UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# SUMMARIES OF DATA ON AND LISTS OF REFERENCES TO METALLIC AND SELECTED NONMETALLIC MINERAL DEPOSITS IN THE BIG DELTA AND TANACROSS QUADRANGLES, ALASKA

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

## Introduction

These summaries of data on metallic and selected nonmetallic mineral occurrences and lists of selected references to them in Geological Survey, U.S. Bureau of Mines, and State of Alaska Division of Geological and Geophysical Surveys (and predecessor State and Territorial agencies) reports and maps released before Jan. 1, 1980, are designed to aid in library research on the mineral resources of the Big Delta and Tanacross quadrangles, Alaska. The references are selected in the sense that mainly statistical reports such as the annual Minerals Yearbook of the U.S. Bureau of Mines and many annual and biennial reports of the Alaska Division of Geological and Geophysical Surveys and its predecessor agencies are not included. Also not included are data on many claims about which little more than their locations is known (for example, localities 16 to 22 in Menzie and Foster, 1979 (OF 78-529 D), p. 31). These omissions should not be interpreted as a judgement that the claims are not on valid mineral occurrences, but only that there are insufficient data to describe any mineral deposit that might be present. Geochemical anomalies determined by analysis of rock and stream-sediment samples in which no metallic mineral was identified are also omitted.

This report is divided into three parts: a section made up of summaries of data and reference lists arranged alphabetically by occurrence name for each quadrangle; a second section that lists, by quadrangle, synonyms for names in the first section, the names of owners and operators of mines and prospects, and claim names; and a final section that for each quadrangle lists alphabetically by author all references mentioned in the first section and in these introductory paragraphs.

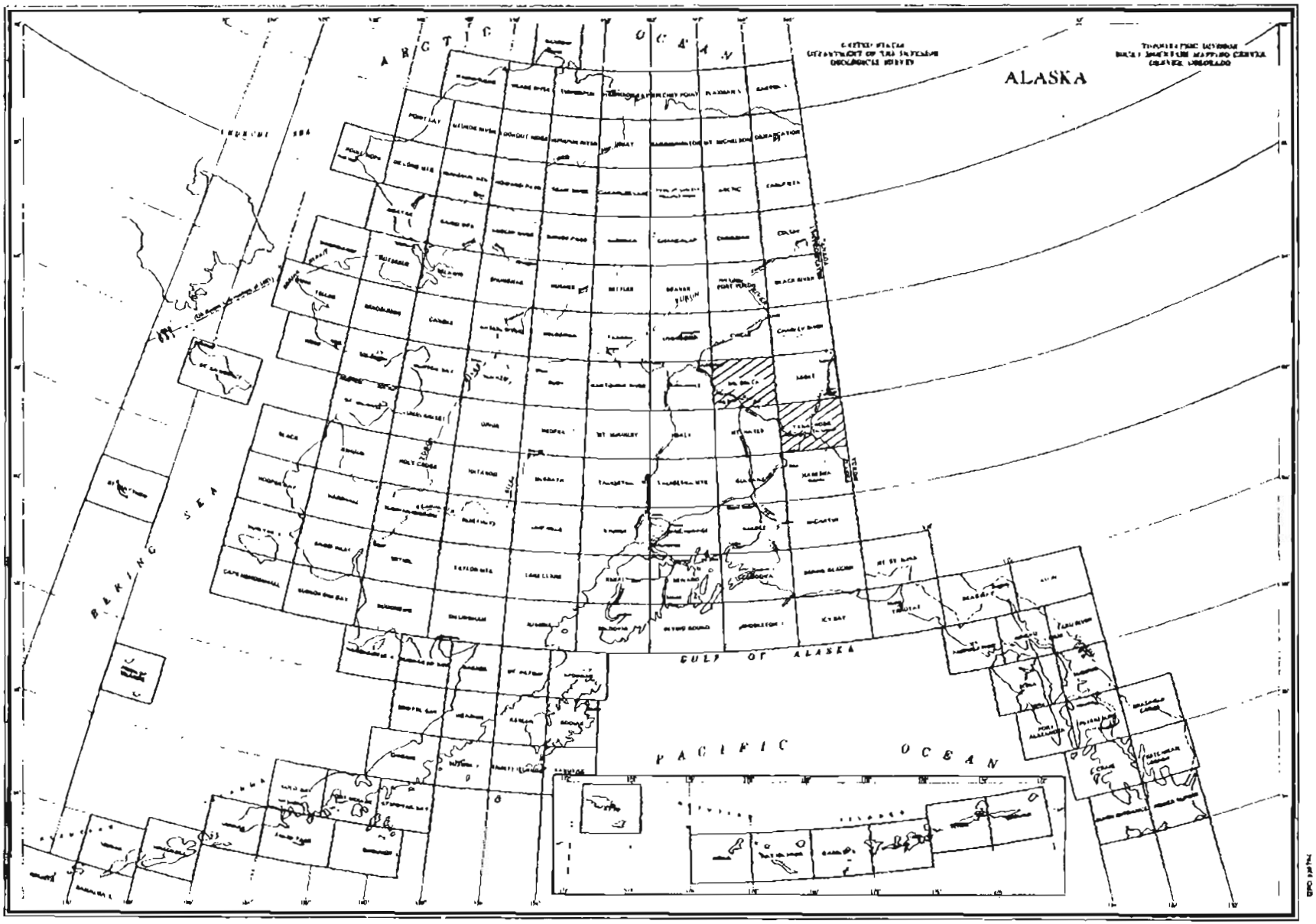
The first section consists of data on each occurrence, for each of which there is a page that gives the name of the occurrence, the mineral commodities present (listed alphabetically); the mining district (Ransome and Kerns, 1954 (IC 7679)) in which the occurrence is located; the name of the 1:250,000-scale topographic quadrangle; co-

ordinates (as described by Cobb and Kachadoorian, 1961 (B 1139), p. 3-4); the number of a map (if there is one) on which the occurrence is shown and the number of the occurrence on that map; and the latitude and longitude of the occurrence. These data, presented at the top of the page, are followed by a short, general summary of the published data on the occurrence, with the source or sources of the information given in brackets. This is followed by a list, arranged chronologically, of references to the occurrence.

Proper names of mines, prospects, and other mineral occurrences are given if such names appear in the reports cited. If a deposit does not have such a name, but is near a named geographic feature, the name of that feature is shown in parentheses in lieu of a proper name if no ambiguity would result. All placer mines and prospects are considered under the name of the stream on which they are located. If a deposit has no proper name and is not near a named geographic feature, it is titled "Unnamed occurrence" and appears at the end of the list for the quadrangle. If a part of a proper name is not always used in references, that part of the name is shown in parentheses.

Citations are given in standard bibliographic format with the exception that references to reports and maps in numbered publication series also show in parentheses an abbreviation for the report or map series and the report or map number. Abbreviations used are:

| | |
|---|---|
| B | U.S. Geological Survey Bulletin |
| BMB | U.S. Bureau of Mines Bulletin |
| C | U.S. Geological Survey Circular |
| GC | Alaska Division of Mines and Minerals Geochemical Report |
| GR | Alaska Division of Geological and Geophysical Surveys (and predecessor State agencies) Geologic Report |
| I | U.S. Geological Survey Miscellaneous Geologic Investigations Map |
| IC | U.S. Bureau of Mines Information Circular |
| OF | U.S. Geological Survey Open-file Report |
| MF | U.S. Geological Survey Miscellaneous Field Studies Map |
| P | U.S. Geological Survey Professional Paper |
| RI | U.S. Bureau of Mines Report of Investigations |
| TDM | Alaska Territorial Department of Mines Pamphlet |
| USBM OF | U.S. Bureau of Mines Open-file Report |


ALASKA
ARCTIC OCEAN
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN

Index map

(Banner Cr.) Gold, Monazite, Tungsten

Fairbanks district Bog Delta (5.1, 5.3)
MF-388, loc. 13 64°18'N, 145°20'W

Summary: Bedrock is Cretaceous? rhyolite porphyry. Gold discovered in 1905 or shortly thereafter. Gold from this and neighboring creeks ranged from 639½ to 785 in fineness. Open-pit mining. Concentrate from churn-drill hole in bedrock near placer-mining area contained monazite and scheelite. Claim staking, prospecting, and possibly minor mining in area in 1970's. [Menzie and Foster, 1979 (OF 78-529 D); Saunders, 1965 (GC 3); Bundtzen and Reger, 1977 (GR 55)]

