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 NABESNA QUADRANGLE, ALASKA

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This report is preliminary
and has not been edited or
reviewed for conformity with
Geological Survey 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 and in one Geological Survey of Canada report are designed to aid in library research on the mineral resources of the Nabesna quadrangle, Alaska. The references listed 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. The cut-off date for reports and maps cited in this report is December 31, 1979. Data on claims about which little more than their locations is known (for example, most of the localities on p. 53 in MacKevett and Holloway, 1977 (OF 77-169A)) are not included. 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 analyses 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; a second section that lists 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 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 (metallic commodities listed alphabetically and followed by nonmetallic commodities); 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 (Nabesna); coordinates (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 cited 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" or "Unnamed prospect" and appears at the end of the list. If part of a 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. Abbreviation used are:

- B U.S. Geological Survey Bulletin
- BMB U.S. Bureau of Mines Bulletin
- C U.S. Geological Survey Circular
- GQ U.S. Geological Survey Geologic Quadrangle Map
- 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 (numbers with a hyphen in them are formal; numbers without a hyphen are informal and used only within the Branch of Alaskan Geology of the U.S. Geological Survey)
- 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

Index map

(Ahtell Cr.)

Gold

Chistochina district
MF-422, loc. 51

Nabesna (0.2, 12.8)
62°44'N, 143°59'W

Summary: Auriferous gravel near lower end of canyon. Material of local origin in bends of canyon and at mouth. Amount of gravel small. [Moffit, 1938 (B 904)] See also (Ahtell Cr.) Gulkana quad.

References

- Mendenhall and Schrader, 1903 (P 15), p. 47
Moffit, 1938 (B 904), p. 48, 51
Smith, 1939 (B 917-A), p. 38
Smith, 1941 (B 926-A), p. 34
Moffit, 1954 (B 989-D), p. 190
Richter, 1966 (GR 21), p. 34
Richter and Matson, 1972 (MF-422), loc. 51
MacKevett and Holloway, 1977 (OF 77-169A), p. 53, loc. 78

Baultoff

Copper, Gold, Silver

Chisana district

Nabesna (22.85, 2.4)

MF-655K, loc. 53

62°07'N, 141°13'W

Summary: Porphyry copper deposit. Disseminated pyrite and chalcopyrite in diorite and quartz diorite porphyry of Cretaceous Klein Creek batholith. Resource estimated at 160 million tonnes of material averaging 0.20% Cu; very low Mo (surface samples less than 0.01% Mo). Gold and silver present. Post-1967 prospecting activity reported. [Matson and Richter, 1971 (OF 471); Richter and others, 1975 (MF-655K); Richter and others, 1973 (I-807)] Includes references to (Baultoff Cr.).

References

Matson and Richter, 1971 (OF 471), p. 10, loc. 4; samples 138, 139

Richter and Matson, 1972 (MF-422), loc. 41

Richter and others, 1973 (I-807), loc. 4

Richter and others, 1975 (MF-655K), loc. 53

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 46

(Big Eldorado Cr.)

Gold

Chisana district
MF-422, loc. 65

Nabesna (16.95-17.1, 2.0-2.2)
62°02'N, 141°55'-141°56'W

Summary: Bedrock Cretaceous or Tertiary pyroxene diorite-monzonite. Most of placer gold is bright and rough, some with crystal faces and some with attached quartz; undoubtedly of local derivation, unlike most in area. Gold mostly on and in cracks in bedrock. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Capps, 1915 (B 622), p. 204-205, 211, 220-221
Capps, 1916 (B 630), p. 93-95, 104, 113-114, 117
Brooks, 1916 (B 642), p. 62
Brooks, 1918 (B 662), p. 55
Martin, 1919 (B 692), p. 36
Smith, 1934 (B 864-A), p. 42
Smith, 1936 (B 868-A), p. 44
Smith, 1939 (B 910-A), p. 56
Smith, 1939 (B 917-A), p. 55
Smith, 1941 (B 926-A), p. 53
Moffit, 1954 (B 989-D), p. 199
Richter and Matson, 1972 (MF-422), loc. 65
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 64
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 56

Big Eldorado (Lode)

Copper, Gold

Chisana district
MF-655K, loc. 38

Nabesna (16.95, 2.15)
62°06'N, 141°56'W

Summary: Quartz vein with pyrite, chalcopyrite, and gold in syenodiorite of Cretaceous age. Post-1967 prospecting activity reported. [Richter and others, 1975 (MF-655K)]

References

- Richter and Matson, 1972 (MF-422), loc. 31
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 38
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 34

(Bonanza Cr.)

Copper, Gold, Lead, Mercury, Molybdenum,
Silver

Chisana district
MF-422, loc. 64

Nabesna (17.55-18.35, 1.7-2.4)
62°05'-62°07'N, 141°46'-141°52'W

Summary: Bedrock mainly volcanic rocks of the Cretaceous Chisana Fm.; at extreme headwaters Jurassic and Cretaceous clastic rocks. Both stream and bench (including old channel fillings) placers mined. In stream placers most of gold on and in top 2-2½ ft. of bedrock. Gold probably mainly from Tertiary continental deposits, a remnant of which caps Gold Hill. Concentrates contain: gold, native silver, native copper, galena, cinnabar, and molybdenite. Principal placer stream of district; total gold production from district worth about \$970,000 [mainly at \$20.67]; primarily between 1913 and 1916; some claims still being worked, but production since 1940 has been insignificant. [Capps, 1916 (B 630); Moffit, 1943 (B 933-B); Richter and Jones, 1973 (I-749); Richter and Matson, 1970 (OF 397)] See also Erie.

References

- Brooks, 1914 (B 592), p. 316
Brooks, 1915 (B 622), p. 60
Capps, 1915 (B 622), p. 202-204, 208-216, 222
Brooks, 1916 (B 642), p. 62
Capps, 1916 (B 630), p. 92-95, 99-109, 115
Smith, 1917 (BMB 142), p. 26
Brooks, 1918 (B 662), p. 55
Martin, 1919 (B 692), p. 36
Brooks and Martin, 1921 (B 714), p. 84
Smith, 1926 (B 783), p. 14
Smith, 1929 (B 797), p. 23
Smith, 1930 (B 813), p. 35
Smith, 1933 (B 836), p. 40
Smith, 1934 (B 864-A), p. 42
Smith, 1936 (B 868-A), p. 44
Moffit, 1937 (B 880-B), p. 105
Smith, 1937 (B 880-A), p. 47
Smith, 1938 (B 897-A), p. 55
Smith, 1939 (B 910-A), p. 56
Smith, 1939 (B 917-A), p. 55
Smith, 1941 (B 926-A), p. 53
Smith, 1942 (B 926-C), p. 193
Smith, 1942 (B 933-A), p. 50
Moffit, 1943 (B 933-B), p. 170-174
Wedow and others, 1953 (C 248), p. 7
Moffit, 1954 (B 989-D), p. 196-200, 203

(Bonanza Cr.) -- cont.

Nelson and others, 1954 (C 348), p. 4-5
Malone, 1965 (IC 8252), p. 54
Koschmann and Bergendahl, 1968 (P 610), p. 25
Richter and Matson, 1970 (QF 397)
Richter and Matson, 1972 (MF-422), loc. 64
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 65
MacKevett and Holloway, 1977 (QF 77-169A), p. 52, loc. 57

(Bond Cr.)

Copper, Gold, Molybdenum, Silver

Chisana district
MF-655K, loc. 30

Nabesna (10.6, 3.65)
62°12'N, 142°42'W

Summary: Porphyry copper deposit. Pyrite, chalcopyrite, and minor molybdenite in quartz veinlets and as disseminations in granodiorite and quartz monzonite porphyry. Resource estimated at 500 million tonnes of material averaging 0.30% Cu and 0.02% Mo. Minor gold and silver. Has been limited prospect drilling. General area underlain by Triassic Nikolai Greenstone and Cretaceous granitic rocks of Nabesna pluton, which were intruded by Tertiary porphyry dikes and small stocks. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1970 (OF 398), area 3
Richter and Matson, 1972 (MF-422), loc. 16
Richter, 1973 (I-789), loc. 3
Richter and others, 1975 (MF-655K), loc. 30
Richter, 1976 (I-932) [deposit not shown, cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 26

(Boulder Cr.)

Gold

Chistochina district
MF-655K, loc. 59

Nabesna (0.05, 13.6)
62°47'N, 144°00'W

Summary: Has been placer mining. Gold coarse grained and smooth. Production undoubtedly very small. [Richter, 1966 (GR 21); Richter and others, 1975 (MF-655K)] In many references there is confusion between Boulder and Slope Creeks; some probably apply to both, but do not identify either. Bismuth, copper, and silver reported from Slope Cr. may also be present at Boulder Cr. See also: (Boulder Cr.) Gulkana quad., (Slope Cr.).

References

- Moffit, 1938 (B 904), p. 50-51
Moffit, 1954 (B 989-D), p. 195
Richter, 1966 (GR 21), p. 34
Richter and Matson, 1972 (MF-422), loc. 49
Richter and others, 1975 (MF-655K), loc. 59
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 51

(Bryan Cr.)

