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MINING CLAIM FIELD INVENTORY

WRANGELL-SAINT ELIAS

NATIONAL PARK AND PRESERVE:

CHITINA DISTRICT

June 1983

PREPARED BY:

Environmental Assessment Branch

Energy, Mining and Minerals Division
Denver Field Unit

National Park Service

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The information contained in this field inventory report represents initial data gathering activities in completing a comprehensive report on the status of mining claims and associated activities in Wrangell-Saint Elias National Park and Preserve. As such, all information contained herein would be considered preliminary and subject to change. Completion of the Draft Environmental Overview and Analysis of Mining Effects document is expected sometime in FY 85.

INTRODUCTION

The information contained on the inventory forms was collected during field investigations conducted in June-July 1982 by a study team consisting of personnel from the Denver Service Center (DSC) and Alaska Regional Office (ARO). The field work conducted during the summer of 1982 focused on claim areas generally south of the Wrangell Mountains in the Chitina district of the park. Field reconnaissances of the claims areas on the north side within the Nabesna district are scheduled for the summer of 1984.

Due to the complex pattern of mining claim locations in WRST, three different types of mining claim inventory forms were used to facilitate data presentation and compilation of this field inventory report: the "basic" form which contains all information collected on a given claim group, a "short" form which summarizes claim data in areas where there is a high density of overlapping claim groups, and a "regional environmental" form which usually goes with the short form.

The basic inventory form consists of four individual parts. Part I identifies the NPS unit (e.g. WRST); Part II contains claim information

(e.g. claim names, acreage, type, location, mineral survey or serial numbers); Part III presents the various types of environmental information gathered by the study team on the surrounding claim environment; and Part IV presents comments and other observations recorded by the study team, such as information on any ongoing mining operations or evidence of past activities.

The "short" and "regional environmental overview" forms are used together for those areas of the park having a heavy concentration of mining claims with a high degree of claim overlap within a limited geographical area (e.g. Bonanza Ridge). The short form contains claim information found in Part II of the "basic" form. One of these forms is completed for each mining claim or group known to occur in a particular area of heavy claim concentration. The entire set of short forms for a given area is then referenced to a single regional environmental overview which contains the area's environmental baseline data as collected by the study team.

Where available, we have also included color xerox prints of photographs taken at the claim areas to enhance the reader's conception of the associated natural settings, terrain, surrounding environment, access, and extent of previous activities and disturbance, if any. When possible, we have included both aerial and ground-level views for a given claim area.

Prior to conducting claim reconnaissances, USGS 1:63,360 series quadrangles were used as a base for plotting mining claim locations for

reference and use during the actual fieldwork. Xerox copies of these large-scale maps, depicting claim areas, are included as an appendix following the claim inventory forms. A reference index is included to facilitate use of the maps. An in-depth analysis of public land status records, however, have revealed numerous discrepancies regarding the accuracy of claim locations shown on BLM public land status records and Master Title Plats. Accordingly, changes in certain claim locations as shown in this document can be expected to occur as further information is developed. Future efforts to correct this will include preparation of a comprehensive claims map for the entire park and preserve.

Claim acreages given for patented mining claims are based on acreage figures listed on the respective mineral survey plats. For unpatented claims, acreage figures are based on information provided on the mining claim location notices, when given, or as shown in the BLM Mining Activity Report (MAR). Where claim acreage information was lacking, estimates were developed based on the maximum claim acreages allowable under the mining statutes: 20.66 acres for lodes; 20.0 acres (or multiples thereof) for placers and association placers; and 5.0 acres for millsites.

ABBREVIATIONS USED IN THIS FIELD INVENTORY

ARO - Alaska Regional Office, National Park Service

BLM - Bureau of Land Management

BLM/MAR - Bureau of Land Management Mining Activity Report

cfs - cubic feet per second

CRM - Copper River Meridian

DSC - Denver Service Center, National Park Service

H - Historic resource potential (rated from 0-5 or low to high potential)

HI - Historical Index (from BLM land records)

MSP - Mineral Survey Plat

MTP - Master Title Plat

PR - Prehistoric resource potential (rated from 0-5, low to high)

WRST - Wrangell-Saint Elias National Park and Preserve

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Benito Creek

b) Individual claim names Panama North, Benito Creek, and Mother Macree

c) Number of claims 3 acres 61.65

d) Claim type: placer/lode/millsite/other patent application

e) Patented/Unpatented U.S. patent # _____
mineral survey # 2325

f) Location/USGS quadrangle(s) S9, N 1/2 S16, T3S, R7E, CRM
Valdez C-1

g) BLM serial number(s) AA 012524

h) Owner(s): name/address name/address
Benito Creek Mining Co., Inc.
P.O. Box 2085
Anchorage, AK 99510

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken aerial

l) Reconnaissance date(s) 7/8/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Lorraine Creek (of Kotsina River)

c) Hydrology/stream characteristics (no ground data available)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length 2.9 miles from claim area to source of Cow Creek
-stream gradient 10° to source; 1°-2° on claim
-streambed material _____

