



## SAMPLE 12 & 13: HAZELTOP & BEARWALLOW

Type: Sedimentary

Location: Wildcat Ridge, Delta Fan

1  
00:00:02,350 --> 00:00:01,250

[Music]

2  
00:00:05,390 --> 00:00:02,360

foreign

3  
00:00:07,849 --> 00:00:05,400

number 12 is called hazeltop sample

4  
00:00:09,530 --> 00:00:07,859

number 13 is called bear wallow this was

5  
00:00:12,410 --> 00:00:09,540

a pair of samples collected from the

6  
00:00:13,549 --> 00:00:12,420

Wildcat Ridge outcrop at the Delta front

7  
00:00:15,650 --> 00:00:13,559

[Music]

8  
00:00:17,930 --> 00:00:15,660

this sample pair represents a

9  
00:00:19,790 --> 00:00:17,940

fine-grained mudstone it's a really

10  
00:00:22,070 --> 00:00:19,800

fine-grained sedimentary rock that was

11  
00:00:24,170 --> 00:00:22,080

deposited in an ancient Lake because of

12  
00:00:26,150 --> 00:00:24,180

the fine grain size of this rock we

13  
00:00:28,490 --> 00:00:26,160

think it has a higher potential to

14

00:00:31,130 --> 00:00:28,500

preserve signs of ancient life

15

00:00:32,990 --> 00:00:31,140

hazeltop was my favorite because if you

16

00:00:35,209 --> 00:00:33,000

look at the images looking inside the

17

00:00:37,069 --> 00:00:35,219

sample tube from the core sample you can

18

00:00:39,709 --> 00:00:37,079

actually see a little mineral vein in

19

00:00:41,389 --> 00:00:39,719

the Rock the rocks will fracture and

20

00:00:43,130 --> 00:00:41,399

then water will pass through them and

21

00:00:45,350 --> 00:00:43,140

leave behind mineral veins in the rocks

22

00:00:46,910 --> 00:00:45,360

and so you can actually see evidence of

23

00:00:48,529 --> 00:00:46,920

a small little mineral vein which is

24

00:00:50,990 --> 00:00:48,539

really neat we also think that we cord

25

00:00:53,690 --> 00:00:51,000

into a concretion which is direct

26

00:00:56,330 --> 00:00:53,700

evidence of ancient interaction with

27

00:00:57,950 --> 00:00:56,340

water on Mars

28

00:00:59,869 --> 00:00:57,960

Hazel top is actually a little bit

29

00:01:02,029 --> 00:00:59,879

smaller than bear wallow but because of

30

00:01:04,310 --> 00:01:02,039

the potential for the concretions and

31

00:01:05,929 --> 00:01:04,320

the vein in the hazelt sample we decided

32

00:01:07,429 --> 00:01:05,939

to keep that one on board and instead we

33

00:01:09,530 --> 00:01:07,439

dropped the bare wallow sample in the

34

00:01:10,609 --> 00:01:09,540

three Fork sample Depot it's got a lot

35

00:01:12,350 --> 00:01:10,619

of good stuff in there and I'm really