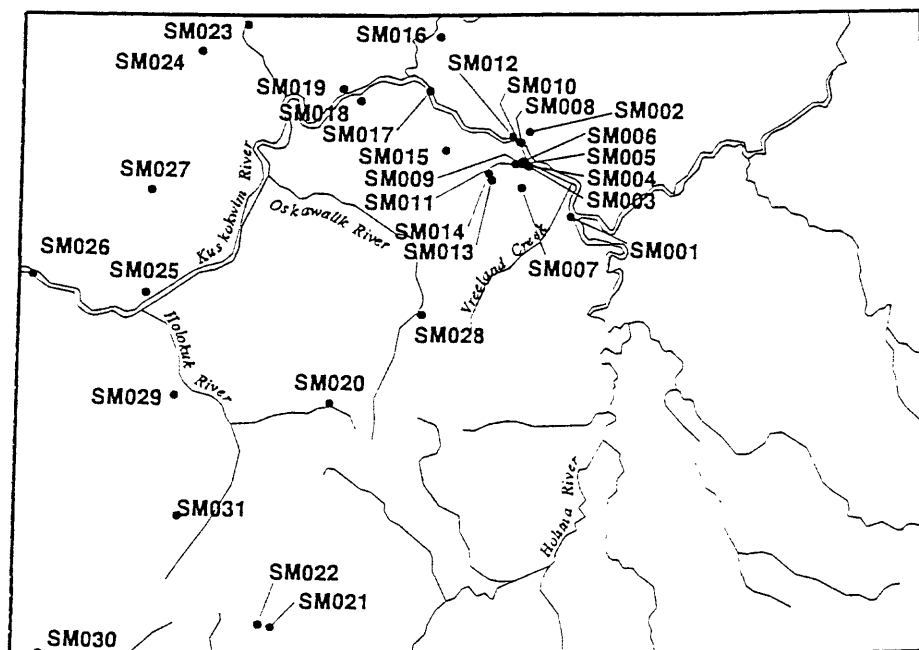


U.S. Department of the Interior - U.S. Geological Survey

Sleetmute 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 Sleetmute
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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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: Mellick's**Type:** Prospect**ARDF no.** SM001**Latitude:** 61.68560**Quadrangle:** SM C4**Longitude:** 157.17940**Location description and accuracy:**

West bank of Kuskokwim River, behind Mellick's trading post; accurate within 0.25 mile (0.5 km).

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

Small amount of cinnabar occurs in graywacke and shale bedrock behind Mellick's trading post. Cady and others (1955, plate 1) mapped two biotite basalt dikes less than 0.5 mile (1 km) south of locality; map also shows several small albite rhyolite intrusions.

Alteration:**Workings/Exploration:**

Nature of workings undefined, probably surface

Age:**Deposit model:**

Epithermal vein and disseminated mercury

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

27b?

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

Little information available on deposit.

References:

Cady and others, 1955, p. 111; Cobb, 1972, loc. 14, MF368; Cobb, 1976, p. 40, OFR76-606; Meyer, 1985, map no. 25, p. 163; Rytuba, 1986, B1693; Miller and others, 1989, p. 100.

Primary reference: Cady and others, 1955, p. 111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Two Genevieves**Type:** Occurrence**ARDF no.** SM002**Latitude:** 61.81750**Quadrangle:** SM D4**Longitude:** 157.31360**Location description and accuracy:**

West of Cribby Creek .25 mile (0.5 km) and 3.75 miles (6 km) due north of town of Red Devil. Site is not well located. Given location is from Cady and others (1955, plate 3).

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

Cinnabar is localized in vugs and also in breccia zone near upper contact of a sill that is altered to silica-carbonate rock.

Alteration:

Silica-carbonate alteration

Workings/Exploration:

Surface sampling

Age:**Deposit model:**

Epithermal vein, open space, and breccia mercury

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

27b?

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

Little information known about deposit.

References:

Cady and others, 1955, p. 65, 111; Sainsbury and MacKevett, 1965, p. 20; Cobb, 1972, loc. 6, MF368; Cobb, 1976, p. 54, OFR76-606; Rytuba, 1986, B1693; Miller and others, 1989, p. 86.

Primary reference: Cady and others, 1955, p. 65, 111.**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Red Devil mine**Type:** Mine**ARDF no.** SM003**Latitude:** 61.76390**Quadrangle:** SM D4**Longitude:** 157.31670**Location description and accuracy:**

On the S bank of the Kuskokwim River about 6.25 miles (10 km) NW of the town of Sleetmute.

Main commodities: Hg**Other commodities:** Sb; As**Ore minerals:** Cinnabar; stibnite; arsenopyrite; realgar; orpiment**Gangue minerals:** Quartz; carbonate; clay**Geologic Description:**

Host rocks are interbedded graywacke and shale of the Kuskokwim Group cut by a few dikes that are generally altered to quartz, chalcedony, carbonate, and sericite (Malone, 1962). Most of the ore formed along and near intersections between altered dikes and NW-trending faults that mainly parallel bedding planes. Formation of ore was primarily by open space filling and consists of cinnabar associated with abundant stibnite in a quartz-rich gangue; less common realgar, orpiment, and antimony minerals are also found (MacKevett and Berg, 1963). Stibnite-cinnabar ratio increases with depth (Malone, 1962). Ore shoots did not continue below 460-480 ft (Donald Grybeck, USGS, personal commun., 1988). MacKevett and Berg (1963) reported that clay minerals (dickite among them) occupy central parts of some ore-bearing veinlets, but are more conspicuous in barren veinlets away from ore bodies. Jasper (1961) stated that while no native mercury was found at the property, old timers reported appreciable amounts in material panned along McCally Creek, west of the property.' (Miller and others, 1989).