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) no observations made

f) Vegetation heavily forested with spruce and mixed hardwoods

g) Geology/soils/topography Claim area rests on Pleistocene glacial till with linear surface irregularities in a NW-SE direction; terrain slopes gently to the southwest; soils are well developed over the glacial till, supporting spruce forest.

h) Cultural resources The claims are heavily vegetated (spruce forest) in the present day but the area is one of likely use in the past so there is a low to medium prehistoric site potential. The historic site potential is also low to medium. No structures were observed from the air but the location is near
(continued under comments)

i) Weather conditions during site reconnaissance raining at time of site reconnaissance.

IV. COMMENTS AND OTHER OBSERVATIONS

Unable to verify claim location on the ground. All descriptive material used on general reconnaissance of the area from the air only. Precise location of claims unknown.

No evidence of mining activity in the area. MTP shows area of 61.65 acres for MS 2325; BLM/MAR shows 60.0 acres surveyed. Location given only as S9, T3S, R7E, CRM in BLM/MAR.

III(h). the Kotsina Trail and the Kotsina-Kuskulana Mining district (Hubbard-Elliott). PR = 1.5+, H = 1.5+.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Berg Creek

b) Individual claim names Golconda, Sunrise No. 1, Minnehaha, Sunrise No. 2, Sunrise No. 3 Lode Claims; North Midas Millsite

c) Number of claims 5 lode 103.30 (lode) 1 millsite acres 5.0 (millsite)

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) S4, SE 1/4 S5, T4S, R9E, (lodes); E 1/4 S32, W 1/4 S33, T3S, R9E, CRM McCarthy C-8

g) BLM serial number(s) AA019332-19337

h) Owner(s): name/address
Belden Corporation
2000 S. Batavia Avenue
Geneva, IL 60134

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/3/82 air only

III. SURROUNDING ENVIRONMENT

a) Major watershed Kuskulana River

b) Drainage basin Berg Creek

c) Hydrology/stream characteristics (stream draining claim area not accessible)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length 2.0 mi
-stream gradient 12°
-streambed material _____

-streambanks

-channel disturbance 2 stream crossings by access road, one without culverts.

d) Water quality (No data collected)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Moose droppings, tracks. Snowshoe hare.

f) Vegetation Mixed spruce/hardwood forest with some muskeg.

g) Geology/soils/topography South end of claim area is Chitistone and Nizina Limestone, north half located on Berg Creek (Cretaceous) sandy limestone and Jurassic granodiorite. Claims are on a 25° to 30° west facing slope; soil is organic rocky loam supporting shrub vegetation throughout claim area.

h) Cultural resources Medium to high cultural resource potential. Medium prehistoric site potential, especially in areas closer to Kuskulana River. Historic site potential in high range. (continued under comments)

i) Weather conditions during site reconnaissance clear, sunny, light winds, variable, 72° F.

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: First Stream crossing appeared to be blocking natural drainage, observed submerged terrestrial plants. Rest of muskeg habitat affected by access. Observed two forest clearings totaling over 1 acre, collectively.

Buildings present and description: Cabins, tramway, etc. present also modern buildings, helipad, fuel, etc.-active.

Access/roads: new road constructed from fuel cache across river past millsite, then upslope to claims.

Previous mining history and operations: Geneva-Pacific active operation.

