



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WASHINGTON 25. D. C.

August 19, 1952

RECEIVED
AUG 2 1952

JUNEAU, ALASKA

PROPERTY OF DOGS LIBRARY

Mr. P. R. Holdsworth, Commissioner Territorial Dept. of Mines Box 2811 Juneau, Alaska

Dear Mr. Holdsworth

Transmitted herewith for placement on open file in your office is a copy of a by-pass open file report entitled "Quicksilver deposit near Aleknagik, Nushagak district, southwestern Alaska," by W. M. Cady.

As indicated in the enclosed press release the release date for this report has been set for August 25 and the report should not be made available to the public prior to that time.

Sincerely yours,

George M. Flint, Jr. Geologist-in-Charge

george on flut

Alaskan Geology Branch

Washington Office

Enclosure

Quinkmilver deposit mear Aleknegik, Mushagak district, southwestern Alaska

by

Vallage H. Cady

S. S. Geological Survey

This report is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nemerolature.

Quickeilmer deponit mear Alphmegik, Hunhegek district, nouthmeatern Alaska

by

Wallace M. Cady

V. S. Geological Survey

The deposit here described is an March Hountain, three miles due cost of the willage of Aleknagik (Hosquite Peint), mear the feet of Wood River Lakes (see fig. 1). Hursh Hountain 1/ is comprised of a group of peaks

1/ Mortie, J. B. Jr., The Mushagak district, Alaska: U. S. Ocol. Servey Bull. 903, pl. 2, 1938.

arranged in a herseshee pattern around the bagin of Aronna Greak, which flows southeastered and then mestered joining Wood River about six miles downstream from the labor (see fig. 2). Wood River is a navigable stream which flows south into Muchagek Bay man the small seaport of Dillingham. The principal immestry in the vicinity is fishing. Mining has been of little or no importance in the past. Cinneber float was recognized in the Aronna Greak by Frank Washey in 1962, and he uncovered the lade in September 1962. He and his two partners, Clarence Wenn and Charles Welfe have operated the claim since that time. The U. S. Geological Survey first investigated the geology of this part of the Hushagek district in 1935 2. The field investigation reported here was conducted during the first week of October 1962.

² op. eis. (Bull. 903)

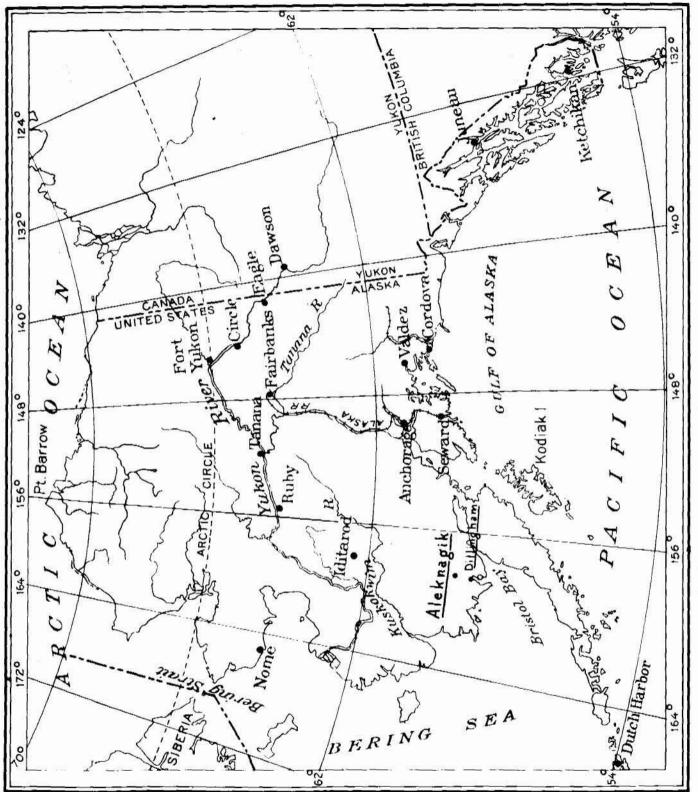
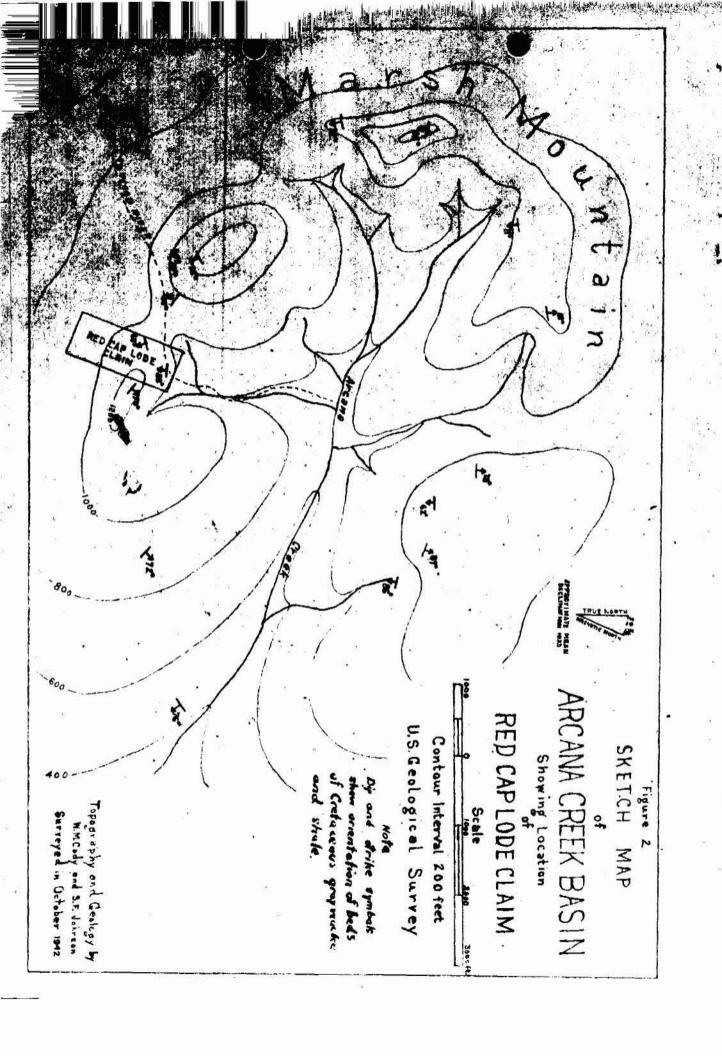