Alteration:

Diabasic dikes altered to quartz, chalcedony, carbonate, and sericite.

Workings/Exploration:

About 9,600 feet (3,000 m) of underground workings on five main levels.

Age: Miocene/Pliocene**Deposit model:**

Epithermal vein; mercury-antimony

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

27b?

Production: Yes; medium**Status:** Inactive**Production notes:**

Total of 36,141 \pm 408 flasks Hg from 1933-71 (Miller and others, 1989).

Reserves:

Known ore bodies exhausted

Additional comments:

On SW limb of NW-trending Sleetmute anticline.

References:

Webber and others, 1947, p. 3, 9-18; Jasper, 1961, p. 73-75; Malone, 1962, p. 13-20; MacKevett and Berg, 1963; Sainsbury and MacKevett, 1965; Cobb, 1972,

loc. 11, MF368; Cobb, 1976, p. 47-50, OFR76-606; Meyer, 1985, Map #28, p. 166-171; Rytuba, 1986, B1693; Miller and others, 1989, p. 46-51, 96.

Primary reference: Miller and others, 1989, p. 46-51, 96

Reporter: Elliott, R.L.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 6/2/94

Site: Mercury**Type:** Prospect**ARDF no.** SM004**Latitude:** 61.76560**Quadrangle:** SM D4**Longitude:** 157.32390**Location description and accuracy:**

South of the Kuskokwim River near the west bank of McCally Creek
(0.5 mile (1 km) NW of Red Devil).

Main commodities: Hg**Other commodities:****Ore minerals:** Cinnabar; stibnite (?)**Gangue minerals:****Geologic description:**

Small amounts of 'ore minerals' (presumed to be cinnabar and stibnite (?)) are chiefly bedding-plane stringers in shaly zone of interbedded shale and graywacke.

Alteration:**Workings/Exploration:**

Systematically trenched

Age:**Deposit model:**

Epithermal vein, mercury

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

27b?

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

Cady and others, 1955, p. 111; Sainsbury and MacKevett, 1965, p. 20; Cobb, 1972, loc. 11, MF368; Cobb, 1976, p. 41, OFR76-606; Rytuba, 1986, B1693; Miller and others, 1989, p. 95.

Primary reference: Cady and others, 1955, p.111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Vermillion**Type:** Prospect**ARDF no.** SM005**Latitude:** 61.76830**Quadrangle:** SM D4**Longitude:** 157.32940**Location description and accuracy:**

0.75 mile (1.2 km) NW of Red Devil, between Red Devil and Barometer mines.
Accurate to within 1,000 ft. (300m) radius.

Main commodities: Hg**Other commodities:****Ore minerals:** Cinnabar, stibnite (?)**Gangue minerals:****Geologic description:**

Small amounts of 'ore minerals' (presumed to be cinnabar and stibnite (?)) are chiefly bedding-plane stringers in shaly zone of interbedded shale and graywacke.

Alteration:**Workings/Exploration:**

Systematically trenched

Age:**Deposit model:**

Epithermal vein, mercury

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

27b?

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

Cady and others, 1955, p. 111, Plate 3; Cobb, 1972, loc. 10, MF368; Cobb, 1976, p. 55, OFR76-606; Rytuba, 1986, B1693; Miller and others, 1989, p. 94.

Primary reference: Cady and others, 1955, p. 111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Barometer**Type:** Mine**ARDF no.** SM006**Latitude:** 61.77170**Quadrangle:** SM D4**Longitude:** 157.33750**Location description and accuracy:**

Location is at adit of Barometer Mine shown on Sleetmute D4 topographic map; 1.1 mile (1.8 km) NW of Red Devil; Accurate to within 0.25 (0.5 km) mile.

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:** Realgar; orpiment; quartz**Geologic description:**

Cinnabar, stibnite, realgar, and possibly orpiment are in quartz gangue deposited irregularly along faulted joints, fractures, and bedding planes in Cretaceous graywacke and shale, near silica-carbonate altered dikes. There are several discrete ore zones.

Alteration:

Silica-carbonate altered dikes.

Workings/Exploration:

122 ft adit, 80 ft of crosscuts, pits, and trenches. USBM samples yielded an average grade of .41 lb/ton mercury and maximum 16.5 lb/ton. (Webber and others, 1947)

Age:**Deposit model:**

Epithermal vein, mercury-antimony

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

27b?

Production: Yes; small**Status:** Inactive**Production notes:**

Total = 14 or 16 flasks of mercury (Miller and others, 1989)

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

Webber and others, 1947, p. 24-27; Cady and others, 1955, p. 110; Cobb, 1972, loc. 10, MF368; Cobb, 1976, p. 17-18, OFR76-606; Malone, 1962, p. 37-39; Sainsbury and MacKevett, 1965, p. 18-19; Meyer, 1985, p. 172-174; Rytuba, 1986, B1693; Miller and others, 1989, p. 93.

Primary reference: Cady and others, 1955, p. 110**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: McCally Creek**Type:** Prospect**ARDF no.** SM007**Latitude:** 61.73060**Quadrangle:** SM C4**Longitude:** 157.34080**Location description and accuracy:**

2.3 miles (3.7 km) SW of Red Devil at head of McCally Creek; accurate to within 0.3 mile (0.5 km) radius.

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

Traces of cinnabar are found in graywacke and shale near the contact with porphyritic albite rhyolite.

Alteration:**Workings/Exploration:**

Probably surface

Age:**Deposit model:**

Epithermal, disseminated mercury

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

27b?