Copper, Gold

Chisana district
MF-655K, loc. 68

Nabesna (16.8-16.9, 0.9)
62°02'N, 141°57'W

Summary: Prospecting in 1914. Abundant copper nuggets. Some gold in stream gravels, particularly on clay false bedrock. Bedrock volcanic rocks of Cretaceous Chisana Fm. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Capps, 1915 (B 622), p. 223
Capps, 1916 (B 630), p. 115-116
Moffit, 1954 (B 989-D), p. 200
Richter and Matson, 1972 (MF-422), loc. 67
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 68
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 60

(Camp Cr.)

Copper

Chisana district
MF-655K, loc. 15

Nabesna (10.4, 6.1)
62°21'N, 142°43'W

Summary: Chalcocite vein in anygdaloidal basalt flows of Triassic
Nikolai Greenstone. [Richter and others, 1975 (MF-655K)]

References

- Mendenhall and Schrader, 1903 (P 15), p. 39
Mendenhall and Schrader, 1903 (B 213), p. 148
Brooks, 1907 (B 314), p. 28
Berg and Cobb, 1967 (B 1246), p. 208
Richter and Matson, 1972 (MF-422), loc. 11
Richter and others, 1975 (MF-655K), loc. 15
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 12

(Canyon Cr.)

Gold(?)

Chisana district

Nabesna (17.5, 2.0)
62°06'N, 141°52'W

Summary: Gold-quartz claims staked, but no reported development.
[Capps, 1916 (B 630)]

References

Capps, 1915 (B 622), p. 225

Capps, 1916 (B 630), p. 119

(Carden Cr.)

Gold(?)

Chisana district

Nabesna (22.25, 4.5) approx.
62°14'N, 141°18'W approx.

Summary: Gold-bearing lode on which a short tunnel was driven reported to (but not visited by) Survey. Said to be near a small body of granodiorite. [Moffit, 1943 (B 933-B)] Recent mapping [Richter, 1976 (I-932)] shown no granitic rocks anywhere near Carden Cr. Location given above may be within 3 miles of reported prospect.

References

Moffit, 1943 (B 933-B), p. 164

Berg and Cobb, 1967 (B 1246), p. 205

(Carl Cr.)

Copper, Gold, Silver

Chisana district
MF-655K, locs. 45, 46

Nabesna (19.8-19.95, 1.15-1.25)
62°03'N, 141°35'W

Summary: Porphyry copper deposit. Pyrite and chalcopyrite in quartz veinlets and as disseminations in Cretaceous granodiorite and quartz monzonite. Resource estimated at 16 million tonnes of material averaging 0.20% Cu and very low Mo (surface samples contained less than 0.01% Mo). Gold and silver present. Post-1967 prospecting reported. [Richter and others, 1975 (MF-655K); Richter and Jones, 1973 (I-749)]

References

- Richter and Matson, 1970 (OF 397), areas 4, 5
Richter and Matson, 1972 (MF-422), loc. 38
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), locs. 45, 46
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 34

(Chathenda Cr.)

Copper, Gold

Chisana district

Nabesna (16.7-17.5, 1.3-1.8)

MF-655K, locs. 39-41, 66, 67

62°04'-62°05'N, 141°53'-141°58'W

Summary: Locally gold-bearing quartz-pyrite veins in volcanic rocks of Cretaceous Chisana Fm. [MF-655K, locs. 39-41] have been explored in a small way; assays as high as \$200 a ton in gold reported [but not confirmed]. Samples collected recently had no detectable gold. Placer gold in stream gravels [MF-655K, locs. 66, 67]; in places accompanied by nuggets of native copper. Was very little placer mining. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749); Richter and others, 1975 (MF-655K); Richter and Matson, 1970 (OF 397)] See also Erie.

References

- Capps, 1915 (B 622), p. 221-223, 225
Capps, 1916 (B 630), p. 92-94, 114-115, 119
Moffit, 1943 (B 933-B), p. 165
Berg and Cobb, 1967 (B 1246), p. 205, 208-209
Richter and Matson, 1970 (OF 397)
Richter and Matson, 1972 (MF-422), locs. 32, 33, 66
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749) [deposits not shown; cited for geology]
Richter and others, 1975 (MF-655K), locs. 39-41, 66, 67
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 35; p. 52, locs. 58, 59

(Chavolda Cr.)

Gold

Chisana district
MF-422, loc. 55

Nabesna (16.8-17.0, 2.5-2.65)
62°08'N, 141°56'-141°57'W

Summary: Mainly prospecting activity. A little gold was found near the mouths of Glacier Cr. and Alder Gulch. [Capps, 1916 (B 630)]

References

Capps, 1915 (B 622), p. 223

Capps, 1916 (B 630), p. 116

Richter and Matson, 1972 (MF-422), loc. 55

Richter and others, 1975 (MF-655K), loc. 62

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 54

(Cheslina R.) (Cr.)

Gold

Chisana district

Nabesna (11.6, 11.7) approx.
62°40'N, 142°34'W approx.

Summary: Gold in deep, frozen gravels. Undoubtedly not economic.
[Moffit, 1941 (B 917-B)]

References

Moffit, 1941 (B 917-B), p. 153-154

Moffit, 1954 (B 989-D), p. 190, 200-201

(Coarse Money Cr.)

Gold

Chisana district

Nabesna (18.0-18.1, 2.35-2.55)

MF-422, loc. 63

62°07'-62°08'N, 141°48'-141°49'W

Summary: Headwater tributary of Bonanza Cr.; drains area underlain by Jurassic and Cretaceous clastic rocks, mainly argillite and mudstone. Gold placer mining in 1915 and 1940 reported. [Richter and Jones, 1973 (I-749); Brooks, 1916 (B 642); Moffit, 1943 (B 933-B)]

References

Brooks, 1916 (B 642), p. 62

Moffit, 1943 (B 933-B), p. 173

Richter and Matson, 1972 (MF-422), loc. 63

Richter and Jones, 1973 (I-749)

Richter and others, 1975 (MF-655K), loc. 65

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 57

(Cooper Cr.)

Copper

Chisana district

Nabesna (12.3, 5.0)

OF 531, loc. 91

62°17'N, 142°30'W

Summary: Grab sample of stained hornblende diorite of Tertiary age contained disseminated pyrite and chalcopyrite. [Matson and Richter, 1972 (OF 531); Richter, 1975 (I-904)]

References

Matson and Richter, 1972 (OF 531), p. 2, loc. 91

Richter, 1975 (I-904) [deposit not shown, cited for local geology]

(Cross Cr.)

Copper, Lead, Silver, Zinc

Chisana district

Nabesna (11.55, 1.6)

MF-655K, loc. 34

62°05'N, 142°35'W

Summary: Zone of strong hydrothermal alteration containing fragments of volcanic rock cemented by quartz containing minor pyrite, sphalerite, galena, and chalcopyrite. Grab sample of float contained 50 ppm Ag. Breccia-pipe deposit. Country rock mapped as Tertiary porphyry complex which may include some Pennsylvanian through Triassic rocks also. [Richter and others, 1975 (MF-655K); Richter and Matson, 1970 (OF 398); Richter, 1976 (I-932)]

References

Moffit and Knopf, 1909 (B 379), p. 173

Moffit and Knopf, 1910 (B 417), p. 55

Capps, 1916 (B 630), p. 121

Moffit, 1943 (B 933-B), p. 174

Moffit, 1954 (B 989-D), p. 210

Berg and Cobb, 1967 (B 1246), p. 209

Richter and Matson, 1970 (OF 398), area 8

Richter and Matson, 1972 (MF-422), loc. 28

Richter, 1973 (I-789), loc. 16

Richter and others, 1975 (MF-655K), loc. 34

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 3C

(Discovery Pup) (Gulch)

Gold

Chisana district

Nabesna (17.25, 2.45)

MF-422, loc. 57

62°07'N, 141°54'W

Summary: Tributary of Gold Run Cr.; mining in 1936 and 1940 was reported. [Smith, 1938 (B 897-A); Moffit, 1943 (B 933-B)]
For data on gold and its probable origin see (Glacier Cr.) sheet.

References

Smith, 1938 (B 897-A), p. 55

Moffit, 1943 (B 933-B), p. 173

Richter and Matson, 1972 (MF-422), loc. 57

Richter and others, 1975 (MF-655K), loc. 63

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 55

(Dry Gulch)

Gold

Chisana district

Nabesna (17.0, 1.5)
62°04'N, 141°56'W

Summary: Shafts near divide between Dry and Alder Gulches were sunk more than 60 ft in gravels without reaching bedrock; gravels carry some gold. Near mouth shaft 92 ft. deep cut 2 layers of auriferous gravel. Lode claims staked on both sides of gulch [no data on gold content, if any]. [Capps, 1916 (B 630)] Descriptions of Dry Gulch do not match modern maps; stream called Dry Gulch in reports is probably the one called Salt Cr. on Nabesna A-2 sheet; coordinates above are for this locality. Locality 54 on Richter and Matson, 1972 (MF-422) probably is incorrect.