References

Brooks, 1908 (B 345), p. 44
Brooks, 1909 (B 379), p. 55
Ellsworth, 1910 (B 442), p. 245
Ellsworth and Parker, 1911 (B 480), p. 167
Prindle and Katz, 1913 (B 525), p. 113, 141
Chapin, 1914 (B 592), p. 361
Smith, 1917 (BMB 142), p. 25
Brooks, 1918 (B 662), p. 60
Wedow and others, 1954 (C 331), p. 11
Saunders, 1965 (GC 3), p. 2, 4, 10
Cobb, 1972 (MF-388), loc. 13
Mulligan, 1974 (IC 8626), p. 14
Bundtzen and Reger, 1977 (GR 55), p. 29-30, 33
Cobb, 1977 (OF 77-168 B), p. 6, loc. 9
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 4
Foster and others, 1979 (B 783), p. 13
Menzie and Foster, 1979 (OF 78-529 D), p. 27, loc. 1

(Beaver Cr.) Gold, Tin

Fairbanks district Big Delta (4.6, 13.4)
MF-388, loc. 8 64°47'N, 146°24'W

Summary: Ground averaging about $1 per square foot of bedrock [gold at $20.67] said to have been found in 1911-12 and several windlass dumps taken out. Scarce cassiterite in placer. [Ellsworth and Davenport, 1913 (B 542); Joesting, 1942 (TDM 1)]

References

Ellsworth and Davenport, 1913 (B 542), p. 208
Joesting, 1942 (TDM 1), p. 34
Cobb, 1972 (MF-388), loc. 8
Cobb, 1977 (OF 77-168 B), p. 6, loc. 1
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 2
Menzie and Foster, 1979 (OF 78-529 D), p. 27, loc. 2

Blue Lead | Antimony, Copper, Gold, Silver

Goodpaster district | Big Delta (21.2, 6.8)
MF-388, loc. 5 | 64°22'N, 144°12'W

Summary: Gold-bearing quartz vein about 2½ ft thick in Cretaceous? granitic rocks near contact with Paleozoic and/or Precambrian? metamorphic rocks; faults and shearing common. Free gold in quartz containing sulfides; gold content decreases as sulfide content increases. Sulfides include stibnite. Sample of table concentrate from mill at Blue Lead contained pyrite, stibnite, covellite, and digenite. Jamesonite in wall rocks. Mine operated in 1938-39. Production from this and other mines (Gray Lead, Grizzly Bear) in area estimated at 132 oz gold and 25 oz silver from 150 tons of ore. More than 775 ft of underground workings at Blue Lead. [Thomas, 1970 (USBM OF 14-70); Menzie and Foster, 1979 (OF 78-529 D)]

References

Smith, 1938 (B 897-A), p. 22-23
Smith, 1939 (B 917-A), p. 30
Berg and Cobb, 1967 (B 1246), p. 222
Thomas, 1970 (USBM OF 14-70), p. 7, 10-11
Cobb, 1972 (MF-388), loc. 5
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 3
Foster and others, 1979 (C 783), p. 4
Menzie and Foster, 1979 (OF 78-529 D), p. 28, loc. 4

(Boulder Cr.) Molybdenum

Goodpaster district
MF-388, loc. 7

Big Delta (21.75, 6.8)
64°22'N, 144°08'W

Summary: Molybdenite occurs sparingly in small quartz veins in Cretaceous? granitic rock. [Menzie and Foster, 1979 (OF 78-529 D)]

References

Joesting, 1942 (TDM 1), p. 29
Berg and Cobb, 1967 (B 1246), p. 223
Cobb, 1972 (MF-388), loc. 7
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 4
Menzie and Foster, 1979 (OF 78-529 D), p. 29, loc. 5

(Buckeye Cr.) Gold, Lead, Tin, Tungsten

Fairbanks district Big Delta (5.25, 5.5)
MF-388, loc. 11 64°19'N, 145°19'W

Summary: Bedrock Cretaceous? rhyolite porphyry. Placer gold first mined in early 1900's. Concentrates contained gold, galena, scheelite, tourmaline, and cassiterite. [Menzie and Foster, 1979 (OF 78-529 D)] See also (Banner Cr.).

References

Prindle and Katz, 1913 (B 525), p. 113, 142
Smith, 1917 (BMB 142), p. 25
Brooks, 1918 (B 662), p. 60
Smith, 1930 (B 813), p. 29
Smith, 1932 (B 824), p. 34
Wedow and others, 1954 (C 331), p. 11, 13
Saunders, 1965 (GC 3), p. 4
Koschmann and Bergendahl, 1968 (P 610), p. 31
Cobb, 1972 (MF-388), loc. 11
Mulligan, 1974 (IC 8626), p. 14
Bundtzen and Reger, 1977 (GR 55), p. 29
Cobb, 1977 (OF 77-168 B), p. 6, loc. 9
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 3
Menzie and Foster, 1979 (OF 78-529 D), p. 27, loc. 1

(Butte Cr.) Gold

Fairbanks district Big Delta (9.55, 12.9)
MF-388, loc. 15 64°44'N, 145°43'W

Summary: Bedrock mostly garnetiferous quartz-mica schist and quartzite (Paleozoic?). Staked and some development work, 1905. About 20 ft of gravel overlain by 6 ft of muck. Considerable prospecting, but little production. [Menzie and Foster, 1979 (OF 78-529 D)]

References

Prindle, 1906 (B 284), p. 123-125
Prindle, 1906 (B 295), p. 26
Brooks, 1908 (B 345), p. 43
Ellsworth, 1910 (B 442), p. 245
Ellsworth and Parker, 1911 (B 480), p. 167
Prindle, 1913 (B 538), p. 80
Cobb, 1972 (MF-388), loc. 15
Cobb, 1977 (OF 77-168 B), p. 6, loc. 3
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 5
Foster and others, 1979 (C 783), p. 4
Menzie and Foster, 1979 (OF 78-529 D), p. 29, loc. 6

(Caribou Cr.) Bismuth, Gold, Tin, Tungsten

Fairbanks district Big Delta (9.6-10.2, 12.1-12.6)
MF-388, loc. 16 64°41'-64°43'N, 145°38-145°43'W

Summary: Bedrock mostly amphibolite-facies garnetiferous quartz-mica schist (Paleozoic?). First mining was in 1905. Dredge was installed in 1940's; worked most of the length of the creek. Scarce cassiterite and scheelite and small amounts of native bismuth in concentrates. [Menzie and Foster, 1979 (OF 78-529 D)]

References

Prindle, 1906 (B 284), p. 123-125
Prindle, 1906 (B 295), p. 26
Brooks, 1908 (B 345), p. 43
Ellsworth, 1910 (B 442), p. 245
Ellsworth and Parker, 1911 (B 480), p. 167
Prindle, 1913 (B 538), p. 80
Brooks, 1916 (B 642), p. 67
Brooks, 1923 (B 739), p. 33
Smith, 1926 (B 783), p. 15
Smith, 1939 (B 910-A), p. 48
Smith, 1939 (B 917-A), p. 44, 46-47
Smith, 1941 (B 926-A), p. 40, 43
Joesting, 1942 (TDM 1), p. 34, 39
Cobb, 1972 (MF-388), loc. 16
Cobb, 1973 (B 1374), p. 129
Hasler and others, 1973 (P 820), p. 98
Cobb, 1977 (OF 77-168 B), p. 6, loc. 4
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 6
Foster and others, 1979 (C 783), p. 4, 13
Menzie and Foster, 1979 (OF 78-529 D), p. 29, loc. 8

(Central Cr.) Gold

Goodpaster district
OF 78-529 D, loc. 9

Big Delta (19.4, 6.4) approx.
63°20'N, 144°27'W approx.

Summary: Placer ground being developed in 1927. Placer claims staked, 1939. Lode and placer claims staked, 1974-78. [Smith, 1930 (B 810); Menzie and Foster, 1979 (OF 78-529 D)]

References

Smith, 1930 (B 810), p. 26
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 7
Menzie and Foster, 1979 (OF 78-529 D), p. 29, loc. 9

Democrat | Gold

Fairbanks district | Big Delta (4.9, 5.9)
MF-388, loc. 1 | 64°20'N, 146°21'W

Summary: Adit of unknown length driven prior to 1921; gold in rhyolite; no known production, though a mill was built on the property. Prospecting and staking in area in the 1960's and 1975-78. [Menzie and Foster, 1979 (OF 78-529 D)] Includes references to lode on Democrat Cr. See also (Democrat Cr.).