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

Cady and others, 1955, p. 111; Cobb, 1972, loc. 12, MF368; Cobb, 1976, p. 39, OFR76-606; Sainsbury and MacKevett, 1965, p. 21; Rytuba, 1986, B1693; Miller and others, 1989, p. 97.

Primary reference: Cady and others, 1955, p. 111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Alice & Bessie; Parks**Type:** Mine**ARDF no.** SM008**Latitude:** 61.80060**Quadrangle:** SM D4**Longitude:** 157.34190**Location description and accuracy:**

Claim group is on the N bank of the Kuskokwim River approximately 0.35 miles (0.55 km) SW of the mouth of Parks Creek; accurate to within 1,000 ft (300 m).

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite; native mercury**Gangue minerals:** Quartz; calcite; dolomite; ankeritic dolomite, clay minerals; limonite; pyrite; hematite**Geologic description:**

Mineralization consists of cinnabar, lesser stibnite, and minor pyrite in a gangue of quartz, carbonate, and clay. Mineralized veins, up to 1 ft (0.3 m) thick and 50 ft (15 m) long, are localized in fractures and along bedding-plane faults in Kuskokwim Group graywacke and shale cut by hydrothermally altered sills and dikes.

Alteration:

Dikes/sills altered to quartz, carbonate minerals, clay, and limonite.

Workings/Exploration:

525 ft (160 m) adit, 240 ft (73 m) drift, 45 ft (14 m) deep inclined shaft, several vertical shafts, 19 trenches, open cuts.

Age:**Deposit model:**

Epithermal vein and disseminated mercury-antimony

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

27b?

Production: Yes; small**Status:** Inactive**Production notes:**

Total = 175 flasks of mercury by the end of 1961 (Malone, 1965).

Reserves:**Additional comments:**

Veins are as rich as those at Red Devil deposit, but not as wide or continuous (Sainsbury and MacKevett, 1965, p. 15).

References:

Smith, 1917, p. 139-144, B655; Smith, 1938, p. 97, B897A; Webber and others, 1947, p. 19-23; Cady and others, 1955, p. 109-110; Jasper, 1961, p. 69-70; Malone, 1962, p. 34-36; Malone, 1965, p. 41-42; Sainsbury and MacKevett, 1965, p. 11-15; Cobb, 1972, loc. 7, MF368; Cobb, 1976, p. 13-15, OFR76-606; Meyer, 1985, p. 180-181; Rytuba, 1986, p. 180, B1693; Miller and others, 1989, p. 84.

Primary reference: Sainsbury and MacKevett, 1965, p.11-15**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 6/2/94

Site: Unnamed**Type:** Prospect**ARDF no.** SM009**Latitude:** 61.76830**Quadrangle:** SM D4**Longitude:** 157.34420**Location description and accuracy:**

Prospect is SW of head of small creek flowing past Barometer Mine; 1.1 mile (1.8 km) NW of Red Devil; accurate to within 0.3 miles (0.5 km) radius.

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:****Geologic description:**

Prospect is reported to contain cinnabar and stibnite. Country rock is graywacke and shale.

Alteration:**Workings/Exploration:**

No reference to workings

Age:**Deposit model:**

Epithermal vein, mercury-antimony

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

27b?

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

Very little information available on prospect.

References:

Cady and others, 1955, p. 111; Cobb, 1972, loc. 9, MF368; Cobb, 1976, p. 58, OFR76-606; Sainsbury and MacKevett, 1965, p. 21; Rytuba, 1986, B1693; Miller and others, 1989, p. 92.

Primary reference: Cady and others, 1955, p. 111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Ammiline**Type:** Prospect**ARDF no.** SM010**Latitude:** 61.80220**Quadrangle:** SM D4**Longitude:** 157.34780**Location description and accuracy:**

0.45 miles (0.7 km) NE of Parks; 3 miles (4.8 km) NW of Red Devil on east side of Parks Creek; accurate to within 0.25 mile (0.4 km).

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:** Quartz**Geologic description:**

Quartz-stibnite-cinnabar veins fill fractures in hypabyssal rhyolite that intrudes sedimentary rocks of the Cretaceous Kuskokwim Group.

Alteration:**Workings/Exploration:**

Nature of workings unknown

Age:**Deposit model:**

Epithermal vein, cinnabar

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

27b?

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

Little information available on prospect.

References:

Cady and others, 1955, p. 70, 111; Cobb, 1972, loc. 7, MF368; Cobb, 1976, p. 16, OFR76-606; Sainsbury and MacKevett, 1965, p. 20; Rytuba, 1986, B1693; Miller and others, 1989, p. 85.

Primary reference: Cady and others, 1955, p. 70, 111**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Fairview**Type:** Prospect**ARDF no.** SM011**Latitude:** 61.76780**Quadrangle:** SM D4**Longitude:** 157.36220**Location description and accuracy:**

Cady and others, 1955, plate 3; Webber and others, 1947, fig. 9; Cobb, 1972, loc. 8; discrepancies exist among various references as to exact location. Location given is best estimate from listed references; 1.7 miles (2.7 km) WNW of Red Devil; Accurate to within 0.3 mile (0.5 km) radius.

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:****Geologic description:**

Cinnabar-stibnite veinlets occupy fractures in central portion of sill of porphyritic albite rhyolite 120 ft (36 m) wide and 1,000 ft (305 M) long. Sill intrudes graywacke and shale of Cretaceous Kuskokwim Group.

Alteration:**Workings/Exploration:**

Three trenches 125, 130, and 175 ft. (38, 40, and 53 m) long were dug by USBM in 1943, but these had sloughed and partly filled by 1959.