References

Capps, 1915 (B 622), p. 222-223, 225

Capps, 1916 (B 630), p. 115, 119

Smith, 1917 (BMB 142), p. 26

Richter and Matson, 1972 (MF-422), loc. 54 [location probably incorrect]

(East Fork)

Copper(?), Molybdenum

Chisana district

Nabesna (10.9, 4.25)

MF-655K, loc. 31

62°14'N, 142°41'W

Summary: Porphyry molybdenum deposit. Quartz-pyrite-molybdenite veins and veinlets in strongly altered and brecciated trondhjemite of Cretaceous Nabesna pluton. Has been post-1967 prospecting activity. Deposit estimated to contain about 50 million tonnes of material averaging 0.01% Mo. [Richter and others, 1975 (MF-655K)] Earlier references list copper as a resource, but recent ones list only molybdenum.

References

Richter and Matson, 1972 (MF-422), loc. 17

Richter, 1973 (I-789), loc. 19

Richter and others, 1975 (MF-655K), loc. 31

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 27

Erie

Gold, Lead, Silver

Chisana district
MF-422, loc. 34

Nabesna (17.55, 1.75)
62°05'N, 141°52'W

Summary: Dike cuts volcanic rocks of Cretaceous Chisana Fm. Quartz veins in dike and dike rock itself mineralized. Pyrite, argentiferous galena (22 oz. silver per ton), and free gold (can be panned from oxidized vein material) reported. Explored by several short adits. [Moffit, 1943 (B 933-B); Richter and Jones, 1973 (I-749)] Richter and Matson reported that samples they collected contained no detectable gold. [Richter and Matson, 1970 (OF 397)] Includes references to lode at mouth of Bonanza Cr.

References

- Capps, 1915 (B 622), p. 224-225
Capps, 1916 (B 630), p. 90, 118-119
Moffit, 1943 (B 933-B), p. 164-165
Berg and Cobb, 1967 (B 1246), p. 205
Richter and Matson, 1970 (OF 397)
Richter and Matson, 1972 (MF-422), loc. 34
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 42
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 36

(Eureka Cr.)

Gold(?), Lead, Silver, Zinc

Chisana district(?)

Nabesna (24.65, 1.65) approx.

MF-422, loc. 47(?)

62°04'N, 141°00'W approx.

Summary: 60-ft. adit driven on an argentiferous galena- and sphalerite-bearing crushed zone 6-8 ft. wide apparently in a porphyry dike cutting shale country rock. [Moffit and Knopf, 1910 (B 417)] Includes references to Eureka. Prospect may well be on Canadian side of border. Several secondary references list gold as being present, but basic reference does not, although prospect is described in a section on gold.

References

Moffit and Knopf, 1909 (B 379), p. 177-178

Moffit and Knopf, 1910 (B 417), p. 59

Capps, 1915 (B 622), p. 224

Capps, 1916 (B 630), p. 118

Berg and Cobb, 1967 (B 1246), p. 205, 208

Matson and Richter, 1971 (OF 471), p. 10, loc. 7

Richter and Matson, 1972 (MF-422), loc. 47

(Fourmile Cr.)

Copper, Gold

Chisana district

Nabesna

SE $\frac{1}{4}$ SE $\frac{1}{4}$ quad.

Summary: Quartz lodes 8-30 ft. thick reported; contain a little chalcopryite and gold. Gold can be panned from some of the quartz when crushed. [Moffit and Knopf, 1910 (B 417)] Includes references to: Husky, Jumbo. Note: Cannot be located closely; maps and descriptions do not agree. The Fourmile Cr. of the references listed below may be the stream now called Baultoff Cr.

References

- Moffit and Knopf, 1909 (B 379), p. 178
Moffit and Knopf, 1910 (B 417), p. 60
Capps, 1915 (B 622), p. 224
Capps, 1916 (B 630), p. 118
Berg and Cobb, 1967 (B 1246), p. 205, 208
Richter and Matson, 1972 (MF-422)

(Glacier Cr.)

Gold

Chisana district
MF-422, loc. 56

Nabesna (17.1-17.2, 2.6-2.65)
62°08'N, 141°54-141°55'W

Summary: Most of mining in basin was on tributaries. Gold smooth and worn. Probably reconcentrated from Tertiary gravel, a remnant of which caps Gold Hill. [Capps, 1916 (B 630)] See also: (Discovery Pup), (Gold Run Cr.), (Poorman Cr.).

References

- Capps, 1916 (B 630), p. 93-95
Smith, 1942 (B 933-A), p. 50
Moffit, 1943 (B 933-B), p. 173
Richter and Matson, 1972 (MF-422), loc. 56
Richter and others, 1975 (MF-655K), loc. 63
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 55

(Gold Run Cr.)

Gold

Chisana district

Nabesna (17.2-17.4, 2.25-2.6)

MF-422, loc. 59

62°07'-62°08'N, 141°53'-141°54'W

Summary: Bedrock slate, graywacke, and conglomerate of Jurassic and Cretaceous age. Stream drains Gold Hill, which is capped by auriferous Tertiary gravel, the probably source of gold, which is in both stream and bench placers; in some of stream placers top few feet of bedrock also must be taken up and sluiced. (Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Capps, 1915 (B 622), p. 218-219
Brooks, 1916 (B 642), p. 62
Capps, 1916 (B 630), p. 111-112, 116
Brooks, 1918 (B 662), p. 55
Martin, 1919 (B 692), p. 36
Smith, 1932 (B 824), p. 39-40
Smith, 1933 (B 836), p. 41
Smith, 1936 (B 868-A), p. 44
Smith, 1937 (B 880-A), p. 47
Smith, 1939 (B 910-A), p. 56
Smith, 1939 (B 917-A), p. 55
Smith, 1941 (B 926-A), p. 53
Smith, 1942 (B 933-A), p. 50
Moffit, 1943 (B 933-B), p. 173
Moffit, 1954 (B 989-D), p. 199
Richter and Matson, 1972 (MF-422), loc. 59
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 63
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 55

(Gravel Cr.)

Copper, Gold

Chisana district
MF-655K, loc. 50

Nabesna (22.6, 1.85)
62°05'N, 141°15'W

Summary: Porphyry copper deposit. Disseminated pyrite and minor chalcopyrite in small Cretaceous diorite stock in hornfelsed Jurassic and Cretaceous argillite. Resource estimated at 12 million tonnes of material averaging 0.20% Cu and very low Mo; no analytical data given. Gold present, but no assay data. Post-1967 prospecting activity reported. [Richter and others, 1975 (MF-665K); Richter and others, 1973 (I-807)]

References

- Richter and Matson, 1972 (MF-422), loc. 40
Richter and others, 1973 (I-807), loc. 5
Richter and others, 1975 (MF-655K), loc. 50
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 43

Horsfeld

Copper, Gold, Silver(?)

Chisana district

Nabesna (22.9, 1.35)

MF-655K, loc. 52

62°03'N, 141°13'W

Summary: Porphyry copper deposit. Pyrite and chalcopyrite in quartz veinlets and as disseminations in monzonite and monzonite porphyry of Cretaceous Klein Creek batholith. Resource estimated at 60 million tonnes of material averaging 0.20% Cu and very low Mo (all surface samples contained less than 0.01% Mo). Some gold present. Silver listed in table, but no assay data given. Post-1967 prospecting activity reported. [Richter and others, 1975 (MF-655K); Richter and others, 1973 (I-807)]

References

- Matson and Richter, 1971 (OF 471), loc. 5; samples 148, 149
Richter and Matson, 1972 (MF-422), loc. 43
Richter and others, 1973 (I-807), loc. 7
Richter and others, 1975 (MF-655K), loc. 52
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 45

(Horsfeld Cr.)

Gold

Chisana district

Nabesna (23.15, 1.0)

MF-422, loc. 68

62°02'N, 141°11'W

Summary: Was a little placer mining well before 1913. By 1913 had been restaked. [Cairnes, 1915] Includes reference to (Horsfall Cr.).

References

Cairnes, 1915, p. 132

Matson and Richter, 1971 (OF 471), p. 10, loc. 6

Richter and Matson, 1972 (MF-422), loc. 68

(Indian Pass Lake)

Gold

Chistochina district
MF-655K, loc. 1

Nabesna (0.15, 14.05)
62°48'N, 143°59'W

Summary: Small hornblende diorite stock with disseminated pyrite and small quartz-pyrite veins and veinlets; rock sample contained 0.3 ppm Au. [Richter and others, 1975 (MF-655K); Richter and Matson, 1968 (C 593)]

References

- Richter and Matson, 1968 (C 593), p. 3-4, 11
Richter and others, 1975 (MF-655K), loc. 1
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 1

(Johnson Cr.)

Copper, Gold

Chisana district
MF-655K, loc. 44

Nabesna (19.55, 2.3)
62°07'N, 141°37'W

Summary: Porphyry copper deposit. Disseminated pyrite and chalcopyrite in small diorite stock and surrounding hornfelsed Jurassic and Cretaceous argillite. Deposit estimated to contain about 8 million tonnes of material averaging 0.20% Cu and very low Mo (surface samples ran less than 0.01% Mo). Gold present. Post-1967 prospecting activity reported. [Richter and others, 1975 (MF-655K); Richter and Jones, 1973 (I-749)] See also (Chachenda Cr.).

References

- Richter and Matson, 1970 (OF 397), area 3
Richter and Matson, 1972 (MF-422), loc. 35
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 44
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 38

(Little Eldorado Cr.)

