

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUMMARIES OF DATA ON AND LISTS OF REFERENCES TO
METALLIC AND SELECTED NONMETALLIC MINERAL OCCURRENCES
IN THE SOLOMON QUADRANGLE, ALASKA,
SUPPLEMENT TO OPEN-FILE REPORT 78-181

PART A -- SUMMARIES OF DATA TO JANUARY 1, 1981

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

Introduction

This report was prepared as a supplement to a 1978 report which summarized data on mineral occurrences in the Solomon quadrangle, Alaska (Cobb, E. H., 1978, Summary of references to mineral occurrences (other than mineral fuels and construction materials) in the Solomon quadrangle, Alaska: U.S. Geological Survey Open-file Report 78-181, 185 p.). As a result of suggestions from users of the series of which the 1978 report is a part, this supplement is released in two parts; Part A, which presents summaries of data to January 1, 1981, and Part B, which consists of reference lists for each occurrence.

In Part A data from reports released between the cut-off date (September 1, 1977) for the original report and January 1, 1981 have been incorporated in rewritten or new summaries where appropriate; if there are no new data on a deposit the original summary is repeated or a new reworded version is substituted. For each deposit the name, list of mineral commodities, and location data are in the same format as in the 1978 report. Also included is an updated list of synonyms, owner, operator, and claim names.

In Part B citations are 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 number of the report or map. Abbreviations used are:

AOF	Alaska Division of Geological and Geophysical Surveys (and predecessor agencies) Open-file Report
B	U.S. Geological Survey Bulletin
BMB	U.S. Bureau of Mines Bulletin
C	U.S. Geological Survey Circular
GC	Alaska Division of Geological and Geophysical Surveys (and predecessor agencies) Geochemical Report
GR	Alaska Division of Geological and Geophysical Surveys (and predecessor agencies) Geologic Report
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

Citations to the principal references used in preparing summaries in Part A are preceded by an asterisk.

Because the form of citation used in the reference list for each deposit constitutes sufficient identification for each numbered report or map to allow it to be found easily in most libraries, the general reference list in this report consists only of listings of reports without formal identifying numbers. Numbers given to U.S. Geological Survey Open-file Reports listed with complete titles are informal and used mainly in to Branch of Alaskan Geology of the U.S. Geological Survey.

(Adams Cr.)

Gold

Nome district

Solomon (4.1, 12.45)

MF-445, loc. 88

64°42'N, 164°27'W

Creek heads in schist and greenstone terrane; flows across belt of limestone. 50-60 oz gold recovered in 1900. Magnetite and garnet in concentrates. Report of dredge being built in 1914 is probably an error.

(Adventuress Cr.)

Gold

Kougarok district

Solomon (3.2, 15.25)

MF-445, loc. 42

64°52'N, 164°34'W

Shallow auriferous gravels; probably worked out before 1908.

(Aggie Cr.)

Gold

Council district

Solomon (13.25-13.5, 15.55-15.9)

MF-445, loc. 125

64°52'-64°54'N, 163°12'-163°13'W

Tributary of Fish R. 2.9 mi downstream from creek labeled Aggie Cr. on most maps. Placer mining in 1930's and early 1940's. Dredge operated from 1938 to 1940 or 1941; tailings conspicuous on aerial photos taken in 1950. More than 300 kg of gold mined from Aggie and Mystery (trib. Niukluk R.) Creeks. Calcareous metasedimentary rocks exposed beneath calcareous schist.

(Allgold Cr.)

Gold

Council district

Solomon (4.0, 15.3)

MF-445, loc. 49

64°52'N, 164°28'W

Colors of gold in prospect pits. Country rock mainly feldspathic schist.

(American Cr.)

Gold

Council district

Solomon (4.3-4.35, 16.55-16.65)

MF-445, loc. 48

64°56'N, 164°27'W

Headwater part of creek in limestone-schist terrane; lower part in area of faulted limestone. Headward part of valley was captured from Kruzgama drainage by a tributary of the Niukluk River. All gold placers above point of capture. Gold discovered in about 1900. Most mining in basin was on Auburn Ravine. Dredge operated on main stream near mouth of Game Cr. for part of season in 1940. No data on more recent mining, if any.

(Anaconda Cr.)

Gold(?)

Council district

Solomon(?)

NW¼NW¼NE¼ quad.(?)

Prospecting and rumors of coarse placer gold, 1899-1900. Anaconda Cr. is the old name for Pargon R. Reported prospecting may have been in Ben-deleben quad. or on a tributary. No record of gold mining in basin.

(Auburn Ravine) (Cr.)

Gold, Mercury

Council district

Solomon (3.8, 16.0)

MF-445, loc. 47

64°54'N, 164°29'W

Major tributary of American Cr. Bedrock is cavernous limestone into which most of water is lost; schist west of creek. Gold in gravel from mouth to headwater gulches. All of gold recovered was coarse and rested on thin clay layers in gravel rather than on bedrock. Concentrates contained garnet, magnetite, ilmenite, and sparse cinnabar. Many large solution-etched blocks of limestone in gravel. Was placer mining before 1910.

(Banner Cr.)

Gold

Council district

Solomon (5.1-5.3, 14.45-14.55)

MF-445, locs. 72, 73

64°49'-64°50'N, 164°18'-164°19'W

Crosses contact between limestone and schist. Most of creek gravels had been worked at least once by 1906; no record of mining after 1907. Gold recovered was generally coarse; worth \$19.20 an ounce (gold at \$20.67).

(Barney Cr.)

Gold

Kougarok district

Solomon (2.15, 16.35)

MF-445, loc. 32

64°56'N, 164°43'W

A little fine, flaky gold was mined in 1906 and possibly in 1907 or 1908. Concentrates contained abundant garnet and magnetite. Many exotic rocks in gravel.

(Basin Cr.)

Gold

Council district

Solomon (10.2, 16.0)

MF-445, loc. 123

64°54'N, 163°38'W

Tributary of Melsing Cr. on which there has been placer gold mining, including dredging in 1920 and 1927. Benson Gulch, named as site of mining, 1929-33, may be the same as Basin Cr. or may be another tributary of Melsing Cr. not shown on maps. Includes references to (Benson Gulch). See also (Melsing Cr.).

(Bear Gulch)

Gold

Nome district

Solomon (4.9, 12.05)

MF-445, loc. 92

64°41'N, 164°21'W

Was placer gold mining in early 1900's; most of gravel had been worked over by 1907.

(Beaver Cr.)

Gold

Nome district

Solomon (1.3-1.55, 11.2-11.4)

MF-445, loc. 85

64°38'-64°39'N, 164°48'-164°50'W

Gold dredge operated, 1940's. Ground was too wet for other types of mining. Almost 200 kg of gold reported to have been recovered.

(Ben Gulch)	Gold(?)
Council district	Solomon (6.05, 16.85)
	64°57'N, 164°11'W

Gulch which was staked for placer gold and on which a little work was done. No data on results.

(Benson Cr.)	Copper, Gold, Silver
Kougarok district	Solomon (2.3-2.7, 16.0-16.1)
MF-445, locs. 6, 36	64°55'N, 164°38'-164°42'W

Bedrock is limestone and schist. Near head mineralized zones in closely folded silicified limestone contain banded copper "ore" consisting of malachite, chalcopyrite, quartz, and iron oxides; contains as much as 0.04 oz gold and 0.2 oz silver per ton; drift driven along "ore" zone, 1920 or earlier. Bench gravels in most of valley; creek cut through them and reconcentrated gold from them; much of gold probably from lode sources in schist bands in limestone. Placer gold mining, probably all small scale, from 1900 to as recently as 1938.

(Big Four Cr.)	Gold
Council district	Solomon (6.2, 16.0)
MF-445, loc. 68	64°54'N, 164°10'W

Bedrock in basin includes schist, greenstone, slate, and limestone. Bedrock not reached where mined $\frac{1}{2}$ mi above mouth. Gold on clay layers in gravel. Assessment work and small-scale placer mining, 1906-07.

Big Hurrah	Gold, Silver, Tungsten
Nome district	Solomon (5.8, 11.45)
MF-445, loc. 19	64°39'N, 164°14'W

Major productive lode gold mine on Seward Peninsula. Mining about 1900-07, tailings cyanided in 1950-51, and a little more mining in 1953-54. Mine closed because of fire damage and unstable ground. Workings consisted of an inclined shaft and several hundred feet of drifts; had mill. Total production probably was about 10,000 fine oz of gold. Deposit consists of quartz fissure veins in shear zones in siliceous black slate (Hurrah slate of old reports; York Slate of Sainsbury); veins 4-8 ft thick and several hundred feet long; gold in massive quartz veins, in ribbon rock (alternate laminae of quartz and slate), and irregular quartz veinlets in slate. Ore mined averaged a little less than one ounce of gold per ton; about 6 oz of silver per ounce of gold; probably about 0.25% scheelite in ore; sulfides absent except for a little pyrite (one report mentions chalcopyrite, pyrrhotite, and stibnite; may have been from general area rather than from the mine). Reserves estimated at about 105,000 metric tons containing about 22 g per ton gold and 11 g per ton silver. About 50,000 tons average 0.08 to 0.16 percent W. Includes reference to Hurrah. See also (Big Hurrah Cr.).

