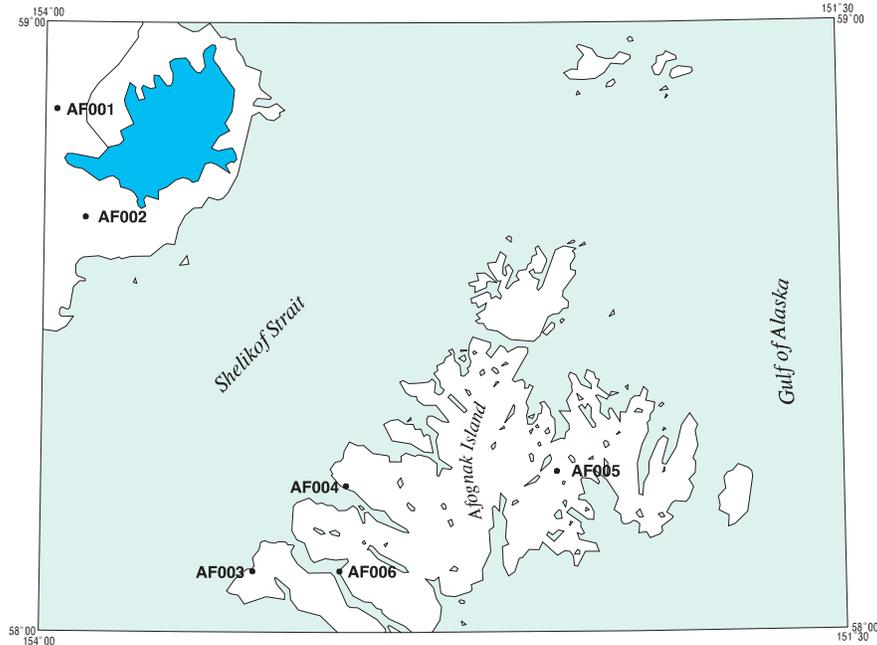


## U.S. Department of the Interior - U.S. Geological Survey

### Afognak quadrangle

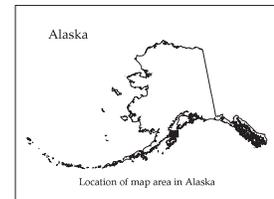
Descriptions of the mineral occurrences shown on the accompanying figure follow. See U.S. Geological Survey (1996) for a description of the information content of each field in the records. The data presented here are maintained as part of a statewide database on mines, prospects and mineral occurrences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



*Distribution of mineral occurrences in the Afognak  
1:250,000-scale quadrangle, 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 Donald J. Grybeck, USGS, 4200 University Dr., Anchorage, AK 99508-4667, email [dgrybeck@usgs.gov](mailto:dgrybeck@usgs.gov), telephone (907) 786-7424. This compilation is authored by:

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*This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.*



**Site name(s): Wm. Douglas Group****Site type:** Prospect**ARDF no.:** AF001**Latitude:** 58.857**Quadrangle:** AF D-6**Longitude:** 153.964**Location description and accuracy:**

This site represents a large claim block noted on U.S. Bureau of Mines maps in 1973. It is located west of the Douglas River and centered in sec. 21, T. 15 S., R. 28 W. (MacKevett and Holloway, 1977, locality 4; Church and others, 1992, sheet 1, locality 10).

**Commodities:****Main:** Au ?**Other:** Ag ?**Ore minerals:****Gangue minerals:****Geologic description:**

No significant mineralization was found during a brief reconnaissance of the area (Church and others, 1992); however, some quartz veining and disseminated pyrite has been noted in the general area (Church and others, 1994). Some potential for polymetallic veins exists. Jurassic and Cretaceous sedimentary rocks underlie the claims. A small Tertiary intrusive has been tentatively mapped approximately 2 miles east of the site location as plotted.

**Alteration:****Age of mineralization:****Deposit model:**

Polymetallic vein ? (Cox and Singer, 1986; model 22c).

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

22c

**Production Status** None

**Site Status:** Inactive

**Workings/exploration:**

**Production notes:**

**Reserves:**

None.

**Additional comments:**

Site is in Katmai National Park.

**References:**

U.S. Bureau of Mines, 1973; MacKevett and Holloway, 1977; Church and others, 1992;  
Church and others, 1994.