Gold

Chisana district

Nabesna (17.7-17.85, 2.15-2.5)

MF-422, loc. 61

62°05'N-62°07'N, 141°50'-141°51'W

Summary: Bedrock pyroclastics and lavas of Cretaceous Chisana Fm. and underlying Jurassic and Cretaceous clastic rocks. Gold smooth; probably reconcentrated from auriferous Tertiary gravels, a remnant of which caps Gold Hill. Both stream and bench placers; in stream placers most of gold is on and in top of bedrock. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Brooks, 1914 (B 592), p. 67
Brooks, 1914 (B 592), p. 316
Brooks, 1915 (B 622), p. 60
Capps, 1915 (B 622), p. 211-213, 216-217, 222
Brooks, 1916 (B 642), p. 62
Capps, 1916 (B 630), p. 92-93, 95, 104-106, 109-110, 115
Brooks, 1918 (B 662), p. 55
Martín, 1919 (B 692), p. 36
Smith, 1926 (B 783), p. 14
Smith, 1929 (B 797), p. 23
Smith, 1932 (B 824), p. 39
Smith, 1933 (B 836), p. 40
Smith, 1933 (B 844-A), p. 42
Smith, 1934 (B 857-A), p. 39
Smith, 1934 (B 864-A), p. 42
Smith, 1936 (B 868-A), p. 44
Smith, 1937 (B 880-A), p. 47
Smith, 1938 (B 897-A), p. 55
Smith, 1939 (B 910-A), p. 56
Smith, 1939 (B 917-A), p. 55
Smith, 1941 (B 926-A), p. 53
Smith, 1942 (B 933-A), p. 50
Moffit, 1943 (B 933-B), p. 173
Moffit, 1954 (B 989-D), p. 196-199
Richter and Matson, 1972 (MF-422), loc. 61
Cobb, 1973 (B 1374), p. 115
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 65
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 57

(Little Jack Cr.)

Gold

Chisana district

Nabesna (5.5, 10.3) approx.
62°39'N, 143°19'W approx.

Summary: Prospect pit near head of creek with disappointing results. Gravel locally derived from Mesozoic sedimentary rocks cut by granitic dikes and sills. Gold probably also locally derived from Mesozoic or younger veins. [Moffit, 1954 (B 989-D)]

Reference

Moffit, 1954 (B 989-D), p. 201

(Mentasta Lodge)

Copper, Gold, Silver

Chistochina district

Nabesna (2.75, 15.6)

MF-655K, loc. 3

62°53'N, 143°40'W

Summary: Bornite, accompanied by a little chalcopyrite, in veinlets and irregular segregations in epidotized basalt flows of Triassic Nikolai Greenstone. Sample contained 0.02 oz. per ton each of gold and silver. [Richter and others, 1975 (MF-655K); Richter, 1967 (GR 30)]

References

Richter, 1967 (GR 30), p. 17-18, 23 (loc. 3)

Richter and Matson, 1972 (MF-422), loc. 1

Richter and others, 1975 (MF-655K), loc. 3

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 3

(Mentasta Pass)

Gold

Tok district

Nabesna (2.6, 16.4) approx.
62°56'N, 143°41'W approx.

Summary: Gold reported to have been found in shallow gravels at
summit of Mentasta Pass. [Mendenhall and Schrader, 1903
(P 15)] No later mention of this occurrence.

References

Mendenhall and Schrader, 1903 (P 15), p. 47
Cobb, 1973 (B 1374), p. 173

(Mineral Point)

Copper, Gold, Nickel(?), Silver

Tok district

Nabesna (4.8, 16.6) approx.

62°57'N, 143°44'W approx.

Summary: Argillite between 2 limestone bodies is cut by a shear zone and has been altered to a reddish-yellow material. Altered zone contains traces of Ni. Table lists copper, nickel(?), gold, silver. [Wedow and others, 1954 (C 248)]

References

Thorne, 1946 (RI 3940), p. 8-9

Wedow and others, 1953 (C 248), p. 8

Nelson and others, 1954 (C 348), p. 2

Berg and Cobb, 1967 (B 1246), p. 238-239

(Monte Cristo Cr.)

Molybdenum

Chisana district
MF-655K, loc. 16

Nabesna (8.2, 3.85)
62°13'N, 143°00'W

Summary: Disseminated molybdenite and quartz-pyrite-molybdenite veins in strongly altered zone at contact between volcanic breccia of the Cretaceous Chisana Fm. and a granodiorite pluton. A porphyry molybdenum deposit where there has been post-1967 prospecting activity. Estimated to contain about 50 million tonnes of material averaging 0.01% Mo and negligible gold. [Richter and others, 1975 (MF-655K); Richter, 1973 (I-789); Moffit and Knopf, 1910 (B 417)]

References

- Mendenhall and Schrader, 1903 (P 15), p. 43-45
Moffit and Knopf, 1910 (B 417), p. 58
Richter and Matson, 1970 (OF 398), loc. 1
Richter and Matson, 1972 (MF-422), loc. 12
Richter, 1973 (I-789), loc. 1
Richter and others, 1975 (MF-655K), loc. 16
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 13

(Moose Cr.)

Gold

Tok district

Nabesna (8.25, 16.0) approx.
62°54'N, 142°58'W approx.

Summary: Prospecting only; some placer gold found, but deposit not economic. [Moffit, 1954 (B 989-D)]

References

Moffit, 1954 (B 989-D), p. 190

Cobb, 1973 (B 1374), p. 173

Nabesna (Mining Corp.)

Antimony, Copper, Gold, Iron, Lead,
Silver, Zinc

Chisana district

Nabesna (8.0-8.1, 6.6-6.8)

MF-655K, locs. 12-14

62°22'-62°23'N, 143°00'-143°01'W

Summary: Contact-metamorphic deposits formed in Mississippian limestone intruded by small quartz diorite-quartz monzonite bodies which in places contain auriferous quartz-pyrite veins and disseminated gold. Pyrite veins formed by replacement of limestone along previously existing fractures contain chalcopyrite, galena, sphalerite, magnetite, pyrrhotite, arsenopyrite, stibnite, gold, and typical nonmetallic contact minerals. In 1907 60 tons of gold ore from disseminated deposits and quartz-pyrite veins in quartz diorite in the Royal Development Co. workings (MF-655K, loc. 14) was milled, but recovery was too poor for economic mining and milling. Richer deposits at the Nabesna mine proper (MF-655K, loc. 13) produced about \$1,870,000, mainly in gold (most at \$35 per oz.), but included some silver and copper, between 1931 and 1940, when the mine apparently ran out of ore. Some of the magnetite is in bodies large enough to be of possible future economic interest. Massive auriferous pyrrhotite and pyrite at the Golden Eagle Group (Rambler mine) (MF-655K, loc. 12) was prospected. There has been post-1967 prospecting activity at the Nabesna mine and Golden Eagle prospect. [Wayland, 1943 (B 933-B); Wedow and others, 1953 (C 248); Richter and others, 1975 (MF-655K)] Includes references to: Golden Eagle, (Jacksina Cr.), Rambler, Royal Development Co.

References

- Moffit and Knopf, 1909 (B 379), p. 176-177
Moffit and Knopf, 1910 (B 417), p. 58
Brooks, 1911 (B 480), p. 65
Capps, 1915 (B 622), p. 224
Capps, 1916 (B 630), p. 90, 118
Smith, 1932 (B 824), p. 22-23
Moffit, 1933 (B 844-C), p. 159-162
Smith, 1933 (B 836), p. 22
Smith, 1933 (B 844-A), p. 21
Smith, 1934 (B 857-A), p. 18-19
Smith, 1934 (B 864-A), p. 21
Moffit, 1936 (B 868-C), p. 141-142
Smith, 1936 (B 868-A), p. 21, 66
Moffit, 1937 (B 880-B), p. 103-104
Smith, 1937 (B 880-A), p. 21-22, 70, 72

Nabesna (Mining Corp.) -- cont.

- Smith, 1938 (B 897-A), p. 23-24, 80
Smith, 1939 (B 910-A), p. 25-26, 85
Smith, 1939 (B 917-A), p. 24, 87
Smith, 1941 (B 926-A), p. 23-24, 80
Smith, 1942 (B 933-A), p. 24, 76-77
Moffit, 1943 (B 933-B), p. 168
Wayland, 1943 (B 933-B), p. 175-199
Moffit, 1944 (B 943-B), p. 45-46
Bain, 1946 (IC 7379), p. 30
Wedow and others, 1952 (OF 51), p. 108
Wedow and others, 1953 (C 248), p. 7
Moffit, 1954 (B 989-D), p. 66, 189-190, 201-203
Nelson and others, 1954 (C 348), p. 3-4
Berg and Cobb, 1967 (B 1246), p. 205, 208-209
Koschmann and Bergendahl, 1968 (P 610), p. 30
Richter and Matson, 1972 (MF-422), locs. 9, 10
Cobb, 1973 (B 1374), p. 114-115
Richter and others, 1975 (MF-655K), locs. 12-14
Richter and others, 1975 (C 718), p. 2
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 11
MacKevett and others, 1978 (OF 78-1-E), p. 27

Nabesna Glacier

Copper, Gold, Zinc

Chisana district

Nabesna (9.6, 2.0)

MF-655K, loc. 27

62°07'N, 142°50'W

Summary: Quartz-pyrite veins and veinlets, with minor sphalerite, in altered flow of Pennsylvanian and Permian Tetelna Volcanics. Locally gold bearing and copper stained. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932); Richter and Matson, 1970 (OF 398)]

References

Richter and Matson, 1970 (OF 398), area 7

Richter and Matson, 1972 (MF-422), loc. 26

Richter, 1973 (I-789), loc. 12

Richter and others, 1975 (MF-655K), loc. 27

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 23

Nabesna River

Copper, Silver(?), Zinc(?)

