



SAMPLE 1: ROUBION

Type: Atmospheric

Location: Polygon Valley, Crater Floor



1
00:00:00,060 --> 00:00:02,830

[Music]

2
00:00:06,950 --> 00:00:05,570

sample one is called rubion it's an

3
00:00:08,509 --> 00:00:06,960

atmospheric sample that we picked up

4
00:00:10,129 --> 00:00:08,519

from a place called polygon Valley in

5
00:00:12,230 --> 00:00:10,139

the crater floor

6
00:00:14,749 --> 00:00:12,240

rubion is our one and only atmospheric

7
00:00:17,210 --> 00:00:14,759

sample so in this case the rock itself

8
00:00:18,650 --> 00:00:17,220

was old and altered and it kind of

9
00:00:20,750 --> 00:00:18,660

crumbled as we were picking up the

10
00:00:22,970 --> 00:00:20,760

sample and so when things don't go

11
00:00:24,769 --> 00:00:22,980

according to plan we improvise and we

12
00:00:27,170 --> 00:00:24,779

try to still get good signs out of it so

13
00:00:28,790 --> 00:00:27,180

in this case now we have a capture of

14

00:00:30,349 --> 00:00:28,800

just the air that was around there and

15

00:00:31,910 --> 00:00:30,359

that's also a valuable sample that we

16

00:00:33,350 --> 00:00:31,920

didn't have before learning about the

17

00:00:35,389 --> 00:00:33,360

atmosphere is important because that

18

00:00:37,310 --> 00:00:35,399

tells us what the elements and chemicals

19

00:00:38,630 --> 00:00:37,320

are that are in the air on Mars which is

20

00:00:40,549 --> 00:00:38,640

really different than Earth and it's

21

00:00:42,350 --> 00:00:40,559

different than Mars was in the past and

22

00:00:43,850 --> 00:00:42,360

so we can do the same sorts of analyzes

23

00:00:46,250 --> 00:00:43,860

that you could do on rocks to understand

24

00:00:47,750 --> 00:00:46,260

what makes up the air what makes these

25

00:00:49,850 --> 00:00:47,760

two planets so similar but so different

26

00:00:51,470 --> 00:00:49,860

the rocks are one part of the story the

27

00:00:52,250 --> 00:00:51,480

air around the Rocks is another part of

28

00:00:54,470 --> 00:00:52,260

the story

29

00:00:56,689 --> 00:00:54,480

we decided to drop rubion in our backup

30

00:00:59,810 --> 00:00:56,699

sample Depot at Three Forks

31

00:01:01,990 --> 00:00:59,820

there are not many ways to capture air