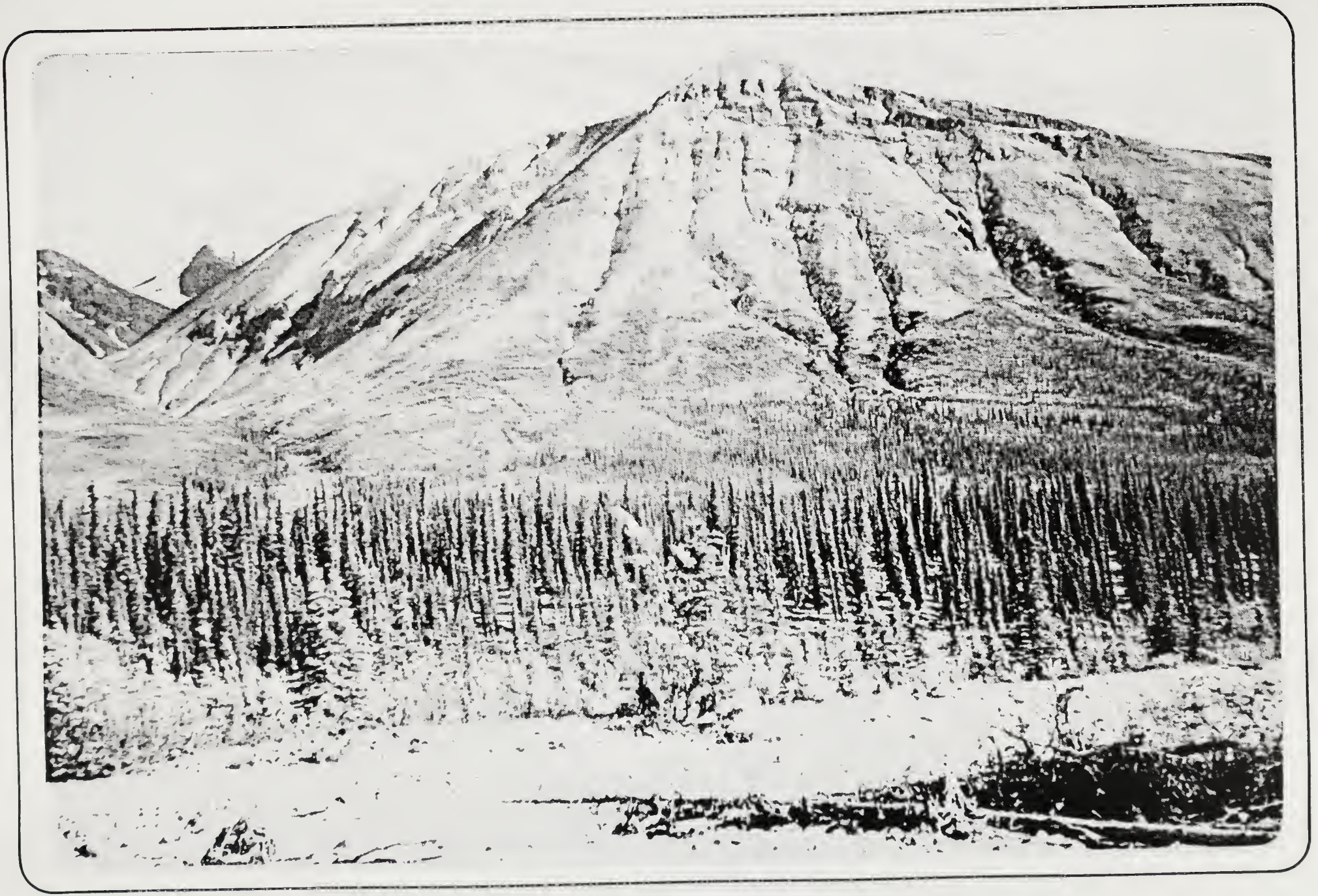
Historic Resources are actively threatened by exploratory activity especially road building, etc.

Historic mining camp is just off North Midas Millsite and aerial tramway okay condition in places, roads and other activities come within 1 mile of buildings and some activity has impacted the tramway.

Refer to July 1982 memorandum documenting claim reconnaissance for more detailed information on findings and impacts.

III. h. A historic mining camp, aerial tramway, and associated mining equipment are present just outside claim boundaries and threatened by active mining activities on claim group. This historic resource urgently needs recordation and evaluation for possible inclusion on National Register of Historic Places. PR = 2.2+, H = 4.5+.