References

Martin, 1919 (B 692), p. 39
Brooks, 1923 (B 739), p. 33
Saunders, 1965 (GC 3), p. 2
Berg and Cobb, 1967 (B 1246), p. 218
Cobb, 1972 (MF-388), loc. 1
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 8
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 1
Menzie and Foster, 1979 (OF 78-529 D), p. 30, loc. 11

(Democrat Cr.) (Gulch) (Pup) Gold, Silver

Fairbanks district Big Delta (4.9, 5.9)
MF-388, loc. 10 64°20'N, 145°21'W

Summary: Deposit at least in part a residual placer on Cretaceous? rhyolite porphyry, a random sample of which contained 0.24 oz silver per ton and a trace of gold. Has been placer mining. [Saunders, 1965 (GC 3); Menzie and Foster, 1979 (OF 78-529 D)] Report of scheelite in pan concentrate [Bundtzen and Reger, 1977 (GR 55), p. 30] evidently is in error; the cited source of data [Saunders, 1965 (GC 3)] does not mention scheelite in description of sample from Democrat Cr. See also (Banner Cr.), Democrat.

References

Brooks, 1909 (B 379), p. 55
Ellsworth, 1910 (B 442), p. 245
Ellsworth and Parker, 1911 (B 480), p. 167
Ellsworth and Davenport, 1913 (B 542), p. 222
Prindle and Katz, 1913 (B 525), p. 113, 142
Chapin, 1914 (B 592), p. 361
Eakin, 1915 (B 622), p. 235
Smith, 1917 (BMB 142), p. 25
Brooks, 1923 (B 739), p. 33
Smith, 1926 (B 783), p. 15
Smith, 1929 (B 797), p. 20
Smith, 1930 (B 810), p. 26
Smith, 1930 (B 813), p. 29
Smith, 1932 (B 824), p. 34
Smith, 1933 (B 836), p. 34
Saunders, 1965 (GC 3), p. 2, 4
Koschmann and Bergendahl, 1968 (P 610), p. 31
Cobb, 1972 (MF-388), loc. 10
Mulligan, 1974 (IC 8626), p. 14
Bundtzen and Reger, 1977 (GR 55), p. 30, 33
Cobb, 1977 (OF 77-168 B), p. 6, loc. 8
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 2
Menzie and Foster, 1979 (OF 78-529 D), p. 17, loc. 1

(Gold Run Cr.) Gold

Fairbanks district Big Delta (5.0, 7.25)
OF 77-168 B, loc. 7 64°25'N, 146°21'W

Summary: Gold prospects were found, but there was no mining. [Mulligan, 1974 (IC 8626)]

References

Mulligan, 1974 (IC 8626), p. 14
Cobb, 1977 (OF 77-168 B), p. 6, loc. 7

(Granite Cr.) Gold(?)

Goodpaster district Big Delta (15.5, 4.25) approx.
64°13'N, 145°00'W approx.

Summary: Tributary of South Fork of Goodpaster R. [not shown on modern maps]. In 1916 very coarse gold reported to have been found in gravels said to be 12-25 ft thick. [Brooks, 1918 (B 662)] Description same as that for Michigan Cr.

References

Brooks, 1918 (B 662), p. 60
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 11
Menzie and Foster, 1979 (OF 78-529 D), p. 31, loc. 23

Gray (Quartz) Lead | Gold

Goodpaster district | Big Delta (20.8, 6.5)
MF-388, loc. 3 | 64°21'N, 144°15'W

Summary: Steeply dipping vein about 2 ft thick along contact between Cretaceous? granitic rocks and Paleozoic and/or Precambrian? gneissic schist; intense faulting and shearing along contact. Deposit explored and worked, 1939-41; about 1,400 ft of drifts, crosscuts, and raises. Gold fine and generally visible only after ore is crushed and panned. Minor exploration and attempt at reworking tailings in 1970's. [Menzie and Foster, 1979 (OF 78-529 D); Thomas, 1970 (USBM OF 14-70)] See also Blue Lead.

References

Thomas, 1970 (USBM OF 14-70), p. 7-9, 11
Cobb, 1972 (MF-388), loc. 3
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 9
Foster and others, 1979 (C 783), p. 4
Menzie and Foster, 1979 (OF 78-529 D), p. 30, loc. 14

Grizzly Bear | Gold

Goodpaster district | Big Delta (21.15, 6.6)
MF-388, loc. 4 | 64°21'N, 144°12'W

Summary: Gold mined from steeply dipping quartz vein 1½ to 2½ in wide. Gold near hanging wall and coarser than in other veins is area. More than 300 ft of underground workings. Amount of ore mined small. [Eberlein and others, 1977 (OF 77-168 D)] See also Blue Lead.

References

Smith, 1939 (B 917-A), p. 30
Berg and Cobb, 1967 (B 1246), p. 222
Thomas, 1970 (USBM OF 14-70), p. 11
Cobb, 1972 (MF-388), loc. 4
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 10
Foster and others, 1979 (C 783), p. 4
Menzie and Foster, 1979 (OF 78-529 D), p. 30, loc. 15

(Hinkley Gulch) Gold, Tin

Fairbanks district Big Delta (5.25, 5.4)
MF-388, loc. 12 64°18'N, 145°19'W

Summary: Bedrock Cretaceous? rhyolite porphyry; deposit at least in part a residual placer. Cassiterite as well as gold in concentrates. Mining as recently as 1950. [Menzie and Foster, 1979 (OF 78-529 D); Saunders, 1965 (GC 3)] See also: (Banner Cr.), (Buckeye Cr.).

References

Smith, 1933 (B 836), p. 34
Saunders, 1965 (GC 3), p. 2, 4
Cobb, 1972 (MF-388), loc. 12
Bundtzen and Reger, 1977 (GR 55), p. 29-30, 33
Cobb, 1977 (OF 77-168 B), p. 6, loc. 9
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 3
Menzie and Foster, 1979 (OF 78-529 D), p. 27, loc. 1

(Kenyon Cr.) Gold

Goodpaster district Big Delta(?)
SW¼SE¼SE¼ quad.(?)

Summary: Tributary of Healy Lake; may be in Mt. Hayes quad. Gold and garnet in gravels about 125 ft. deep. Discovered in 1914; a little mining reported in 1915. [Cobb, 1979, (OF 79-238)]

References

Brooks, 1915 (B 622), p. 50-51
Brooks, 1916 (B 642), p. 67
Brooks, 1918 (B 662), p. 60
Cobb, 1973 (B 1374), p. 137
Cobb, 1979 (OF 79-238), p. 41

(Michigan Cr.) Gold

Goodpaster district
MF-388, loc. 18

Big Delta (18.4, 3.05) approx.
64°09'N, 144°35'W approx.

Summary: Gold discovered in 1915, setting off a short-lived stampede. Gold coarse (one $9 nugget [gold at $20.67] found). Gravel reported to be 12-25 ft thick. Deposits low grade. [Thomas, 1970 (USBM OF 14-70); Brooks, 1918 (B 662)]

References

Brooks, 1918 (B 662), p. 60
Smith, 1930 (B 810), p. 26
Thomas, 1970 (USBM OF 14-70), p. 7
Cobb, 1972 (MF-388), loc. 18
Cobb, 1974 (B 1374), p. 137
Cobb, 1977 (OF 77-168 B), p. 6, loc. 11
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 11
Menzie and Foster, 1979 (OF 78-529 D), p. 31, loc. 23

(Mineral Cr.) Gold(?)

Fairbanks district Big Delta
N½SW¼ quad.

Summary: Indications [of placer gold] found in 1922; sufficiently favorable to warrant further investigation. [Brooks and Capps, 1924 (B 755)] Only location is Richardson district; may be tributary of Banner Cr. or Buckeye Cr.

Reference

Brooks and Capps, 1924 (B 755), p. 38

(Minton Cr.) Tungsten

Fairbanks district Big Delta (5.75, 6.7)
64°23'N, 146°15'W

Summary: Pan concentrate from geochemical sample contained a piece of scheelite. Other heavy minerals included magnetite, ilmenite, and zircon. [Saunders, 1965 (GC 3)]

Reference
Saunders, 1965 (GC 3), p. 10, sample 109

(Moore Cr.) Gold

Fairbanks district
MF-388, loc. 11

Big Delta (5.5, 5.5) approx.
64°20'N, 146°17'W approx.

Summary: Small tributary of Buckeye Cr. on which there has been placer gold mining. [Menzie and Foster, 1979 (OF 78-168 D)] See also: (Banner Cr.), (Buckeye Cr.).

References

Smith, 1930 (B 810), p. 26
Cobb, 1972 (MF-388), loc. 11
Cobb, 1977 (OF 77-168 B), p. 6, loc. 9
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 3
Menzie and Foster, 1979 (OF 78-529 D), p. 27, loc. 1

(Nickel Cr.) Chromite, Nickel

Fairbanks district
MF-388, loc. 2

Big Delta (15.55, 13.4) apprrox.
64°45'N, 144°55'W approx.

