Iditarod quadrangle

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

Distribution of mineral occurrences in the Iditarod 1:250,000 quadrangle, southwest Alaska

This and related reports are accessible through the USGS World Wide Web site http://www-mrs-ak.wr.usgs.gov/ardf. Comments or information regarding corrections or missing data, or requests for digital retrievals should be directed to the author(s) of this compilation:

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U.S. Government.
Site  Mt. Joaquin
District  McGrath
Site type  Prospect
ARDF no.  ID001  MRDS no.  A015058
Quad-250 ID
Quad-63360 D1  Latitude  62.85000
State  AK  Longitude  156.22611
Commodities, main  Hg
Commodities, other  Au
Ore minerals  Cinnabar
Gangue minerals
Geologic description  Cinnabar is in monzonite.
Alteration
Workings/exploration  Surface
Age
Deposit model  Epithermal vein?
Deposit model number  27?
Production  No  Site status  Inactive
Production notes
Reserves
Additional comments
Primary reference  Bundtzen and Laird, 1983
Reporter(s)  Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation  USGS
Last report date  5/25/94
<table>
<thead>
<tr>
<th>Site</th>
<th>Yankee Creek</th>
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<tbody>
<tr>
<td>District</td>
<td>Innoko</td>
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<tr>
<td>Site type</td>
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<td>Quad-250</td>
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<tr>
<td>Quad-63360</td>
<td>D1</td>
</tr>
<tr>
<td>State</td>
<td>AK</td>
</tr>
<tr>
<td>Location</td>
<td>USGS MF-363, Loc. 44. Mine and tailings marked on Iditarod (D-1) topographic map.; 10 miles west of Takotna; Accurate within 1/4 mile.</td>
</tr>
</tbody>
</table>

| Commodities, main | Au |
| Commodities, other | Ag |
| Ore minerals      | Gold |
| Gangue minerals   |     |

| Geologic description | See description for Yankee Creek, Ophir quadrangle. |
| Alteration          |     |
| Workings/exploration| Surface: dredging |
| Age                | Tertiary/Quaternary |
| Deposit model       | Placer: stream, bench |
| Deposit model number| 39a |

| Production | Yes: small |
| Site status | Inactive |

| Reserves |     |

| Additional comments |     |
| References | Mertie, 1936, p. 188-190; Cobb, 1972, Loc. 44; Cobb, 1976, p. 56, 57; Miller and others, 1996 |
| Primary reference | Miller and others, 1996 |
| Reporter(s) | Powers, M.T.; Huber, D.F.; Miller, M.L. |
| Reporter affiliation | USGS |
| Last report date | 5/25/94 |
Site: Mackie Creek

District: Innoko

Site type: Mine

ARDF no.: ID003  MRDS no.: A015085

Quad-250 ID  Latitude: 62.99166

Quad-63360 D1  Longitude: 156.49500

State: AK

Location: USGS MF-363, Loc. 43. 1 mile NE of airstrip marked on Iditarod (D-2) topographic map, near mouth of Mackie Creek.; 10.5 miles south of Takotna.; Accurate within 1/4 mile.

Commodities, main: Au

Commodities, other:

Ore minerals: Gold

Gangue minerals:

Geologic description: Gold was found on bedrock surface beneath 16m of gravel.

Alteration:

Workings/exploration: Surface

Age: Tertiary/Quaternary

Deposit model: Placer: stream

Deposit model number: 39a

Production: Yes: small  Site status: Inactive

Production notes:

Reserves:

Additional comments: Stream gradient about 200 feet per mile.

References: Mertie, 1936, p. 188; Cobb, 1972, Loc. 43; Cobb, 1976, p. 37; Miller and others, 1996

Primary reference: Mertie, 1936, p. 188

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 5/25/94
Site: Ganes Creek
District: Innoko
Site type: Mine
ARDF no.: ID004
MRDS no.: A015083
Quad-250: ID
Latitude: 62.97500
Quad-63360: D2
Longitude: 156.51110
State: AK
Location: USGS MF-363, Loc. 39. Location is for discovery claim marked on Iditarod (D-2) topographic map at landing strip and placer mine, about 10 miles above mouth. Location description is for entire length of Ganes Creek in both Iditarod and Ophir quadrangles; 11.5 miles south of Ophir; Accurate within 1/4 mile.

Commodities, main: Au
Commodities, other: Ag
Ore minerals: Gold
Gangue minerals: No data on composition of concentrates.

Geologic description: Auriferous gravel were mined on benches 60-100 feet above stream level. Bench deposits represent pre-glacial creek valley. Gold in stream placers derived from local bedrock and reconcentrated from bench deposits. Gold occurs on or in upper foot or so of slate bedrock. Depth to bedrock averages 14 ft.; Ganes Creek pirated the upper part of Beaver Creek; all gold is below point of capture.

Alteration: 
Workings/exploration: Surface and underground: dredging, drifting
Age: Tertiary/Quaternary
Deposit model: Placer: bench, stream
Deposit model number: 39a
Production: Yes: small
Site status: Inactive
Production notes: Both modern stream and bench levels have produced 88,111 oz. of Au and 15,220 oz. of Ag from 1906-69. Probably an additional 16,000 oz. of Au were produced from 1970-75. Mertie (1936) reports fineness of 888 1/4 parts Au and 107 parts Ag.

Reserves:
Additional comments: Stream gradient about 50 feet per mile.
Primary reference: Mertie, 1936
Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
Site  Glacier Gulch
District  Innoko
Site type  Mine
ARDF no.  ID005  MRDS no.  A015084
Quad-250  ID  Latittude  62.95222
Quad-63360  D2  Longitude  156.52780
State  AK
Location  USGS-MF-363, Loc. 41. Deposit near mouth of Granite Creek.; 13 miles south of Ophir.; Accurate within 1,000 ft.

Commodities, main  Au
Commodities, other
Ore minerals  Gold
Gangue minerals  Quartz

Geologic description  A little gold was recovered from washed gravel about 4 ft. deep at the mouth of the gulch.