NOTES



WRST Mining Claims

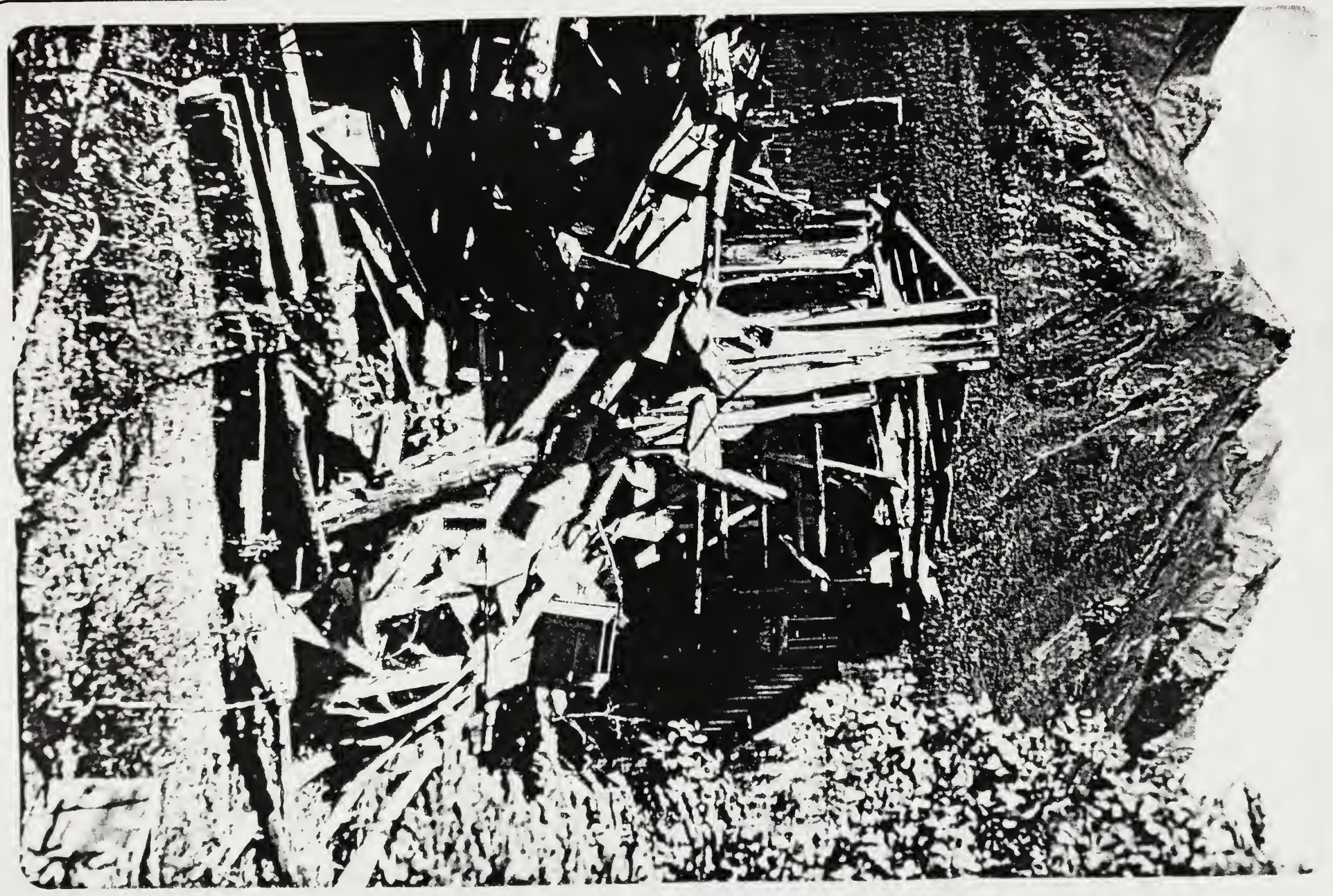
BERG CREEK

View of Golconda, Minnehaha, and Sunrise Nos. 1-3 claims from Kuskulana River



WRST Mining Claims BERG CREEK

Mining camp and helicopter pad on Golconda, Minnehaha, and Sunrise Nos. 1-3 claims



WRST Mining Claims BERG CREEK

Old tramway building on North Midas millsite claim

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Mammoth, Bonanza, Contact, Independence No. 1, Independence No. 2, National, Native, Excelsior, and Azure lode claims and Green and Blue placer claims

A

c) Number of claims 11 (9 lodes, 2 placers) acres 215.455 (175.80 lode; 39.655 placer)

d) Claim type: (placer) (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # Mineral Certificate 17
mineral survey # 563

f) Location/USGS quadrangle(s) S14, E 1/2 S15, NW 1/4 S23, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 000017

h) Owner(s): name/address
The Alaska Copper Company
(original claimant)

name/address

i) Commodity(ies) Copper, gold

j) Corner/discovery monuments found _____

k) Photos taken aerial only

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Referred to as "Kennikatt Group" on MSP.

*Not listed in BLM/MAR. Location as given may be inaccurate based on discrepancies between MTP and MSP.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo No. 1, Jumbo No. 2, Jumbo No. 3 Lodes

c) Number of claims 3 acres 60.047

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # Mineral Certificate 18
mineral survey # 564

f) Location/USGS quadrangle(s) SW 1/4 S10, N 1/2 S15, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 000018

h) Owner(s): name/address Alaska Copper Company (original claimant) name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Combination Nos. 1,2,3,4,5, and 6 Placer Claims

c) Number of claims 6 acres 959.209

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate 54
mineral survey # 615

f) Location/USGS quadrangle(s) S 1/2 S15, E 1/2 S21, W 1/2 S22, N 1/2 S27, NE 1/4 S28, R4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 000054

h) Owner(s): name/address
Alaska Copper Company
(original claimant)

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken aerial and ground

l) Reconnaissance date(s) 7/1/82 (air and ground)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: Kennicott mines and aerial trams.

National Register of Historic Places (1978) - of national significance, Kennicott, associated areas could be included should be checked by an expert team of mining historians and preservation specialists.

Not listed in BLM/MAR. Location as given may be inaccurate based on discrepancies between MTP and MSP.