(Big Hurrah Cr.)	Antimony, Gold, Silver, Tungsten
Nome district	Solomon (5.2-6.1, 11.3-11.55)
MF-445, locs. 17, 100	64°38'-64°39'N, 164°12'-164°19'W

Country rock is limestone, schist, and slate; quartz veins exposed in and near Big Hurrah Cr. contain gold, silver, stibnite, and other sulfides. Creek has cut down 10-30 ft below old valley floor, leaving benches on both sides of creek. Bench gravels auriferous. Creek gravels some of richest in district, especially immediately downstream from Big Hurrah lode mine; gold from lodes and reconcentrated from bench gravels. Scheelite in placer concentrates; estimated to amount to about 3½ lb scheelite per yd³ of concentrate. Mining from 1900 to World War II or later; dredges operated, 1911, 1918-26. See also Big Hurrah, Quigley, Silver, unnamed occurrence (copper, gold) at 64°40'N, 164°15'W.

(Birch Cr.)	Gold
Council district	Solomon (6.5, 14.75) approx.
MF-445, loc. 82	64°50'N, 164°07'W approx.

Tributary of Big Four Cr. Placer gold mining in 1906.

(Bobs Cr.)	Gold
Kougarok district	Solomon (2.05, 16.2)
MF-445, loc. 31	64°55'N, 164°43'W

Placer mining in 1906. Concentrates contained fine gold, magnetite, and garnet. All of ground frozen.

(Bonanza Cr.)	Gold(?)
Council district	Solomon (6.05, 16.85) approx.
	64°57'N, 164°11'W approx.

Country rock is schist in headwaters and limestone farther downstream. Has been some prospecting, but very little (if any) productive placer gold mining. See also (Ben Gulch)

(Boulder Cr.)	Gold
Council district	Solomon (4.5, 15.2)
MF-445, loc. 50	64°52'N, 164°24'W

Gold distributed through 18-24 in of gravel. Some \$12-nuggets, but most much smaller; gold worth \$18 per oz (gold at \$20.67). Mining 1899-1900, 1907.

Brookins	Antimony
Council district	Solomon (7.7, 16.0)
MF-445, loc. 17	64°55'N, 163°58'W

Stringers and lenses (largest one foot thick) of stibnite in mica schist. Exploration consisted of an 8-ft shaft and a 60-ft tunnel. No production. Nearby tiny stringers and pockets of stibnite in folds of contorted schist.

Bunker Hill	Copper, Gold
Council district	Solomon (9.4, 10.65)
MF-445, loc. 20	64°36'N, 163°45'W

Quartz vein at contact between limestone and schist; carries a little chalcopyrite, pyrite, and gold (assay of about 3.87 oz gold per ton reported); stained with secondary iron and copper minerals. Vein exposed by shallow trenches for a width of 5½ ft and a length of 20 ft.

(Burnt Cr.)	RE, Thorium, Uranium
Council district	Solomon (18.15, 13.0)
	64°43'N, 162°35'W

Sample of allanite-rich syenite boulder contained 0.59% U₃O₈ and 1.05% ThO₂. Occurrence similar to that near Eagle Cr. See also (Eagle Cr.).

(Butte Cr.)	Gold
Nome district	Solomon (5.0-5.15, 12.45-12.6)
MF-445, loc. 95	64°43'N, 164°19'-164°20'W

Follows contact between limestone and underlying schist upstream from productive placerground on South Fork. Placer gold mined from creek and bench gravels, 1908 and earlier. Includes references to (Butte Cr., South Fork).

(Cahill Cr.)	Gold
Council district	Solomon (4.1, 14.5)
MF-445, loc. 75	64°49'N, 164°27'W

Gold, which may have been reconcentrated from bench of Lower Willow Cr., found in lower half mile of creek. No record of mining.

(California Cr.)	Gold
Council district	Solomon (8.4, 11.0)
MF-445, loc. 106	64°37'N, 163°53'W

Small-scale placer gold mining reported, 1928-30, 1933. Dredge operated for parts of 1939 and 1940 seasons.

(Camp Cr.)	Gold
Council district	Solomon (7.45-8.0, 15.0-16.5)
MF-445, locs. 13, 115	64°51'-64°56'N, 163°56'-164°00'W

Quartz vein near head carries visible free gold. Sporadic placer gold mining reported from 1905 to 1940. Most placer mining was in flats of Niukluk R. near mouth of Camp Cr. Dredges operated 1915-18, 1939-40. Smaller scale mining may well have been on Camp Cr.

(Canyon Cr., trib. Casadepaga R.)	Gold
Council district	Solomon (4.55-4.75, 15.1)
MF-445, loc. 51	64°51'N, 164°22'-164°24'W

Creek has cut about 10 ft below old valley floor; bedrock is schist with a few narrow limestone reefs and numerous quartz veins. Much of mining was of bench gravels about 12 ft thick and as much as 200 ft or more wide. Gold throughout gravel; best values on bedrock or in crevices in it. Creek gravels also auriferous. Intermittent mining, 1900-18; dredge operated, 1916-18.

(Canyon Cr., trib. Iron Cr.)

Gold

Kougarok district
MF-445, loc. 27

Solomon (1.6, 15.05)
64°51'N, 164°47'W

Colors of placer gold reported. Most of valley in feldspathic and chloritic schists; some slate and limestone near head. No workable deposits found. See also (El Patron Cr.).

(Cape Darby)

Monazite, RE, Tungsten

Council district
MF-445, loc. 136

Solomon (16.75, 7.25)
64°24'N, 162°48'W

Sample from sea cliff contained allanite, monazite, scheelite, fluorite, hematite, magnetite, ilmenite, zircon, epidote, and biotite.

(Carson Cr.)

Copper

Council district
MF-445, loc. 24

Solomon (18.4, 9.35)
64°31'N, 162°34'W

Malachite, azurite, and minor chalcocite partially replaced schist. Explored in a small way in early 1900's.

(Casadepaga R.)

Gold

Council district
MF-445, locs. 53-57, 78, 81

Solomon (4.55-6.35, 13.85-16.25)
64°46'-64°56'N, 164°09'-164°24'W

Country rock limestone and schist; many quartz veins, some of which are auriferous. River heads in broad valley filled with gravel into which stream is entrenched 30-150 ft. Broad terraces with gold-bearing bench gravels. Tributaries have concentrated gold from bench gravels in their lower courses and in gravels of main river below mouths of tributaries. Gold discovered, 1898. Mining on tributaries and bars of main stream before 1913. Dredges operated, 1913-14, 1925-29, and 1934-37. Smaller scale mining in intervening years. Includes references to (Koksuktapaga R.)

(Chickamin Gulch)

Gold

Kougarok district
MF-445, loc. 38

Solomon (2.7, 15.55)
64°53'N, 164°38'W

Small gulch in bench deposits on canyon wall of Iron Cr. Fine gold in sand with a few pebbles resting on solution-pitted limestone surface. No record of productive mining.

(Chukajak Cr.)

Gold(?)

Koyuk district

Solomon

NE $\frac{1}{2}$ NE $\frac{1}{2}$ NE $\frac{1}{2}$ quad.

Prospectors reported finding coarse gold, 1899-1900. Further work was discouraging.

(Clear Cr. area)

Niobium, RE, Tin, Tungsten, Uranium

Kotuk district

Solomon (19.7-20.9, 15.25-16.85)

MF-445, locs. 127-133

64°50'-64°56'N, 162°11'-162°21'W

Concentrate samples from tributaries of Clear and Vulcan Creeks contained pyrite, hematite, ilmenite, magnetite, cassiterite, rutile, zircon, topaz, allanite, garnet, kyanite, sphene, scheelite, and uraniferous niobate minerals. Anomalous amounts of Bi in many samples, but no bismuth mineral was identified.

(Coca Cola Cr.)

Gold

Council district

Solomon (8.5, 11.0) approx.

64°37'N, 163°53'W approx.

Near California Cr. A little placer gold was recovered in 1933.

(Dane Cr.)

Gold(?)

Kougarok district

Solomon (0.6, 16.0) approx.

64°56'N, 164°55'W approx.

Thin gravel. Map in principal reference shows auriferous gravel, but text description does not state that any gold was found.

(Daniels Cr.)