Alteration
Workings/exploration  Surface: cut
Age  Tertiary/Quaternary
Deposit model  Placer: stream
Deposit model number  39a
Production  Yes: small  Site status  Inactive
Production notes  Small amount of gold recovered around 1908

Reserves
Additional comments  Stream gradient about 200 feet per mile.
References  Maddren, 1910, p. 70; Cobb, 1972, Loc. 41; Cobb, 1976, p. 23.
Primary reference  Maddren, 1910
Reporter(s)  Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation  USGS
Last report date  5/25/94
Site: Fourth of July Creek

District: McGrath

Site type: Mine

ARDF no.: ID007
MRDS no.: A015082

Quad-250 ID
Quad-63360 C3

State: AK

Location: USGS MF-363, loc. 38.

Commodities, main: Au
Commodities, other: Cr

Ore minerals: Gold

Gangue minerals:

Geologic description: Creek emerges near a small pluton that intruded Cretaceous rocks. Concentrates contain abundant cinnabar and chromite.

Alteration:

Workings/exploration: Surface: drilling

Age: Tertiary/Quaternary

Deposit model: Placer: stream
Deposit model number: 39a

Production: Yes: small
Site status: Inactive

Production notes: Brooks, 1912 reports that there was considerable mining on creek, but no past production figures are available. Modest gold recovered 1982-83.

Reserves:

Additional comments:

References: Brooks, 1912, p. 40; Smith, 1938, p. 59; Smith, 1939, p. 59; Cobb, 1972, Loc. 38; Cobb, 1976, p. 18; Bundtzen, Laird, and Lockwood, 1988

Primary reference: Bundtzen, Laird, and Lockwood, 1988

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 5/25/94
Site Unnamed lode occurrence near Julian Creek

District Aniak

Site type Occurrence

ARDF no. ID008 ID
Quad-250 ID
Quad-63360 A-3
State AK

Location S ½ NE ½ sec. 34, T. 25 N., R. 44 W., approximately 1,100 ft. elevation, due south of knob marked 1390' on the Iditarod A-3 topographic map.; Accurate within 1/4 mile.

Commodities, main Ag; Sn; As
Commodities, other Bi; Cd; Sb

Ore minerals Arsenopyrite only identified ore mineral.
Gangue minerals Quartz

Geologic description Granite porphyry (alaskite) intrusive contains disseminated arsenopyrite and quartz veinlets. Gossan zone is exposed in rubble. Samples yield 10 g/tonne Ag, >.2% As, and 100 ppm Sn.

Alteration

Workings/exploration Surface

Age

Deposit model Epithermal veins associated with alaskite dike/plug
Deposit model number

Production No Site status Inactive

Production notes

Reserves

Additional comments

References McGimsey and others, 1988; Miller and others, 1996.

Primary reference Miller and others, 1996.

Reporter(s) M.L. Miller

Reporter affiliation USGS

Last report date 5/26/94
Site: Moore Creek
District: McGrath
Site type: Mine
ARDF no.: ID009
MRDS no.: A015081; D002702
Quad-250 ID: C3
Quad-63360: 62.60000
Latitude: 157.15000
Longitude: AK
State
Location: USGS MF-363, Loc. 37: Mine is adjacent to landing strip marked on Iditarod C-3 topographic map.
Commodities, main: Au
Commodities, other: Ag, Cr, Hg, W
Ore minerals: Gold; Cinnabar; Chromite; Cassiterite
Gangue minerals: Concentrates contain, zircon, scheelite, and pyrite.
Geologic description: Gold is in base of gravel and in cracks in upper 1.5 ft. of bedrock. Stream overburden is 12-18 ft. thick gravel. Bench overburden is 5-7 ft. thick; 3-5 ft. gravel, 2 ft. muck.
Alteration
Workings/exploration: Surface: drilling, dredging
Age: Tertiary/Quaternary
Deposit model: Placer: stream, bench
Deposit model number: 39a
Production: Yes: small
Site status: Inactive
Production notes: Total production is estimated at 54,000 oz. Au and 12,500 oz. Ag. Mertie reports fineness of 767 parts Au and 225 parts Ag (1936, p. 224).
Reserves
Additional comments
References: Mertie, 1936, p. 223-224; Cobb, 1972, loc. 37; Cobb, 1976, p. 42, 43; Bundtzen, Laird, and Lockwood, 1988
Primary reference: Bundtzen, Laird, and Lockwood, 1988
Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
Site Julian Creek
District Aniak
Site type Mine
ARDF no. ID010 MRDS no. A015080
Quad-250 ID Quad-63360 A-3
State AK
Location USGS MF-363, Loc. 36: Deposit 1 mile NW of George River
Commodities, main Au
Commodities, other Hg; Monazite
Ore minerals Gold; Cinnabar; Monazite
Gangue minerals
Geologic description Placer gold is in creek gravel. It was probably derived from granite porphyry at head of creek. Concentrates contain gold, cinnabar, and monazite (Cady and others, 1955; Miller and others, 1995)
Alteration
Workings/exploration Surface: hydraulic
Age Tertiary/Quaternary
Deposit model Placer:stream
Deposit model number 39a
Production Yes: small
Production notes Production estimated at 23,400 oz. Au (Bundtzen and others, 1985)
Site status Inactive
Reserves
Additional comments Stream gradient about 100 ft. per mile.
Primary reference Bundtzen and others, 1985
Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Decourcy Mt. Mine

District: Iditarod

Site type: Mine

ARDF no.: ID011
MRDS no.: A015044

Quad-250: ID
Latitude: 62.06278
Longitude: 158.46333

Quad-63360: A-5

State: AK

Location: USGS MF-363, Loc. 1. 2 miles south of Decourcy Mtn. mine marked on Iditarod (A-5); Accurate within 1/4 mile.

Commodities, main: Hg

Commodities, other: Sb

Ore minerals: Cinnabar; Stibnite

Gangue minerals: Silica-carbonate; clay minerals

Geologic description: Cinnabar and minor stibnite in a gangue of silica, carbonate, and clay minerals. Ore minerals occur in small irregular lenses, veins, and stockworks localized in breccia, along contacts between igneous and sedimentary rocks, and along bedding surfaces. The ore bodies are in or near hydrothermally altered diabase sills. Ore bodies pinch and swell from a few inches to over a foot, and were formed by both open space filling and replacement.

