

**DEPARTMENT OF
GEOLOGY AND MINERAL INDUSTRIES**

ADMINISTRATIVE OFFICE

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Portland

July 8, 1970

*MTF
week days*

Mr. Norman V. Peterson
State Assay Laboratory
Grants Pass, Oregon

Dear Norm:

Harry Carson says that if you write to George Reynolds at the Toketee Ranger Station at Roseburg, he will be willing to guide you to the melt holes at Mt. Bailey.

Harry also remarked that they had marked the sites with blue and white ribbons so I assume you should have no difficulty in locating these fumaroles.

Best regards.

Sincerely yours,

Andy

Raymond E. Corcoran
State Geologist

REC:jr

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Toketee Route, Box 101
Idlewild Park, Oregon 97447



*Put in a request
for classes.*

REPLY TO:

1560 State and Local Agencies

May 15, 1970

SUBJECT:

Volcanic Activity on Mt. Bailey

TO:

Mr. Norm Peterson
State of Oregon
Department of Geology and Mineral Industries
P.O. Box 417
Grants Pass, Oregon 97526



*John Davis
replaced
Harry Carson*

This amplifies our telephone conversation about possible fumaroles on Mt. Bailey. For the past several winters we have been checking snow depths for the future ski area. Melt holes in the snow have been observed in November, 1964, and the spring of 1969 and 1970. (We paid no attention in 1964, as snow was not deep and there were also bare rocks on the wind-swept ridges).

The accompanying photos were taken on April 1, 1969. We found three holes on the northwest slope at approximately 6,500' elevation. There was an air flow from the bottom of the largest hole at 38° F. Free air temperature above the snow was 34° F.

On the ground surface at the hole's bottom were basaltic appearing rocks with a small amount of lichens and moss on their surface. In summer the area appears as an outcropping of basaltic rocks with no surface vegetation.

I contacted the ski club members who saw holes this spring. Apparently they are at the same location. We plan to mark the holes so that you may make an investigation next summer, if you desire. The club also reports holes in the snow above the crater south of the summit. I have not seen these—they may be normal spring melting around large rocks.

There is a periodic outflow of cool air from a dry well on the northwest corner of Diamond Lake. A "stream" vent also shows up on cold mornings up road 2614 from this ranger station. These spots are also marked on the enclosed map.

Harry B. Carson
HARRY B. CARSON
Acting District Ranger

*Mt Hood
Hood River Dist.*