Copper, Gold, Mercury, Silver,
Tungsten

Council district

Solomon (9.4-9.5, 10.1-10.25)

MF-445, locs. 21, 110

64°34'-64°35'N, 163°44'-163°45'W

Country rock is limestone crossed by a band of chloritic schist. Three lodes extend from shore inland for about a mile; contain free gold (with alloyed silver) and sparse sulfides in quartz veins in shear zones; in richest material gold is concentrated near margins of veins. Sulfides mainly arsenopyrite and pyrite; some chalcopyrite. Lodes explored by many pits, trenches, shallow shafts, and an adit in sea cliff. A little ore was mined and milled in an arrastre and small mill, but production was negligible. Placer deposits (derived from lodes) were mined from Daniels Cr., two levels of beaches near mouth, and from offshore channel of creek. Bedrock in creek is cavernous limestone with most of gold in sink holes, collapsed caverns, and solution channels; gold in holes with bottoms below sea level probably not recoverable. Much cinnabar and a little scheelite in concentrates. Gold discovered in beach at mouth of creek in 1899; in creek and lodes in 1900. Beach was one of the richest ever found. Mining continued until as recently as 1956. Offshore channel mined with scraper working through a slot cut in the sea ice. Total placer production (mainly

before World War II) was probably about 87,000-88,000 fine oz of gold. Includes references to: (Bluff), Consolidated, Eskimo, Idaho, Labay & Megan, Sea Gull, (Topkok Beach).

(Darby Mts,)	Tin(?)
Council or Koyuk district	Solomon
	NE $\frac{1}{4}$ quad.

Unconformed report of cassiterite in granite.

(Dawson Cr.) (Gulch)	Gold
Council district	Solomon (6.15, 16.1)
MF-445, loc. 70	64°55'N, 164°11'W

Upper part of creek flows on limestone; schist with minor interbedded limestone near mouth. Crosses bench of Casadepaga R.. Was a little mining near mouth, mainly in 1907. Gold in creek placer derived from basin and from bench of Casadepaga R.; some bench mining also.

(Discovery Cr.)	Gold
Kougarok district	Solomon (2.25, 15.5-15.65)
MF-445, loc. 34	64°53'N, 164°42'W

Only placer gold mining was near mouth. Gold (none mined) reported on some of tributaries.

(Dividend Cr.)	Gold
Kougarok district	Solomon (3.2, 15.1)
MF-445, loc. 44	64°52'N, 164°34'W

Was placer gold mining before 1908; creek gravels shallow.

(Dixon Cr.)	Gold
Council district	Solomon (5.85, 15.8)
MF-445, loc. 67	64°54'N, 163°13'W

Creek roughly follows contact between limestone and chloritic schist. About \$15,000 (about 725 fine oz) in gold, some coarse, recovered in early 1900's. Some more recent (probably post-1950) work.

(Dome Cr., Left Fork)	Copper, Gold
Kougarok district	Solomon (2.6-2.8, 15.6-15.75)
MF-445, locs. 8, 37	64°53'-64°54'N, 164°37'-164°39'W

Small cut near headwaters in 1907 or earlier exposed small quartz lens with azurite and a little malachite. Stream crosses 3 limestone bands separated by 2 schist bands; much underground flow where bedrock is limestone. About 950-975 fine oz of gold recovered from placers before 1908. includes one reference (Hudson and others, 1977 (OF 77-796B), loc. 307) to (Dome Cr.).

(Dry Cr.)

Gold

Council district
MF-445, loc. 66

Solomon (5.8, 15.7)
64°54'N, 164°14'W

Stream crosses bench of Casadepaga R. from which gold in stream placer was probably concentrated. Gold, mostly fine, on clay false bedrock. A little mining, 1900, 1907.

(Dutch Cr.) (Gulch)

Gold

Council district
MF-445, loc. 120

Solomon (10.05, 17.3)
64°59'N, 163°39'W

Sporadic placer mining, 1900-18; all probably on a small scale. Gold in both creek and bench gravels. Includes references to (Snowball Cr.).

(Eagle Cr., Darby Mts.)

RE, Thorium, Uranium

Council district

Solomon (16.8, 12.7)
64°42'N, 162°16'W

Allanite-bearing syenite float near pulaskite dikes; some samples contained more than 2% rare-earth elements; samples averaged 1,325 ppm U (0.156% U₃O₈) and 7,990 ppm Th (0.91% ThO₂).

(Eagle Cr., near Iron Cr.)

Lead

Kougarok district
MF-445, loc. 5

Solomon (2.8, 16.65)
64°57'N, 164°38'W

Disseminated finely crystalline galena in quartz float.

(Easy Cr.)

Gold

Kougarok district
MF-445, loc. 35

Solomon (2.4, 16.2)
64°55'N, 164°41'W

Bedrock near mouth is dark limestone with numerous sulfide-bearing veins. Bedrock elsewhere in basin is schist and limestone. Was profitable small-scale placer mining before 1910. Auriferous sulfides in concentrates. Old channel, probably of Iron Cr., in bench deposits prospected and mined in a small way in 1908. See also (Iron Cr.).

(Eldorado Cr.)

Gold, Mercury

Council district
MF-445, loc. 109

Solomon (9.35, 10.4)
64°35'N, 163°46'W

Bedrock limestone with a narrow belt of schist (probable source area of placer gold); mining of creek gravels for 3,000 ft downstream from schist belt, in what appears to be a filled sink in limestone, and from a residual deposit on schist. Gold discovered before 1902; most mining between 1928 and 1933; small dredge operated in 1964. Total production probably about 1,000 fine oz of gold. Cinnabar present in placers.

(Elkhorn Cr.) Gold
Council district Solomon (7.6-7.85, 16.35-16.5)
MF-445, loc. 114 64°55'-64°56'N, 163°57'-163°59'W

Most of course incised in terrace of Niukluk R.; bedrock schist and interbedded limestone. Placer mining (other than dredging), 1900-07, 1913. Dredge operated 1914-18. Total production not known; probably was well over 10,000 fine oz. Some of gold very coarse and iron stained; nugget worth \$55 (gold at \$20.67) recovered in 1900. Some nuggets attached to quartz; one attached to a fragment of mica schist.

(El Patron Cr.) Gold
Kougarok district Solomon (1.75, 15.2)
MF-445, loc. 28 64°52'N, 164°46'W

Placer near contact between limestone and schist was mined on a small scale, 1906-08. Concentrates contained gold (coarse and little rounded), magnetite, ilmenite, and garnet.

(Etchepuk R.) Mica
Council district Solomon
SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ quad.

Large flakes of mica in pegmatite near head of Etchepuk R.

(Fish R.) Gold, Lead, Mercury, Silver
Council district Solomon (12.35-13.2, 15.2-16.0) approx.
MF-445, loc. 23 (in part) 64°51'-64°54'N, 163°13'-163°21'W approx.

Silver-lead lode 5 or 6 mi about mouth of Niukluk R. said to have been worked sporadically for several years; production of a few flasks of mercury annually for a few years also reported; 1915 and earlier. Schist and/or limestone probable host for silver-lead; quartz stringers for cinnabar. Recent attempts to find this occurrence (1960's) were unsuccessful. Fine gold on river bars reported; was prospect drilling near mouth of Aggie Cr. in 1937.

(Fox Cr.) Gold
Nome district Solomon (5.3, 12.9)
MF-445, loc. 98 64°44'N, 164°18'W

Small-scale placer gold mining near contact between limestone and schist, 1907-08.

(Fox R.) Gold
Council district Solomon (9.05, 13.9)
MF-445, loc. 113 64°47'N, 163°48'W

Bedrock is schists with interbedded limestone and greenstone sills and dikes. Stream incised 50-100 ft into old valley floor. Prospecting and a little placer gold mining in bench gravels near IXL Gulch in early 1900's. See also (IXL Gulch).

(Goldbottom Cr.)

Gold, Tungsten

Council district

Solomon (8.1, 16.9)

MF-445, loc. 116

64°57'N, 163°55'W

Bedrock schist with interbedded crushed and crumpled limestone; some greenstone. Many quartz veins and lenses, some pyritiferous. Placer concentrates from near mouth of Warm Cr. contain gold, garnet, hematite, ilmenite, and scheelite. Mining, 1900-11; dredge operated, 1911. See also (Goldbottom Cr.) Bendeleben quad.

(Gold Moon Gulch)

Gold

Council district

Solomon (5.25, 15.85)

MF-445, loc. 60

64°54'N, 164°18'W

Gulch follows contact between schist and cavernous limestone into which creek and ditch water disappear. Gold coarse and angular; much with attached quartz; of local derivation. Was a little mining, probably in 1907 or 1908.

(Golovnin Bay)

Niobium, RE, Tungsten, Uranium

Council district

Solomon (15.75, 9.5)

MF-445, loc. 135

64°31'N, 162°55'W

Concentrate from sample of slopewash that probably was derived from a mineralized zone near contact between granite and older igneous rocks contained magnetite, sphene, topaz, allanite, hematite, ilmenite, scheelite, and an unidentified uranium-titanium niobate mineral.

(Goose Cr.)

Gold

Council district

Solomon (4.8-5.3, 15.55)

MF-445, locs. 58, 61

64°53'N, 164°17'-164°22'W

Bedrock cavernous limestone and schist. Lower part of course cut in terrace of Casadepaga R.; benches extend up Goose Cr. In places in creek gold is on clay false bedrock; in others on clay layer on schist bedrock. Placer concentrates contain garnet and magnetite. First dredge installed (1909) would not even float because water was lost to cavernous limestone. Mining, 1900-19. Dredging, 1911, 1916-19.