Alteration: Igneous and sedimentary rocks are extensively altered to silica-carbonate rock.

Workings/exploration: Surface and underground: About 1,375 ft. of adits and minor drifts, crosscuts, and stopes; surface pits and trenches.

Age: Tertiary?

Deposit model: Epithermal vein,
Deposit model number: 27

Production: Yes: small
Site status: Inactive

Production notes: Discovered in 1910-11; staked in 1919; operated intermittently 1920-50. Produced an estimated 1500 flasks of Hg

Reserves: Inferred reserves of several thousand flasks.

Additional comments:

References: Cady and others, 1955, p. 111-113; Sainsbury and MacKevett, 1965; Cobb, 1972, loc. 1; Cobb, 1976, p. 10-12; Miller and others, 1996.

Primary reference: Sainsbury and MacKevett, 1965

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 5/25/94
Site Slate Creek

District Iditarod

Site type Mine

ARDF no. ID013
MRDS no. A015079

Quad-250 ID
Latitude 62.42639

Quad-63360 B4
Longitude 157.89860

State AK

Location USGS MF-363, Loc. 34, 35.; Mouth is 4 miles east of Flat. Head is about 6 miles SE of Flat.; Accurate within 1/4 mile.

Commodities, main Au

Commodities, other

Gangue minerals

Geologic description Gold occurs mainly in the lower 7 ft. of gravel, with very little or none on bedrock. Overburden is 13-30 ft. thick; as much as 10 ft. gravel and 20 ft. muck; Placer concentrate samples yielded 8.51 oz./ton Au, 2.61 oz./ton Ag, .28% Hg, and .03% WO3 (Maloney, 1962, p. 17)

Alteration

Workings/exploration Surface

Age Tertiary/Quaternary

Deposit model Placer:stream

Deposit model number 39a

Production Yes: small

Site status Inactive

Production notes Mined intermittently 1915-51; minimum production of 3,483 oz. Au (Miller and others, 1995).

Reserves

Additional comments Stream gradient 50-200 ft. per mile.

References Mertie, 1936, p. 222-23; Maloney, 1962; Cobb, 1972, loc. 34 & 35; Cobb, 1976, p. 49; Miller and others, 1996.

Primary reference Mertie, 1936

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94
Site: Granite Creek
District: Iditarod
Site type: Mine

ARDF no.: ID014  MRDS no.: A015077
Quad-250 ID
Quad-63360 B4  Latitude 62.46389
State: AK  Longitude 157.89860

Location: USGS MF-363, Loc. 33. 1.5 miles NE of discovery.; 4 miles east of Flat; Accurate within 1/4 mile.

Commodities, main: Au
Commodities, other: Cr
Ore minerals: Gold
Gangue minerals: Chromite

Geologic description: Gravel is 8-12 ft. thick; upper 2 ft. of bedrock also mined for sufficient pay. Chromite reported in concentrates (Cobb, 1973).

Alteration

Workings/exploration: Surface: pits
Age: Tertiary/Quaternary

Deposit model: Placer: stream, bench
Deposit model number: 39a

Production: Yes: small
Site status: Inactive


Reserves

Additional comments: Stream gradient, 150-200 ft. per mile. Fineness 853 parts Au, 134 parts Ag (Mertie, 1936 p. 221); actively mined 1985-1994


Primary reference: Mertie, 1936

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
Site Malamute Pup (Gulch)
District Iditarod
Site type Mine
ARDF no. ID016       MRDS no. A015076; D002700
Quad-250 ID
Quad-63360 B4
State AK
Location USGS MF-363, Loc. 32. 1 mile NE of discovery, 1/2 mile west of Granite Creek.; 3.5 miles east of Flat; Accurate within 1/4 mile.

Commodities, main Au; Ag
Commodities, other Hg; W
Ore minerals Gold; Cinnabar
Gangue minerals Scheelite; chromite; realgar; cassiterite

Geologic description Gold is mainly near or on bedrock. Overburden is 35 ft. thick. Maloney (1962) reported that concentrates contained up to .34 oz./ton Au, .84 oz./ton Ag and small to trace amounts of scheelite, ferberite, chromite, realgar, cinnabar, and cassiterite.

Alteration

Workings/exploration Surface: Hg: 1.76%, Sb: .05%, WO3: 1.8%

Age Tertiary/Quaternary
Deposit model Placer: stream
Deposit model number 39a
Production Yes: small
Site status Inactive
Production notes Produced 1,907 oz. Au and 241 oz. Ag between 1922 & 1952 (Miller and others, 1995)
Reserves
Additional comments

References Mertie, 1936, p. 220-21; Maloney, 1962, p. 17; Cobb, 1972, loc. 32; Cobb, 1976, p. 38; Bundtzen and others, 1992.

Primary reference Bundtzen and others, 1992

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94
Site Malamute Pup-lode
District Iditarod
Site type Prospect

ARDF no. ID017 MRDS no. A015053
Quad-250 ID Latitude 62.45917
Quad-63360 B4 Longitude 157.91083
State AK

Location USGS MF-363, Loc. 10.

Commodities, main Au; Hg
Commodities, other

Ore minerals Gold; Cinnabar; Arsenopyrite
Gangue minerals Quartz; calcite

Geologic description Gold, arsenopyrite, and cinnabar are in quartz and calcite veins that cut monzonite and altered volcanic rocks.

Alteration

Workings/exploration Surface and underground: 70 ft. long adit; workings are caved in.

Age

Deposit model Lode: polymetallic veins.
Deposit model number 22c

Production Yes, ? Site status Inactive
Production notes Development reported for years 1929-34, but production, if any, is unknown.