Summary: Silica-carbonate zone adjacent to serpentinized peridotite contains traces of nickel. Peridotite in this region is reported to have small areas with segregations of high-grade chromite 1 ft thick and 3 ft or so long, but mostly the chromite content is less than 1 percent. [Eberlein and others, 1977 (OF 77-168 D); Joesting, 1942 (TDM 1)]

References

Joesting, 1942 (TDM 1). p. 16, 18
Berg and Cobb, 1967 (B 1246), p. 221
Cobb, 1972 (MF-388), loc. 2
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 12
Menzie and Foster, 1979 (OF 78-529 D), p. 32, loc. 26

(No Grub Cr.) Bismuth, Gold, Tungsten

Fairbanks district Big Delta (10.4, 11.9)
MF-388, loc. 17 64°40'N, 145°37'W

Summary: Bedrock mostly quartz-mica schist of Paleozoic age. Intermittent mining from early 1900's to as recently as 1977. Considerable native bismuth found with gold and subordinate scheelite. Gold reported to be coarse and irregular and derived from gold- and bismuth-bearing quartz veins. [Menzie and Foster, 1979 (OF 78-529 D)]

References

Ellsworth and Parker, 1911 (B 480), p. 167
Prindle, 1913 (B 538), p. 80
Brooks, 1916 (B 642), p. 67
Smith, 1942 (B 933-A), p. 39
Cobb, 1972 (MF-388), loc. 17
Hasler and others, 1973 (P 820), p. 98
Cobb, 1977 (OF 77-168 B), p. 6, loc. 5
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 13
Foster and others, 1979 (C 783), p. 5
Menzie and Foster, 1979 (OF 78-529 D), p. 32, loc. 27

(Pasco Cr.) Gold

Fairbanks district
OF 78-529 D, loc. 29

Big Delta (11.0, 12.0) approx.
64°41'N, 145°32'W approx.

Summary: Signs of small placer-mining activity; first record of claims, 1954; some claims active, 1976-77. [Eberlein and others, 1977 (OF 77-168 D); Menzie and Foster, 1979 (OF 78-529 D)]

References

Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 14
Menzie and Foster, 1979 (OF 78-529 D), p. 32, loc. 29

(Pine Cr.) Gold, Tin

Fairbanks district Big Delta (5.1, 13.0)
MF-388, loc. 9 64°44'N, 146°19'W

Summary: Scarce placer cassiterite reported; presence of gold assumed. Claims for lode gold have been staked in area. [Menzie and Foster, 1979 (OF 78-529 D)] Includes reference to (Pyne Cr.).

References

Joesting, 1942 (TDM 1), p. 34
Cobb, 1972 (MF-388), loc. 9
Cobb, 1977 (OF 77-168 B), p. 6, loc. 2
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 15
Menzie and Foster, 1979 (OF 78-529 D), p. 32, loc. 31

(Redemption Cr.) Gold(?)

Fairbanks distroct(?) Big Delta(?)
SW¼ quad.(?)

Summary: Placer gold prospecting reported, 1926. [Smith, 1929 (B 797)] Creek may be in Mt. Hayes quad. and may be in either Delta River or Goodpaster district.

Reference
Smith, 1929 (B 797), p. 20

(Redmond Cr.) Gold

Fairbanks district Big Delta (3.0-3.75, 6.6-7.8) approx.
OF 78-529 D, loc. 33 (in part) 64°23'-64°27'N, 146°30'-146°36'W approx.

Summary: Prospecting in 1908-09. Depth to bedrock at mouth of Mosquito Cr. is said to be 40-50 ft. Has been mining on headwater tributaries. Gold found during prospect drilling, but not enough to stimulate mining. [Ellsworth, 1910 (B 442); Mulligan, 1974 (IC 8626); Wedow and others, 1954 (C 331)]

References

Ellsworth, 1910 (B 442), p. 245
Wedow and others, 1954 (C 331), p. 11
Mulligan, 1974 (IC 8626), p. 14
Cobb, 1977 (OF 77-168 B), p. 6, loc. 6
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 16
Menzie and Foster, 1979 (OF 78-529 D), p. 33, loc. 33

(Salcha R.) Gold

Fairbanks district Big Delta
OF 78-529 D, loc. 17 (in part) N½ quad.

Summary: Prospecting above and claim staking at mouth of No Grub Cr. [Ellsworth and Parker, 1911 (B 480); Menzie and Foster, 1979 (OF 78-529 D)] Mining reported in references listed below as in the Salcha R. drainage was probably mainly on Butte, Caribou, and No Grub Creeks. See also: (Butte Cr.), Caribou Cr.), (No Grub Cr.).

References

Brooks, 1906 (B 284), p. 7
Ellsworth and Parker, 1911 (B 480), p. 167
Smith, 1933 (B 844-A), p. 34
Smith, 1934 (B 857-A), p. 31
Smith, 1934 (B 864-A), p. 36
Smith, 1936 (B 868-A), p. 37
Smith, 1937 (B 880-A), p. 41
Menzie and Foster, 1979 (OF 78-529 D), p. 32, loc. 27

(Savage Gulch) Gold(?)

Fairbanks district Big Delta
N½SW¼ quad.

Summary: Indications [of placer gold] found in 1912; sufficiently favorable to warrant further investigation. [Brooks and Capps, 1924 (B 755)] Only location is Richardson district; may be tributary of Banner Cr. or Buckeye Cr.

Reference
Brooks and Capps, 1924 (B 755), p. 38

(Tenderfoot Cr.) Gold, Lead, Silver

Fairbanks district Big Delta (5.7-6.1, 4.7-5.1)
MF-388, loc. 14 64°16'-64°17'N, 145°12'-145°15'W

Summary: Area underlain by metasedimentary and metaigneous rocks of "Birch Creek Schist" with common small quartz veins and stringers. Gold (low grade with much alloyed silver) was discovered in 1905. Alluvium and loess near head of creek 30 ft thick; more than 155 ft thick near mouth. Creek was worked mainly by drifting, during which gold-bearing galena float was found. Stream was major producing creek in old Richardson gold district, the total production of which was about 95,000 oz of gold and 24,000 oz of silver before 1930 and an unknown amount since then. As of 1978 there has been recent prospecting, claim staking, and possibly a little mining. [Menzie and Foster, 1979 (OF 78-529 D); Saunders, 1965 (GC 3)]

References

Prindle, 1906 (B 284), p. 123-124
Brooks, 1907 (B 314), p. 37
Brooks, 1908 (B 345), p. 44
Prindle, 1908 (B 337), p. 29
Brooks, 1909 (B 379), p. 55
Ellsworth, 1910 (B 442), p. 245
Ellsworth and Parker, 1911 (B 480), p. 167
Ellsworth and Davenport, 1913 (B 542), p. 222
Prindle and Katz, 1913 (B 525), p. 113, 141
Chapin, 1914 (B 592), p. 361
Eakin, 1915 (B 622), p. 235
Brooks, 1916 (B 642), p. 67
Smith, 1917 (BMB 142), p. 25
Brooks, 1918 (B 662), p. 60
Brooks, 1923 (B 739), p. 33
Smith, 1929 (B 797), p. 20
Smith, 1930 (B 810), p. 26
Smith, 1930 (B 813), p. 29
Smith, 1932 (B 824), p. 34
Smith, 1933 (B 836), p. 34
Wedow and others, 1954 (C 331), p. 11
Saunders, 1965 (GC 3), p. 2, 4
Koschmann and Bergendahl, 1968 (P 610), p. 31
Cobb, 1972 (MF-388), loc. 14
Mulligan, 1974 (IC 8626), p. 14
Bundtzen and Reger, 1977 (GR 55), p. 29, 33
Cobb, 1977 (OF 77-168 B), p. 6, loc. 10
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 17

(Tenderfoot Cr.) -- cont.

MacKevett and Holloway, 1977 (OF 77-169A), p. 12, loc. 5
Eberlein and Menzie, 1978 (OF 78-1-D), p. 31
Foster and others, 1979 (C 783), p. 4, 13
Menzie and Foster, 1979 (OF 78-529 D), p. 33, loc. 36

(Tibbs Cr.) Antimony, Gold, Molybdenum

Goospaster district Big Delta (20.75-21.25, 6.5-7.1)
MF-388, locs. 3, 5, 6, 19 64°21'-64°23'N, 144°11'-144°15'W

Summary: Has been limited gold placer mining [MF-388, loc. 19]. Quartz veins in granitic rocks carry gold, jamesonite, stibnite, and molybdenite. For description of a typical occurrence see Blue Lead sheet. [Menzie and Foster, 1979 (OF 78-529 D); Cobb, 1973 (B 1374); Joesting, 1942 (TDM 1); Thomas, 1970 (USBM OF 14-70)] Includes references to: Hidden Treasure, Michigan Lead. See also: Blue Lead, Gray Quartz Lead, Grizzly Bear.