Chisana district

Nabesna (8.85, 3.35)

MF-655K, loc. 18

62°11'N, 142°55'W

Summary: Quartz-pyrite veins and veinlets with minor chalcopyrite in hornblende dacite dike and volcanic (Triassic Nikolai Greenstone) country rock. Post-1967 prospecting activity. [Richter and others, 1975 (MF-655K); Richter 1973 (I-789)] Silver and zinc listed in resources column in MF-655K, but no mention of a zinc mineral or a silver assay in this or other references.

References

Richter and Matson, 1972 (MF-422), loc. 14

Richter, 1973 (I-789), loc. 6

Richter and others, 1975 (MF-655K), loc. 18

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 15

(Notch Cr.)

Gold

Chisana district
MF-422, loc. 53

Nabesna (13.7, 3.4)
62°11'N, 142°20'W

Summary: Prospecting in 1917 reported; placer gold in gravels, but prospectors did not reach bedrock. [Martin, 1919 (B 692)]

References

Martin, 1919 (B 692), p. 36
Richter and Matson, 1969 (OF 365)
Richter and Matson, 1972 (MF-422), loc. 53
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 67

(Orange Hill)

Copper, Gold, Iron, Molybdenum,
Silver, Zinc

Chisana district
MF-655K, locs. 22, 23

Nabesna (9.5-9.7, 3.55-3.65)
62°12'N, 142°49'-142°50'W

Summary: Porphyry deposit consists principally of pyrite, chalcopyrite, and minor molybdenite in quartz veinlets and disseminated in Cretaceous quartz diorite and granodiorite intruded by quartz-plagioclase porphyry. The estimated resource is 320 million tonnes of material containing 0.35% Cu, 0.02% Mo, and probably 0.005 oz. Au per ton. The deposit on the Lemon claims is contact-metamorphic in origin and consists of disseminated pyrrhotite, pyrite, and chalcopyrite in magnetite and veins of pyrite, chalcopyrite, and sphalerite in magnetite and calc-silicate rocks developed largely in Permian sedimentary rocks including limestone. Other minerals reported (from either or both deposits) include powellite (calcium molybdenum tungstate), tetrahydroite, bornite, chalcocite, and various secondary copper, molybdenum, and iron minerals. Assays indicate small amounts of silver in some samples. Deposits have been extensively explored by surface excavations, short adits, and diamond-drill holes, but there has been no production. [Richter and others, 1975 (MF-655K); Richter, 1973 (I-789); Van Alstine and Black, 1944 (OF 76)] Includes references to: Alaska Nabesna Corp., (California Gulch), Lemon, Shamrock.

References

- Mendenhall and Schrader, 1903 (P 15), p. 37-38, 43-45
Moffit and Knopf, 1909 (B 379), p. 173
Moffit and Knopf, 1910 (B 417), p. 54-55, 58
Capps, 1915 (B 622), p. 227
Smith, 1929 (B 797), p. 36
Smith, 1930 (B 810), p. 47
Smith, 1930 (B 813), p. 54
Smith, 1932 (B 824), p. 60
Smith, 1933 (B 836), p. 63
Moffit, 1937 (B 880-B), p. 103
Smith, 1942 (B 926-C), p. 193
Moffit, 1943 (B 933-B), p. 166-168
Van Alstine and Black, 1944 (OF 76)
Wedow and others, 1952 (OF 51), p. 108
Twenhofel, 1953 (C 252), p. 5-6
Wedow and others, 1953 (C 248), p. 6-7
Moffit, 1954 (B 989-D), p. 189, 201, 203, 205-207, 209
Nelson and others, 1954 (C 348), p. 4
McInnis, 1957 (IC 7784), p. 6, 9-10

(Orange Hill) -- cont.

Berg and Cobb, 1967 (B 1246), p. 205, 208-209

Richter and Matson, 1970 (OF 398), area 2

Richter and Matson, 1972 (MF-422), loc. 15

Richter, 1973 (I-789), loc. 2

Richter and others, 1975 (MF-655K), locs. 22, 23

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, locs. 19, 20

U.S. Geological Survey, 1977 (P 1050), p. 83

Patten

Jade

Tok district
MF-655K, loc. 2

Nabesna (2.85, 16.35)
62°56'N, 143°38'W

Summary: Nephrite associated with rodingite inclusions in serpentinized alpine-type ultramafic rocks. Prospect has been active since 1967. [Richter and others, 1975 (MF-655K)]
Name used only in Richter, 1967 (GR 30).

References

Richter, 1967 (GR 30), p. 5, 14, 18-19, 24 (loc. 7)
Richter and others, 1975 (MF-655K), loc. 2
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 2

(Poorman Cr.)

Gold

Chisana district
MF-422, loc. 58

Nabesna (17.3-17.35, 2.2-2.4)
62°06'-62°07'N, 141°53'-141°54'W

Summary: Bedrock Jurassic and Cretaceous shale and graywacke intruded by Tertiary dikes. Gold in gravels averaging 7 ft. thick and in top 2 ft. of bedrock; fine and flaky. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Capps, 1915 (B 622), p. 219-220
Capps, 1916 (B 630), p. 112-116
Moffit, 1954 (B 989-D), p. 199
Richter and Matson, 1972 (MF-422), loc. 58
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 63
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 55

Reynolds

Copper

Chisana district
MF-655K, loc. 48

Nabesna (21.2, 3.65)
62°11'N, 141°25'W

Summary: Small veins of bornite, chalcocite, specularite, malachite, and calcite in amygdaloidal basalt flows of Triassic Nikolai Greenstone. Prospect was explored by open cuts. [Moffit, 1943 (B 933-B); Richter and others, 1975 (MF-655K)]

References

- Moffit, 1943 (B 933-B), p. 169
Moffit, 1954 (B 989-D), p. 204-205
Matson and Richter, 1971 (OF 471), p. 10, loc. 2
Richter and Matson, 1972 (MF-422), loc. 37
Richter and others, 1973 (I-807), loc. 2
Richter and others, 1975 (MF-655K), loc. 48
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 41

(Rock Cr.)

Molybdenum; Corundum

Chistochina district
MF-655K, locs. 6, 7

Nabesna (5.2-5.3, 10.5)
62°36'N, 143°21'-143°22'W

Summary: Alkali pegmatite dikes in gneissic rocks of diorite complex of Jurassic and Triassic age contain molybdenite [at MF-655K, loc. 6] and corundum [at MF-655K, loc. 7], some of gem quality. Some of corundum crystals are as much as 8 cm long. [Richter and others, 1975 (MF-655K)]

References

- Pratt, 1901 (B 180), p. 88
Smith, 1939 (B 910-A), p. 105
Smith, 1939 (B 917-A), p. 104
Moffit, 1941 (B 917-B), p. 150-153
Joesting, 1942 (TDM 1), p. 30
Smith, 1942 (B 926-C), p. 184-185
Wedow and others, 1953 (C 248), p. 7
Moffit, 1954 (B 989-D), p. 190, 201, 209-210
Nelson and others, 1954 (C 348), p. 3
Berg and Cobb, 1967 (B 1246), p. 47
Richter, 1970 (P 700-C), p. C98-C102
Matson and Richter, 1971 (OF 473), p. 10
Richter and Matson, 1972 (MF-422), loc. 4
Richter and Schmoll, 1973 (GQ-1062), locs. 4, 5
Richter and others, 1975 (MF-655K), locs. 6, 7
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, locs. 6, 7

(Skookum Cr.)

Gold

Chisana district

Nabesna (17.65-17.8, 2.25-2.3)

MF-422, loc. 60

62°07'N, 141°50'-141°51'W

Summary: Bedrock Jurassic and/or Cretaceous bedded rocks intruded by Cretaceous or Tertiary dikes. Gravels, at least in part derived from Tertiary gravel capping of Gold Hill, contain lignitized wood and smooth, worn gold; some of gold very coarse; one nugget worth \$52 [gold at \$20.67]. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Brooks, 1915 (B 622), p. 60
Capps, 1915 (B 622), p. 217-218
Brooks, 1916 (B 642), p. 62
Capps, 1916 (B 630), p. 93, 95, 110-111
Brooks, 1918 (B 662), p. 55
Moffit, 1954 (B 989-D), p. 199
Richter and Matson, 1972 (MF-422), loc. 60
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 65
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 57

(Slope Cr.)

Bismuth, Copper, Gold, Silver

Chistochina district

Nabesna (0.0-0.05, 13.8)

MF-655K, loc. 58

62°47'N, 144°00'W

Summary: Tributary of Porcupine Cr. that heads against Grubstake Cr. [Gulkana quad.]. Fine-grained rough gold accompanied by native wire silver, native copper, a bismuth mineral, and magnetite. Production probably worth less than \$10,000. [Richter, 1966 (GR 21); Richter and Others, 1975 (MF-655K)] There is confusion between Slope and Boulder Creeks in many references; some probably apply to both, but do not identify either. See also: (Boulder Cr.), (Slope Cr.) Gulkana quad. Includes references to (Porcupine Cr.).