Age:**Deposit model:**

Epithermal vein; cinnabar-stibnite

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

27b?

Production: No**Status:** Inactive**Production notes:**

Webber and others (1947) state there was no production of any consequence.

Reserves:

USBM analyzed 29 samples: most averaged 1-2 lbs/ton Hg, but one yielded 8 lbs/ton Hg

Additional comments:**References:**

Webber and others, 1947, p. 27-28; Cady and others, 1955, p. 111; Cobb, 1972, loc. 8, MF368; Cobb, 1976, p. 25, OFR76-606; Sainsbury and MacKevett, 1965, p. 19-20; Meyer, 1985, p. 183-184; Rytuba, 1986, B1693; Miller and others, 1989, p. 91.

Primary reference: Miller and others, 1989, p. 91**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/9

Site: Willis; Willis and Fuller**Type:** Mine**ARDF no.** SM012**Latitude:** 61.81000**Quadrangle:** SM D4**Longitude:** 157.37000**Location description and accuracy:**

NW 1/4 of section 24, township 20N, Range 45W in the Sleetmute D-4 quadrangle. Site is about 1 mile (1.6 km) N of the Kuskokwim River and 2 miles (3.2 km) W of Cribby Creek. Location is site of main adit; accurate to within 0.25 mile (0.4 km).

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite; stibiconite?

Gangue minerals: Quartz; carbonate; limonite; dickite; hematite; apatite; sphene

Geologic description:

Cinnabar ± stibnite veins containing minor pyrite, hematite and a little stibiconite(?), are up to 50 ft (15 m) or more long and 6 in (15 cm) wide. Veins lie in or near altered dikes and sills that intrude Kuskokwim Group sedimentary rocks. Cinnabar is also disseminated locally in fractures in dikes and nearby sedimentary rocks, or in argillized rock at contacts between dikes and graywacke. Ore bodies are at and near intersections of altered dikes and faults that commonly strike parallel to bedding; ore bodies are elongate horizontally and dip southward (Sainsbury and MacKevett, 1960).

Alteration:**Workings/Exploration:**

At least 7 short adits (mostly caved), numerous bulldozed trenches and cuts exploring area of 1,300 ft by 1,000 ft (396 m by 305 m).

Age:**Deposit model:**

Epithermal vein, disseminated, mercury-antimony

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

27b?

Production: Yes; small**Status:** Inactive**Production notes:**

A few flasks of mercury were produced.

Reserves:

Jasper (1961) suggested that results from stripping in 1953-54 were encouraging for large tonnage, low grade ore.

Additional comments:

Additional rich ore was stockpiled during 1958 trenching, besides that already produced.

References:

Webber and others, 1947, p. 28-29; Cady and others, 1955, p. 111; Sainsbury and MacKevett, 1960, p. 35-38; Jasper, 1961, p. 70-72; Sainsbury and MacKevett, 1965, p. 15-18; Cobb, 1972, loc. 5, MF368; Cobb, 1976, p. 56-57,

OFR76-606; Meyer, 1985, p. 177-179; Rytuba, 1986, B1693; Miller and others 1989, p. 83.

Primary reference: Sainsbury and MacKevett, 1965, p. 15-18

Reporter: Huber, D.F.; Niles, L.P.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 6/2/94

Site: Fuller Creek**Type:** Prospect**ARDF no.** SM013**Latitude:** 61.74280**Quadrangle:** SM C4,**Longitude:** 157.44000**Location description and accuracy:**

Since no exact location for this property is given in the literature, the location is given as the intersection of Fuller Creek with the north and south edges of Sleetmute C4 and D4 respectively.

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

Bedrock is Cretaceous graywacke and shale of the Kuskokwim Group cut by several albite rhyolite intrusive bodies (Cady and others, 1955).

Alteration:**Workings/Exploration:**

Assumed to be surface

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

Placer; modern stream

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

39a

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

Stream gradient less than 50 ft/mi (9.5 m/km) on lower portion of creek. Very little information available on prospect.

References:

Cady and others, 1955, p. 120; Cobb, 1972, loc. 22, MF368; Cobb, 1976, p. 27, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 90.

Primary reference: Cady and others, 1955, p. 120**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Cinnabar Chief**Type:** Prospect**ARDF no.** SM014**Latitude:** 61.75280**Quadrangle:** SM D4**Longitude:** 157.45000**Location description and accuracy:**

Location is assumed to be on a tributary of Fuller Creek. The location used is 0.85 mi (1.4 km) west of the main creek and 0.5 mi (0.8 km) north of the southern boundary of Sleetmute D4 quadrangle. The accuracy is unknown.

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

Nature of prospect is unknown.

Alteration:**Workings/Exploration:**

Nature of workings unknown, but assumed to be surface. Prospecting suspended in August, 1926.

Age:**Deposit model:**

Lode; undefined

Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):**Production:** No**Status:** Inactive**Production notes:****Reserves:****Additional comments:**

Very little information available about prospect. Location may not be correct.

References:

Smith, 1929, p. 41, B797; Cobb, 1976, p. 21, OFR76-606; Meyer, 1985, p. 186; Miller and others, 1989, p. 89.

Primary reference: Smith, 1929, p. 41**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Eightmile Creek**Type:** Prospect**ARDF no.** SM015**Latitude:** 61.78940**Quadrangle:** SM D5**Longitude:** 157.59310**Location description and accuracy:**

Since no part of Eightmile Creek was specified in the literature, the location given is approximately 2.5 miles (4 km) up the creek from its mouth on the Kuskokwim River. This location is in the SE 1/4 of the Sleetmute D5 quadrangle.