Present status: Currently inactive.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Combination No. 7 Placer Claim and Hurricane, Uniletta, and Kennecatt Lode Claims

c) Number of claims 4 (3 lode, 1 placer) acres 212.35 (53.178 lode; 159.172 placer)

d) Claim type: (placer) (lode) millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate 53
mineral survey # 616

f) Location/USGS quadrangle(s) SW 1/4 S14, SE 1/4 S15, NE 1/4 S22, NW 1/4 S23, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A000053

h) Owner(s): name/address
Alaska Copper Company
(original claimant)

name/address

i) Commodity(ies) Copper, Gold

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR. Location as given may be inaccurate based on discrepancies between MSP and MTP.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Unidetta, Stirling, Hanley, Blake, and Keller Lode Claims

c) Number of claims 5 acres 103.271

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate 52
mineral survey # 617

f) Location/USGS quadrangle(s) S14, NE 1/4 S15, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s)

h) Owner(s): name/address
Alaska Copper Company
(original claimant)

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR. Location as given may be inaccurate based on location of adjoining MS 563 and discrepancies between MTP and MSP.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Rouge Lode

c) Number of claims 1 acres 18.576

d) Claim type: placer/(lode)/millsite/other _____

e) (Patented)/Unpatented U.S. patent # Mineral Certificate 51
mineral survey # 618

f) Location/USGS quadrangle(s) NE 1/4 S15, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) _____

h) Owner(s): name/address
Alaska Copper Company
(original claimant)

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found _____

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR. Location as given may be inaccurate based on relative location of adjoining MS 563 and discrepancies between MSP and MTP.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Erie Lode

c) Number of claims 1 acres 17.066

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 230601
mineral survey # 637

f) Location/USGS quadrangle(s) W 1/2 S4, E 1/2 S5, T4S, R14E,
CRM McCarthy C-6

g) BLM serial number(s) A000321

h) Owner(s): name/address
Alaska Copper and Coal Co.
General Delivery
Valdez, AK 99686

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*BLM/MAR does not show claim name.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Sweet, National, Independence, Bonanza, and Rouge Placer Claims

c) Number of claims 5 acres 728.129

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 166284
mineral survey # 770

f) Location/USGS quadrangle(s) E 1/2 S20, S21, S28, S33, T4S, R14E, CRM McCarthy, B-5, B-6, and C-6

g) BLM serial number(s) A 000051

h) Owner(s): name/address
Kennecott Mines Co. of Alaska
Carson City, NV 89701

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Location as given may be inaccurate based on discrepancies between MSP and MTP. Claim location information in BLM/MAR includes S29, T4S, R14E, CRM, MTP does not. Claim name not given in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Mammoth No. 1, Mammoth No. 2, Dan, and Clark Placers; Flurry Lode Claim

c) Number of claims 5 acres 595.703 (lode 17.772; placer 577

d) Claim type: (placer) (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 532771
mineral survey # 771

f) Location/USGS quadrangle(s) S15, SE 1/4 S16, NE 1/4 S20, N 1/2 S21, NW 1/2 S22, T4S, R14E, CRM McCarthy C-5, C-6

g) BLM serial number(s) A 000052

h) Owner(s): name/address
Kennecott Mines Co. of Alaska
Carson City, NV 89701

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Location as given may be inaccurate based on relative location of adjoining MS 563 and discrepancies between MTP and MSP.

Flurry Lode is only claim shown as patented ground on MTP. Furthermore, Mammoth No. 1 and Clark placers are depicted as unpatented mineral survey 2016 and Dan Placer as unpatented mineral survey 1086 on MPT.

BLM/MAR shows location of MS 771 only as S15, 16, 20, 21, T4S, R14E, CRM and lists figure of 577.931 acres surveyed. Claim name not given in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Fraction No. 1 Lode and S and Y Lode

c) Number of claims 2 acres 23.172

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 861694
mineral survey # 772

f) Location/USGS quadrangle(s) W 1/2 S14, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 000859

h) Owner(s): name/address
Kennecott Mines Co. of Alaska
Carson City, NV 89701

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Location as given may be inaccurate based on relative locations of adjoining Mineral surveys 563 and 617 and discrepancies between MTP and MSPs.

Claim name not given in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Combination No. 6 Placer Claim

c) Number of claims 1 acres 160.00

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 165161
mineral survey # 871

f) Location/USGS quadrangle(s) E 1/2 S22, NE 1/4 S27, T4S, R14E, CRM McCarthy B-5 and C-5

g) BLM serial number(s) A 000860

h) Owner(s): name/address
Kennecott Mines Co. of Alaska
Carson City, NV 89701

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Location as given may be inaccurate based on discrepancies between MTP and MSP.

Claim name not given in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Bonanza Extension, Bonanza Extension No.1, Bonanza Extension No.2, Bonanza Extension No.3, Bonanza Extension No.4, Bonanza Lead No. 1, Bonanza Lead, Bonanza Lead No.2
(continued under comments)

c) Number of claims 12 acres 181.348

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 389357
mineral survey # 874

f) Location/USGS quadrangle(s) SE 1/4 S10, S11, N 1/2 S14, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 001223

h) Owner(s): name/address name/address
Ocha Potter
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR. Location as given may be inaccurate based on relative location of adjoining MS 617 and discrepancies between MSP and MTP.

