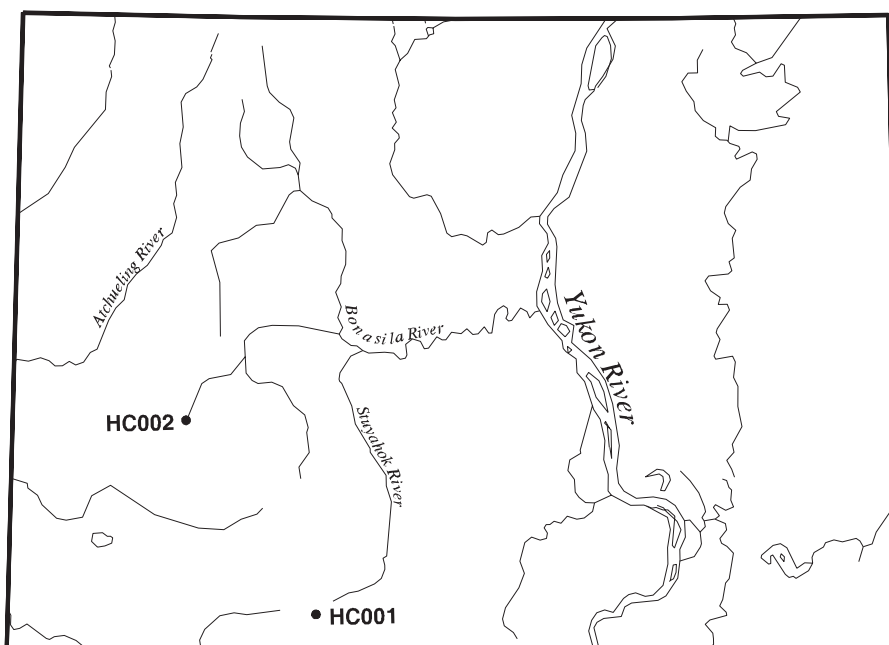


U.S. Department of the Interior - U.S. Geological Survey

Holy Cross quadrangle

Descriptions of the mineral occurrences shown on the accompanying figure follow. See U.S. Geological Survey (1996) for a description of the information content of each field in the records. The data presented here are maintained as part of a statewide database on mines, prospects, and mineral occurrences throughout Alaska.



*Distribution of mineral occurrences in the Holy Cross
1:250,000 quadrangle, southwest Alaska*

This and related reports are accessible through the USGS World Wide Web site <http://www-mrs-ak.wr.usgs.gov/ardf>. Comments or information regarding corrections or missing data, or requests for digital retrievals should be directed to the author(s) of the compilation:

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Site: Stuyahok River Gold**Type:** Mine**ARDF no.** HC001**Latitude:** 62.06083**Quadrangle:** HC A-4**Longitude:** 160.96420**Location description and accuracy:**

USGS MF-376, Loc. 2. Location is at Stuyahok Mines symbol on Holy Cross A-4 topographic map.

Main commodities: Au**Other commodities:** Hg**Ore minerals:** Gold; cinnabar**Gangue minerals:****Geologic description:**

The area is underlain mainly by andesitic to dacitic flows and agglomerates, andesitic and felsic tuffs, volcanoclastic sandstones and siltstones, and graywacke of the Jurassic and Lower Cretaceous Koyukuk terrane. Scattered throughout the area are younger (Tertiary ?) felsic and mafic dikes which cut the older rocks. A complete geologic description of the Stuyahok area is available in USGS Open-File Report 96-505-A (Miller and others, 1996)

Alteration:**Workings/Exploration:**

Surface: Hydraulic and dragline methods used.; Drilling and sampling was done in gold placer deposits in 1994 by a crew from Calista Corporation and in 1995 by the USGS and Calista Corporation. A cut was leased and mined from 1994 through 1996.

Age: Tertiary/Quaternary**Deposit model:**

Placer; modern stream, bench(?)

Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):

39a

Production: Yes: small**Status:** Active**Production notes:**

Cobb (1973) estimated production at 23,000 - 30,000 oz. of Au. Mined from 1921-1940.

Reserves:**Additional comments:****References:**

Harrington, 1918, p. 56; Cobb, 1973, p. 106; Cobb, 1972, loc. 1; Cobb, 1976, p. 64; Swainbank and others, 1995, p. 12, 33.; Miller and others, 1996

Primary reference: Miller and others, 1996**Reporter:** Miller, M.L.; Keith, W.J.**Reporter affiliation:** USGS**Last report date:** 8/29/96

Site: Wolf Creek Mtn.**Type:** Occurrence**ARDF no.** HC002**Latitude:** 62.36389**Quadrangle:** HC**Longitude:** 161.41170**Location description and accuracy:**

USGS MF-376, Loc. 1. 0.2 mi. SW of point 1104 at NW end of Wolf Creek Mtn.; about 55 miles NW of Holy Cross, near head of Little Lockwood Creek; Accurate within 0.25 mi. radius

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar, Stibnite**Gangue minerals:****Geologic description:**

Thin films of drusy cinnabar with small blebs of stibnite occur in hydrothermally altered rhyolite. Rhyolite intrudes Cretaceous and/or Tertiary basalt and andesite.

Alteration:

Hydrothermal alteration

Workings/Exploration:

Surface sampling only

Age:**Deposit model:**

lode: disseminated epithermal mercury-antimony

Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):

27

Production: No**Status:** Inactive**Production notes:****Reserves:****Additional comments:**

Found by J.M. Hoare and W.H. Condon while geologic mapping in 1962.

References:

U.S. Geological Survey, 1963, p. A5; Berg and Cobb, 1967, p. 195, 198; Cobb, 1972, loc. 1; Cobb, 1976, p. 65.

Primary reference: Berg and Cobb, 1967, p. 195, 198.**Reporter:** Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 5/31/94

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