Reserves

Additional comments

References Mertie, 1936, p. 242-243; Maloney, 1962, p. 5; Cobb, 1972, loc. 10; Bundtzen and others, 1992

Primary reference Bundtzen and others, 1992

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94
MRDS no. A015054
Latitude 62.44667
Longitude 157.92500

Site Golden Horn
District Iditarod
Site type Mine

Commodities, main Au; Ag; Pb
Commodities, other Zn; Hg; Sb; W;
Ore minerals Gold; Stibnite; Cinnabar; Scheelite; Galena; Auriferous arsenopyrite
Gangue minerals Quartz

Geologic description Lode consists of irregularly distributed gold-scheelite-stibnite-galena-quartz veins at or near monzonite contact with sandstone and shale in vicinity of fault zone. Main lode reported to be 2-2.5 ft. wide. Ore is intergrown quartz and stibnite which carries gold.

Alteration

Workings/exploration Surface and underground workings: By 1938 underground workings totaled 1,808 ft. and consisted of 303 ft. in two shafts, 1,025 ft. of drifts, and 480 ft. of crosscuts; all are now inaccessible. Beginning in 1977 the property was drilled and trenched. In the latter part of the 1980's it was stripped as an open cut; Misco-Walsh Mining Company mined the residual placers and also continued exploration in 1994.

Age

Deposit model Polymetallic veins
Deposit model number 22c

Production Yes: small
Reserves Inferred reserves of 148,000 tons at 0.29 oz/ton of Au and 0.64 oz/ton of Ag. Larger area of lower grade ore discussed in Bundtzen and others (1992) p. 28-29.

Additional comments Misco-Walsh Mining continued in 1994 to resolve metallurgical problems associated with the complex refractory ores.

References Mertie, 1936, p. 242; Maloney, 1962, p. 4, 12, 17-18; Cobb, 1972, loc. 11; Cobb, 1976, p. 27, 28; Bundtzen and others, 1992; Swainbank and others, 1994, p. 12, 33.

Primary reference Bundtzen and others, 1992

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.; Keith, W.J.
Reporter affiliation USGS
Last report date 6/19/96
Site Glen Gulch
District Iditarod
Site type Prospect
ARDF no. ID020 MRDS no. A015055, A015050??
Quad-250 ID Latitude 62.44667
Quad-63360 B4 Longitude 157.93139
State AK
Location USGS-MF-363, Loc. 11: Deposit 4.5 miles N of Chicken Mtn.
Commodities, main Au, Ag
Commodities, other Ore minerals Stibnite, Gold
Gangue minerals Quartz
Geologic description Quartz vein uncovered during placer mining is 2-12 in. thick. Vein fills a fissure in monzonite and contains granular aggregates of stibnite. Bundtzen and others (1992) reported values up to 0.251 oz/ton Au; 29.73 oz/ton Ag, and 36.7% Sb.
Alteration
Workings/exploration Surface
Age Deposit model Epithermal vein: disseminated stibnite
Deposit model number 22c
Production No Site status Inactive
Production notes
Reserves
Additional comments Sometimes difficult to separate Glen Gulch from Golden Horn in old reports.
Primary reference Bundtzen and others, 1992
Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Prince Creek
District: Iditarod
Site type: Mine

ARDF no.: ID023
Quad-250 ID: 
Quad-63360 ID: 
MRDS no.: A015071
State: AK
Latitude: 62.36666
Longitude: 157.93330
Location: USGS MF-363, Loc. 28, 29; 1-4 Miles SE of Chicken Mtn.; Accurate within 2,000 ft.; Location represents entire 3 mile length of Prince Creek.

Commodities, main: Au
Commodities, other: Hg
Ore minerals: Gold; Cinnabar
Gangue minerals: Stibnite; scheelite; cassiterite

Geologic description: Placer deposit consists of both bench & modern stream gravels. Monzonite pluton at head of Prince Creek constitutes a residual placer containing gold. Placer ground buried by 22-30 ft. of overburden. Concentrates from bench deposits contain cinnabar and stibnite; those from modern stream gravels contain scheelite and cassiterite.

Alteration

Workings/exploration: Surface: Active sluicing in 1994 by Prince Creek Mining.

Age: Tertiary/Quaternary

Deposit model: Placer: residual bench & stream
Deposit model number: 39a

Production: Yes: small
Production notes: Production 1919-86 estimated at 33,150 oz.

Site status: Active

Reserves

Additional comments: Stream gradient 150-300 ft. per mile.

References: Mertie, 1936, p. 216; Maloney, 1962, p. 8, 18, 22; Cobb, 1972, loc. 28, 29; Cobb, 1976, p. 48; Bundtzen and others, 1992; Swainbank and others, 1994, p. 12, 33; Miller and others, 1996.