**Primary reference:** Church and others, 1992

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 08/11/98

**Site name(s): Big River****Site type:** Occurrence**ARDF no.:** AF002**Latitude:** 58.68**Quadrangle:** AF C-6**Longitude:** 153.87**Location description and accuracy:**

This site is northeast of the Big River on an unnamed tributary in sec. 26, T. 17 S., R. 28 E. (Church and others, 1992, sheet 1, locality 11). The location is accurate to within 1/2 mile.

**Commodities:****Main:** Cu**Other:** Ag, Au, Mo, Pb, Zn**Ore minerals:** Chalcopyrite, molybdenite, pyrite, sphalerite**Gangue minerals:** Quartz**Geologic description:**

At this site quartz-sulfide veins and disseminated sulfides occur in an altered Tertiary plug exposed in a creek drainage. Pyrite, chalcopyrite, sphalerite, and molybdenite are present in quartz veins up to 6 centimeters in width. Metal values run to greater than 20,000 ppm copper, and up to 2000 ppm zinc, 200 ppm lead, 200 ppm silver, 200 ppm cobalt, 100 ppm molybdenite, and 1.1 ppm gold (Church and others, 1994, table 15). Bedrock in this general area consists of sedimentary units of the Kaguyak Formation (Late Cretaceous) and sill-like and crosscutting Tertiary intrusive bodies of tonalite and granodiorite.

This site occurs within a broad zone of geochemical anomalies located southwest of Fourpeaked Mountain and northeast of the mouth of Big River. Within this zone many silt samples are anomalous in arsenic, cobalt, copper, lead, and zinc (Church and others, 1994). Panned concentrates contain arsenopyrite, barite, chalcopyrite, pyrite, scheelite, sphalerite, and wulfenite. The site is also within a smaller zone of silts which are anomalous in boron, molybdenum, and tungsten.

**Alteration:**

The intrusive rock at this site exhibits argillic and quartz-sericite alteration associated with abundant quartz veining.

**Age of mineralization:**

The mineralization is associated with a small Late Tertiary stock.

**Deposit model:**

Polymetallic vein, concealed porphyry copper or porphyry copper-molybdenum (Cox and Singer, 1986; models 22c, 17, 21a).

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

22c, 17, 21a

**Production Status** None**Site Status:** Inactive**Workings/exploration:**

Samples were collected and analyzed by the U.S. Geological Survey.

**Production notes:****Reserves:****Additional comments:**

Site is located in Katmai National Park.

**References:**

Church and others, 1992; Riehle and others, 1993; Church and others, 1994.

**Primary reference:** Church and others, 1994**Reporter(s):** S.H. Pilcher (Anchorage)**Last report date:** 08/11/98

**Site name(s): Raspberry Beach****Site type:** Mine**ARDF no.:** AF003**Latitude:** 58.1**Quadrangle:** AF A-5**Longitude:** 153.34**Location description and accuracy:**

This site is the beach at Drivers Bay on the northwest coast of Raspberry Island (Cobb, 1972, MF 468, locality 2; Cobb, 1973, Bulletin 1374, figure 11, locality 6; MacKevett and Holloway, 1977, locality 2). The beach is approximately 1/2 mile long and probably has been placered at various locations.

**Commodities:****Main:** Au**Other:****Ore minerals:** Gold**Gangue minerals:****Geologic description:**

This site was first mentioned by Brooks (1915, p. 47) who reported that low grade placer gold had been found on Raspberry Island. The latest reported activity took place in 1935. The deposition of beach placer gold is thought to have resulted from the reworking of coastal deposits of glacial gravels and tills.

**Alteration:****Age of mineralization:**

Quaternary

**Deposit model:**

Gold placer (Cox and Singer, 1986; model 39a).

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

39a

**Production Status** Yes; small

**Site Status:** Inactive

**Workings/exploration:**

In 1935 it was reported that 2 or 3 men were prospecting and mining here. Some drilling was done on valley gravels located between Raspberry Beach and Onion Bay to test the viability of a dredge operation (Capps, 1937, p. 172). Results were apparently poor and the drill project was abandoned.

**Production notes:**

A small amount of gold was produced but no records are available.

**Reserves:**

**Additional comments:**

**References:**

Brooks and others, 1915; Capps, 1937; Cobb, 1972, (MF 470); Cobb, 1973, (B 1374); Cobb, 1979, (OFR 79-860); MacKevett and Holloway, 1977.