(Guy Cr.)

Gold

Council district

Solomon (9.9, 17.6) approx.

65°00'N, 163°40'W approx.

Creek cuts limestone and one zone of schist. Least productive creek in Ophir Cr. area. May not carry gold. Called Gold Cr. on some maps.

(Hardluck Cr.)

Gold

Kougarok district

Solomon (2.8-2.9, 15.45-15.5)

MF-445, loc. 39

64°53'N, 164°37'-164°38'W

Coarse, well rounded gold in slate-quartz-greenstone gravel on a thin clay layer on bedrock. Creek heads in a limestone ridge. Placer mining before

1910. Includes reference to (Hobo Gulch).

(Hilliard Cr.)	Gold(?)
Kougarok district	Solomon (2.2, 15.95) approx. 64°54'N, 164°43'W approx.

Ground was staked, but no valuable placer deposit was found. Creek not shown on available maps; may be the stream shown as Pajaro Cr. on pl. X, Smith, 1909 (B 379) or the one called Rapid Cr. in Smith, 1907 (B 314), p. 163.

(Independence Cr.)	Gold(?)
Kougarok district	Solomon (1.6, 14.9) approx. 64°51'N, 164°39'W approx.

Was a little work before 1909. Results discouraging. May not have been any gold.

(Iowa Cr.)	Gold(?)
Council district	Solomon (5.4, 14.0) approx. 64°42'N, 164°17'W approx.

Prospect pits and claim stakes, 1907. No mention of the presence of gold. Practically no water in creek. Called Mud Cr. on modern maps.

(Iron Cr.)	Copper, Gold, Mercury
Kougarok district MF-445, locs. 4, 33	Solomon (2.15-3.1, 15.25-16.95) 64°52'-64°58'N, 164°35'-164°43'W

Various segments of stream known by different names. Country rock is schist and thrust plates of limestone. Several copper deposits (mainly malachite stains, but a few sulfides also) in silicified limestone near base of thrust plates or, locally, near irregular masses of chloritic schist in thrust plates. In general, stream gravels were not rich, but were pretty thoroughly worked over, 1900-14 and 1938-40. Area accounted for probably 10% of the 6,872 kg of gold and 300 kg of silver recorded for the Kougarok district. Cinnabar in concentrates. Auriferous quartz vein (said to carry about 0.58 oz gold per ton) found 2 mi above mouth; no report of any development. Dredge worked for 2 or more years beginning in 1939, but most mining was small scale. Includes references to: (Dome Cr.), (Telegram Cr.), (Telegraph Cr.). See also (Dome Cr., Left Fork).

(IXL Gulch)	Gold
Council district MF-445, loc. 113	Solomon (9.05, 13.9) 64°47'N, 163°48'W

Bedrock is schist underlain by limestone (probably a lens). Sporadic small-scale placer gold mining, 1903-13

(Jerome Cr.)	Gold
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Nome district
MF-445, loc. 101

Solomon (4.6, 10.8)
64°37'N, 164°23'W

Upper part of creek flows in coastal plain gravels; in lower part, creek bed cut down into bedrock of limestone with narrow bands of schist. Irregular pay streaks contain both coarse and fine gold. A little development before 1900. Placer mining in 1907, 1932-34 reported; all on a small scale.

(Johns Cr.)

Copper, Gold

Nome district

Solomon (5.0, 13.0) approx.
64°44'N, 164°20'W approx.

Bedrock mainly schist; quartz lenses and stringers carry pyrite, minor chalcopyrite, and traces of gold. Prospecting for placer gold in 1900; production probably less than 1½ oz of gold.

(Kauchauik Cr. tributary)

Copper

Council district

Solomon (15.3, 13.0) approx.
64°43'N, 162°58'W approx.

More recent reference reports float of chalcopyrite-quartz vein stained and encrusted with malachite. Older reference reports that quartz veins cut schist and also contain bornite.

(Kasson Cr.)

Gold

Nome district
MF-445, loc. 89

Solomon (4.35-4.5, 12.15)
64°42'N, 164°24'-164°26'W

Near contact between limestone and schist. Creek flows on fragmented limestone into which water escapes. Much of gold deep (at least 20-30 ft) in crevices (solution channels, etc.?) in limestone. Small-scale placer mining in 1900-08, 1913, 1934 reported. Sulfide material in calcareous schist float assayed 0.07 oz gold per ton.

(Koyana Cr.)

Gold, Mercury

Council district
MF-445, locs. 22, 112

Solomon (10.05, 10.15)
64°34'N, 163°40'W

Country rock limestone with a schist band in which are mineralized (with arsenopyrite and pyrite) quartz veins at least one of which carries about 1½ oz gold per ton. Sulfides in wall rock also. A few tons of ore taken out in early 1900's may not have been sold. A little mining of shallow placer deposits in early 1900's and 1928-30; total production probably less than 100 fine oz. Cinnabar in concentrates. Includes references to lode prospect 3 mi east of Daniels Cr. See also (Daniels Cr.).

(Kwiniuk R.)

Copper, Mercury(?), Molybdenum, RE,
Tungsten

Council district
MF-445, loc. 134 (in part)

Solomon
SE¼NE¼ quad.

Unconfirmed report of placer cinnabar. Heavy minerals in sample from a small stream that drains contact between granite and Paleozoic limestone and shale include allanite, scheelite, powellite, chalcopyrite, sphene, rutile, pyrite, magnetite, and hematite.

(Last Chance Cr., trib. American Cr.) Copper(?), Gold(?)

Council district Solomon (3.2-3.35, 15.55-15.65)
64°53'N, 164°33'-164°34'W

Creek was prospected for placer gold. Shaft sunk 10 ft on a slightly iron-stained quartz vein in limestone. One of decomposed sulfides may have been chalcopyrite.

(Lightning Cr.) Gold

Council district Solomon (5.75, 15.4)
MF-445, loc. 63 64°53'N, 164°14'W

Prospecting before 1907. Gold in creek gravels probably came from terrace gravels 5-10 ft above stream.

(Lion Cr.) Gold

Nome district Solomon (6.0-6.1, 11.25-11.3)
MF-445, loc. 100 64°38'N, 164°12'W

Gold in creek in about 4 ft of gravel; richest on bedrock. Colors also on bedrock 20 ft above creek beneath a bench. Was a little small-scale mining in about 1903.

(Little Anvil Cr.) Gold

Council district Solomon (8.7, 10.45)
MF-445, loc. 107 64°35'N, 163°51'W

Deposits similar to, but smaller than, those on Daniels Cr. Small-scale placer mining reported; before 1903, 1916, and 1930. Includes references to (Silver Bow Cr.).

(Lower Willow Cr.) Gold

Council district Solomon (3.6-4.9, 14.3-14.4)
MF-445, loc. 76 64°49'N, 164°21'-164°31'W

Bedrock limestone and schist. Sulfides in quartz veins along limestone-schist contact. Crosses bench on left side of Casadepaga R.; benches on both sides of Lower Willow Cr. from near water level to 30 ft above it. Stream and bench gravels were mined; much of gold coarse. Placer mining, 1900-15; dredge operated, 1911-15. Includes references to: (Koksuktapaga R., Left Fork), (Willow Cr., trib. Casadepaga R.).

(Manila Cr.) Gold

Nome district Solomon (4.4, 10.4)
MF-445, loc. 104 64°35'N, 164°25'W

Stream heads in coastal plain, gravel of which contains some gold. Creek

has cut down to schist bedrock at forks 3/4 mi above mouth; limestone bedrock below forks. Has been considerable prospecting, but no valuable placers were found.

(Meddler Gulch)	Gold
Nome district	Solomon (4.8, 12.1)
MF-445, loc. 91	64°41'N, 164°22'W

Small headwater tributary of Minnesota Cr. Had been mined before 1907. In 1907 a small deposit (possibly an eluvial placer) was worked for part of the summer. Gold coarse and bright.

(Melsing Cr.)	Gold
Council district	Solomon (10.0-10.2, 15.8-16.0)
MF-445, loc. 123	64°54'N, 163°38'-163°40'W

Country rock mainly calcareous schist; some limestone. Placers in creek gravels and in deposits of low terraces. In places gold is on clay false bedrock; in others, in crevices in top few feet of bedrock. Gold discovered in 1898. Mining as recently as 1938. Dredging, 1911-20, 1935-38. No data on amount of production but was one of principal producing creeks of district. See also (Basin Cr.).

(Minnesota Cr.)	Gold(?)
Nome district	Solomon (4.85, 11.95) approx.
	64°41'N, 164°21'W approx.

Prospecting and assessment work only, 1917. No gold production. See also: (Bear Gulch), (Meddler Gulch), (Sapphire Gulch).

(Moonlight Cr.)	Gold
Council district	Solomon (4.1, 13.8)
MF-445, loc. 80	64°47'N, 164°27'W

Placer gold mining reported, 1916.