Bonanza Lead No. 3, Bonanza Lead No. 4, Bonanza Extension No. 11, and Slide No. 3 Lode Claims

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo Nos. 4,5,6,7, and 8 Lodes

c) Number of claims 5 acres 80.593

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 710314
mineral survey # 1049

f) Location/USGS quadrangle(s) S 1/2 S10, SW 1/4 S11, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 003864

h) Owner(s): name/address
Kennecott Copper Corporation
(original claimant)

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*Not listed in BLM/MAR. MTP shows acreage as 80.593; Historical Index shows figure of 71.118 acres.

Location as given may be inaccurate based on relative location of adjoining MS 1074 and discrepancies between MSP and MTP.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo Nos. 9 and 10 Lodes

c) Number of claims 2 acres 41.320

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 941750
mineral survey # 1073

f) Location/USGS quadrangle(s) S 1/2 S10, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 005409

h) Owner(s): name/address
Kenneccott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

*BLM/MAR lists Jumbo No. 9 only.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Azure No. 2, Azure No. 3, Azure No. 4 Lodes

c) Number of claims 3 acres 61.98

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1039741
mineral survey # 1074

f) Location/USGS quadrangle(s) NW 1/4 S14, NE 1/4 S15, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 007101

h) Owner(s): name/address
Kennecott Copper Corp.
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Location as given may be inaccurate based on relative location of adjoining MS 563 and discrepancies between MSP and MTP. BLM/MAR shows location as S10, 14, 15, T4S, R14E, CRM

MS 1074 encompasses two different United States Patents - #1039741 and #1113687. Discrepancies in acreage figures for U.S. Patent #1039741 exist among the HI(38.382), MTP(121.948), and BLM/MAR (104.479). Need to determine whether #1039741 encompasses Azure Nos. 2-4. The MTP appears to depict patent #1039741 as consisting of Azure Nos. 2-4; according to the MSP, these three claims encompass approximately 61.98 acres. BLM/MAR lists Azure No. 2 claim name only.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Azure No. 5, Jumbo No. 6 Fraction, Jumbo No. 25 Lodes

c) Number of claims 3 acres 66.097

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1113687
mineral survey # 1074

f) Location/USGS quadrangle(s) SE 1/4 S10, NW 1/4 S14, NE 1/4 S15, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 009405

h) Owner(s): name/address
Kennecott Copper Corp.
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Location as given may be inaccurate based on relative location of adjoining MS 563 and discrepancies between MSP and MTP.

MS 1074 encompasses two different United States Patents - #1039741 and #1113687. Discrepancies in acreage figures for U.S. Patent #1113687 exist among the HI(66.097), MTP(121.948), and BLM/MAR (104.479). BLM/MAR lists Azure No. 5 claim name only.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Erie No. 1, Erie No. 2, Erie No. 3, and Superior Lodes

c) Number of claims 4 acres 82.644

d) Claim type: placer, (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1042126
mineral survey # 1076

f) Location/USGS quadrangle(s) W 1/2 S4, NE 1/4 S5, T4S, R14E, CRM
McCarthy C-5, C-6

g) BLM serial number(s) A 007099

h) Owner(s): name/address
Kennecott Copper Corp.
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR Lists Erie No. 1 claim name only and shows figure of 201.587 acres surveyed compared to 82.644 acres shown on HI.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Messaba, Princeton, Minnewash, Mille Lacs, Mountain Goat, and Bear Lodes

c) Number of claims 6 acres 119.525

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1111877
mineral survey # 1076

f) Location/USGS quadrangle(s) SW 1/4 S4, S9, W 1/2 S10, T4S, R14E, CRM McCarthy C-5, C-6

g) BLM serial number(s) A 009495

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR does not list any claim names whatsoever and shows figure of 201.587 acres surveyed compared to 119.525 acres shown on HI.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Hero lode

c) Number of claims 1 acres 20.654

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1041145
mineral survey # 1081A

f) Location/USGS quadrangle(s) SE 1/4 S11, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 007120

h) Owner(s): name/address name/address
Mother Lode Copper Mines Company
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Location as given may be inaccurate based on relative location of MS 874 and discrepancies between MSP and MTP.

HI shows figure of 13.078 acres; MTP shows figure of 20.654. Latter figure is consistent with claim dimensions shown on MSP.

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Godfrey and Marvelous Lodes

c) Number of claims 2 acres 23.565

d) Claim type: placer/(lode)/millsite/other

e) (Patented)/Unpatented U.S. patent # 1010285
mineral survey # 1082A

f) Location/USGS quadrangle(s) SW 1/4 S11, NW 1/4 S14, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 005994

h) Owner(s): name/address
Mother Lode Coalition Mines Co.
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR and HI show figure of 24.951 acres. MTP shows figure of 23.565 acres.

BLM/MAR does not list Marvelous claim name, nor does it differentiate MS 1082A from MS 1082B.