References

Smith, 1941 (B 926-A), p. 28
Joesting, 1942 (TDM 1), p. 14, 29
Berg and Cobb, 1967 (B 1246), p. 222
Thomas, 1970 (USBM OF 14-70), p. 11
Cobb, 1972 (MF-388), locs. 3, 5, 6, 19
Cobb, 1973 (B 1374), p. 136-137
Cobb, 1977 (OF 77-168 B), p. 6, loc. 12
Eberlein and others, 1977 (OF 77-168 D), p. 13, loc. 18
Eberlein and Menzie, 1978 (OF 78-1-D), p. 35
Foster and others, 1979 (C 783), p. 4-5
Menzie and Foster, 1979 (OF 78-529 D), p. 34, loc. 37; p. 38, locs. 43, 46

(Twentymile Cr.) Gold(?)

Fairbanks district Big Delta
N½ quad.

Summary: Prospecting in 1910; tributary of Salcha R. [Ellsworth and Parker, 1911 (B 480)] Creek not shown on modern maps; may be the stream now called McCoy Cr.

References

Ellsworth and Parker, 1911 (B 480), p. 167
Eberlein and others, 1977 (OF 77-168 D), p. 12, loc. 5
Menzie and Foster, 1979 (OF 78-529 D), p. 29, loc. 6

(Wheeler Cr.) Copper

Fairbanks district Big Delta (7.4, 14.65)
64°50'N, 146°01'W

Summary: Quartz vein contains chalcocite, bornite, azurite, and malachite. [Menzie and Foster, 1979 (OF 78-529 D)]

Reference

Menzie and Foster, 1979 (OF 78-529 D), p. 46, loc. 182

Unnamed occurrence — Gold(?)

Fairbanks district — Big Delta (12.05, 12.1)
64°41'N, 145°24'W

Summary: Black iridescent rock cuts garnetiferous amphibole gneiss; appears to contain gold specks. [Menzie and Foster, 1979 (OF 78-529 D)]

Reference

Menzie and Foster, 1979 (OF 78-529 D), p. 40, loc. 90

| | |
|---|---|
| Unnamed occurrence | Lead |
| Fairbanks district | Big Delta (19.2, 10.75) |
| Goodpaster district | 64°36'N, 144°27'W |

Summary: Galena in quartzite and quartz-mica schist. [Menzie and Foster, 1979 (OF 78-529 D)] Occurrence on boundary between Fairbanks and Goodpaster districts.

Reference

Menzie and Foster, 1979 (OF 78-529 D), p. 38, loc. 61

| | |
|---|---|
| Unnamed occurrence | Lead, Zinc(?) |
| Fairbanks district | Big Delta (10.25, 15.6)<br>64°53'N, 145°37'W |

Summary: Galena and sphalerite(?) in secondary silica layer in impure limestone. [Menzie and Foster, 1979 (OF 78-529 D)]

Reference

Menzie and Foster, 1979 (OF 78-529 D), p. 44, loc. 153

| | |
|---|---|
| Unnamed occurrence | Molybdenum |
| Goodpaster district | Big Delta (21.15, 5.6)<br>64°18'N, 144°13'W |

Summary: Pyrite and molybdenite in quartz in a mineralized area in granitic rocks. Euhedral quartz crystals in vugs. [Menzie and Foster, 1979 (OF 78-529 D)]

Reference

Menzie and Foster, 1979 (OF 78-529 D), p. 36, loc. 21

ASARCO | Copper, Molybdenum

Fortymile district | Tanacross (11.8, 6.6)
MF-767E, loc. 20 | 63°22'N, 142°30'W

Summary: Silicified and deeply leached Tertiary quartz porphyry hypabyssal intrusive and, in part, extrusive rocks contain disseminated molybdenite and copper sulfides. Company sampling and drilling program in 1970. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 20
Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 1

B.C. Gold

Fortymile district Tanacross (23.7, 1.85)
MF-767E, loc. 14 63°15'N, 141°01'W

Summary: Eluvial and gold-bearing bench gravels about 20 ft thick overlie decomposed Mesozoic granodiorite that contains gold quartz veins. The eluvial gold has delicate wire and crystal forms. Other creeks that are tributary to McArthur Cr. may have placer gold deposits; has been recent claim-staking activity. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 14
Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 2
MacKevett and Holloway, 1977 (OF 77-169A), p. 75, loc. 6

(Big Cr.) Lead, Zinc

Fortymile district Tanacross (22.15, 9.45)
MF-767E, loc. 12 63°31'N, 141°10'W

Summary: Paleozoic and/or Precambrian? quartz-mica schist contains disseminated pyrite and lead and zinc sulfides. In an area of possible stratiform sulfide deposits. Claim-staking activity, 1975-76. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 12
Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 3

Bluff | Copper, Molybdenum

Fortymile district | Tanacross (19.6, 11.45)
MF-767E, loc. 9 | 63°38'N, 141°29'W

Summary: Disseminated pyrite, chalcopyrite, molybdenite, and magnetite in porphyritic quartz monzonite, granodiorite, and quartz porphyry high-level intrusives of mid-Cretaceous—early Tertiary age; intense hydrothermal alteration. Numerous faults and dikes. Has been explored by surface sampling, diamond drilling, and geophysical methods. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 9
Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 4

(Boulder Cr.) Antimony, Gold, Silver

Tok district
MF-767E, loc. 22

Tanacross (1.6, 4.35)
63°15'N, 143°48'W

Summary: Quartz-stibnite vein between 2 faults that converge upward; at creek level is nearly 20 ft across. Central 6-ft thickness is high-grade stibnite (chiefly bladed crystals) with a little quartz; border zones have less stibnite and more quartz and a few grains of pyrite. Ore carries about $1.00 in gold [at $35] per ton and traces of silver and arsenic. Country rock is Paleozoic or Precambrian schist; much folded, faulted, and cut by granitic rocks. Some ore was mined, but not shipped in 1940-41. Recent production reported. [Moffit, 1954 (B 989-D); Joesting, 1942 (TDM 1); MacKevett and Holloway, 1977 (OF 77-196A)] Includes references to: A Lucky Leak, Stibnite, (Stibnite Cr.), antimony on Tok R.

References

Brooks, 1916 (B 649), p. 63
Moffit, 1938 (B 904), p. 43-45
Joesting, 1942 (TDM 1), p. 13
Smith, 1942 (B 933-A), p. 89
Moffit, 1944 (B 943-B), p. 44-45
Ebbley and Wright, 1948 (RI 4173), p. 4, 30-35
Moffit, 1954 (B 989-D), p. 190, 201, 207-208
Berg and Cobb, 1967 (B 1246), p. 238
Foster, 1970 (I-593)
Cobb, 1972 (MF-383)
Foster and others, 1976 (C 734), p. 2
Singer and others, 1976 (MF-767E), loc. 22
MacKevett and Holloway, 1977 (OF 77-169A), p. 75, loc. 1

Fairplay | Copper, Lead, Molybdenum, Zinc

Fortymile district | Tanacross (13.75, 12.2)
MF-767E, loc. 5 | 63°41'N, 142°12'W

Summary: Disseminated copper, molybdenum, lead, and zinc sulfides in hydrothermally altered Tertiary hypabyssal intrusive and associated felsic volcanic rocks. Claims staked in early 1970's. Other similar prospects in neighborhood. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 5
Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 6

Fishhook | Silver

Fortymile district | Tanacross (20.3, 14.9) approx.
OF 77-168D, loc. 7 | 63°50'N, 141°23'W approx.

Summary: Prospect located on basis of geochemical anomalies. Selected grab samples contain sulfosalts and assay significant silver. Bedrock is augen gneiss (Paleozoic and/or Precambrian in age). [Eberlein and others, 1977 (OF 77-168D)]

Reference

Eberlein and others, 1977 (OF 77-168D), p. 101, loc. 7

(Fortymile R., Dennison Fork) Gold(?)

Fortymile district Tanacross SW¼SE¼ quad.

