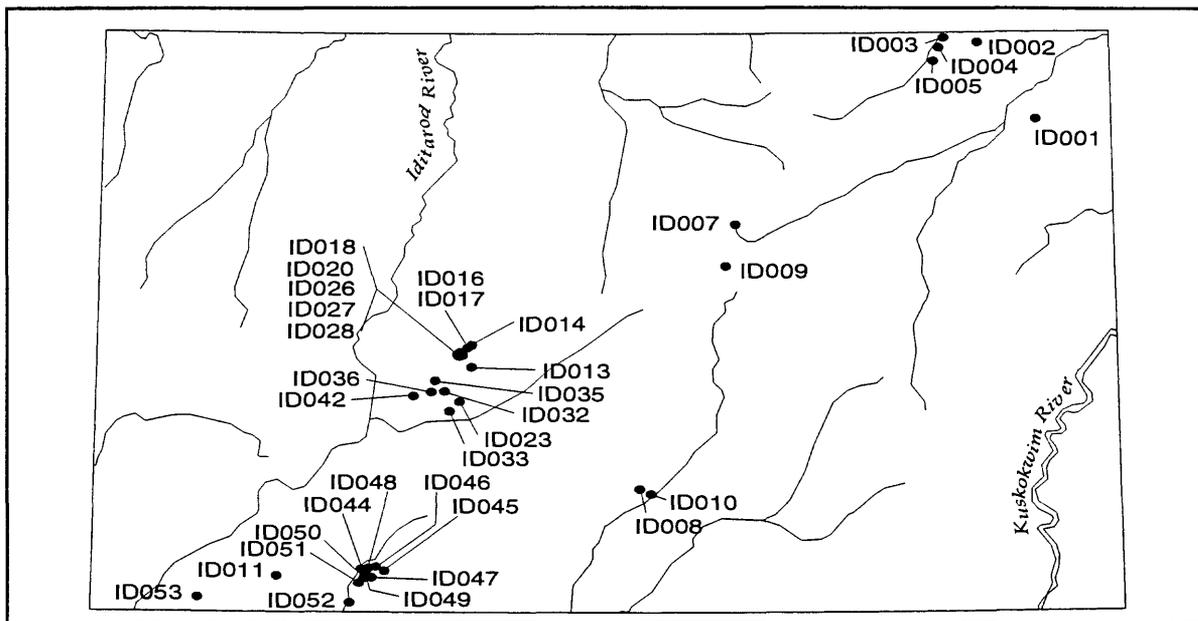


U.S. Department of the Interior -- U.S. Geological Survey

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.



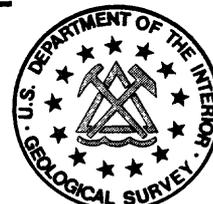
Distribution of mineral occurrences in the Iditarod 1:250,000 quadrangle, southwest Alaska

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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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
Location	USGS MF-363, Loc. 14. Approximately 4,000 ft. SE of Mt. Joaquin summit.; Accurate within 2,000 ft.		
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			
References	Malone, 1962, p. 46; Cobb, 1972, Loc. 14; Cobb, 1976, p. 44; Bundtzen and Laird, 1983.		
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		

Site	Yankee Creek		
District	Innoko		
Site type	Mine		
ARDF no.	ID002	MRDS no.	A015086
Quad-250	ID	Latitude	62.98333
Quad-63360	D1	Longitude	156.39440
State	AK		
Location	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.		
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
Production notes	Mined from 1909-68 and 1981-86. Produced 57,089 oz. Au and 6,361 oz. Ag through 1968.		
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
Quad-63360 D1 **Latitude** 62.99166
State AK **Longitude** 156.49500
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.		
References	Mertie, 1936, p. 174-75; Cobb, 1972, Loc. 39; Cobb, 1976, p. 19, 20; 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	Glacier Gulch		
District	Innoko		
Site type	Mine		
ARDF no.	ID005	MRDS no.	A015084
Quad-250	ID	Latitude	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	Latitude	62.67222
Quad-63360	C3	Longitude	157.12000
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

MRDS no.

Quad-250 ID

Quad-63360 A-3

Latitude 62.21444

Longitude 157.40361

State AK

Location S 1/2 NE 1/4 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	Latitude	62.60000
Quad-63360	C3	Longitude	157.15000
State	AK		
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	Latitude	62.20611
Quad-63360	A-3	Longitude	157.37080
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	Site status	Inactive
Production notes	Production estimated at 23,400 oz. Au (Bundtzen and others, 1985)		
Reserves			
Additional comments	Stream gradient about 100 ft. per mile.		
References	White and Killeen, 1953, p. 16, 18; Cady and others, 1955, p. 71, 116, 119; Cobb, 1976, p. 32, 33; Bundtzen and others, 1985; Miller and others, 1996.		
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
Quad-63360	A-5	Longitude	158.46333
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			
Ore minerals	Gold		
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% WO ₃ (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	Latitude	62.46389
Quad-63360	B4	Longitude	157.89860
State	AK		
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
Production notes	Produced 4,004 oz. Au 1910-56. Mined again in 1980's, post 1956 production estimated at >136 oz. Au		
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		
References	Mertie, 1936 p. 220-221; Cobb, 1972, loc. 33; Cobb, 1973; Cobb, 1976, p. 29; Swainbank and others, 1995, p. 33; 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 Malamute Pup (Gulch)
District Iditarod
Site type Mine
ARDF no. ID016 **MRDS no.** A015076; D002700
Quad-250 ID **Latitude** 62.45917
Quad-63360 B4 **Longitude** 157.91083
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		