Location as given may be inaccurate based on relative location of adjacent MS 617 and discrepencies between MSP and MTP.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Erie No. 4 Lode

c) Number of claims 1 acres 20.661

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1039740
mineral survey # 1084

f) Location/USGS quadrangle(s) SW 1/4 S4, T4S, R14E, CRM
McCarthy C-6

g) BLM serial number(s) A 007100

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies) copper

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Marten and Cougar Lodes

c) Number of claims 2 acres 41.28

d) Claim type: placer, (lode), millsite/other _____

e) (Patented) Unpatented U.S. patent # 1039739
mineral survey # 1514

f) Location/USGS quadrangle(s) SW 1/4 S3, SE 1/4 S4, NE 1/4 S9, NW 1/4 S10, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 007098

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo No. 15 and Jumbo No. 16 lodes

c) Number of claims 2 acres 41.320

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1013988
mineral survey # 1515

f) Location/USGS quadrangle(s) S10, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 006703

h) Owner(s): name/address name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo No. 19 and 20 Lodes

c) Number of claims 2 acres 41.320

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1013989
mineral survey # 1516

f) Location/USGS quadrangle(s) SE 1/4 10, SW 1/4 S11, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 006704

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

HI and BLM/MAR list figure of 40.446 acres while MTP shows figure of 41320 acres.

BLM/MAR does not list Jumbo No. 20 claim name.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Nig Lode

c) Number of claims 1 acres 20.661

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1013987
mineral survey # 1517

f) Location/USGS quadrangle(s) SW 1/4 S4, T4S, R14E, CRM
McCarthy C-6

g) BLM serial number(s) A 006702

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Mink Lode and Lynx Lode

c) Number of claims 2 acres 41.322

d) Claim type: placer/(lode)/millsite/other

e) (Patented)/Unpatented U.S. patent # 1077820
mineral survey # 1548

f) Location/USGS quadrangle(s) S4, T4S, R14E, CRM McCarthy C-6

g) BLM serial number(s) A 008137

h) Owner(s): name/address
Kennecott Copper Corporation
(original claimant)

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Lion Lode and Fox Lode

c) Number of claims 2 acres 41.322

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1111874
mineral survey # 1548

f) Location/USGS quadrangle(s) S4, T4S, R14E, CRM McCarthy C-6

g) BLM serial number(s) A 009402

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohue and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows 82.644 acres surveyed; this probably includes Mink and Lynx lodes which are also included in MS 1548 but under a different U.S. Patent (#1077820).

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Ohl No. 3 and Ohl No. 4 Lodes

c) Number of claims 2 acres 41.322

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1077819
mineral survey # 1572

f) Location/USGS quadrangle(s) S 1/2 S11, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 008133

h) Owner(s): name/address name/address
Mother Lode Coalition Mines Co.
c/o Donohoe and Dimond
Cordova, AK 99574

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Location as given may be inaccurate based on proximity to MS 874 and discrepancies between MSP and MTP. HI Lists acreage as 23.283; BLM/MAR, MTP and MSP show 41.322 acres.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo No. 2 Fraction

c) Number of claims 1 acres 13.182

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1111875
mineral survey # 2016

f) Location/USGS quadrangle(s) NE 1/4 S15, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 009403

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

HI shows figure of 2.705 acres; BLM/MAR lists figure of 492.790 acres; and MTP shows figure of 13.182 acres, which is consistent with claim dimensions given on MSP.

Overlaps with MS 771. Location as given may be inaccurate based on discrepancies between MSP and MTP. BLM/MAR lists location in four different sections.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Jumbo No. 25 Fraction and Azure Fraction

c) Number of claims 2 acres 20.535

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1111876
mineral survey # 2017

f) Location/USGS quadrangle(s) SE 1/4 S10, NW 1/4 S14, NE 1/4 S15, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 009404

h) Owner(s): name/address
Kennecott Copper Corporation
c/o Donohoe and Dimond
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/1/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

HI and BLM/MAR list figure of 6.996 acres. MTP shows figure of 20.535 acres which appears to be consistent with information on MSP.

Overlaps with MS 771. Location as given may be inaccurate bassed on discrepancies between MSP and MTP.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Bonanza Ridge

b) Individual claim names Washington, California, Nevada, Oregon, Arizona, Utah, Caribou, Montana, Idaho, Beaver, Wolf, Colorado, (continued in section IV - comments and other observations)

c) Number of claims 136 acres 2809.76

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S32, S33, T3S, R14E; S1,2,3,4,5,9, 10,11,12,13,14, T4S, R14E, CRM McCarthy C-5 and McCarthy C-6