Summary: Man who prospected somewhere in upper drainage of the Dennison Fork in 1912 reported "very generally distributed" fine gold with some colors from 10¢ to 30¢ in value [gold at $20.67]. [Ellsworth and Davenport, 1913 (B 542)]

Reference

Ellsworth and Davenport, 1913 (B 542), p. 215

Frey | Building stone

Chistochina district | Tanacross (0.4, 0.15)
MF-767E, loc. 24 | 63°01'N, 143°57'W

Summary: Marble consisting of thin laminae, lenses, and veins of magnesite, dolomite, and quartz in shades of green, cream, and white makes up a band 3 to 9 m thick and probably 1.6 km long. In terrane of Paleozoic and/or Precambrian metamorphic rocks. Stone has been quarried for ornamental use. [Singer and others, 1976 (MF-767E); Foster and others, 1976 (C 734)] Name used only in Richter, 1967 (GR 30).

References

Richter, 1967 (GR 30), p. 19
Foster, 1970 (I-593)
Foster and others, 1976 (C 734), p. 2
Singer and others, 1976 (MF-767E), loc. 24

| | |
|---|---|
| Mosquito | Copper, Molybdenum |
| Fortymile district | Tanacross (4.1, 15.55) |
| MF-767E, loc. 1 | 63°53'N, 143°28'W |

Summary: Disseminated chalcopyrite, molybdenite, and pyrite in hydrothermally altered Upper Cretaceous-lower Tertiary quartz monzonite and quartz latite prophyry. Were company drilling and sampling programs, 1974-75. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 1
Eberlein and others, 1977 (OF 77-168D), p. 102, loc. 9

Move | Gold(?)

Fortymile district | Tanacross (23.75, 1.1)
MF-767E, loc. 15 | 63°02'N, 141°01'W

Summary: Gold-bearing quartz veins in Mesozoic or Tertiary granitic rocks; other prospects nearby. [MacKevett and Holloway, 1977 (OF 77-169A)]. Claim staking, 1976 and probably more recently. No information on nature and extent of mineralization. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 15
Eberlein and others, 1977 (OF 77-168D), p. 102, loc. 10
MacKevett and Holloway, 1977 (OF 77-169A), p. 75, loc. 7

Noah | Copper(?)

Tok district | Tanacross (4.65, 2.85)
MF-767E, loc. 21 | 63°10'N, 143°35'W

Summary: Copper prospect in schist near a Mesozoic or Tertiary pluton. [MacKevett and Holloway, 1977 (OF 77-169A)]

References

Singer and others, 1976 (MF-767E), loc. 21
MacKevett and Holloway, 1977 (OF 77-169A), p. 75, loc. 2

Peternie | Copper, Molybdenum, Zinc

Fortymile district | Tanacross (9.65, 10.8)
MF-767E, loc. 2 | 63°37'N, 142°46'W

Summary: Disseminated sulfide minerals occur in altered quartz monzonite and latite prophyry (Late Cretaceous-early Tertiary in age). Bedrock samples contain values of molybdenum and zinc. Company drilling and sampling program, 1974; exploration activity, 1971. Resources column of table lists Mo, Cu, Zn. [Eberlein and others, 1977 (OF 77-168D)] Copper mineral(s) and molybdenite probably present; zinc mineral may have been recognized or Zn may have been found only in analyses. Includes reference to Paternie.

References

Singer and others, 1976 (MF-767E), loc. 2
Eberlein and others, 1977 (OF 77-168D), p. 103, loc. 11

(Pitka Canyon) Copper, Zinc

Fortymile district Tanacross (20.1, 14.85)
MF-767E, loc. 7 63°49'N, 141°24'W

Summary: Disseminated pyrite, chalcopyrite, and sphalerite in float of altered granodiorite and/or gneiss (Paleozoic and/or Precambrian in age). Staked 1975 or 1976. Extent of mineralization not known. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 7
Eberlein and others, 1977 (OF 77-168D), p. 102, loc. 12

Pushbush | Copper, Molybdenum

Fortymile district | Tanacross (21.0, 9.56)
MF-767E, loc 11 | 63°32'N, 141°19'W

Summary: Disseminated pyrite, chalcopyrite, and molybdenite in Tertiary mafic and felsic volcanic rocks and biotite gneiss and schist (Paleozoic and/or Precambrian? in age). Extent of mineralization and other relations not known. Exposed by trenches. [Eberlein and others, 1977 (OF 77-168D)]

References

Singer and others, 1976 (MF-767E), loc. 11
Eberlein and others, 1977 (OF 77-168D), p. 102, loc. 13

(Sixtymile R.) Gold

Fortymile district(?) Tanacross(?)
NE¼NE¼ quad.(?)

Summary: Rich placer gold strike near head of Sixtymile R. reported in 1911. Ground said to be about 20 ft. deep and to average $1 per square foot of bedrock [gold at $20.67]. Not known if strike was in Alaska or Yukon. [Porter, 1912 (B 520)]

References

Porter, 1912 (B 520), p. 212
Singer and others, 1976 (MF-767E)

Taurus | Copper, Molybdenum

Fortymile district | Tanacross (20.9, 11.9)
MF-767E, loc. 10 | 63°39'N, 141°19'W

Summary: Discovered in 1970 in eastern part of altered porphyry system 8 mi long and a little less than a mile wide along trend of Dawson Range (Yukon Territory) where numerous porphyry copper-molybdenum deposits are known. Disseminated chalcopyrite, pyrite, molybdenite, chalcocite, and magnetite are present in hydrothermally altered quartz monzonite to quartz porphyry high-level intrusives (mid-Cretaceous to early Tertiary in age) into upper greenschist-facies metamorphic rocks and gneiss (Paleozoic and/or Precambrian? in age). Extrusive phases may also be present. Numerous faults. Potassic, phyllic, argillic, and propylitic alteration zones recognized. May be near top of a porphyry system. Tourmaline and fluorite are present. Explored by geochemical sampling and surface and airborne geophysical work. East Taurus has been drilled. Partial to complete leaching extends to depth of about 200 ft. Chalcocite mostly above 350 ft. Chalcopyrite-molybdenite mineralization known to 918 ft, the maximum depth drilled. Of 21 diamond drill holes and numerous rotary drill holes, six have reportedly intersected intervals of 0.1% Cu or better. [Eberlein and others, 1977 (OF 77-168D)] Includes references to: East Taurus, West Taurus.

References

Singer and others, 1976 (MF-767E), loc. 10
Eberlein and others, 1977 (OF 77-169D), p. 101, loc. 5

(Timber Cr.) Asbestos

Tok district Tanacross
SW¼SW¼SW¼ quad.

Summary: Sam Gamblin reported finding asbestos in general Timber Cr. area, which is underlain by Paleozoic or Precambrian metamorphic rocks. [Joesting, 1942 (TDM 1); Singer and others, 1976 (MF-767E)]

References

Joesting, 1942 (TDM 1), p. 44
Singer and others, 1976 (MF-767E) [deposit not shown; cited for geology]

Concentrate samples — Molybdenum(?), Tin, Tungsten

Fortymile district — Tanacross

Cassiterite and scheelite were identified in the nonmagnetic fractions of heavy-mineral concentrates of samples of stream sediments or rocks from the following localities. Powellite probably is present in some or all samples.

| | |
|---|---|
| (14.8, 8.7) | 63°29'N, 142°07'W |
| (17.4, 1.7) | 63°05'N, 141°49'W |
| (19.3, 0.8) | 63°02'N, 141°35'W |
| (19.35, 1.9) | 63°05'N, 141°34'W |
| (19.35, 2.25) | 63°06'N, 141°34'W |
| (19.4, 1.65) | 63°04'N, 141°34'W |
| (19.4, 3.0) | 63°09'N, 141°33'W |
| (21.1, 7.35) | 63°24'N, 141°20'W |
| (21.3, 14.9) | 63°49'N, 141°15'W |
| (21.4, 9.45) | 63°31'N, 141°16'W |
| (21.7, 14.2) | 63°47'N, 141°12'W |

Reference

Tripp and others, 1976 (MF-767 O), map A

Concentrate samples — Molybdenum, Tungsten

Fortymile district — Tanacross

Scheelite was identified in the nonmagnetic fractions of heavy-mineral concentrates of samples of stream sediments or rocks from the following localities. Powellite is present in some or all samples, but data are not adequate to specify which samples certainly contain powellite.