(Moonlight Divide)	Copper
Council district	Solomon (4.15, 14.0)
MF-445, loc. 14	64°48'N, 164°27'W

Copper mineralization along contact between schist and limestone.

(Moran Gulch) (Cr.)	Gold
Nome district	Solomon (4.65, 10.9)
MF-445, loc. 101	64°37'N, 164°23'W

Gravel of benches of Solomon R. mined on a small scale, 1908, 1913, 1932-33

(Mt. Dixon)	Copper
Council district	Solomon (5.7, 16.15)
MF-445, loc. 9	64°55'N, 164°14'W

Copper mineralization along contact between schist and limestone.

(Mud Cr.)

Gold

Council district
MF-445, loc. 124

Solomon (11.0, 15.3) approx.
64°52'N, 163°31'W approx.

Coarse, rough, spongy gold in angular schist gravel and in crevices in decomposed schist bedrock. Iowa Cr. is also called, Mud Cr., but all of the references listed in Part B are to this creek and not to Iowa Cr.

(Mulligan Cr.)

Gold(?)

Nome district

Solomon (0.9, 12.2) approx.
64°42'N, 164°53'W approx.

Unconformed reports of placer mining before 1900.

(Mystery Cr., trib. Niukluk R.)

Gold

Council district
MF-445, loc. 124

Solomon (11.0, 15.3) approx.
64°52'N, 163°31'W approx.

Country rock is schist with small quartz stringers. Creek placers only; some nuggets worth \$6-\$8 (gold at \$20.67), but most is finer. Mining from about 1906 to 1914; dredge operated, 1913-14. At site of dredging gravel was 2-15 ft thick on clay flase bedrock. More than 300 kg of gold mined from Mystery and Aggie Creeks.

(Mystery Cr., trib. Shovel Cr.)

Gold

Nome district
MF-445, loc. 86

Solomon (4.05-4.3, 11.35)
64°39'N, 164°26'-164°28'W

Bedrock decomposed schist. Both creek and bench gravels were mined. Some of gold has attached quartz; some is wire gold. Mining (probably sporadic) from 1903 to 1911, including a dredge in 1911. Annual production in early 1900's was about 1,450 fine oz of gold.

(Niukluk R.)

Gold

Council district
MF-445, locs. 115, 121, 122

Solomon (8.0-10.2, 15.4-16.5)
64°52'-64°56'N, 163°38'-163°56'W

Bar and floodplain gravels of Niukluk flats carry gold, most of which probably came from tributaries such as Camp and Ophir Creeks. Gold probably discovered in 1865 or 1866. A little bar mining, 1900. Nearly all of the gold recovered was by dredging between 1903 and 1940. See also: (Camp Cr.), Ophir Cr.)

(No Man Cr.)

Gold

Council district
MF-445, loc. 69

Solomon (6.2, 16.05)
64°55'N, 164°10'W

A little placer mining, 1907. Gold probably derived from bench of Casadepaga R.

(Nugget Cr., trib. American Cr.) Gold(?)
Council district Solomon (3.25, 15.8) approx.
64°54'N, 164°34'W approx.

Has been prospecting; no data on results.

(Nugget Gulch) (Cr., trib Solomon R.) Gold
Nome district Solomon (5.35, 13.6)
MF-445, loc. 96 64°46'N, 164°17'W

If there was any mining it was before 1907. Gold coarse, bright, and with some attached quartz.

(Ophir Cr.) Gold
Council district Solomon (9.4-10.05, 16.3-17.6)
MF-445, loc. 120 64°55'-65°00'N, 163°39'-163°44'W

Major producing creek in Council district. Bedrock is calcareous schist and limestone, both of which contain small quartz and calcite veins that carry sulfide minerals and visible gold; one near mouth of Ophir Cr. yielded gold when crushed and panned; veins are probably source of gold. Scheelite reported, probably erroneously, in 1901. Both stream and bench placers; some concentration by solifluction or other rapid mass movement. Some of gold in stream placers reconcentrated from terrace gravels. Parts of stream first worked by simple methods and then reworked later by dredges. Gold discovered in 1897; mining reported in nearly every year from then to 1940. First dredge installed in 1903; at times as many as 3 dredges were working in different parts of the creek and in the flats of the Niukluk R. at the mouth of Ophir Cr. One dredge was operating as recently as 1968. Some of mining was in Bendeleben quad., but as in many references it is impossible to determine what part of Ophir Cr. is discussed all are summarized here. Includes references to Wild Goose Mining & Trading Co. See also (Niukluk R.), (Ophir Cr.) Bendeleben quad.

(Oversight Cr.) Gold
Kougarok district Solomon (3.25, 15.2)
MF-445, loc. 43 64°52'N, 164°34'W

Was profitable placer gold mining before 1908. Stream gravels shallow.

(Pajara Cr.) Gold
Nome district Solomon (1.05-1.4, 11.6-11.9)
MF-445, loc. 84 64°40'N, 164°49'-164°52'W

Gold dredging in 1940's. Solomon C-6 map (1956 printing) shows large area of tailings and an airstrip.

(Penelope Cr.) Gold
Council district Solomon (5.6, 15.25)
MF-445, loc. 62 64°52'N, 164°15'W

All mining on lower part of creek. Bedrock schist. About a mile above

mouth a shaft passed through 69 ft of gravel and slide rock and 24 ft of clay; probably an old channel. Gravel may average about \$2 in gold (at \$20.67) per yd³. Mining, 1900-07.

(Penny Cr., trib. Iron Cr.)	Gold
Kougarok district	Solomon (3.1, 15.35)
MF-445, loc. 41	64°52'N, 164°35'W

Was placer gold mining before 1908. Gravels shallow.

(Penny Cr., trib. Solomon R.)	Copper, Gold, Silver
Nome district	Solomon (4.65-4.8, 11.25-11.65)
MF-445, loc. 94	64°38'-64°40'N, 164°22'-164°23'W

Bedrock in upper and lower parts of course is schist; limestone between; crosses broad terrace of Solomon R. A little sporadic small-scale placer mining, 1900 to as recently as 1934. Much of gold in broken limestone and in clay layer immediately above it. Near head limestone separated from schist by a fault along which there has been considerable silicification; a few disseminated copper minerals (mainly malachite). Samples contained 0.2-0.08 oz gold and 0.02-0.04 oz silver per ton.

(Post Cr.)	Gold
Council district	Solomon (7.6, 17.5)
MF-445, loc. 11	64°00'N, 163°59'W

Silicified zone reported to be about 8 ft thick at contact between schist and limestone and to contain free gold. Panning of crushed material said to have indicated about 1.7 oz gold per ton.

(Problem Gulch)	Gold
Nome district	Solomon (4.0, 11.35)
MF-445, loc. 86	64°39'N, 164°28'W

Bedrock mica schist. In creek 2-3 ft of gravel and top 2 ft of disintegrated schist were mined. Bench gravels on both sides of creek carry gold. Placer mining (not continuous), 1900-16.

(Puckmummie Cr.)	Gold
Council district	Solomon (6.9, 16.85)
MF-445, loc. 71	64°57'N, 164°04'W

Colors of gold widely distributed, but no pay gravels discovered. Gravels 2-3 ft thick and largely of local derivation except near mouth where gravels of Niukluk R. are being reworked.

(Puzzle Gulch)	Gold
Nome district	Solomon (4.2, 11.4)
MF-445, loc. 86	64°39'N, 164°27'W

Was placer mining in early 1900's. Gold very coarse; some pieces with attached quartz; some wire gold; of local origin.

(Quartz Cr., trib. Goose Cr.)

Gols

Council district

Solomon (5.2, 15.65)

MF-445, loc. 59

64°53'N, 164°18'W

At site of mining (near confluence with Goose Cr.) bedrock is schist; limestone farther upstream. Gold coarse, some with attached quartz. Much garnet and magnetite in concentrates. Gold on bedrock and 2 ft into crevices in schist. Mining, 1900 to 1907 or 1908.

(Quartz Cr., trib. Solomon R.)

Gold

Nome district

Solomon (5.0, 11.4)

MF-445, loc. 101

64°39'N, 164°20'W

Mining near mouth in bench gravels of Solomon R., 1907-08.

Quig(g)ley

Antimony

Nome district

Solomon (5.4, 11.5)

MF-445, loc. 17

64°39'N, 164°17'W

Lens of nearly pure stibnite as much as 18 in thick in a quartz vein 4 ft thick in black slate. Other smaller concentrations of stibnite in vein. Explored by a 12-ft shaft and several trenches. 4 tons of ore shipped in 1914. Includes references to: Gray Eagle, (Last Chance Cr., trib. Big Hurrah Cr.).

(Rabbit Cr., trib. Iron Cr.)

Gold

Kougarok district

Solomon (2.2, 15.95)

MF-445, loc. 30

64°54'N, 164°43'W

Has been a little small-scale placer mining. Gold fine, flaky, and bright.

