

April 20, 1971

Mr. Francis West
P.O. Box 134
Glendale, Oregon 97442

Dear Mr. West:

Our microscope work on the green translucent portion of the sample you left on Monday, indicates that it may well be nephrite. An x-ray diffraction determination would help to confirm this; but we do not have this type of equipment. If you are able to find some more quality material (jade), we would like to visit the occurrence and can probably make arrangements to get an x-ray analysis.

If it turns out to be nephrite, it will be of some academic as well as possible commercial interest.

Sincerely,

Len Ramp
Resident Geologist

LR:rep

Mrs. Clinton A. Halstead
P.O. Box 135 Azalea, Oregon 97410
Phone 837-5281

*See AFG-28
+ ltr to Dr. Staples 00-4/30/71*

May 3, 1971

Mr. Francis West
P.O. Box 134
Glendale, Oregon 97442

Dear Mr. West:

This is a correction regarding the green mineral I wrote to you about on April 20.

We had a spectrographic analysis made that shows it is made up of sodium and calcium silicates. Additional testing shows that although it is very tough and compact like nephrite, the hardness is no greater than 5 or $5\frac{1}{2}$. The specific gravity is 2.87. All of these properties indicate that the mineral may be pectolite.

I sent a small chunk to the University of Oregon for possible x-ray determination and if we get any positive results from them, we will let you know.

Although the material takes a nice polish, its inferior hardness would limit its use as a "gemstone" and it can not be classified as jade.

Sincerely,

Len Ramp
Resident Geologist

LR:rp
cc: C.A. Halstead
P.O. Box 135
Azalea, Oregon 97410

April 30, 1971

Dr. Lloyd W. Staples
Department of Geology
University of Oregon
Eugene, Oregon 97403

Dear Lloyd:

We have an unknown mineral that may well be a zeolite, or perhaps pectolite (?). The spectrographic analysis shows mainly a calcium, sodium silicate. It has an index of circa 1.61, specific gravity of 2.87 and hardness of about 5. Under the microscope it is massive fibrous aggregate. It takes a nice polish and acts much like a soft nephrite.

It occurs as clots and cavity fillings in an altered gabbro (?) dike in serpentinite. Can you help us out on this one? If it turns out to be interesting or unusual we can get you larger specimens. It is from the Cow Creek area near Glendale.

Sincerely,

Len Ramp
Resident Geologist

LR:rp

UNIVERSITY OF OREGON



Department of Geology

EUGENE, OREGON 97403
telephone (code 503) 686-4573

May 25, 1971

Len Ramp
Resident Geologist
Department of Geology
and Mineral Industries
521 N. E. "E" Street
Grants Pass, Oregon 97526

Dear Len,

Sorry to have been so slow in checking the interesting mineral you sent to me. The x-ray diffraction pattern is definitely pectolite.

I am interested in your finding pectolite in place because it is practically unknown in Oregon. I found it in the bar gravel at Agness but I didn't know the source of it. I would be pleased to have some specimens for our collection.

Best regards,

Lloyd W. Staples
Professor of Geology

lp