References

Moffit, 1938 (B 904), p. 50-51

Moffit, 1944 (B 943-B), p. 43-44

Moffit, 1954 (B 989-D), p. 195

Richter, 1964 (GR 6), p. 10

Richter, 1966 (GR 21), p. 28, 34

Richter and Matson, 1968 (C 593), p. 2-3

Richter and Matson, 1972 (MF-422), loc. 48

Cobb, 1973 (B 1374), p. 29

Richter and others, 1975 (MF-655K), loc. 58

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 50

(Snow Gulch)

Gold

Chisana district
MF-422, loc. 62

Nabesna (17.8-17.9, 2.25-2.4)
62°07'N, 141°49'-141°50'W

Summary: Tributary of Little Eldorado Cr.; workable placers said to have been found. Bedrock Jurassic and Cretaceous clastic rocks, mainly argillite and mudstone. [Capps, 1916 (B 630); Richter and Jones, 1973 (I-749)]

References

- Capps, 1915 (B 622), p. 222
Capps, 1916 (B 630), p. 115
Richter and Matson, 1972 (MF-422), loc. 62
Richter and Jones, 1973 (I-749)
Richter and others, 1975 (MF-655K), loc. 65
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 57

Sulzer

Copper

Chisana district
MF-655K, loc. 47

Nabesna (20.8, 3.9)
62°12'N, 141°28'W

Summary: Malachite in fractures, amygdules, and breccias in amygdaloidal basalt flows of Triassic Nikolai Greenstone. Iron and copper sulfides also present. Explored by 2 adits, one of which was 87 ft. long. [Moffit, 1943 (B 933-B); Richter and others, 1975 (MF-655K)] See also Reynolds.

References

- Moffit, 1943 (B 933-B), p. 169-170
Moffit, 1954 (B 989-D), p. 204-205
Matson and Richter, 1971 (OF 471), p. 10, loc. 1
Richter and Matson, 1972 (MF-422), loc. 36
Richter and others, 1973 (I-807), loc. 1
Richter and others, 1975 (MF-655K), loc. 47
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 44

(Tinast Gulch)

Copper

Chisana district

Nabesna (13.4, 1.5) approx. (?)

62°02'N, 142°22'W approx. (?)

Summary: Natives showed Mendenhall and Schrader in 1902 native copper nuggets (some with quartz or calcite adhering) said to have come from Tinast Gulch, a small tributary of the Chisana about 6 mi. above the foot of the glacier. If description of location means 6 mi. upstream from the mouth of the glacier, the area is underlain by Triassic Nikolai Greenstone. [Mendenhall and Schrader, 1903 (P 15); Richter, 1976 (I-932)]

References

Mendenhall and Schrader, 1903 (P 15), p. 39-40

Cobb, 1973 (B 1374), p. 115

Richter, 1976 (I-932) [deposit not shown; cited for geology]

(Trail Cr.)

Gold

Chisana district
MF-655K, loc. 61

Nabesna (6.2, 20.85)
62°37'N, 143°14'W

Summary: Evidence of placer operations or exploration. Bedrock in basin Triassic Nikolai Greenstone, younger Triassic limestone, and Jurassic argillite and other sedimentary rocks; all cut by now-altered porphyry dikes. [Richter and others, 1975 (MF-655K); Richter and Schmoll, 1973 (GQ-1062)]

References

- Moffit, 1941 (B 917-B), p. 155
Matson and Richter, 1971 (OF 473), p. 10
Richter and Matson, 1972 (MF-422), loc. 52
Richter and Schmoll, 1973 (GQ-1062), loc. 3
Richter and others, 1975 (MF-655K), loc. 61
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 53

(Willow Cr.)

Gold

Chistochina district
MF-655K, loc. 60

Nabesna (0.05, 13.15)
62°45'N, 144°00'W

Summary: Evidence of placer operation or exploration. No other
data available. [Richter and others, 1975 (MF-655K)]

References

- Richter, 1964 (GR 6), p. 10
Richter, 1966 (GR 21), p. 34
Richter and Matson, 1972 (MF-422), loc. 50
Richter and others, 1975 (MF-655K), loc. 60
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 52

Unnamed occurrence

Barite

Chisana district

Nabesna (13.6, 2.4)
62°08'N, 142°21'W

Summary: Massive dark gray barite float nearly in place. Area underlain by Permian Eagle Creek Fm., which consists of clastic rocks; intruded by Triassic(?) gabbro dikes and sills, which in places make up as much as 70% of the stratigraphic section. [Richter and Matson, 1969 (OF 365); Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Chromite

Chisana district
MF-655K, loc. 57

Nabesna (23.05, 9.7)
62°31'N, 141°09'W

Summary: Cobble-size float of massive chromite derived from alpine-type ultramafic rocks. [Richter and others, 1975 (MF-655K)]

Reference

Richter and others, 1975 (MF-655K), loc. 57

Unnamed occurrence

Cobalt, Gold

Chisana district
MF-655K, loc. 20

Nabesna (8.8, 2.65)
62°09'N, 142°55'W

Summary: Thin (10-20 cm) calcite vein contains gold (as much as 10 oz. per ton) and cobaltite. Country rock in area is Triassic Nikolai Greenstone intruded by Tertiary porphyry. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1972 (MF-422), loc. 21
Richter, 1973 (I-789), loc. 10
Richter and others, 1975 (MF-655K), loc. 20
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 17

Unnamed occurrence

Copper

Chisana district
OF 398, sample 851

Nabesna (12.1, 0.15)
62°00'N, 142°32'W

Summary: Grab sample of chalcopyrite-bearing hornblende granodiorite
of Cretaceous or Tertiary age. [Richter and Matson, 1970
(OF 398); Richter, 1976 (I-932)]

References

Richter and Matson, 1970 (OF 398), sample 851

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 28

Nabesna (9.55, 0.7)
62°02'N, 142°50'W

Summary: Zone of malachite and azurite stain in amygdaloidal basalt flows of Triassic Nikolai Greenstone. [Richter and others, 1975 (MF-655K)]

References

- Richter and Matson, 1970 (OF 398), area 9
Richter and Matson, 1972 (MF-422), loc. 30
Richter, 1973 (I-789), loc. 18
Richter and others, 1975 (MF-655K), loc. 28
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 24

Unnamed prospect

Copper

Chisana district
MF-655K, loc. 51

Nabesna (22.6, 1.5)
62°03'N, 141°15'W

Summary: 2-ft. quartz vein with chalcopyrite in volcanic breccia of Cretaceous Chisana Fm. [Matson and Richter, 1971 (OF 471); Richter and others, 1975 (MF-655K); Richter and others, 1973 (I-807)]

References

Matson and Richter, 1971 (OF 471), sample 153
Richter and Matson, 1972 (MF-422), loc. 42
Richter and others, 1973 (I-807), loc. 6
Richter and others, 1975 (MF-655K), loc. 51
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 44

Unnamed occurrence

Copper

Chisana district

Nabesna (13.8, 1.8)

62°06'N, 142°19'W

Summary: Copper mineral occurrence in amygdaloidal basalt of Triassic Nikolai Greenstone. [Richter and Matson, 1969 (OF 365); Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 21

Nabesna (8.8, 2.3)
62°08'N, 142°56'W

Summary: Small irregular masses of pyrite and minor chalcopyrite in contact zone of diorite stock. Area underlain mainly by Triassic Nikolai Greenstone. [Richter and others, 1975 (MF-655K)]

References

- Richter and Matson, 1972 (MF-422), loc. 22
Richter, 1973 (I-789), loc. 11
Richter and others, 1975 (MF-655K), loc. 21
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 18

Unnamed occurrence

Copper

Chisana district

Nabesna (22.2, 3.1)

MF-655K, loc. 49

62°09'N, 141°18'W

Summary: Massive quartz vein with minor pyrite and chalcopyrite in marine volcanoclastic rocks of Permian age. [Richter and others, 1975 (MF-655K); Richter and others, 1973 (I-807)]

References

Richter and Matson, 1972 (MF-422), loc. 39

Richter and others, 1973 (I-807), loc. 3

Richter and others, 1975 (MF-655K), loc. 49

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 42

Unnamed prospect

Copper

Chisana district
MF-655K, loc. 25

Nabesna (9.7, 2.6)
62°09'N, 142°49'W

Summary: Quartz-pyrite veins and veinlets with minor chalcopyrite in quartz-eye volcanic flows of Pennsylvanian and Permian Tetelna Volcanics or a shallow intrusive. Post-1967 prospecting activity. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1970 (OF 398), area 6
Richter and Matson, 1972 (MF-422), loc. 24
Richter, 1973 (I-789), loc. 8
Richter and others, 1975 (MF-655K), loc. 25
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 22

Unnamed prospect

Copper

Chisana district
MF-655K, loc. 24

Nabesna (9.6, 2.8)
62°09'N, 142°50'W

Summary: Quartz-pyrite veins and veinlets with minor chalcopyrite
in flows of Pennsylvanian and Permian Teteina Volcanics.
Post-1967 prospecting activity. [Richter and others, 1975
(MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1970 (OF-398), area 6
Richter and Matson, 1972 (MF-422), loc. 23
Richter, 1973 (I-789), loc. 7
Richter and others, 1975 (MF-655K), loc. 24
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 21