Primary reference: Bundtzen and others, 1992

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
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<th><strong>Site</strong></th>
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<td><strong>District</strong></td>
<td>Iditarod</td>
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<td><strong>Site type</strong></td>
<td>Mine</td>
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<td><strong>ARDF no.</strong></td>
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<td><strong>MRDS no.</strong></td>
<td>A015073; D002701; A010752;</td>
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<tr>
<td><strong>Quad-250</strong></td>
<td>ID</td>
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<tr>
<td><strong>Quad-63360</strong></td>
<td>B4</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>AK</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>USGS MF-363, Loc. 31. Flat east to Slate Creek.; Discovery claim 3 miles east of Flat.; Accurate.</td>
</tr>
<tr>
<td><strong>Commodities, main</strong></td>
<td>Au; Ag</td>
</tr>
<tr>
<td><strong>Commodities, other</strong></td>
<td>Hg; Sb; Cr; W; Sn; Pb</td>
</tr>
<tr>
<td><strong>Ore minerals</strong></td>
<td>Gold; Cinnabar; Stibnite; Chromite; Scheelite; Cassiterite; Galena</td>
</tr>
<tr>
<td><strong>Gangue minerals</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Geologic description</strong></td>
<td>Gold is deposited in both terrace and modern stream channels from Granite Creek about 5 miles to Flat. Most coarse gold is deposited on and in cracks in monzonite bedrock near discovery. Gold lowers in grade progressively downstream. Overburden is 10-18 ft. thick; 2-6 ft. of gravel overlain by 4-12 ft. of frozen muck. Top 2-6 ft of bedrock was taken up to recover gold in crevices.</td>
</tr>
<tr>
<td><strong>Alteration</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Workings/exploration</strong></td>
<td>Surface: dredging</td>
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<td><strong>Age</strong></td>
<td>Tertiary/Quaternary</td>
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<td><strong>Deposit model</strong></td>
<td>Placer: stream, bench</td>
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<td>39a</td>
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<tr>
<td><strong>Production</strong></td>
<td>Yes: small</td>
</tr>
<tr>
<td><strong>Site status</strong></td>
<td>Active</td>
</tr>
<tr>
<td><strong>Reserves</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Additional comments</strong></td>
<td>Stream gradient under 100 ft. per mile. Glen Gulch placers included with Otter Creek.</td>
</tr>
<tr>
<td><strong>References</strong></td>
<td>Mertie, 1936, p. 216-220; Maloney, 1962; Cobb, 1972, loc. 31; Cobb, 1976, p. 45-47; Bundtzen and others, 1992.</td>
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<tr>
<td><strong>Primary reference</strong></td>
<td>Bundtzen and others, 1992</td>
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<tr>
<td><strong>Reporter(s)</strong></td>
<td>Powers, M.T.; Huber, D.F.; Miller, M.L.</td>
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<tr>
<td><strong>Reporter affiliation</strong></td>
<td>USGS</td>
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<td><strong>Last report date</strong></td>
<td>5/25/94</td>
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</table>
Site     Black Creek
District  Iditarod
Site type Mine
ARDF no.  ID027
MRDS no.  A015075; D002699; A015074
Quad-250 ID
Quad-63360 B4
Latitude  62.44500
Longitude 157.93610
State    AK
Location USGS MF-363, Loc. 31.; 3 miles ESE of Flat; Accurate within 1/4 mile.

Commodities, main Au
Commodities, other Hg; Sn; W; Pt
Ore minerals Gold; Cinnabar
Gangue minerals

Geologic description Gold and cinnabar found in discontinuous stream placers. Overburden is 12-16 ft. thick. Joesting (1942) reported rare cassiterite in the concentrates. Bundtzen and others (1992) found platinum anomalies, although not in economic concentrations.

Alteration

Workings/exploration Surface and underground: trench, dredge, short adit
Age Tertiary/Quaternary
Deposit model placer: stream
Deposit model number 39a
Production Yes: small
Site status Inactive
Production notes Mined 1910-16, 1940, & 1975-81; dredge operated in 1916. Total production >25,000 oz Au.

Reserves

Additional comments Stream gradient about 100 ft. per mile.

References Maddren, 1915, p. 286; Joesting, 1942, p. 35; Cobb, 1972, loc. 31; Cobb, 1976, p. 5, 6; Bundtzen and others, 1992; Miller and others, 1996.

Primary reference Bundtzen and others, 1992

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Minnie Gulch
District: Iditarod
Site type: Occurrence
ARDF no.: ID028
MRDS no.: A015051; A015052; D002698
Quad-250: ID
Quad-63360: B4
State: AK
Location: See USBM Report INV 5991, Fig 3.; 2 miles ESE of Flat.; Accurate within 1,500 ft.; Locality shown in Maloney (1962) is approximately 1/2 mi. west of the site described by Bundtzen and others (1992) as Minnie Gulch.

Commodities, main: Au; Hg
Commodities, other:
Ore minerals: Gold; Cinnabar
Gangue minerals:

Geologic description: Thin quartz stringers less than 2 inches wide contain small pockets of visible cinnabar and gold.; monzonite bedrock deeply weathered. Maximum .24 oz./ton Au and .24% Hg.

Alteration:

Workings/exploration: Surface: trench

Age:
Deposit model: Epithermal vein
Deposit model number: 22c?

Production: No
Site status: Inactive

Production notes:

Reserves:

Additional comments:


Primary reference: Maloney, 1962

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation: USGS

Last report date: 5/24/94
Site: Chicken Mountain
District: Iditarod
Site type: Prospect

ARDF no.: ID032
MRDS no.: A015047
Quad-250: ID
Quad-63360: B4
State: AK
Latitude: 62.38444
Longitude: 157.97722

Location: Chicken Mtn., 4 miles N of Bonanza Creek

Commodities, main: Au; Sb; Hg
Commodities, other:
Ore minerals: Gold; Stibnite; Cinnabar
Gangue minerals: Quartz

Geologic description: Enechelon quartz veins in monzonite contain stibnite, cinnabar, and gold. Drilling shows chalcopyrite-molybdenite mineralization at depth.

Alteration:

Workings/exploration: Surface sampling and drilling

Age:
Deposit model: Epithermal vein
Deposit model number: 22c?

Production: No
Site status: Active

Production notes: Extensive trenching and drilling in late 1980's.

Reserves:

Additional comments: Sampling by USBM (Maloney, 1962) of 'upper Chicken Creek' is approximately same area as this prospect.

References: Bundtzen and others, 1992
Primary reference: Bundtzen and others, 1992

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
Site: Chicken Creek
District: Iditarod
Site type: Mine
ARDF no.: ID033
MRDS no.: A015069; A015070; D002696
Quad-250: ID
Quad-63360: B4
State: AK
Location: Two miles S of Chicken Mtn

Commodities, main: Au; Ag
Commodities, other: Sb; Cr; Hg; W
Ore minerals: Gold; Stibnite; Cinnabar; Scheelite
Gangue minerals: Weathered monzonite forms a residual placer that grades downstream into eluvial then bench and stream placers. Mertie (1936) reported fineness at 862 parts Au and 128 parts Ag. Concentrates contain scheelite and cinnabar.

Geologic description: Weathered monzonite forms a residual placer that grades downstream into eluvial then bench and stream placers. Mertie (1936) reported fineness at 862 parts Au and 128 parts Ag. Concentrates contain scheelite and cinnabar.

Alteration: 
Workings/exploration: Surface and underground
Age: Tertiary/Quaternary
Deposit model: Placer: bench, stream, residual, alluvial
Deposit model number: 39a
Production: Yes: small
Production notes: Production 1911-40 totaled about 12,755 oz. Au and 2,024 oz. Ag
Site status: Inactive

Reserves:

Additional comments: Stream gradient 10-15%.