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

Bedrock in the area is Kuskokwim Group sedimentary rock; at least one rhyolite dike or sill cuts a ridge drained by the easternmost fork of this creek.

Alteration:**Workings/Exploration:**

Assumed to be surface.

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

Placer; modern stream

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

39a

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

Stream gradient is 200 ft/mi (37.9 m/km) upstream to 50 ft/mi (9.5 m/km) downstream. Very little information available on deposit.

References:

Cady and others, 1955, p. 120; Cobb, 1972, loc. 22, MF368; Cobb, 1976, p. 27, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 82.

Primary reference: Cady and others, 1955, p. 120**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Harvison**Type:** Prospect**ARDF no.** SM016**Latitude:** 61.96640**Quadrangle:** SM D5**Longitude:** 157.61190**Location description and accuracy:**

The location used is on a hill 0.6 (1 km) miles east of the George River. The hill is bisected by the range boundary between R 45 W and R 46 W in township 22 N; it is 2.4 miles (3.9 km) south of the north edge of the Sleetmute 2° quadrangle, Alaska. The location is approximate.

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

Small lenses and pods of cinnabar occur in brecciated silicified shaly sandstone intruded by altered dike or sill.

Alteration:**Workings/Exploration:**

Discovered and explored in 1963 by 30 ft (9 m) long timbered and lagged open cut; 3.5-ft (1 m)-deep winze started on ore shoot.

Age:**Deposit model:**

Epithermal vein, mercury

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

27b?

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

Jasper (1963) estimated that the 5-6 tons of sorted and stockpiled ore would run 10-15% Hg.

Additional comments:**References:**

Jasper, 1963; Berg and Cobb, 1967, p. 92, B1246; Cobb, 1972, loc. 4, MF368; Cobb, 1976, p.31, OFR76-606; Rytuba, 1986, B1693; Miller and others, 1989, p. 77.

Primary reference: Jasper, 1963**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: California Creek**Type:** Prospect**ARDF no.** SM017**Latitude:** 61.88170**Quadrangle:** SM D5**Longitude:** 157.64560**Location description and accuracy:**

The location is assumed to be somewhere in the first 1.8 miles (2.9 km) of California Creek starting at its mouth on the Kuskokwim River. This location is on the dividing line between range R45W and R46W in township T.21 N on the Sleetmute 2° quadrangle; location is approximate.

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

A small amount of placer gold was reportedly found on California Creek. Porphyritic rhyolite dikes cut Kuskokwim Group graywacke and shale in the area and may be the source of gold.

Alteration:**Workings/Exploration:**

Assumed to be surface

Age: Tertiary/Quaternary ?**Deposit model:** Placer; modern stream**Deposit model number (After Cox and Singer, 1986 or Bliss, 1992):**
39a**Production:** No**Status:** Inactive**Production notes:****Reserves:****Additional comments:**

Stream gradient varies from 600 ft/mi (114 m/km) upstream to less than 100 ft/mi (19 m/km) downstream. Very little information available on prospect.

References:

Cady and others, 1955, p. 69, 120; Cobb, 1972, loc. 20, MF368; Cobb, 1976, p. 19, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 81.

Primary reference: Cady and others, 1955, p. 69, 120**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Egnaty Creek**Type:** Prospect**ARDF no.** SM018**Latitude:** 61.86690**Quadrangle:** SM D5**Longitude:** 157.87550**Location description and accuracy:**

The Egnaty Creek site is approximately 0.3 miles (0.5 km) up the creek from its mouth on the Kuskokwim River. It is in the east central portion of section 34, T 21 N, R 47 W on the Sleetmute D5 quadrangle.

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

Bedrock is sandstone and minor shale of the Kuskokwim Group; no igneous rocks were reported. Selected USBM samples of bedrock assayed almost 1% Hg. Fine-grained cinnabar was found in about 100 of approximately 350 auger holes, and in some of the drill core (Maloney, 1968). Maloney (1968) did not mention the presence of either veins or quartz.

Alteration:**Workings/Exploration:**

USBM carried out an exploration program in 1966-67, which included bulldozer trenching, diamond drilling, and 350 auger holes.

Age:**Deposit model:**

Epithermal, disseminated, mercury

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

27b?

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

Selected USBM samples yielded nearly 1% Hg.

Additional comments:**References:**

Maloney, 1968; Cobb, 1972, loc. 3, MF368; Cobb, 1976, p. 23, OFR76-606; Meyer, 1985, p. 191; Rytuba, 1986, B1693; Miller and others, 1989, p. 80.

Primary reference: Maloney, 1968**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Central Creek**Type:** Prospect**ARDF no.** SM019**Latitude:** 61.88560**Quadrangle:** SM D6**Longitude:** 157.93190**Location description and accuracy:**

The site is located somewhere in the first 2.5 miles (4 km) of Central Creek starting at its mouth on the Kuskokwim River. Central Creek is approximately 6 miles (9.6 km) due east of the village of Crooked Creek on the Great Bend of the Kuskokwim River.

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

The bedrock is Cretaceous graywacke and shale cut by albite rhyolite intrusive rocks (Cady and others, 1955).

Alteration:**Workings/Exploration:**

Assumed to be surface

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

Placer

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

39a

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

Stream gradient varies from 200 ft/mi (38 m/km) upstream to 100 ft/mi (19 m/km) downstream. Very little information on deposit.

References:

Cady and others, 1955, p. 120; Cobb, 1972, loc. 19, MF368; Cobb, 1976, p. 20, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 79.