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 32

Nabesna (11.3, 3.15)
62°10'N, 142°37'W

Summary: Fragments of volcanic rock cemented with quartz and minor pyrite and chalcopyrite in area of intense hydrothermal alteration. May be a breccia pipe. Country rock Pennsylvanian and Permian Tetelna Volcanics intruded by a small body of Tertiary porphyry. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1972 (MF-422), loc. 19
Richter, 1973 (I-789), loc. 15
Richter and others, 1975 (MF-655K), loc. 32
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 28

Unnamed occurrence

Copper

Chisana district

Nabesna (13.1, 3.4)
62°11'N, 142°24'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 365);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365)

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (12.9, 3.55)
62°12'N, 142°26'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 365);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district
OF 365, loc. 329

Nabesna (12.7, 3.7)
62°12'N, 142°27'W

Summary: Chip sample across 1.5 ft. of copper-stained breccia at contact between Cretaceous granodiorite of Nabesna pluton and Triassic limestone contained 7,000 ppm Cu. [Richter and Matson, 1969 (OF 365); Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365), loc. 329

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (11.95, 5.15)
62°17'N, 142°32'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (11.35, 5.45)
62°18'N, 142°36'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district
OF 366, loc. 136

Nabesna (10.15, 5.3)
62°18'N, 142°45'W

Summary: Disseminated chalcopyrite in biotite quartz diorite of the
Cretaceous Nabesna pluton. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366), loc. 136

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (8.5, 5.5)

62°19'N, 142°57'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (10.5, 5.95)
62°20'N, 142°43'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (10.55, 6.2)
62°21'N, 142°42'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (10.0, 6.5)
62°22'N, 142°46'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (9.1, 6.4)
62°22'N, 142°53'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (8.8, 6.8)

62°23'N, 142°55'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown, cited for local geology]

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 37

Nabesna (13.8, 7.5)
62°25'N, 142°18'W

Summary: Segregations of pyrite and chalcopyrite in hornblendite of border zone of Cretaceous Antler Creek pluton. [Richter and others, 1975 (MF-655K); Richter, 1975 (I-904)]

References

Richter, 1975 (I-904)

Richter and others, 1975 (MF-655K), loc. 37

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 33

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 11

Nabesna (8.55, 7.35)
62°25'N, 142°57'W

Summary: Large boulders (1 x 1 x 2 m) of massive pyrrhotite, chalcopyrite, actinolite, and garnet. Source unknown.
[Richter and others, 1975 (MF-655K)]

References

Richter and Matson, 1969 (OF 366)
Richter and Matson, 1972 (MF-422), loc. 8
Richter and others, 1975 (MF-655K), loc. 11

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 36

Nabesna (13.75, 7.65)
62°26'N, 142°19'W

Summary: Quartz veinlets with minor chalcopyrite, pyrite, and bornite in Cretaceous hornblende syenodiorite of Antler Creek pluton. [Richter and others, 1975 (MF-655K); Richter, 1975 (I-904)]

References

Richter, 1975 (I-904)

Richter and others, 1975 (MF-655K), loc. 36

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 32

Unnamed occurrence

Copper

Chisana district

Nabesna (10.05, 8.5)

62°29'N, 142°45'W

Summary: Copper mineral(s) in amygdaloidal basalt of Triassic
Nikolai Greenstone. [Richter and Matson, 1969 (OF 366);
Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 366)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Copper

Chisana district

Nabesna (7.55, 8.55)

MF-655K, loc. 9

62°29'N, 143°04'W

Summary: Quartz vein with pyrite and chalcopyrite in fault-shear zone in pre-Tertiary volcanoclastic rocks separated by fault from Tertiary and Quaternary Wrangell Lava.
[Richter and others, 1975 (MF-655K)]

References

Richter and Matson, 1972 (MF-422), loc. 6

Richter and others, 1975 (MF-655K), loc. 9

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 9

Unnamed occurrence

Copper

Chisana district
MF-655K, loc. 10

Nabesna (9.1, 9.4)
62°32'N, 142°53'W

Summary: Native copper in fractures in amygdaloidal basalt flows of Triassic Nikolai Greenstone. [Richter and others, 1975 (MF-655K); Richter and others, 1976 (GQ-1303)]

References

Richter and Matson, 1972 (MF-422), loc. 7
Richter and others, 1975 (MF-655K), loc. 10
Richter and others, 1976 (GQ-1303)
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 10

Unnamed occurrence

Copper

Tok district

Nabesna (3.85, 15.25)

MF-655K, loc. 4

62°52'N, 143°31'W

Summary: Zone of strong malachite and azurite stain in amygdaloidal basalt flows of Triassic Nikolai Greenstone. [Richter and others, 1975 (MF-655K)]

References

Richter and Matson, 1972 (MF-422), loc. 2

Richter and others, 1975 (MF-655K), loc. 4

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 4

Unnamed occurrence

Copper, Gold

Chisana district
MF-655K, loc. 54

Nabesna (23.15, 1.5)
62°03'N, 141°11'W

Summary: Porphyry copper deposit. Disseminated pyrite and chalcopyrite in small stock of porphyritic mafic diorite of Cretaceous or Tertiary age intruded into Jurassic and Cretaceous marine sedimentary rocks. Resource estimated at 4 million tonnes of material averaging 0.10% Cu and very low Mo (surface samples less than 0.01% Mo). Gold present. [Richter and others, 1975 (MF-655K); Richter and others, 1973 (I-807)]

References

- Matson and Richter, 1971 (OF 471), sample 145
Richter and Matson, 1972 (MF-422), loc. 46
Richter and others, 1973 (I-807), loc. 8
Richter and others, 1975 (MF-655K), loc. 54
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 47

Unnamed occurrence Copper, Gold, Lead, Silver; Barite

Chisana district Nabesna (23.65, 1.9)
MF-655K, loc. 55 62°05'N, 141°07'W

Summary: Quartz-barite veins contain galena, chalcopyrite, and tetra-
hedrite; gold and silver present. [Matson and Richter, 1971
(OF 471); Richter and others, 1973 (I-807); Richter and
others, 1975 (MF-655K)]

References

- Matson and Richter, 1971 (OF 471), sample 141
Richter and Matson, 1972 (MF-422), loc. 45
Richter and others, 1973 (I-807), loc. 10
Richter and others, 1975 (MF-655K), loc. 55
MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 48

Unnamed prospect Copper, Gold, Lead, Silver, Zinc

Chisana district Nabesna (8.55, 3.55)
MF-655K, loc. 17 62°12'N, 142°57'W

Summary: Quartz veins with sphalerite, galena, and minor chalcopyrite
in recrystallized Triassic limestone near contact with
Cretaceous granodiorite pluton. Sample across one vein
contained 2.4 ppm Au and 200 ppm Ag.

References

Richter and Matson, 1970 (OF 398), loc. 5
Richter and Matson, 1972 (MF-422), loc. 13
Richter, 1973 (I-789), loc. 5
Richter and others, 1975 (MF-655K), loc. 17
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 14

Unnamed occurrence

Copper, Iron

Chisana district

Nabesna (8.85, 2.75)

MF-655K, loc. 19

62°09'N, 142°55'W

Summary: Contact-metamorphic deposit consisting of massive magnetite with pyrite and minor chalcopyrite in amphibolitized volcanic rock where Tertiary porphyry intruded Triassic Nikolai Greenstone. [Richter, 1975 (MF-655K); Richter, 1976 (I-932)]

References

Richter and Matson, 1972 (MF-422), loc. 20

Richter, 1973 (I-789), loc. 9

Richter and others, 1975 (MF-655K), loc. 19

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 16

Unnamed occurrence

Copper, Lead, Silver

Chisana district
MF-655K, loc. 29

Nabesna (10.15, 3.25)
62°11'N, 142°46'W

Summary: Possibly a breccia pipe. Zone of intense hydrothermal alteration in flows (of Pennsylvanian and Permian Tetelna Volcanics) containing brecciated rock cemented by quartz that contains minor chalcopyrite, pyrite, and galena. Table indicates presence of silver. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

- Richter and Matson, 1972 (MF-422), loc. 18
Richter, 1973 (I-789), loc. 4
Richter and others, 1975 (MF-655K), loc. 29
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 25

Unnamed occurrence Copper, Lead, Silver(?), Zinc

Chisana district Nabesna (10.8, 2.1)
MF-655K, loc. 33 62°07'N, 142°21'W

Summary: Quartz vein with minor chalcopyrite, galena, and sphalerite.
Country rock Pennsylvanian and Permian Tetelna Volcanics.
[Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]
Silver shown in resources column in tables in some of references listed below, but not in all; no assay data given.