(Rabbit Cr., E. of Solomon)

Gold

Nome district

Solomon (4.95, 10.9)

MF-445, loc. 102

64°37'N, 164°20'W

Fine gold in prospect holes; in sand on schist bedrock or in upper part of decomposed bedrock. In some places gravel above the sand appears to be beach gravel and in others to be stream gravel.

(Rapid Cr.)

Gold(?)

Kougarok district

Solomon (2.2, 15.95) approx.

64°54'N, 164°43'W approx.

Creek was staked; little more than assessment work in 1906. Creek not shown on available maps. May be the same stream as that called Pajaro Cr. on most maps and the same as Hilliard Cr. of Smith, 1909 (B 379), p. 329.

(Ready Bullion Cr.)

Gold

Kougarok district

Solomon (3.05, 15.2)

MF-445, loc. 45

64°52'N, 164°36'W

Has been probably profitable placer gold mining of shallow gravels.

(Richter Cr.)	Gold
Council district	Solomon (9.05, 16.25) approx.
MF-445, loc. 118	64°55'N, 163°47'W approx.

Gold placers seemed to be exhausted; negligible output in 1906.

(Ridgeway Cr.)	Gold
Council district	Solomon (4.3-4.45, 14.15-14.3)
MF-445, loc. 77	64°49'N, 164°25'-164°26'W

Gold (some nuggets) for at least a mile above mouth. Not enough water for efficient placer mining.

(Rock Cr., Fish R. drainage)	Gold
Council district	Solomon (13.25-13.5, 15.55-15.9) approx.?
MF-445, loc. 125?	64°52'-64°54'N, 163°12'-163°13'W approx?

Tributary of Aggie Cr. Promising gold placer ground discovered, 1926. Small-scale mining reported, 1928-30.

(Rock Cr., near Iron Cr.)	Gold
Kougarok district	Solomon (1.05, 15.9)
MF-445, loc. 25	64°54'N, 164°51'W

Western branch of Slate Cr. Was placer gold mining before 1908. See also (Slate Cr.)

(Rock Cr., trib. Solomon R.)	Gold
Nome district	Solomon (4.7-4.85, 10.7-10.8)
MF-445, loc. 103	64°37'N, 164°21'-164°23'W

Schist bedrock; much greenstone float; quartz pebbles and slate fragments in gravel. Some of gold may have been derived from veins in drainage and some from coastal-plain deposits. Placer mining, all on a small scale, 1903, 1913, 1932-34.

(Rock Cr., trib. Tubutulik R.)	RE
Koyuk district	Solomon (19.75, 17.45)
MF-445, loc. 126	64°58'N, 162°20'W

Concentrate sample contained allanite, hematite, ilmenite, magnetite, anatase, garnet, topaz, kyanite, epidote, and sphene.

(Rocky Cr.)	Gold
Kougarok district	Solomon (2.1, 15.8)
MF-445, loc. 29	64°54'N, 164°43'W

Creek was completely staked. Probably was a little small-scale placer gold mining, but not much production.

(Rover Cr.) Gold(?)
Council district Solomon (4.8, 14.0)
64°48'N, 164°22'W

A little desultory work near mouth. If there was any production of placer gold it was very small. Large blocks of schist and greenstone in creek.

(Ruby Cr.) Gold
Council district Solomon (4.95-5.6, 14.05-14.25)
MF-445, loc. 79 64°48'-64°49'N, 164°15'-164°20'W

Bedrock mainly schist; limestone near head. Garnetiferous greenstone pebbles common in gravel. Magnetite and much garnet in concentrates. Mining, 1900-07; most of creek gravels carefully worked from mouth to a mile above Iowa Cr. Small dredge operated, 1931-32. Has also been some placer gold production from bench deposits.

(Ryan Cr.) Gold
Council district Solomon (9.05, 10.3)
MF-445, loc. 105 64°35'N, 163°48'W

Was a very small production of placer gold, probably mainly before 1907. Bedrock is limestone with prominent sink holes downstream from a thin band of schist.

(San Jose Cr.) Gold(?)
Nome district Solomon (0.4, 13.0) approx.
64°44'N, 164°57'W approx.

Unconfirmed report of placer gold mining.

(Sapphire Gulch) Gold
Nome district Solomon (4.8, 11.95)
MF-445, loc. 93 64°41'N, 164°22'W

Has been placer gold mining.

(Sherrette Cr.) Copper, Gold
Kougarok district Solomon (2.8-3.1, 15.95-16.6)
MF-445, locs. 7, 46 64°54'-64°56'N, 164°35'-164°38'W

Stream rises in area of limestone east of Iron Cr. Lower part of course is in gravel plain between Kruzgamepa and Niukluk drainages. No mining near headwaters; prospecting in gravel plain area found fine, but visible, gold (some spongy) distributed through gravel and on clay layers in gravel; placer concentrates mainly magnetite and ilmenite with very little garnet and some iron and copper sulfides and copper carbonates. Prospect holes near head of creek on a copper showing similar to that at Wheeler prospect; mineralized quartz and schist on dumps. See also Wheeler (Sherrette Cr.).

(Shoal Cr.) Gold

Kougarok district Solomon (3.0, 15.4)
MF-445, loc. 40 64°52'N, 164°36'W

Shallow gold placer; probably worked out by 1908.

(Shovel Cr.)

Nome district Solomon (4.3-4.6, 11.1-11.8)
MF-445, loc. 90 64°38'-64°40'N, 164°23'-164°26'W

Thin but wide pay streak mined, mainly by dredges, from about 1907 to 1928. Total production (probably including some from tributaries) was probably about 20,000 fine oz of gold. Bedrock limestone, slate, and schist; placer gold penetrated crevices in schist for 2-3 ft.

(Sidney Cr.)

Kougarok district Solomon (2.2, 15.95) approx.
64°54'N, 164°43'W approx.

Ground was staked and some work done. Map (Smith, 1909 (B 379), pl. X) indicates presence of auriferous gravel, but there is no text statement that gold is present.

Silver

Nome district Solomon (5.45, 11.65)
MF-445, loc. 16 64°40'N, 164°17'W

At least 2 quartz veins varying from $\frac{1}{2}$ to 3 ft thick in quartzitic black slate, which grades into micaceous schist or phyllite. Veins contain as much as 1.48 oz gold and 0.70 oz silver per ton (one sample from dump contained 2.2 oz gold per ton and a little scheelite. Arsenopyrite in a green chloritic rock on dump and in vein. Work on prospect was in early 1900's and in 1930's; inclined shaft, possibly as much as 800 ft of workings off of it, and many surface pits and trenches. Mill installed some time after 1938; no data on its operation. Includes references to Flynn.

(Slate Cr.)

Kougarok district Solomon (1.1-1.15, 15.75-15.9)
MF-445, locs. 1, 25 64°54'N, 164°51'N

Country rock is greenstone cut by altered dikes, at least one of which contains a quartz-calcite stockwork with a little free gold. Placer gold (probably only a few thousand dollars worth) mined from creek gravel in early 1900's. Gold probably derived from lodes like that described above. Colors of gold in bench gravels between Slate and Willow Creeks. Includes references to Osmun.

(Solomon R.)

Nome district Solomon (4.5-5.4, 10.3-13.1)
MF-445, locs. 97, 99, 101 64°35'-64°45'N, 164°17'-164°24'W

Basin underlain mainly by schist and limestone, in some (possibly most) places in fault contact (schist as used in reports listed in Part B includes Hurrah slate of early workers and York Slate of Sainbury). First

placer claims staked near mouth of Big Hurrah Cr. in 1899. Mining, mainly by dredges, continued until as recently as about 1963. Bench gravels and some stream deposits also were mined by other methods. Value of gold produced was probably well over \$2,500,000; data are incomplete and such that values can not be converted to ounces. Placer deposits in and along the Solomon R. probably accounted for 10% of the gold and silver production of the Nome district, which was reported as 138,158 kg (about 4,441,800 oz) gold and 3,123 kg (about 100,400 oz) silver. Dredge concentrates from about a mile below mouth of Shovel Cr. contained about 22 oz gold and 9.1 lb scheelite per yd³.

(Spruce Cr., trib. Casadepaga R.)	Copper, Gold
Council district	Solomon (5.9-6.0, 15.3-15.5)
MF-445, locs. 10, 64	64°52'-64°53'N, 164°12'-164°13'W

Copper sulfides and carbonates in a siliceous rock that looks like replaced limestone at contact between limestone and schist; not in younger crosscutting quartz veins. Gold reported in some of veins. In 1899 and for a few years thereafter a little placer gold was mined. Production was probably less than 500 fine oz.

(Spruce Cr., E. of Solomon)	Gold
Nome district	Solomon (6.3-6.5, 10.2-10.6)
MF-445, loc. 105	64°35'-64°36'N, 164°08'-164°10'W

Small stream that rises in highland and flows across coastal plain. A little gold on a clay layer on bedrock was mined before 1910. Considerable production from coastal plain sediments was mined by a dredge from 1930 to 1937, when profitable ground was mined out.