References: Mertie, 1936, p. 213-15; Cobb, 1976, p. 8, 9; Bundtzen and others, 1992; Miller and others, 1996.

Primary reference: Bundtzen and others, 1992

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation: USGS
Last report date: 5/25/94
Site Flat Creek and Marietta Basin
District Iditarod
Site type Mine
ARDF no. ID035
Quad-250 ID
Quad-63360 B4, Latitude 62.40278
State AK
MRDS no. A015072; A015049
Longitude 158.00560
Location USGS MF-363 loc. 30. (B-4,5 topographic map). Tailings marked on Iditarod (B-4,5) topographic maps. Coordinates given here are for mine at head of Flat Creek; 0-5 Miles south of Flat; Accurate within 1/4 mile.

Commodities, main
Au

Commodities, other
Hg; Sb; W

Ore minerals
Gold; Cinnabar; Stibnite; Scheelite

Gangue minerals
Concentrates contain arsenopyrite.

Geologic description
Deeply weathered monzonite stock at head of Flat Creek constitutes a residual placer, which grades downstream into alluvial placers and then into bench and stream placers. Best pay is 3-4 mi. above mouth. Gold from benches is coarser and higher grade than gold from creek gravel. Mertie (1936) reported average fineness of 878 parts Au and 114 parts Ag.

Alteration

Workings/exploration
Surface; extensive dredging; actively mined during 1994.

Age
Tertiary/Quaternary

Deposit model
placer: residual, eluvial, stream, bench

Deposit model number 39a

Production
Yes: small

Site status Inactive

Production notes
Mined by dredge 1915-56; further mining 1970-86. Recorded production is 477,039 oz. Au; considered minimum estimate.

Reserves

Additional comments
Lower 4 mi. of valley has gradient of about 100 ft./mile; Uppermost mile of valley drops approximately 1000 ft.

References

Primary reference
Bundtzen and others, 1992

Reporters
Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94
Site Happy Creek
District Iditarod
Site type Mine
ARDF no. ID036
MRDS no. A015058; A015048; D002697
Quad-250 ID
Quad-63360 B5
State AK
Location USGS MF-363, Loc. 25. Tailings marked on Iditarod (B-4,5) topographic map.
Commodities, main Au
Commodities, other Ag; Sb; Hg; W
Ore minerals Gold; Stibnite; Cinnabar; Scheelite
Gangue minerals Zircon, Monazite
Geologic description Weathered monzonite constitutes a residual placer which grades into an alluvial placer and then into stream and bench placers. Concentrates contain zircon, chromite, ferberite, amalgam, monazite, & trace cassiterite in addition to ore minerals mentioned above (White & Killeen, 1953).
Alteration

Workings/exploration Surface and underground (drifting was attempted in the early years, but failed due to thawed ground).
Age Tertiary/Quaternary
Deposit model Placer: residual, eluvial, stream, bench
Deposit model number 39a
Production Yes: small
Site status Inactive
Production notes Mined intermittently 1910-84; produced >75,000 oz. Au
Reserves
Additional comments Stream gradient 3% at mouth, 7% at head.
References Mertie, 1936, p. 211-13; White and Killeen, 1953; Maloney, 1962; Cobb, 1972; loc. 25; Cobb, 1976, p. 30, 31; Bundtzen and others, 1992; Miller and others, 1996.
Primary reference Bundtzen and others, 1992
Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Willow Creek
District: Iditarod
Site type: Mine

ARDF no.: ID042
MRDS no.: A015067
Quad-250: ID
Quad-63360: B5
State: AK

Location: USGS MF-363, Loc. 23, 24. Mine and tailings marked on Iditarod (B-5); 6 Miles SSW of Flat; Accurate within 1/4 mile

Commodities, main: Au
Commodities, other:
Ore minerals: Gold
Gangue minerals:

Geologic description: Fine-grained gold is in creek and bench placers. It is mainly on bedrock surface in crevices in the upper part of decomposed bedrock and in the lower 1-2 feet of gravel. Overburden 12-24 ft. thick.

Alteration:

Workings/exploration: Surface workings: Shortage of water necessitated ditch 11 miles long; It was built in 1925 from Bonanza Creek.

Age: Tertiary/Quaternary

Deposit model: Placer: stream, bench
Deposit model number: 39a

Production: Yes: small
Production notes: Mined intermittently 1910 to present; production considerable, but no data

Site status: Active
Reserves:

Additional comments: Stream gradient under 100 ft. per mile.

References: Mertie, 1936, p. 208-211; Cobb, 1972, loc. 23, 24; Cobb, 1976, p. 53, 54; Bundtzen and others, 1992; Miller and others, 1996

Primary reference: Bundtzen and others, 1992

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation: USGS
Last report date: 5/25/94
Site Donlin Creek
District Aniak
Site type Mine
ARDF no. ID044
MRDS no. A015066; A010724; D002695
Quad-250 ID
Quad-63360 A-5
State AK
Location USGS MF-363, Loc. 22. Placer 1/2 to 1 mile SE and parallel to Donlin Creek, from Dome Creek to Longitude 158° W.; Accurate within 2.000 ft.

Commodities, main Au
Commodities, other Ag; Sb; Hg; Sn; W;
Ore minerals Gold
Gangue minerals

Geologic description Gold is in bench gravels SE of Donlin Creek that have been entrenched 15-30 ft. by tributary gulches, causing reconcentration from bench gravels.

Alteration
Workings/exploration Surface: hydraulic
Age Tertiary/Quaternary
Deposit model Placer: bench
Deposit model number 39a
Production Yes: small
Site status Inactive
Production notes Much of recorded production is actually for side gulches along which bench gold was reconcentrated. Prod. up to 1955 > $125,000.

Reserves
Additional comments Stream gradient about 100 feet per mile.
Primary reference Cady and others, 1955
Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Donlin Creek Property, Dome area

District: Aniak

Site type: Occurrence

ARDF no.: ID045

MRDS no.: A015046

Quad-250: ID

Latitude: 62.07194

Longitude: 158.15000

State: AK

Location: Hill top between Quartz Gulch and Dome Creek; Accurate within 2,000 ft. This occurrence forms the northern limit of the Donlin Creek Property.