| | |
|---|---|
| (1.8, 16.25) | 63°56'N, 143°46'W |
| (1.8, 16.55) | 63°57'N, 143°46'W |
| (2.65, 17.5) | 64°00'N, 143°40'W |
| (3.15, 16.85) | 63°58'N, 143°36'W |
| (3.55, 16.75) | 63°57'N, 143°32'W |
| (4.3, 15.1) | 63°52'N, 143°27'W |
| (4.4, 15.4) | 63°53'N, 143°26'W |
| (4.55, 16.75) | 63°57'N, 143°25'W |
| (4.9, 15.1) | 63°52'N, 143°22'W |
| (4.9, 15.8) | 63°54'N, 143°22'W |
| (5.1, 17.2) | 63°59'N, 143°20'W |
| (5.15, 13.65) | 63°47'N, 143°20'W |
| (5.8, 17.3) | 63°59'N, 143°15'W |
| (6.35, 14.7) | 63°50'N, 143°11'W |
| (6.7, 14.1) | 63°48'N, 143°08'W |
| (6.7, 14.8) | 63°50'N, 143°08'W |
| (7.1, 12.0) | 63°41'N, 143°06'W |
| (7.15, 14.75) | 63°50'N, 143°04'W |
| (7.6, 15.1) | 63°51'N, 143°01'W |
| (8.15, 13.5) | 63°46'N, 142°57'W |
| (8.2, 12.45) | 63°42'N, 142°57'W |
| (8.25, 13.1) | 63°45'N, 142°56'W |
| (8.55, 14.2) | 63°48'N, 142°54'W |
| (8.8, 13.3) | 63°45'N, 142°52'W |
| (9.25, 11.0) | 63°37'N, 142°49'W |
| (9.35, 12.3) | 63°42'N, 142°48'W |
| (9.6, 10.6) | 63°36'N, 142°46'W |
| (9.7, 12.6) | 63°43'N, 142°45'W |
| (9.8, 11.85) | 63°40'N, 142°44'W |
| (9.85, 12.9) | 63°44'N, 142°44'W |
| (10.35, 12.7) | 63°43'N, 142°40'W |
| (10.5, 11.65) | 63°39'N, 142°39'W |
| (10.55, 12.55) | 63°43'N, 142°38'W |
| (10.7, 13.65) | 63°46'N, 142°37'W |
| (11.15, 10.15) | 63°34'N, 142°34'W |
| (11.2, 14.3) | 63°49'N, 142°33'W |
| (11.3, 8.75) | 63°30'N, 142°33'W |
| (11.45, 12.6) | 63°43'N, 142°32'W |
| (11.5, 10.9) | 63°37'N, 142°32'W |

Fortymile district Tanacross

| | |
|---|---|
| (11.65, 6.75) | 63°23'N, 142°31'W |
| (11.75, 14.8) | 63°50'N, 142°29'W |
| (11.85, 9.4) | 63°32'N, 142°29'W |
| (11.9, 12.25) | 63°42'N, 142°28'W |
| (12.6, 6.45) | 63°21'N, 142°24'W |
| (12.65, 11.5) | 63°39'N, 142°22'W |
| (12.75, 12.0) | 63°41'N, 142°22'W |
| (12.8, 10.95) | 63°37'N, 142°21'W |
| (13.0, 13.7) | 63°47'N, 142°19'W |
| (13.2, 6.2) | 63°21'N, 142°19'W |
| (13.25, 15.1) | 63°51'N, 142°17'W |
| (13.45, 10.6) | 63°36'N, 142°17'W |
| (14.0, 15.75) | 63°53'N, 142°11'W |
| (14.05, 5.0) | 63°17'N, 142°13'W |
| (14.1, 6.45) | 63°21'N, 142°13'W |
| (14.2, 11.15) | 63°37'N, 142°11'W |
| (14.3, 6.6) | 63°22'N, 142°11'W |
| (14.45, 12.4) | 63°41'N, 142°09'W |
| (14.5, 15.3) | 63°52'N, 142°07'W |
| (15.0, 10.9) | 63°36'N, 142°05'W |
| (15.1, 15.75) | 63°53'N, 142°03'W |
| (15.3, 5.6) | 63°18'N, 142°03'W |
| (15.35, 14.35) | 63°48'N, 142°01'W |
| (15.45, 4.7) | 63°15'N, 142°03'W |
| (15.6, 16.15) | 63°54'N, 141°59'W |
| (15.65, 14.65) | 63°49'N, 141°59'W |
| (15.75, 3.35) | 63°11'N, 142°01'W |
| (15.8, 13.75) | 63°46'N, 141°58'W |
| (15.9, 12.55) | 63°42'N, 151°57'W |
| (16.1, 7.65) | 63°25'N, 141°57'W |
| (16.5, 16.2) | 63°55'N, 141°52'W |
| (16.7, 11.9) | 63°40'N, 141°51'W |
| (16.75, 11.6) | 63°39'N, 141°51'W |
| (16.9, 12.4) | 63°41'N, 141°50'W |
| (16.9, 13.6) | 63°45'N, 141°49'W |
| (17.0, 4.0) | 63°13'N, 141°51'W |
| (17.0, 5.35) | 63°17'N, 141°51'W |
| (17.05, 5.05) | 63°16'N, 141°50'W |
| (17.3, 3.25) | 63°10'N, 141°49'W |
| (17.45, 4.5) | 63°14'N, 141°48'W |
| (17.5, 3.65) | 63°11'N, 141°47'W |
| (17.7, 8.9) | 63°29'N, 141°45'W |
| (17.7, 15.75) | 63°53'N, 141°42'W |
| (17.75, 11.25) | 63°37'N, 141°43'W |
| (17.8, 7.85) | 63°26'N, 141°44'W |
| (17.8, 8.7) | 63°29'N, 141°44'W |

Fortymile district Tanacross

| | |
|---|---|
| (18.15, 7.6) | 63°25'N, 141°41'W |
| (18.2, 7.3) | 63°24'N, 141°41'W |
| (18.3, 11.9) | 63°40'N, 141°39'W |
| (18.4, 15.75) | 63°53'N, 141°37'W |
| (19.05, 12.2) | 63°40'N, 141°33'W |
| (19.2, 7.95) | 63°26'N, 141°34'W |
| (19.2, 11.0) | 63°36'N, 141°32'W |
| (19.25, 12.9) | 63°43'N, 141°31'W |
| (19.3, 17.6) | 63°59'N, 141°30'W |
| (19.5, 15.4) | 63°51'N, 141°29'W |
| (19.7, 11.65) | 63°38'N, 141°29'W |
| (19.7, 12.2) | 63°40'N, 141°28'W |
| (19.8, 3.85) | 63°12'N, 141°30'W |
| (19.85, 3.55) | 63°11'N, 141°30'W |
| (19.9, 8.15) | 63°27'N, 141°28'W |
| (19.9, 8.85) | 63°29'N, 141°28'W |
| (10.0, 8.55) | 63°28'N, 141°27'W |
| (20.2, 13.6) | 63°45'N, 141°24'W |
| (20.3, 12.6) | 63°42'N, 141°23'W |
| (20.35, 13.15) | 63°44'N, 141°23'W |
| (20.45, 15.55) | 63°52'N, 141°21'W |
| (20.5, 13.85) | 63°46'N, 141°21'W |
| (20.55, 13.65) | 63°45'N, 141°21'W |
| (20.6, 13.3) | 63°44'N, 141°21'W |
| (20.75, 6.0) | 63°19'N, 141°22'W |
| (20.85, 9.9) | 63°32'N, 141°20'W |
| (20.85, 10.5) | 63°35'N, 141°20'W |
| (21.3, 10.35) | 63°34'N, 141°16'W |
| (21.5, 13.05) | 63°43'N, 141°14'W |
| (21.65, 12.1) | 63°40'N, 141°13'W |
| (21.85, 15.55) | 63°52'N, 141°10'W |
| (21.9, 17.6) | 63°59'N, 141°09'W |
| (22.0, 12.8) | 63°41'N, 141°10'W |
| (22.0, 13.15) | 63°43'N, 141°10'W |
| (22.0, 18.0) | 64°00'N. 141°09'W |
| (22.1, 15.7) | 63°52'N, 141°09'W |
| (22.25, 6.2) | 63°20'N, 141°11'W |
| (22.3, 9.8) | 63°32'N, 141°09'W |
| (22.5, 5.0) | 63°15'N, 141°09'W |
| (22.6, 1.7) | 63°04'N, 141°09'W |
| (22.7, 14.35) | 63°47'N, 141°04'W |
| (22.75, 1.2) | 63°03'N, 141°08'W |
| (22.75, 2.6) | 63°07'N, 141°08'W |
| (22.75, 4.0) | 63°12'N, 141°07'W |
| (22.85, 3.55) | 63°11'N, 141°07'W |

