,479

there as we find

65

00:02:10,150 --> 00:02:08,399

interesting science targets along the