Figure 1. Index map of Alaska showing location of Aleknagik



the indding of Crotecoous grayunches and shales. The circular lies stratigraphically below flat modular names of vain calcite a few inches thick and
a feet or two in disputer distributed roughly parallel to the bedding along
certain boribins. The mearest known ignorus rooks are grantes expended in
the Makking Mills about sown siles to the martheast.

The And Cop Lade is on the billistic scathwest of Arcana Creek at an elevation of about 1,000 feet above see level, a little below the crust of the ridge between Arcana Creek and Wood River. The Ledy has been expected by head-troubling at intervals across the strike of the bedreak. The frust-menthered symptemism, about four feet think, contains element float. This float extends down the Mill about half a mile to the flood plain deposite of Arcana Greek, from which considerable simmler has been recovered by paneling. Here the Greek floors at an altitude of about 600 feet.

Propositive have in place has been preven at the Red Cap leds. The prospective have ignated through a bedding vain one to four inches thick that strings R. 65° M. peralial to the hillards and dips 36 degrees south into the hill (see fig. 3). About 10 cable fact of one were removed from this vain. Three pounds of the era were treated by the author in an analysis retert and gialded one pound of quickgilver. It is believed souther pound was lost in the speciality process. Preliminary imposition indicated a guide of shout 60 persons of quickgilver for the voin material. In the course of the demication by the dealogical dervey souther out was made in strate about 10 fact stantigraphically below the above mentioned voin, and another voin containing one of comparable grade use expensed. These voice are in a finatured some about 300 fact vide which is iron stained and which contains such substant. This same appears to extend about a claim length couth to a point

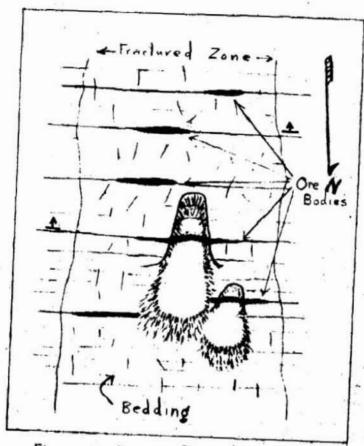


Figure 3. Diagramatic sketch of fractured zone on Red Cap lode claim showing distribution of ore bodies in the zone and their relation to bedding.

so 25 som

beyond the erest of the ridge and trends roughly perpendicular to the strike of the medianniary resist. Nost of the very abundant flest classeer comes.

from player interpoliting this fractured none.