Stepovich	Antimony, Gold, Lead, Silver
Nome district	Solomon (5.65, 1.6) approx.
	64°40'N, 164°15'W approx.

Gold-bearing antimony-lead-silver veins on ridge north of Big Hurrah Cr. Possibly this may be the same as the Quigley prospect or one of the occurrences reported as on Big Hurrah Cr.

(Sunshine Cr.)	Gold
Council district	Solomon (4.8, 15.15-15.2)
MF-445, loc. 52	64°52'N, 164°22'W

A little mining reported in early 1900's, 1918, and 1934. Placer deposit formed by reconcentration of bench gravel.

(Swede Cr.) (Gulch)	Gold, Mercury
Council district	Solomon (9.85, 10.1)
MF-445, loc. 111	64°34'N, 163°42'W

Country rock is hematite-stained limestone and a belt of schist near head of creek. Placer gold deposit is similar to, but much smaller and less

rich than, that on Daniels Cr. Reported production, 1918 to World War II, less than 1,000 oz, but may have been greater. Gold derived from veins in schist belt. Cinnabar in concentrates. Cinnabar lodes in limestone near mouth of creek consist of irregular masses, the largest of which was 7 ft in maximum dimension. Chip sample across largest mass assayed 2.36% Hg. Explored by 2 adits and a vertical shaft; no record of production. See also (Daniels Cr.).

(Sweetcake Cr.)

Gold

Council district
MF-445, loc. 119

Solomon (9.3-9.45, 16.4-16.75)
64°56'-64°57'N, 163°44'-163°45'W

Bedrock limestone and schist (some probably altered intrusive rock). Much mineralized quartz and calcite in gravel. Values all within about a mile of mouth. Most of production was between 1898 and 1906; probably 2,000 to 3,000 fine oz of placer gold. Small-scale mining, 1913, 1928, 1935-36.

(Thorp(e) Cr.) (Gulch)

Gold

Council district
MF-445, loc. 65

Solomon (6.0, 15.65)
64°53'N, 164°12'W

A little placer mining in 1900. Schist and limestone exposed at head of gulch. Bedrock not reached at site of mining, which was where creek crosses bench of Casadepaga R. Placer concentrates contained gold (some coarse) and magnetite.

(Tubutulik R.)

Gold

Koyuk district

Solomon
NE $\frac{1}{4}$ NE $\frac{1}{4}$ quad.

Colors of gold in surface gravels of river bars found as early as 1900. Only reported mining (in 1918) could have been anywhere in basin. See also (Tubutulik R.) Bendeleben quad.

(Uncle Sam Mtn.)

Gold(?)

Nome district

Solomon (5.5, 11.0)
64°38'N, 164°16'W

Quartz veins in slaty rock. No visible sulfides; specks of limonite probably represent decomposed sulfides. Was explored by a shaft which was not accessible in 1920. No data on possible gold content.

(Venetia Cr.)

Gold

Nome district
MF-445, loc. 83

Solomon (1.1-1.5, 13.9-14.45)
64°48'-64°49'N, 164°48'-164°52'W

Country rock is limestone and chloritic schist; many small quartz veins. Placer mining was upstream from a narrow gorge near mouth; pay streak 10-50 ft wide in floodplain 100-200 ft wide. Gold in thin creek gravel or in bedrock crevices 2-3 ft deep. Production, 1900-03, was about 290 fine oz; nuggets were sold to jewelers.

(Vulcan Cr.) Gold(?)
Koyuk district Solomon
NE½NE½NE½ quad.

Prospecting, 1899-1900. See also (Clear Cr. area).

(Walla Walla Cr.) Gold
Council district Solomon (19.0, 11.0) approx.
64°36'N, 162°29'W approx.

Limonite-stained joints and fracture planes in slate near contact with igneous rocks. Analysis of rock from open cut showed trace of gold. Open cut and 100-ft-long adit. Location given above may be as much as 5 mi off.

(Warm Cr.) Gold, Silver, Tungsten
Council district Solomon (8.1-8.5, 16.8-16.9)
MF-445, locs. 116, 117 64°57'N, 163°51'-163°55'W

Country rock is limestone and schist with some greenstone; mineralized quartz veins in several places. Rough, stained gold at base of gravel and in crevices in bedrock. Placer concentrates contain gold, magnetite, ilmenite, scheelite, garnet, hematite, and rutile. Concentrate sample from which free gold had been removed contained 22.4 oz gold and 4.2 oz silver per ton. Mining from 1903 (possibly 1900) to 1922; intermittent dredging, 1910-22.

(West Cr.) Antimony(?), Copper, Gold
Nome district Solomon (3.8-4.2, 11.9-12.0)
MF-445, locs. 15, 87 64°41'N, 164°26'-164°30'W

Creek flows across strike of schist and limestone bedrock. Gold increases in coarseness upstream; on clay false bedrock or in cracks and crevices in limestone. Concentrates contain gold, garnet, magnetite, pyrite, chalcopyrite, and arsenopyrite. Nonfloat placer mining, 1900-11, 1932-34. Quartz veins in sheared chloritic schist about 2 mi above mouth contain sulfide minerals (pyrite, marcasite, and possibly sulfides of copper, arsenic, and antimony); wall rock contains gold (as much as \$8-\$10 per ton; gold at \$20.67). Explored by 600-700 ft of underground workings; no record of production. Includes reference to Alden.

Wheeler (Iron Cr.) Copper
Kougarok district Solomon (1.9, 15.8)(?)
MF-445, loc. 2(?) 64°54'N, 164°45'W(?)

Claims at heads of several small tributaries of Iron Cr. from west. Tunnel 60 ft long and shaft 80 ft deep. At surface 9 ft of quartz contains several malachite stringers. Material from shaft contains small amounts of chalcopyrite and bornite; malachite on surface. Several tons of ore reported to have been shipped before 1916. Description is very similar to that of Wheeler (Sherrette Cr.); it is possible that Mertie's description (1918, (B 662), p. 441) of location is in error and that he meant east (rather than west) of Iron Cr.

Wheeler (Kruzgamepa R.)	Copper, Gold, Lead, Silver, Zinc
Kougarok district	Solomon (2.6, 17.15)
MF-445, loc. 3	64°58'N, 164°39'W

On both sides of Kruzgamepa R. near mouth of Iron Cr. Deposits (probably at least partly formed by replacement) are in slightly recrystallized limestone with interbedded schist (may be juxtaposed by faulting). Greenstone (possibly intrusive) along some contacts. Deposits consist of small lenticular masses of argentiferous galena, pyrite, and minor sphalerite, chalcopyrite, and boulangerite(?) in quartz-calcite gangue; pyrite and sporadic secondary copper minerals in schist. A little ore was mined from 2 lenses before 1922. Assays indicated 14%-23% Pb, 14.5-20 oz Ag per ton, and as much as 0.3 oz Au per ton. Sporadic exploration from about 1903 to possibly about 1920 and prospect drilling in early 1970's. Includes reference to sulfides near mouth of Iron Cr.

Wheeler (Sherrette Cr.)	Copper, Gold, Silver
Kougarok district	Solomon (2.7, 16.1)
MF-445, loc. 6	64°55'N, 164°38'W

Silicified zone 5 ft thick in limestone with thin bands of chloritic schist at base of a thrust plate (schist beneath) contains pyrite, chalcopyrite, bornite, and secondary minerals. Explored by an adit 200 ft long, a shaft reported to be 90 ft deep, and several pits. About 25 tons of ore mined, assay returns showed 17.18%-35.68% Cu and as much as 1.82 oz Au and 5.16 oz Ag per ton.

(Willow Cr., trib. Kruzgamepa R.)	Gold
Kougarok district	Solomon (1.5, 15.85)
MF-445, loc. 26	64°54'N, 164°49'W

A little placer mining, 1901-04 and possibly 1914. Gold of local origin, probably related to limestone-schist contact. Bench gravels between Slate and Willow Creeks are auriferous.

(Wilson Cr.)	Gold
Council district	Solomon (3.8, 14.55)
MF-445, loc. 74	64°49'N, 164°30'W

Was placer mining in early 1900's. Some of gold may have been concentrated from low benches. See also (Lower Willow Cr.).

Unnamed occurrence	Copper, Gold
Nome district	Solomon (5.64, 11.6)
MF-445, loc. 18	64°40'N, 164°15'W

About 3/4 mi northwest of Big Hurrah mine. Prospect shafts and open cuts exposed quartz containing free gold, pyrite, arsenopyrite, chalcopyrite, and pyrrhotite. Country rock is Hurrah slate of older reports (York Slate of Sainsbury). Samples of material from dump contained no more than 0.17 oz Au per ton and 0.04% Cu.

Unnamed occurrence

Tin

Council district

Solomon (19.65, 10.6)

64°35'N, 162°24'W

Trace of cassiterite in sample of gravel from a small creek with a small drainage basin.

Synonyms, Owners, Operators, and Claim Names

Adams & Edlin -- see (Goose Cr.)