References

Richter and Matson, 1972 (MF-422), loc. 27
Richter, 1973 (I-789), loc. 14
Richter and others, 1975 (MF-655K), loc. 33
Richter, 1976 (I-932) [deposit not shown; cited for local geology]
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 29

Unnamed occurrence

Copper, Lead, Silver(?), Zinc

Chisana district

Nabesna (17.95, 2.25)

MF-655K, loc. 43

62°07'N, 141°48'W

Summary: Quartz-carbonate veins in Jurassic and Cretaceous argillite contain sphalerite, galena, and minor chalcopryrite. Silver listed in resources column of table; no assay data given. [Richter and others, 1975 (MF-655K); Richter and Jones, 1973 (I-749)]

References

Richter and Jones, 1973 (I-749) [deposit not shown; cited for geology]
Richter and others, 1975 (MF-655K), loc. 43
MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 37

Unnamed occurrence

Copper, Lead, Zinc

Chisana district

Nabesna (11.75, 1.4)

MF-655K, loc. 35

62°04'N, 142°35'W

Summary: Quartz vein with minor pyrite, chalcopyrite, galena, and sphalerite in volcanic and volcanoclastic rocks of Pennsylvanian and Permian Tetelna Volcanics near body of Tertiary porphyry. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

Richter and Matson, 1970 (OF 398), sample 834

Richter and Matson, 1972 (MF-422), loc. 29

Richter, 1973 (I-789), loc. 17

Richter and others, 1975 (MF-655K), loc. 35

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

MacKevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 31

Unnamed occurrence

Copper, Molybdenum

Chisana district

Nabesna (11.7, 4.15)

OF-398, area 4

62°14'N, 142°32'W

Summary: Boulders of granodiorite with fracture coatings of chalcopyrite and molybdenite fairly common in glacial moraine.
[Richter and Matson, 1970 (OF 398)]

References

Richter and Matson, 1969 (OF 365)

Richter and Matson, 1970 (OF 398), area 4

Unnamed occurrence

Copper, Silver

Chisana district

Nabesna (24.1, 1.95)

MF-655K, loc. 56

62°05'N, 141°04'W

Summary: Quartz veins with minor chalcopyrite in small Cretaceous quartz monzonite stock and Permian volcanic country rock. Silver present. [Richter and others, 1973 (I-807); Matson and Richter, 1971 (OF 471)]

References

Matson and Richter, 1971 (OF 471), samples 142, 143

Richter and Matson, 1972 (MF-422), loc. 46

Richter and others, 1973 (I-807), loc. 9

Richter and others, 1975 (MF-655K), loc. 56

MacKevett and Holloway, 1977 (OF 77-169A), p. 52, loc. 49

Unnamed occurrence

Copper, Zinc

Chisana district

Nabesna (9.7, 2.1)

MF-655K, loc. 26

62°07'N, 142°49'W

Summary: Quartz-pyrite vein with minor chalcopyrite and sphalerite in quartz-eye flow of Pennsylvanian and Permian Tetelna Volcanics or shallow intrusive. [Richter and others, 1975 (MF-655K); Richter, 1976 (I-932)]

References

Richter and Matson, 1970 (OF 398), sample 226

Richter and Matson, 1972 (MF-422), loc. 25

Richter, 1973 (I-789), loc. 13

Richter and others, 1975 (MF-655K), loc. 26

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Mackevett and Holloway, 1977 (OF 77-169A), p. 51, loc. 23

Unnamed prospect Gold, Lead, Silver(?), Zinc

Chistochina district Nabesna (4.55, 10.95)
MF-655K, loc. 5 62°37'N, 143°27'W

Summary: Gold-bearing deposit (tenor not known) consists of stringers of quartz, calcite, pyrite, galena, and sphalerite $\frac{1}{2}$ to 2 in. thick in a zone 6 to 12 in. wide in an area of hornfelsed and dioritized Pennsylvanian and Permian volcanic rocks cut by trachyte dikes. Was explored by a now-caved adit. [Moffit, 1954 (B 989-D); Richter and Schmoll, 1973 (GQ-1062)]. Note: Some of references that are essentially summaries list silver, but the basic references do not.

References

- Moffit, 1941 (B 917-B), p. 155
Moffit, 1954 (B 989-D), p. 203
Berg and Cobb, 1967 (B 1246), p. 47
Matson and Richter, 1971 (OF 473), p. 10
Richter and Matson, 1972 (MF-422), loc. 3
Richter and Schmoll, 1973 (GQ-1062), loc. 1
Richter and others, 1975 (MF-655K), loc. 5
MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 5

Unnamed occurrence

Gypsum

Chisana district

Nabesna (13.0, 3.35)
62°11'N, 142°25'W

Summary: Pods of massive gypsum (variety alabaster) as much as 5 ft. thick scattered through amphibolitized amygdaloidal basalt of Triassic Nikolai Greenstone are common. [Richter and Matson, 1969 (OF 365); Richter, 1976 (I-932)]

References

Richter and Matson, 1969 (OF 365)

Richter, 1976 (I-932) [deposit not shown; cited for local geology]

Unnamed occurrence

Lead, Silver, Zinc

Chisana district

Nabesna (6.2, 10.8)

MF-655K, loc. 8

62°37'N, 143°14'W

Summary: Small quartz-carbonate veins with galena, sphalerite, and tetrahedrite in border zone of small Tertiary or Cretaceous stock that intruded thin-bedded Triassic limestone. [Richter and others, 1975 (MF-655K); Richter and Schmoll, 1973 (GQ-1062)] One or more of the metallic minerals is undoubtedly argentiferous, as all references list silver as being present; no assay data given.

References

Richter and Matson, 1972 (MF-422), loc. 5

Richter and Schmoll, 1973 (GQ-1062), loc. 3

Richter and others, 1975 (MF-655K), loc. 8

MacKevett and Holloway, 1977 (OF 77-169A), p. 50, loc. 8

Unnamed occurrence

Molybdenum

Chisana district

Nabesna (11.4, 5.1)

62°17'N, 142°36'W

Summary: Occasional boulders of granodiorite with molybdenite in stream gravels. [Richter and Matson, 1969 (OF 366)]

Reference

Richter and Matson, 1969 (OF 366)

Synonyms, Owners, Operators, and Claim Names

Adams & Cotter -- see (Cheslina R.)
 Alaska Nabesna Corp. -- see (Orange Hill)
 (Baultoff Cr.) -- see Baultoff
 Big Seven -- see (Chathenda Cr.)
 Bronniche -- see (Mineral Point), (Slope Cr.)
 Butte Creek Copper -- see Reynolds
 California -- see (Orange Hill)
 (California Culch) -- see (Orange Hill)
 Camp Bird -- see (Orange Hill)
 Carroll -- see (Discovery Pup), (Glacier Cr.)
 (Cathenda Cr.) -- see (Chathenda Cr.)
 Chisana Mines, Inc. -- see Reynolds, Sulzer
 Copper King -- see (Orange Hill)
 Copper King North Extension -- see (Orange Hill)
 Cosmopolitan Copper -- see Sulzer
 Davis -- see (Little Eldorado Cr.)
 Deadman -- see (Bonanza Cr.)
 Eureka -- see (Eureka Cr.)
 Fjeld & Paulson -- see Nabesna
 Fram, Horn & Todd -- see (Rock Cr.)
 Glacier -- see (Orange Hill)
 Golden Eagle -- see Nabesna
 Green -- see (Bonanza Cr.)
 Hamshaw -- see (Big Eldorado Cr.), (Bonanza Cr.), (Little Eldorado Cr.)
 Hirst -- see (Bonanza Cr.)
 Hirst & Gamblin -- see Erie
 (Horsfall Cr.) -- see (Horsfeld Cr.)
 Husky -- see (Fourmile Cr.)
 (Jacksina Cr.) -- see Nabesna
 James & Nelson -- see (Big Eldorado Cr.), (Bonanza Cr.), (Little Eldorado Cr.)
 James, Nelson & Wales -- see (Bonanza Cr.)
 Jumbo -- see (Fourmile Cr.)
 Kennecott Copper Corp. -- see (Rock Cr.)
 Lemon -- see (Orange Hill)
 Lewis -- see (Little Eldorado Cr.)
 Marie Nabesna -- see (Monte Cristo Cr.)
 McGettigan -- see (Bonanza Cr.)
 McKinney -- see (Gold Run Cr.)
 Nabesna claim -- see (Orange Hill)
 Nelson & LaBell -- see (Trail Cr.)
 Nelson Mining Co. -- see (Bonanza Cr.)
 (Nikonda Cr.) -- see (Orange Hill)
 North Star -- see (Orange Hill)
 North Star East Extension -- see (Orange Hill)
 O'Hara -- see Sulzer
 Orange Hill -- see (Orange Hill)

Peterson & Hawkins -- see (Coarse Money Cr.)
(Porcupine Cr.) -- see (Slope Cr.)
Price & Ives -- see (Big Eldorado Cr.), (Bonanza Cr.), (Little
Eldorado Cr.)
Prarmigan Exploration Co. -- see Nabesna
Rambler -- see Nabesna
Rams Horn -- see Nabesna
Royal Development Co. -- see Nabesna
Shamrock -- see (Orange Hill)
(Snag R.) -- see Reynolds, Sulzer
Stonehead -- see Nabesna
Todd (, Frame, Horn & DeWitt) -- see (Rock Cr.)
Violet -- see (Eureka Cr.)
White Mountain -- see Nabesna
Whitham -- see (Cheslina R.), (Little Eldorado Cr.), Nabesna
(Wilson Cr.) -- see (Chavolda Cr.)
Wright & Hundell -- see (Gold Run Cr.)

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