Site	Golden Horn		
District	Iditarod		
Site type	Mine		
ARDF no.	ID018	MRDS no.	A015054
Quad-250	ID	Latitude	62.44667
Quad-63360	B4	Longitude	157.92500
State	AK		
Location	USGS MF-363, loc. 11		
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	Site status	Active
Production notes	From 1925-1937 produced 2,706 oz. Au, 2,620 oz. Ag, and 9,336 lb. Pb.		
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.		
References	Brooks, 1916; p. 48-49; Maloney, 1962; Cobb, 1972, loc. 11; Cobb, 1976, p. 24, 25; 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 Prince Creek
District Iditarod
Site type Mine
ARDF no. ID023 **MRDS no.** A015071
Quad-250 ID **Latitude** 62.36666
Quad-63360 **Longitude** 157.93330
State AK
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 **Site status** Active
Production notes Production 1919-86 estimated at 33,150 oz.
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

Site	Otter Creek		
District	Iditarod		
Site type	Mine		
ARDF no.	ID026	MRDS no.	A015073; D002701; A010752;
Quad-250	ID	Latitude	62.45139
Quad-63360	B4	Longitude	157.93330
State	AK		
Location	USGS MF-363, Loc. 31. Flat east to Slate Creek.; Discovery claim 3 miles east of Flat.; Accurate.		
Commodities, main	Au; Ag		
Commodities, other	Hg; Sb; Cr; W; Sn; Pb		
Ore minerals	Gold; Cinnabar; Stibnite; Chromite; Scheelite; Cassiterite; Galena		
Gangue minerals			
Geologic description	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.		
Alteration			
Workings/exploration	Surface: dredging		
Age	Tertiary/Quaternary		
Deposit model	Placer: stream, bench		
Deposit model number	39a		
Production	Yes: small	Site status	Active
Production notes	Production 1915-86 estimated at 235,721 oz. Au and 31,408 oz. Ag. Dredge operated 1915-56.		
Reserves			
Additional comments	Stream gradient under 100 ft. per mile. Glen Gulch placers included with Otter Creek.		
References	Mertie, 1936, p. 216-220; Maloney, 1962; Cobb, 1972, loc. 31; Cobb, 1976, p. 45-47; 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 Black Creek
District Iditarod
Site type Mine
ARDF no. ID027 **MRDS no.** A015075; D002699;
A015074
Quad-250 ID **Latitude** 62.44500
Quad-63360 B4 **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	Latitude	62.44778
Quad-63360	B4	Longitude	157.94111
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			
References	Maloney, 1962; Cobb, 1976, p. 41; Bundtzen and others, 1992.		
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	Latitude	62.38444
Quad-63360	B4	Longitude	157.97722
State	AK		
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	Latitude	62.35000
Quad-63360	B4	Longitude	157.96250
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			
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	Site status	Inactive
Production notes	Production 1911-40 totaled about 12,755 oz. Au and 2,024 oz. Ag		
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 Willow Creek
District Iditarod
Site type Mine
ARDF no. ID042 **MRDS no.** A015067
Quad-250 ID
Quad-63360 B5 **Latitude** 62.37639
State AK **Longitude** 158.06940
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 **Site status** Active
Production notes Mined intermittently 1910 to present; production considerable, but no data
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	Latitude	62.07500
Quad-63360	A-5	Longitude	158.21667
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.		
References	Maddren, 1915, p. 351-53; Cady and others, 1955, p. 116, 118; Cobb, 1972, Loc. 22; Cobb, 1976, p. 13, 14.		
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		
Quad-63360	A-5	Latitude	62.07194
State	AK	Longitude	158.15000
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.		
References	Cady and others, 1955, p. 118; 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.; 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	ID		
Quad-63360	A-5	Latitude	62.07917
State	AK	Longitude	158.17500
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 reconcentrated 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.		
References	Maddren, 1915, p. 352-53; Cady and others, 1955, p. 118; Cobb, 1972, loc. 21.		
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	Latitude	62.06056
Quad-63360	A-5	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; silicification; 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	Latitude	62.07695
Quad-63360	A-5	Longitude	158.19580
State	AK		
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	Latitude	62.06583
Quad-63360	A-5	Longitude	158.20420
State	AK		
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		

Site	Queen Gulch		
District	Aniak		
Site type	Mine		
ARDF no.	ID050	MRDS no.	A015062
Quad-250	ID	Latitude	62.05917
Quad-63360	A-5	Longitude	158.20890
State	AK		
Location	USGS MF-363, Loc. 18. About 1/4 mile upstream from the mouth of Queen Gulch.; Accurate within 1,500ft.		
Commodities, main	Au		
Commodities, other			
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	Site status	Inactive
Production notes	Mined about 1915; production lumped with that for Donlin Creek: see Donlin Creek, ID044.		
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	Latitude	62.05083
Quad-63360	A-5	Longitude	158.22360
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	Latitude	62.01667
Quad-63360		Longitude	158.25000
State	AK		
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	Latitude	62.02555
Quad-63360	A-6	Longitude	158.69170
State	AK		
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		