**Primary reference:** Capps, 1937

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 08/11/98

**Site name(s):** Malina Bay

**Site type:** Prospect

**ARDF no.:** AF004

**Latitude:** 58.24

**Quadrangle:** AF A-4

**Longitude:** 153.05

**Location description and accuracy:**

This prospect is located on the north shore of Malina Bay which is 2.5 miles southeast of Tanaak Cape on the west coast of Afognak Island (Cobb, 1972, MF 470, locality 1; Berg and Cobb, 1967, figure 15, locality 1; MacKevett and Holloway, 1977, locality 2). Location is probably accurate to within 1/2 mile.

**Commodities:**

**Main:** Ag, Au

**Other:**

**Ore minerals:** Gold, unknown silver mineral

**Gangue minerals:** Quartz

**Geologic description:**

The discovery of an auriferous quartz vein at Malina Bay was first reported in 1911 (Brooks and others, 1912). The vein is described as being up to 14 feet in width and occurring along a contact between slate and granite and diorite (Martin, 1913, p. 133-134). No additional information on this site has been reported.

The intrusive rocks appear to be part of the Afognak Plutonic Complex of probable Jurassic age. The slate belongs to a schistose belt of Jurassic-age metasedimentary and metavolcanic rocks which extends northeast from Kodiak Island.

**Alteration:**

**Age of mineralization:**

**Deposit model:**

Auriferous quartz vein

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

**Production Status** None

**Site Status:** Inactive

**Workings/exploration:**

Information received by Martin (1913, p. 133-134) indicated that a 140-foot-long adit had been driven several years previously; however, there was some uncertainty as to whether the work was done on this prospect.

**Production notes:**

**Reserves:**

**Additional comments:**

The site is located on land conveyed to Koniag Corporation.

**References:**

Brooks and others, 1912; Martin, 1913; Capps, 1937; Cobb, 1972, (MF 470); MacKevett and Holloway, 1977; Cobb, 1979, (OFR 79-860); Connelly and Moore, 1979.

**Primary reference:** Martin, 1913

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 08/11/98

**Site name(s):** Unnamed

**Site type:** Occurrence

**ARDF no.:** AF005

**Latitude:** 58.3

**Quadrangle:** AF B-2

**Longitude:** 152.4

**Location description and accuracy:**

This occurrence is located southeast of Portage Lake in T. 22 S., R. 19 W. The location is only accurate to within 5 miles.

**Commodities:**

**Main:** Au(?)

**Other:**

**Ore minerals:** Unknown sulfide minerals

**Gangue minerals:**

**Geologic description:**

An unknown person reported to S.W. Nelson (USGS) in 1979 that sulfide minerals occur in calcareous rocks and that a possible granitic intrusive was nearby.

**Alteration:**

**Age of mineralization:**

**Deposit model:**

Polymetallic vein ? (Cox and Singer, 1986; model 22c).

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

22c

**Production Status** None

**Site Status:** Inactive

**Workings/exploration:**

**Production notes:**

**Reserves:**

None.

**Additional comments:**

Report of sulfides based on oral communication to S.W. Nelson (USGS) in 1979.

**References:**

This record

**Primary reference:** This record

**Reporter(s):** S.H. Pilcher (Anchorage)

**Last report date:** 08/11/98

**Site name(s): Muskomee Bay****Site type:** Occurrence**ARDF no.:** AF006**Latitude:** 58.1**Quadrangle:** AF A-4**Longitude:** 153.07**Location description and accuracy:**

This site is located just south of Muskomee Bay in sec. 17, T. 24 S., R. 23 W. (MacKevett and Holloway, 1977, locality 3; Foley and others, 1989, locality 34). Location is probably accurate to within 1/2 mile.

**Commodities:****Main:** Au**Other:** Pb, PGE**Ore minerals:****Gangue minerals:****Geologic description:**

Data from U.S. Bureau of Mine files indicate lode claims with gold, lead, and PGE listed as commodities (Foley and others, 1989). No other data are available.

**Alteration:****Age of mineralization:****Deposit model:**

Polymetallic vein ? (Cox and Singer, 1986; model 22c).

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

22c

**Production Status** None**Site Status:** Inactive**Workings/exploration:**

**Production notes:**

**Reserves:**

None.

**Additional comments:**

This site is on land conveyed to Koniag Corporation.

**References:**

U.S. Bureau of Mines, 1973; MacKevett and Holloway, 1977; Foley and others, 1989.

**Primary reference:** MacKevett and Holloway, 1977

**Reporter(s):** S.H Pilcher (Anchorage)

**Last report date:** 08/11/98

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