Commodities, main: Ag; Hg; Sn

Commodities, other: Au

Ore minerals: Gold; Silver

Gangue minerals:

Geologic description: Alaskite (felsic) dikes cut Cretaceous Kuskokwim Group sedimentary rock; biotite hornfels developed locally. Quartz veins locally cut the dikes. Dike samples yield anomalous values of Ag, Hg, As, Sn, Bi, and trace Au.

Alteration: Local silicification

Workings/exploration: Surface sampling and possible trenching in 1989; Placer Dome and Calista corporations announced at the March, 1996 Alaska Miner's Convention that extensive drilling indicates the presence of 44.8 million tons of ore yielding 3.6 million ounces of gold at the Donlin Creek Property.

Age:

Deposit model: Epithermal vein associated with alaskite dikes

Deposit model number: ?

Production: No

Site status: Active

Production notes:

Reserves: Refer to reserve comments for Donlin Creek Property, Snow area. Seven deposits along Donlin Creek including the Dome and Snow areas contain combined inferred reserves of 3.871 million tonnes at 3.15 g/tonne Au.

Additional comments: Occurrence forms northern limit of the Donlin Creek Property of the Calista Corporation.


Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L.; Keith, W.J.

Reporter affiliation: USGS

Last report date: 6/19/96
Site  Quartz Gulch
District  Aniak
Site type  Mine
ARDF no.  ID046  MRDS no.  A015065
Quad-250  ID  Latitude  62.07917
Quad-63360  A-5  Longitude  158.17500
State  AK
Location  USGS MF-363, Loc. 21. Near mouth of Quartz Gulch.; Accurate within 2,000 ft.

Commodities, main  Au
Commodities, other
Ore minerals  Gold
Gangue minerals  Concentrates include magnetite, garnet, scheelite, cassiterite, pyrite, cinnabar, and stibnite.

Geologic description  Gold is probably reconverted from Donlin Creek bench. Overburden is 6-25 ft. thick. Productive area is confined to area near mouth of creek.

Alteration
Workings/exploration  Surface
Age  Tertiary/Quaternary
Deposit model  Placer
Deposit model number  39a

Production  Yes: small  Site status  Inactive
Production notes  Production 1910-15 was about 1,760 oz. Au

Reserves
Additional comments  Stream gradient about 200 feet per mile.
Primary reference  Maddren, 1915
Reporter(s)  Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation  USGS
Last report date  5/25/94
Site Donlin Creek Property, Snow area
District Aniak
Site type Prospect
ARDF no. ID047
MRDS no. A015045
Quad-250 ID
Quad-63360 A-5
Latitude 62.06056
Longitude 158.18667
State AK
Location Snow Gulch area

Commodities, main Au; Ag; Sb
Commodities, other Hg
Ore minerals Gold; Stibnite; Cinnabar
Gangue minerals Quartz

Geologic description Stibnite, arsenopyrite, complex arsenic sulfosalts, and minor cinnabar and free gold occur in quartz veins and shear zones associated with alaskite dikes that cut Cretaceous Kuskokwim Group sedimentary rocks.

Alteration Alteration is restricted to intrusive rocks. Argillic and phyllic alteration; silification; carbonate, and dickite alteration found locally.

Workings/exploration Surface and underground: Trenching and drilling in 1989.

Age
Deposit model Epithermal veins associated with alaskite dikes
Deposit model number ?
Production No Site status Active
Production notes
Reserves Seven deposits along Donlin Creek including the Dome and Snow areas contain combined inferred reserves of 3.871 million tonnes at 3.15 g/tonne Au

Additional comments Property extends to northeast and southwest of the Snow area.

References Cobb, 1976, p. 13-14; Retherford and McAtee, 1994; Miller and others, 1996.

Primary reference Retherford and McAtee, 1994
Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
Site: Snow Gulch
District: Aniak
Site type: Mine
ARDF no.: ID048
MRDS no.: A015064
Quad-250: ID
Quad-63360: A-5
State: AK
Latitude: 62.07695
Longitude: 158.19580

Location: USGS MF-363, Loc. 20. Mine and tailings marked on Iditarod (A-5); Accurate within 1/4 mile.

Commodities, main: Au
Commodities, other: Ag, Sb, Hg, Sn, W

Ore minerals: Gold
Gangue minerals: Cinnabar, scheelite, stibnite, cassiterite, pyrite

Geologic description: Gold is in stream gravel and also in bench gravels SE of Donlin Creek that have been entrenched 15-30 ft. by Snow Gulch, causing reconcentration from older bench placers. Concentrates contain cinnabar, scheelite, stibnite, cassiterite, and pyrite. Snow Gulch is the only tributary to Donlin or Crooked Creeks on which placer gold is deposited along the stream cut.

Alteration

Workings/exploration: Surface
Age: Tertiary/Quaternary
Deposit model: Placer: bench, stream
Deposit model number: 39a

Production: Yes; small
Site status: Active
Production notes: Discovered in 1909; production between 1910-12 amounted to 235 oz. Au. Property worked intermittently to present.

Reserves

Additional comments: Stream gradient about 100 feet per mile.

References: Maddren, 1915; p. 351-353; Cady and others, 1955, p. 118; Cobb, 1972, loc. 20.

Primary reference: Cady and others, 1955

Reporter(s): Powers, M.T.; Huber, D.F.; Miller, M.L
Reporter affiliation: USGS
Last report date: 5/25/94
Site Ruby Gulch
District Aniak
Site type Mine

ARDF no. ID049  MRDS no. A015063
Quad-250 ID
Quad-63360 A-5  Latitude 62.06583
State AK  Longitude 158.20420

Location USGS MF-363, Loc. 19. About 1,000 feet upstream from the mouth of Ruby Gulch. Accurate within 1,000 feet

Commodities, main Au
Commodities, other
Ore minerals Gold
Gangue minerals

Geologic description Gold is deposited on benches SE of Crooked Creek. Benches are entrenched to depths of 15-30 ft. by Ruby Gulch. Secondary gold concentration on benches is from reworked older bench placers.