Primary reference: Cady and others, 1955**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Mountain Top**Type:** Mine**ARDF no.** SM020**Latitude:** 61.39750**Quadrangle:** SM B6**Longitude:** 157.96890**Location description and accuracy:**

Location used is Robinson (1984, RI84-11) sample no. 2983. The site is located in the central Sleetmute 2° quadrangle 4.1 miles (6.6 km) on a bearing of N60E from Chineekluk Mountain. It is on the dividing line between ranges 48W and 49W in township 15N and is 0.7 miles (1.1 km) north of the Chineekluk Creek.

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:** Quartz; dolomite; dickite**Geologic description:**

Bedrock consists of graywacke and shale in association with olivine basalt dikes (Sorg and Estlund, 1972) or flows (Reifenstuhl and others, 1984). Mineralization consists of veins of cinnabar ± dolomite localized near faults in the basalt. Stibnite ± quartz found as float fragments. Sorg and Estlund (1972) reported presence of hydrocarbons, dickite, and buddingtonite at Mountain Top.

Alteration:

Basaltic rock altered to silica, dolomite, clay, and minor iddingsite.

Workings/Exploration:

Explored by hand auger and bulldozer after discovery in 1968. USBM drilled 7 holes (Š 50 ft(15 m) in 1979.

Age:**Deposit model:**

Epithermal vein, mercury-antimony

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

27b?

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

About 165 flasks of Hg produced from 1982-86 (Miller and others, 1989)

Reserves:

Sorg and Estlund (1972) estimate 200 flasks of reserves (produced 165 flasks from '82-86).

Additional comments:**References:**

Sorg and Estlund, 1972; Cobb, 1976, p. 42, OFR76-606; Reifenstuhl and others, 1984 (for bedrock); Robinson, 1984, RI 84-11; Rytuba, 1986, B1693; Miller and others, 1989, p. 46, 108.

Primary reference: Sorg & Estlund, 1972**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Fortyseven Creek, placer**Type:** Mine**ARDF no.** SM021**Latitude:** 61.04830**Quadrangle:** SM A6**Longitude:** 158.15610**Location description and accuracy:**

The Fortyseven Creek placer includes the portion of Fortyseven Creek that transects section 16 in T 11 N, R 50 W in the Sleetmute A6 quadrangle. The location given is at mine symbol on Sleetmute A-6 topographic map; accurate within 0.25 mile (0.4 km).

Main commodities: Au; W**Other commodities:****Ore minerals:** Gold; scheelite**Gangue minerals:****Geologic description:**

Placer gold and scheelite recovered in gulch just below lode source (see Fortyseven Creek, lode), at head of Fortyseven Creek. Additional gold recovered downstream, southwest of the Denali-Farewell Fault at the foot of the mountain front. Significant placer concentrations do not occur in stream gravel between the gulch and the fault. Russell Schaefer reported to Cady and others (1955) that southwest of the fault there were two types of placers: 1) minor gold scattered in gravel on bedrock, 2) gold and scheelite concentrated on a 'yellow clay hardpan.'

Alteration:**Workings/Exploration:**

Ore sluiced from cut 400 ft (122 m) long, 30 ft (9 m) wide, and 5 ft (1.5 m) deep in 1950's. More recent workings included prospect pits, stripping, and road building.

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:**

About 2,500 oz of Au produced. Minor amounts of Au and W sold prior to 1950, but main production was between 1981-86.

Reserves:**Additional comments:**

Stream gradient is 250 ft/mi (47 m/km) upstream from fault, 100 ft/mi (19 m/km) downstream from fault. Denali-Farewell Fault crosses stream at foot of mountain front.

References:

Cady and others, 1955, p. 119-121; Cobb, 1972, loc. 18, MF368; Cobb, 1976, p. 26, OFR76-606; Bundtzen and others, 1986, p. 9, 27, SR39; Yeend, 1986; Miller and others, 1989, p. 45, 46, 54, 115.

Primary reference: Cady and others, 1955, p. 119-121

Reporter: Huber, D.F.; Niles, L.P.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 6/2/94

Site: Fortyseven Creek, lode**Type:** Prospect**ARDF no.** SM022**Latitude:** 61.05280**Quadrangle:** SM A6**Longitude:** 158.19640**Location description and accuracy:**

Just off east side of ridge that Fortyseven Creek drains.

Main commodities: Au**Other commodities:** Ag; sb**Ore minerals:**

Gold; scheelite; wolframite; argentite; stibnite; arsenopyrite; jamesonite; gold and silver tellurides

Gangue minerals: Quartz; tourmaline; sericite**Geologic description:**

Shear zone 1,000 ft (305 m) wide and 1.5 mi (2.4 km) long in Cretaceous graywacke and slate contains quartz veins carrying gold-, silver-, and tungsten-bearing minerals.

Alteration:**Workings/Exploration:**

Prospect pits dug for sampling in 1985.

Age:**Deposit model:**

Lode; gold-tungsten-quartz vein, shear zone

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

36a?, 27d?

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

Alaska Division of Geological and Geophysical Surveys samples 15536 and 15537 contain 2.4 ppm Au and 16.7 ppm Ag respectively (Robinson, 1984a)

Additional comments:

No production yet known, but development during 1990's indicates production is likely.

References:

Cady and others, 1955, p. 119-121; Cobb, 1972, loc. 15, MF368; Cobb, 1976, p. 26, OFR76-606; Robinson, 1984, RI 84-7; Berger, 1986, B1693; Bliss and Orris, 1986; Bundtzen and others, 1986, p. 9, 27, SR39; Miller and others, 1989, p. 53-54, 114.

Primary reference: Cady and others, 1955, p. 119-121**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Crooked Creek**Type:** Prospect**ARDF no.** SM023**Latitude:** 61.98560**Quadrangle:** SM D7,**Longitude:** 158.25220**Location description and accuracy:**

Placer deposits extend from mouth of Crevice Creek upstream for 7 miles (11 km) N into Iditarod quadrangle.