Fortymile district Tanacross

| | |
|---|---|
| (22.85, 3.55) | 63°11'N, 141°07'W |
| (22.85, 10.65) | 63°35'N, 141°04'W |
| (22.9, 11.9) | 63°39'N, 141°04'W |
| (22.9, 14.6) | 63°48'N, 141°03'W |
| (22.95, 17.9) | 63°59'N, 141°01'W |
| (23.0, 0.3) | 63°02'N, 141°06'W |
| (23.0, 3.15) | 63°09'N, 141°06'W |
| (23.05, 1.8) | 63°05'N, 141°06'W |
| (23.05, 8.2) | 63°26'N, 141°04'W |
| (23.2, 5.45) | 63°17'N, 141°04'W |
| (23.2, 10.0) | 63°32'N, 141°02'W |
| (23.2, 11.05) | 63°36'N, 141°01'W |
| (23.2, 12.25) | 63°40'N, 141°01'W |
| (23.25, 1.1) | 63°02'N, 141°05'W |
| (23.4, 6.65) | 63°21'N, 141°02'W |

Reference

Tripp and others, 1976 (MF-767 O), map A

Concentrate samples Molybdenum, Tungsten

Goodpaster district Tanacross

Scheelite was identified in the nonmagnetic fractions of heavy-mineral concentrates of samples of stream sediments or rocks from the following localities. Powellite is present in some or all samples, but data are not adequate to specify which samples certainly contain powellite.

| | |
|---|---|
| (0.25, 15.3) | 63°52'N, 143°58'W |
| (0.7, 4.45) | 63°49'N, 143°55'W |
| (0.8, 16.85) | 63°58'N, 143°54'W |
| (0.85, 16.0) | 63°55'N, 143°53'W |
| (1.0, 14.8) | 63°51'N, 143°52'W |
| (1.05, 17.3) | 63°59'N, 143°51'W |
| (1.1, 12.75) | 63°44'N, 143°51'W |
| (1.3, 14.15) | 63°45'N, 143°50'W |
| (1.7, 12.5) | 63°43'N, 143°47'W |
| (1.9, 12.05) | 63°41'N, 143°45'W |
| (1.9, 14.65) | 63°50'N, 143°45'W |
| (2.1, 11.35) | 63°39'N, 143°44'W |
| (2.15, 13.6) | 63°47'N, 143°43'W |
| (2.2, 14.8) | 63°51'N, 143°43'W |
| (2.3, 15.25) | 63°52'N, 143°42'W |
| (2.4, 10.55) | 63°36'N, 143°42'W |
| (2.4, 15.0) | 63°51'N, 143°41'W |
| (2.6, 13.2) | 63°45'N, 143°40'W |
| (2.65, 9.65) | 63°33'N, 143°40'W |
| (2.7, 12.85) | 63°44'N, 143°39'W |
| (2.75, 8.2) | 63°28'N, 143°39'W |
| (2.75, 15.5) | 63°53'N, 143°38'W |
| (2.8, 14.25) | 63°49'N, 143°38'W |
| (2.85, 14.6) | 63°50'N, 143°38'W |
| (3.05, 8.35) | 63°28'N, 143°37'W |
| (3.1, 15.75) | 63°54'N, 143°36'W |
| (3.2, 15.9) | 63°54'N, 143°34'W |
| (3.4, 10.6) | 63°36'N, 143°34'W |
| (3.4, 11.2) | 63°38'N, 143°33'W |
| (3.4, 12.75) | 63°43'N, 143°34'W |
| (3.5, 9.0) | 63°31'N, 143°33'W |
| (3.5, 12.45) | 63°43'N, 143°33'W |
| (3.6, 8.15) | 63°28'N, 143°32'W |
| (3.6, 8.7) | 63°30'N, 143°32'W |
| (3.8, 7.9) | 63°27'N, 143°31'W |
| (3.85, 13.2) | 63°45'N, 143°30'W |
| (4.05, 12.9) | 63°44'N, 143°29'W |
| (4.25, 8.7) | 63°30'N, 143°27'W |
| (4.8, 11.7) | 63°40'N, 143°23'W |

Concentrate samples Molybdenum, Tungsten (cont.)

Goodpaster district Tanacross

| | |
|---|---|
| (4.9, 9.05) | 63°31'N, 143°22'W |
| (5.05, 8.85) | 63°30'N, 143°21'W |
| (5.15, 9.85) | 63°39'N, 143°20'W |
| (5.3, 10.35) | 63°35'N, 143°19'W |
| (5.5, 11.9) | 63°41'N, 143°18'W |
| (6.0, 8.85) | 63°30'N, 143°14'W |
| (6.3, 12.0) | 63°41'N, 143°11'W |
| (7.4, 8.7) | 63°30'N, 143°03'W |

Reference

Tripp and others, 1976 (MF-767 O), map A

Concentrate samples | Molybdenum, Tungsten

Tok district | Tanacross

Scheelite was identified in the nonmagnetic fractions of heavy-mineral concentrates of samples of stream sediments or rocks from the following localities. Powellite is present in some or all samples, but data are not adequate to specify which samples certainly contain powellite.

| | |
|---|---|
| (0.1, 3.4) | 63°12'N, 143°59'W |
| (0.4, 5.9) | 63°20'N, 143°57'W |
| (0.4, 8.0) | 63°27'N, 143°57'W |
| (0.7, 4.4) | 63°15'N, 143°55'W |
| (0.85, 4.15) | 63°14'N, 143°54'W |
| (0.85, 5.4) | 63°18'N, 143°54'W |
| (0.95, 6.85) | 63°23'N, 143°53'W |
| (1.55, 4.4) | 63°15'N, 143°48'W |
| (1.6, 4.6) | 63°16'N, 143°48'W |
| (1.65, 5.1) | 63°17'N, 143°47'W |
| (1.8, 4.0) | 63°14'N, 143°46'W |
| (1.8, 6.2) | 63°21'N, 143°46'W |
| (2.25, 6.45) | 63°22'N, 143°43'W |
| (2.45, 4.5) | 63°45'N, 143°41'W |
| (2.75, 5.9) | 63°20'N, 143°39'W |
| (2.95, 6.1) | 63°21'N, 143°37'W |
| (3.0, 5.8) | 63°20'N, 143°37'W |
| (3.4, 5.3) | 63°18'N, 143°34'W |
| (3.6, 6.45) | 63°22'N, 143°33'W |
| (4.35, 5.65) | 63°19'N, 143°27'W |
| (5.25, 4.9) | 63°17'N, 143°20'W |

Reference

Tripp and others, 1976 (MF-767 O), map A

Concentrate samples — Tin

Fortymile district — Tanacross

Cassiterite was identified in the nonmagnetic fractions of heavy-mineral concentrates of samples of stream sediments or rocks from the following localities.

| | |
|---|---|
| (14.9, 8.2) | 63°27'N, 142°06'W |
| (19.15, 3.9) | 63°12'N, 141°35'W |
| (21.9, 8.3) | 63°27'N, 141°12'W |
| (22.15, 7.4) | 63°24'N, 141°11'W |
| (22.2, 7.85) | 63°25'N, 141°10'W |

Reference

Tripp and others, 1976 (MF-767 O), map A

Synonyms, Owners, Operators, and Claim Names

American Smelting & Refining Co. -- see Blue Lead
Caribou Gold Dredging Co. -- see (Caribou Cr.)
Caribou Mining Co. -- see (Caribou Cr.)
Goodpaster Exploration -- see Gray Quartz Lead
Hidden Treasure -- see (Tibbs Cr.)
Hirschberger & Johnson -- see Blue Lead
Martha -- see (Banner Cr.)
McCord -- see Blue Lead
Michigan Lead -- see (Tibbs Cr.)
Noribu -- see (Nickel Cr.)
Puntilla -- see (Tenderfoot Cr.)
(Pyne Cr.) -- see (Pine Cr.)
Ricks -- see (Nickel Cr.)
Salcha Mining Co. -- see (Caribou Cr.)
Shuff -- see Democrat
Stevens & Johnson -- see (Caribou Cr.)
Tibbett -- see Blue Lead

Synonyms, Owners, Operators, and Claim Names

A Lucky Leak -- see (Boulder Cr.)
Caulk -- see (Boulder Cr.)
East Taurus -- see Taurus
Gamblin (& Murhoffer) -- see (Boulder Cr.)
(Lost Cr.) -- see Frey
Paternie -- see Peternie
Rambler -- see (Boulder Cr.)
Stibnite -- see (Boulder Cr.)
(Stibnite Cr.) -- see (Boulder Cr.)
(Tok R.) -- see (Boulder Cr.)
West Taurus -- see Taurus

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