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NAME OF PROPERTY

Washoe
3
Antelope Group

Curtis Matthews and W.A. Miller
Fort Bidwell, California

(316)
Item 1

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LOCATION

Lone Pine Mining District, Washoe County, Nevada, about 67 miles from Alturas, California.

GEOLOGY

Areal geology consists of a series of andesites and andesite tuffs overlain in places by basalt. The original horizontal bedding has been complicated by some faulting and in addition has been obscured by alteration accompanying the ore deposition. The most abundant rocks are a gray mottled andesite porphyry, often bleached and kaolinized, and a white or buff colored tuff with obscure structure but apparently overlying a mottled andesite.

Cinnabar occurs along one well-defined shear zone in andesite and as "paint" on fractures in the andesite and tuff. Its distribution is quite erratic. On the low hills north of the developed area are remnants of opalite, probably deposited by now vanished hot springs. Local gullies contain much opalite float, although little of this float material is found in the andesite or the tuff. It may be possible that the cinnabar was brought in by the same solutions that deposited the opalite and that the deposits now exposed are the pipelike roots of old hot spring channels. Sampling clearly reveals that the deposits are not widespread and are local and low in grade, averaging about two pounds of mercury per ton.

DEVELOPMENT

Development consists of a number of pits and trenches, one incline shaft about 60 feet deep, and a vertical shaft about 40 feet deep.