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## STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

702 WOODLARK BUILDING  
PORTLAND 5, OREGON

January 30, 1948

Mr. Harold Wolfe  
State Assay Laboratory  
Box 417  
Grants Pass, Oregon

Dear Harold:

Your two samples from the Dutch Ledge Mine have been examined with the following results:

#1 - Foot wall rock (P-6935)

Dominant minerals:  
feldspar (albite)  
chlorite ( and some epidote)  
quartz (very little)

All somewhat coated with calcite. Also some calcite impregnations.


This is a metamorphic rock and probably represents a low form of metamorphism of a basic lava. It could be called a meta volcanic or, if you wanted to get technical, an albite-chlorite schist.

#2 - Sample of talc (P-6934)

This is undoubtedly a talc, or rather a soapstone. However, I got an index of refraction on it higher than that given for talc.  $n = \text{circa } 1.64$  and  $\text{circa } 1.60$ . I've given this to Tom for a spec to see if anything shows up, but I doubt if there will. This sample had very little magnetite in it but did have a very minor amount of pyrite. I've turned some of the ground material over to Al Bartell, of the Nonmetallics Survey, to see if he can do anything with it.

Will write you further about the proposed survey on placer gravels next week.

Best regards,

  
H. M. Dole, Geologist (???)

HMD:de

(over)