Alteration
Workings/exploration Surface
Age Tertiary/Quaternary

Deposit model Placer: reconcentrated bench
Deposit model number 39a

Production Yes: small  Site status Inactive
Production notes Mined in 1911 producing about 145 oz.

Reserves

Additional comments Stream gradient about 200 ft. per mile.
References Maddren, 1915, p. 352-53; Cady and others, 1955; Cobb, 1972, loc. 19
Primary reference Maddren, 1915

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation USGS
Last report date 5/25/94
<table>
<thead>
<tr>
<th><strong>Site</strong></th>
<th>Queen Gulch</th>
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</thead>
<tbody>
<tr>
<td><strong>District</strong></td>
<td>Aniak</td>
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<tr>
<td><strong>Site type</strong></td>
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<tr>
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<tr>
<td><strong>State</strong></td>
<td>AK</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>USGS MF-363, Loc. 18. About 1/4 mile upstream from the mouth of Queen Gulch.; Accurate within 1,500ft.</td>
</tr>
</tbody>
</table>

**Commodities, main**
- Au

**Commodities, other**
- Gold

**Ore minerals**
- Gold

**Gangue minerals**

**Geologic description**
- Gold is in bench gravels SE of Crooked Creek. Benches are entrenched 15-30 ft. by Queen Gulch, causing reconcentration from bench gravels.

**Alteration**

**Workings/exploration**
- Surface; Lyman Resources of Alaska ran an auger-drill program on Queen Gulch in 1994. They also mined 7,000 cubic yards of pay

**Age**
- Tertiary/Quaternary

**Deposit model**
- Placer: reconcentrated bench

**Deposit model number**
- 39a

**Production**
- Yes: small

**Production notes**
- Mined about 1915; production lumped with that for Donlin Creek: see Donlin Creek, ID044.

**Site status**
- Inactive

**Reserves**

**Additional comments**
- Stream gradient about 200 feet per mile. Lyman Resources leased the Queen Gulch ground from Calista in 1994

**References**
- Cady and others, 1955, p. 118; Cobb, 1972, loc. 18; Swainbank and others, 1994, p. 12, 33.

**Primary reference**
- Cady and others, 1955

**Reporter(s)**
- Powers, M.T.; Huber, D.F.; Miller, M.L.; Keith, W.J.

**Reporter affiliation**
- USGS

**Last report date**
- 6/19/96
Site  Lewis Gulch
District   Aniak
Site type  Mine
ARDF no.   ID051     MRDS no.  A015061
Quad-250  ID
Quad-63360 A-5
State     AK
Location  USGS MF-363, Loc. 17. About 1/2 mile upstream from mouth of Lewis Gulch.; Accurate within 2,000 ft.

Commodities, main  Au
Commodities, other
Ore minerals  Gold
Gangue minerals

Geologic description  Gold is in bench gravels east of Crooked Creek. Benches are entrenched 15-30 ft. by tributary gulches, causing reconcentration from bench gravels.

Alteration
Workings/exploration  Surface
Age  Tertiary/Quaternary
Deposit model  Placer: reconcentrated bench
Deposit model number  39a
Production  Yes: small
Site status  Inactive

Production notes  Mined about 1910; production is lumped with that for Donlin Creek (see Donlin Creek, #ID044)

Reserves
Additional comments  Stream gradient about 200 feet per mile.
References  Cady and others, 1955, p. 118; Cobb, 1972, loc. 17.
Primary reference  Cady and others, 1955
Reporter(s)  Powers, M.T.; Huber, D.F.; Miller, M.L.
Reporter affiliation  USGS
Last report date  5/25/94
Site Crooked Creek
District Aniak
Site type Prospect
ARDF no. ID052 MRDS no. A015060
Quad-250 ID
Quad-63360 Latitude 62.01667
State AK Longitude 158.25000
Location USGS MF-363, Loc. 16: 5 miles E of Anaconda Mtn.

Commodities, main
Au

Commodities, other

Ore minerals
Gold

Gangue minerals

Geologic description Placer deposits are on benches east and southeast of Crooked Creek. Richest placers are where tributary gulches have cut into benches and concentrated gold. Claims were staked in 1910.

Alteration

Workings/exploration Surface

Age Tertiary/Quaternary

Deposit model placer
Deposit model number 39a

Production No Site status Inactive

Production notes Placer gold from Crooked Creek was mined farther south, in the Sleetmute quad.

Reserves

Additional comments Stream gradient less than 50 feet per mile.

References Cady and others, 1955, p. 118; Miller and others, 1996.

Primary reference Miller and others, 1996

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94
Site Little Creek
District Iditarod
Site type Prospect
ARDF no. ID053   MRDS no. A015059
Quad-250 ID
Quad-63360 A-6   Latitude 62.02555
State AK
Longitude 158.69170
Location USGS MF-363, Loc. 15. 4.5 miles upstream from mouth of Littler Creek;
Accurate within 1/4 mile.

Commodities, main Au; Hg
Commodities, other
  Ore minerals Gold; Cinnabar
  Gangue minerals Quartz

Geologic description Placer gold and cinnabar is found in the middle course of the creek. Gold is
reported to be evenly distributed in a continuous pay streak. Pebbles of vein
quartz are abundant in gravel. Overburden is about 12 ft. thick. Area was
prospected intermittently from 1910 to 1981.

Alteration

Workings/exploration Surface

Age Tertiary/Quaternary

Deposit model Placer: stream
Deposit model number 39a

Production Undet.   Site status Inactive

Production notes

Reserves

Additional comments Stream gradient about 50 ft. per mile.

References Cady and others, 1955, p. 120; Cobb, 1972, loc. 15; Cobb, 1976, p. 36; Miller
and others, 1996.

Primary reference Cady and others, 1955

Reporter(s) Powers, M.T.; Huber, D.F.; Miller, M.L.

Reporter affiliation USGS

Last report date 5/25/94