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

Gold-bearing bench gravel E of Crooked Creek is 20 ft (6 m) above present stream, 1 mi (1.6 km) wide, and 10-100 ft (3-30.5 m) deep to bedrock. Gold is reconcentrated along tributary streams flowing through benches. Only a few short, narrow paystreaks, alternating with low-grade or barren gravel, in streams. Only 1 mi (1.6 km) of placer deposit is in Sleetmute quad; the rest is in the Iditarod quadrangle.

Alteration:**Workings/Exploration:**

One prospect hole dug near mouth of Crevice Creek. Nature of other workings not defined.

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

Placer; modern stream, bench

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

39a

Production: No**Status:** Inactive**Production notes:**

Production recorded for gulches that feed the part of Crooked Creek that lies within Iditarod quad.

Reserves:**Additional comments:**

Most of Crooked Creek placer and its tributary streams are in Iditarod quadrangle. Stream gradient is less than 50 ft/mi (9.5 m/km).

References:

Maddren, 1915, p. 351-353; Cady and others, 1955, p. 118; Cobb, 1972, loc. 16, MF368; Cobb, 1976, p. 22, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 75.

Primary reference: Miller and others, 1989, p. 75**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Rhyolite**Type:** Mine**ARDF no.** SM024**Latitude:** 61.94420**Quadrangle:** SM D7**Longitude:** 158.40420**Location description and accuracy:**

Miller and others, 1989, Loc. 4, Plate 2.

Main commodities: Hg**Other commodities:** Sb**Ore minerals:** Cinnabar; stibnite**Gangue minerals:** Clay; carbonate; quartz; limonite**Geologic description:**

Small veinlets, pods, lenses, and disseminations of cinnabar occur in faults and shear zones in silica-carbonate altered dikes and shattered graywacke. Veinlets up to 0.5 in thick, pods up to 4 in thick occur at intersection of veinlets. Stibnite float was found near the airstrip at summit of Juninggulra Mountain.

Alteration:

Andesitic, rhyolite porphyry dikes and sills altered to silica-carbonate rock.

Workings/Exploration:

Trenched in 1957 one year after discovery. USBM trenched and sampled in 1958-59.

Age:**Deposit model:**

Epithermal vein, disseminated, shear zone; mercury-antimony

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

27b?

Production: Yes; small**Status:** Inactive**Production notes:**

Apparently, a few flasks of mercury were produced.

Reserves:**Additional comments:**

Trenching difficult because of permafrost.

References:

Maloney, 1962; Sainsbury and MacKevett, 1965, p. 46-49; Berg and Cobb, 1967, p. 92, B1246; Cobb, 1972 (Loc. incorrect), MF368; Cobb, 1976, p. 51-52, OFR76-606; Rytuba, 1986, B1693; Miller and others, 1989, p. 78.

Primary reference: Sainsbury and MacKevett, 1965, p. 46-49**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Murray Gulch and New York Creek**Type:** Mine**ARDF no.** SM025**Latitude:** 61.57000**Quadrangle:** SM C7**Longitude:** 158.58220**Location description and accuracy:**

Cobb, 1972, Loc. 17; Location is at mouth of Murray Gulch on New York Creek. Placer deposits extend 1 mi upstream on Murray Gulch.

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

Gold occurs downstream from hypabyssal rhyolite dikes that cut Kuskokwim Group sedimentary rock in the upper part of Murray Gulch. Maddren (1915) reported coarse gold from deep gravel beneath the stream and from bench gravels about 70 ft above present flood plain. Bench gold is rough.

Alteration:**Workings/Exploration:**

Surface trenches and shaft into frozen ground.

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

Placer: stream; bench

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

39a

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

About 1,500 oz Au produced prior to about 1955; further unrecorded production 1979-81.

Reserves:**Additional comments:**

Stream gradient about 180 ft/mi.

References:

Maddren, 1915, p. 353-355; Cady and others, 1955, p. 119; Cobb, 1972, Loc. 17, MF368; Cobb, 1976, p. 43, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 45, 103, 104.

Primary reference: Maddren, 1915, p. 353-355**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Kolmakof**Type:** Mine**ARDF no.** SM026**Latitude:** 61.59520**Quadrangle:** SM C8?**Longitude:** 158.95500**Location description and accuracy:**

Location uncertain; may be in eastern Russian Mission quadrangle (Miller and others, 1989).

Main commodities: Hg**Other commodities:****Ore minerals:** Cinnabar**Gangue minerals:** Quartz**Geologic description:**

Interbedded graywacke and shale of the Kuskokwim Group are intruded by numerous sills and a few dikes. The largest sill reported to be 25-30 ft thick and exposed over a horizontal distance of 400 ft. Cinnabar occurs in narrow stringers and as disseminations in fractures and brecciated zones in the sill and enclosing rocks.

Alteration:

Sills and dikes altered to silica-carbonate rock

Workings/Exploration:

One adit (now caved), one shaft (destroyed by dozer cut), one 80-ft-deep inclined shaft (now flooded), 29 trenches and open cuts totaling 600 ft in length over strike length of 350 ft (trenches now sloughed in), 10 survey lines of auger holes.

Age:**Deposit model:**

Epithermal vein and disseminated, mercury

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

27b?

Production: Yes; small**Status:** Inactive**Production notes:**

A little more than 2 flasks Hg was produced by 1910.

Reserves:**Additional comments:**

Trenching and stream panning by USBM indicates a possibility of significant cinnabar mineralization in immediate area around mine, although not necessarily connected or associated with present mine. Drilling program by USBM in 1969-70 was not successful, due to heavy overburden.