Adams & Wik -- see (Goose Cr.)

Alaska Gold Dredging Co. -- see (Goldbottom Cr.), (Lower Willow Cr.), (Warm Cr.)

Alaska Homestake Gold Mining Co. -- see (Daniels Cr.)

Alaska Mercury Corp. -- see (Swede Cr.)

Alaska Placer Co. -- see (Niukluk R.), (Ophir Cr.)

Alden -- see (West Cr.)

American Creek Dredging Co. -- see (American Cr.)

Auric Offshore Mining Co. -- see (Daniels Cr.)

(Benson Gulch) -- see (Basin Cr.)

Black Chief Mining Co. -- see (Daniels Cr.)

Blackhawk -- see (Daniels Cr.)

Blue Goose (Mining Co.) -- see (Ophir Cr.)

(Bluff) -- see (Daniels Cr.)

(Bunny Cr.) -- see (Barney Cr.)

Burness-Iverson-Johnson -- see (Big Hurrah Cr.)

(Butte Cr., S. Fork) -- see (Butte Cr.)

(Cache Cr.) -- see (Spruce Cr., E. of Solomon)

Camp Creek Dredging Co. -- see (Camp Cr.)

Canyon Creek Gold Mining Co. -- see (Canyon Cr., trib. Casadepaga R.)

Casa De Paga Gold Co. -- see (Beaver Cr.), (Casadepaga R.)

Casadepaga Gold Dredging Co. -- see (Lower Willow Cr.)

Casadepaga Mining Co. -- see (Casadepaga R.)

(Casadepaga R., Left Fork) -- see (Lower Willow Cr.)

Casa Gold Mines Co. -- see (Casadepaga R.)

Coal Creek Dredge -- see (Solomon R.)

Connor, Erichinger & Hanot -- see (Casadepaga R.)

Consolidated -- see (Daniels Cr.)

Council Dredging Co. -- see (Aggie Cr.), (Camp Cr.), (Niukluk R.)

Davie -- see (Daniels Cr.)

(Dome Cr.) -- see (Iron Cr.) [part of Iron Cr. between Left Fork and Eldorado Cr.]

Elkhorn -- see (Elkhorn Cr.), (Niukluk R.)

Eskimo -- see (Daniels Cr.)

Eskimo (Gold) Dredging Co. -- see (Solomon R.)

Eskimo Gold Mining Co. -- see (Solomon R.)

Esquimeaux -- see (Daniels Cr.)

Esquimo Dredging Co. -- see (Solomon R.)

Esterbrook -- see (Solomon R.)

Flodin -- see (Canyon Cr., trib. Casadepaga R.)

Flodin Gold Mining & Dredging Co. -- see (Solomon R.)

Flodin Mining & Dredging Co. -- see (Big Hurrah Cr.)

Flower(s) -- see (Solomon R.)
 Flume Dredging Co. -- see (Basin Cr.), (Melsing Cr.), (Ophir Cr.)
 Flynn -- see Silver
 Galvin -- see (Daniels Cr.)
 G & O (Dredging Co.) -- see (Elkhorn Cr.), (Niukluk R.)
 Garrod & Overbaugh -- see (Warm Cr.)
 Garrod & Pfaffle -- see (Warm Cr.)
 Glass Dredging Co. -- see (Melsing Cr.)
 Goldbottom Dredging Co. -- see (Goose Cr.)
 (Gold Cr.) -- see (Guy Cr.)
 Goldsmith Dredging Co. -- see (Solomon R.)
 Goode -- see Silver
 Goose Creek -- see (Goose Cr.)
 Gray Eagle -- see Quigley
 Haney, H. J., Mining Co. -- see (Big Hurrah Cr.)
 Hanson -- see (Koyana Cr.)
 Hill -- see (Koyana Cr.)
 (Hobo Gulch) -- see (Hardluck Cr.)
 Homestake -- see (Daniels Cr.)
 Hot Air -- see Silver
 Hunter & Walker -- see (Daniels Cr.)
 Hurrah -- see Big Hurrah
 Hurrah Quartz Mining Co. -- see Big Hurrah
 Idaho -- see (Daniels Cr.)
 Inland Dredging Co. -- see (Aggie Cr.)
 (Iron Cr., Left Fork) -- see (Dome Cr., Left Fork)
 Iverson (& Johnson) -- see (Big Hurrah Cr.)
 Keenan -- see (Daniels Cr.)
 Kimball -- see (Adams Cr.), (Melsing Cr.), (Shovel Cr.), (Solomon R.)
 Kimball & Saupe -- see (Melsing Cr.), (Ophir Cr.)
 (Koksuktapaga R.) -- see (Casadepaga R.)
 (Koksuktapaga R., Left Fork) -- see (Lower Willow Cr.)
 Labay & Meegan -- see (Daniels Cr.)
 Lane Investment Co. -- see Big Hurrah
 (Last Chance Cr., trib. Big Hurrah Cr.) -- see Quigley
 Lee Bros. (Dredging Co.) -- see (Solomon R.)
 Libby, Melsing, Mordaunt & Blake -- see (Melsing Cr.)
 Lomen Reindeer & Trading Co. -- see (Solomon R.)
 Lubbe -- see (Mystery Cr., trib. Shovel Cr.)
 (Lulu Cr.) -- see (Benson Cr.)
 Lylles -- see (Koyana Cr.)
 Mahan & Slack -- see (California Cr.)
 Margraf & Kowalski -- see (Big Hurrah Cr.)
 Megan, Megan & Somerville -- see (Daniels Cr.)
 Megan, Somerville & Megan -- see (Daniels Cr.)
 Melsing Creek Dredge -- see (Basin Cr.)
 Moody Mining Co. -- see (Canyon Cr., trib. Casadepaga R.)
 Mordaunt, Libby, Nelson & Blake -- see (Casadepaga R.)
 Mulligan -- see (West Cr.)
 Newburg & Flower -- see (Solomon R.)
 Nome, Montana & New Mexico (Consolidated Mining Co.) -- see (Goose Cr.),
 (Solomon R.)

Nome, Montana & New Mexico Mining Co. -- see (Goose Cr.)
 Northern Light Mining Co. -- see (Niukluk R.), (Ophir Cr.)
 North(ern) Star Dredging Co. -- see (Niukluk R.), (Ophir Cr.)
 Nylen, Hultberg and others -- see (Shovel Cr.)
 Ophir Gold Dredging Co. -- see (Ophir Cr.)
 Oro Dredging Co. -- see (Elkhorn Cr.), (Goose Cr.)
 Osmun -- see (Slate Cr.)
 Peck -- see (Casadepaga R.)
 Roberts -- see (Big Hurrah Cr.)
 Ruby Dredging Co. -- see (Casadepaga R.), (Ruby Cr.)
 Scott -- see (Iron Cr.)
 Scott-Newburg -- see (Solomon R.)
 Sea Gull -- see (Daniels Cr.)
 Seward Dredging Co. -- see (Solomon R.)
 Shamrock -- see Silver
 Shovel Creek Dredging Co. -- see (Shovel Cr.), (Solomon R.)
 Shovel Creek Mining Co. -- see (Shovel Cr.)
 Sievertsen (& Johnson) -- see (Solomon R.)
 (Silver Bow Cr.) -- see (Little Anvil Cr.)
 Sivertsen & Johnson Mining & Dredging Co. -- see (Solomon R.)
 (Snowball Cr.) -- see (Dutch Cr.)
 Solomon (River) Dredging Co. -- see (Solomon R.)
 Solomon Valley Dredge Co. -- see (Solomon R.)
 Southern Cross -- see Silver
 Spruce Creek Dredging Co. -- see (Spruce Cr., E. of Solomon)
 Star Dredging Co. -- see (Mystery Cr., trib. Shovel Cr.)
 Sullivan Mining Co., Crabtree and others -- see (Daniels Cr.)
 Sullivan, Ryan and others -- see (Daniels Cr.)
 Swede Creek Mining Co. -- see (Swede Cr.)
 (Telegram Cr.) -- see (Iron Cr.) [part of Iron Cr. above Eldorado Cr.]
 (Telegraph Cr.) -- see (Iron Cr.)
 Three Friends Mining Co. -- see (Solomon R.)
 (Topkok Beach) -- see (Daniels Cr.)
 Topkok Chief Mining Co. -- see (Daniels Cr.)
 Topkok Ditch Co. -- see (Daniels Cr.)
 Tucker -- see (Daniels Cr.)
 Uplift Mining Co. -- see (Camp Cr.), (Niukluk R.)
 Warm Creek Dredging Co. -- see (Warm Cr.)
 Whiterock -- see (Daniels Cr.)
 Wild Goose Mining Co. -- see (Dutch Cr.), (Ophir Cr.)
 Wild Goose (Mining & Trading) Co. -- see (Ophir Cr.)
 (Willow Cr., trib. Casadepaga R.) -- see (Lower Willow Cr.)
 Willow Dredging Co. -- see (Lower Willow Cr.)