References:

Smith and Maddren, 1915; Cady and others, 1955, p.116; Jasper, 1961, p. 67-88; Sainsbury and MacKevett, 1965, p. 49-50; Berg and Cobb, 1967, p. 92, B1246; Cobb, 1972, MF368; Merrill and Maloney, 1974; Cobb, 1976, p. 35-36, OFR76-606; Meyer, 1985, p. 223-225; Rytuba, 1986, B1693; Miller and others, 1989, p. 45, 101.

Primary reference: Miller and others (1989), summarizes other references**Reporter:** Huber, D.F.; Niles, L.P.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 6/2/94

Site: Horn Mountains**Type:** Occurrence**ARDF no.** SM027**Latitude:** 61.72920**Quadrangle:** SM C7**Longitude:** 158.56750**Location description and accuracy:**

Miller and others, 1989, Loc. 14; Location approximate.

Main commodities: W**Other commodities:****Ore minerals:** Scheelite**Gangue minerals:****Geologic description:**

Placer scheelite was reported to occur near the west foot of the Horn Mountains (Cady and others, 1955). The Horn Mountains form a volcano-plutonic complex similar to Chicken Mountain in the Iditarod quadrangle. In light of known geology, the report of scheelite is considered valid by M.L. Miller.

Alteration:**Workings/Exploration:**

Unknown

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

Placer: stream

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

?

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

Cady and others, 1955, p. 121; Cobb, 1972 (no location), MF368; Cobb, 1976, p. 33, OFR76-606; Miller and others, 1989, p. 88.

Primary reference: Miller and others, 1989, p. 88**Reporter:** Miller, M.L.**Reporter affiliation:** USGS**Last report date:** 6/2/94

Site: Oskawalik River**Type:** Prospect**ARDF no.** SM028**Latitude:** 61.53440**Quadrangle:** SM C5**Longitude:** 157.67080**Location description and accuracy:**

Location very approximate; Reported to be near Henderson Mountain by Cady and others (1955).

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

Cady and others (1955) reported that during the course of their studies they saw evidence or heard reports of placer gold prospecting along this river (and seven other creeks in the general area). Bedrock is Kuskokwin Group sedimentary rock intruded by granodiorite of Henderson Mountain.

Alteration:**Workings/Exploration:**

Probably surface

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

Placer: stream

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

39a

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

Cady and others, 1955, p. 120; Cobb, 1972, MF368; Cobb, 1976, p. 46, OFR76-606; Meyer, 1985, p. 193; Yeend, 1986; Miller and others, 1989, p. 105

Primary reference: Cady and others, 1955, p.120**Reporter:** Miller, M.L.**Reporter affiliation:** U.S.G.S.**Last report date:** 6/2/94

Site: Gold Run**Type:** Prospect**ARDF no.** SM029**Latitude:** 61.40970**Quadrangle:** SM B7**Longitude:** 158.48060**Location description and accuracy:**

Approximate - no information regarding exact location along creek.

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

Cady and others (1955) reported that during the course of their studies they saw evidence or heard reports of placer gold prospecting along this creek. Short traverse by M. L. Miller in 1992 on ridge drained by creek confirms presence of granite porphyry dikes -- similar to those associated with gold occurrences in the Iditarod quadrangle.

Alteration:**Workings/Exploration:**

Probably surface

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

Placer: stream

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

39a

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

Cady and others, 1955, p. 120; Cobb, 1972, MF368; Cobb, 1976, p. 30, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 107.

Primary reference: Miller and others, 1989, p. 107**Reporter:** Miller, M.L.**Reporter affiliation:** U.S.G.S.**Last report date:** 6/2/94

Site: Timber Creek**Type:** Prospect**ARDF no.** SM030**Latitude:** 61.00440**Quadrangle:** SM A8**Longitude:** 158.90920**Location description and accuracy:**

Approximate - no information regarding exact location along creek (refer to Miller and others, 1989, loc. 38).

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

Cady and others (1955) reported that during the course of their studies they saw evidence or heard reports of placer gold prospecting along this creek (and 7 others in the general area). Bedrock is Kuskokwim Group sedimentary rock intruded by hypabyssal rhyolite dikes.

Alteration:**Workings/Exploration:**

Probably surface

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

Placer: stream

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

39a

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

Cady and others, 1955, p. 120; Cobb, 1972, MF368; Cobb, 1976, p. 53, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 112.

Primary reference: Cady and others, 1955, p. 120**Reporter:** Miller, M.L.**Reporter affiliation:** U.S.G.S.**Last report date:** 6/2/94

Site: Girl Creek**Type:** Prospect(?)**ARDF no.** SM031**Latitude:** 61.22170**Quadrangle:** SM A7**Longitude:** 158.46580**Location description and accuracy:**

Approximate - no information regarding exact location along creek (refer to Miller and others, 1989, loc. 36).

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

Cady and Others (1955) reported that during the course of their studies they saw evidence or heard reports of placer gold prospecting along this creek (and seven others in the general area.) Bedrock is Kuskokwim Group sedimentary rock intruded by hypabyssal rhyolite dikes.

Alteration:**Workings/Exploration:**

Probably surface.

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

Placer, stream

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

39a

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

Cady and others, 1955, p. 120; Cobb 1972, MF368; Cobb, 1976, p. 29, OFR76-606; Yeend, 1986; Miller and others, 1989, p. 110.

Primary reference: Cady and others, 1955, p. 120**Reporter:** Miller, M.L.**Reporter affiliation:** U.S.G.S.**Last report date:** 6/2/94

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