g) BLM serial number(s) AA034199-34334

h) Owner(s): name/address
Walter P. Wigger
P.O. Box 78
Fairbanks, AK 99707

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken from air only

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

New Mexico, Ape, Zebra, Gorilla, Zebu, Wombat, Weasel, Okapi, Hyena, Dik Dik, Moose, Otter, Seal, Walrus, Hare, Jess, Magpie, Gopher, Lakeview, Egnots, Little Joe, Pershing, Hoover, Raven, Equator, Foch, Ermine, Tyrone, Savannah, Tiger, Yak, Elk, Deer, Oscar, Sam, Victor, Butte, Chillicothe, James, William, Donald, Sunday, Loss, Red, Brandy, Scioto, Helen, Jumbo No. 11, Jumbo No. 13, Jumbo No. 12, Jumbo No. 14, Jumbo No. 17, Jumbo No. 18, Jumbo No. 21, Jumbo No. 22, Jumbo No. 23, Jumbo No. 24, Jumbo No. 26, Jumbo No. 27, Billie, Bobbie, Countess, Count, Duchess, Duke, Ohl Ohl No. 1, Ohl No. 2, Ohl No. 5, Ohl No. 6, Ohl No. 7, Ohl No. 8, Anzak, Anzak No. 1, Anzak No. 2 Anzak No. 3, Anzak No. 6, Moraine Placer No. 1, Moraine Placer No. 2, Moraine Placer No. 3, Moraine Placer No. 6, Warner, Monarch No. 1, Monarch No. 2, Monarch No. 3, Monarch No. 5, Monarch No. 6, Monarch No. 7, Monarch No. 8, Old Glory, Old Glory No.1, Olive, Hazel, Cherry, Rosemelda, Athol, Jack Smith, Tyler, Leviathan, (continued on reverse)

IV. COMMENTS AND OTHER OBSERVATIONS (continued)

Polk, Jackson, Regal No. 1, Regal No. 2, Ohio No. 1, Ohio No. 2, Ohio No. 3, Mountain Sheep, Ohl #9, Ohl #10, Anzak #4, Anzak #5, Moraine Placer #4, 38 Richard, Nynzio, Bookmark, Star Murphy, Rabbit, Needeep, G.C., Rhodes, Rhodes #4, Rhodes #5, Rhodes #9, Rhodes #10.

Buildings Present and Description: ruins seen from air in an avalanche area.

This general area has a low to medium prehistoric site potential. The higher potentials would occur closer to McCarthy Creek. The historic site potential is medium to high. The ruins of several mine buildings were seen during the aerial overflight. The area is also part of the original Kennicott complex of mining claims and activities. PR = 1.0, H = 3.5.

CLAIM GROUP NAME - Bonanza Ridge

USGS QUADRANGLE(S) - McCarthy B-5, B-6, C-5, and C-6

GENERAL DESCRIPTION OF SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin McCarthy Creek and Kennicott River

c) Hydrology/stream characteristics (Bonanza Creek, a typical drainage containing upstream mining workings, was examined)
-estimated discharge 8 cfs
-average stream depth 4 inches
-average stream width 8 feet
-average active channel width 40 feet
-average floodplain width 50-75 feet
-stream length 2.6 miles
-stream gradient 8°
-streambed material cobble
-streambanks exposed (cobble, boulders); very sparse vegetation
-channel disturbance tailings from past mining (underground), road construction in upper portion of watershed

d) Water quality
-water temperature 40°F
-pH 7.0
-color clear
-turbidity clear snowmelt stream

e) Wildlife (observed or evident) marmot, bear diggings, Dall sheep tracks, moose tracks

f) Vegetation Principal covering is shrub tundra grading upwards into dry alpine tundra, barren rock, talus, and snowfields; extreme lower portion of claim group covered by broken spruce and mixed hardwood forest.

g) Geology/soils/topography Very complexly faulted and folded Nikolai Greenstone, Chitistone Limestone, and Nizina Limestone. Contact zone of greenstone and limestone is the focus of heavy mineralization. Claim group straddles rugged Bonanza Ridge with peaks in excess of 6000 feet between the McCarthy Creek and Root Glacier drainages. Soils consist of bare rock, talus, and at lower elevations, discontinuous accumulations of thin, rocky organic matter 3 to 6 inches thick.

h) Cultural resources This group of claims has a low potential for prehistoric site occurrence due to the steep terrain and the history of recent glaciation. However, there is a possibility for some historical archeology in some of the claim areas. This historic site potential is very high. (continued under comments)

i) Weather conditions during site reconnaissance sunny and clear with scattered clouds

COMMENTS

Numerous discrepancies noted between MTP and MSPs regarding claim locations within the claim group. Proper locations of affected claims appear to be situated approximately 1/2-3/4 mile true south from claim locations as plotted on copies of accompanying claim maps.

Aerial and ground reconnaissance conducted 7/1/82.

(over)

Comments cont.

Access/roads: road (4X4 only) from Kennicott traverses claim group to Bonanza Mine. Another road originating in McCarthy (also 4X4) extends around south end of Bonanza Ridge and up east side along McCarthy Creek. It finally heads up east side of ridge to Mother Lode Mine in sinuous series of switchbacks above McCarthy Creek.

Previous mining history and operations: part of original Kennicott complex and associated activities. Claim group includes original Bonanza Mine, Jumbo Mine, and Mother Lode Mine strikes. Entire area worked during 50-year boom cycle of Kennicott.

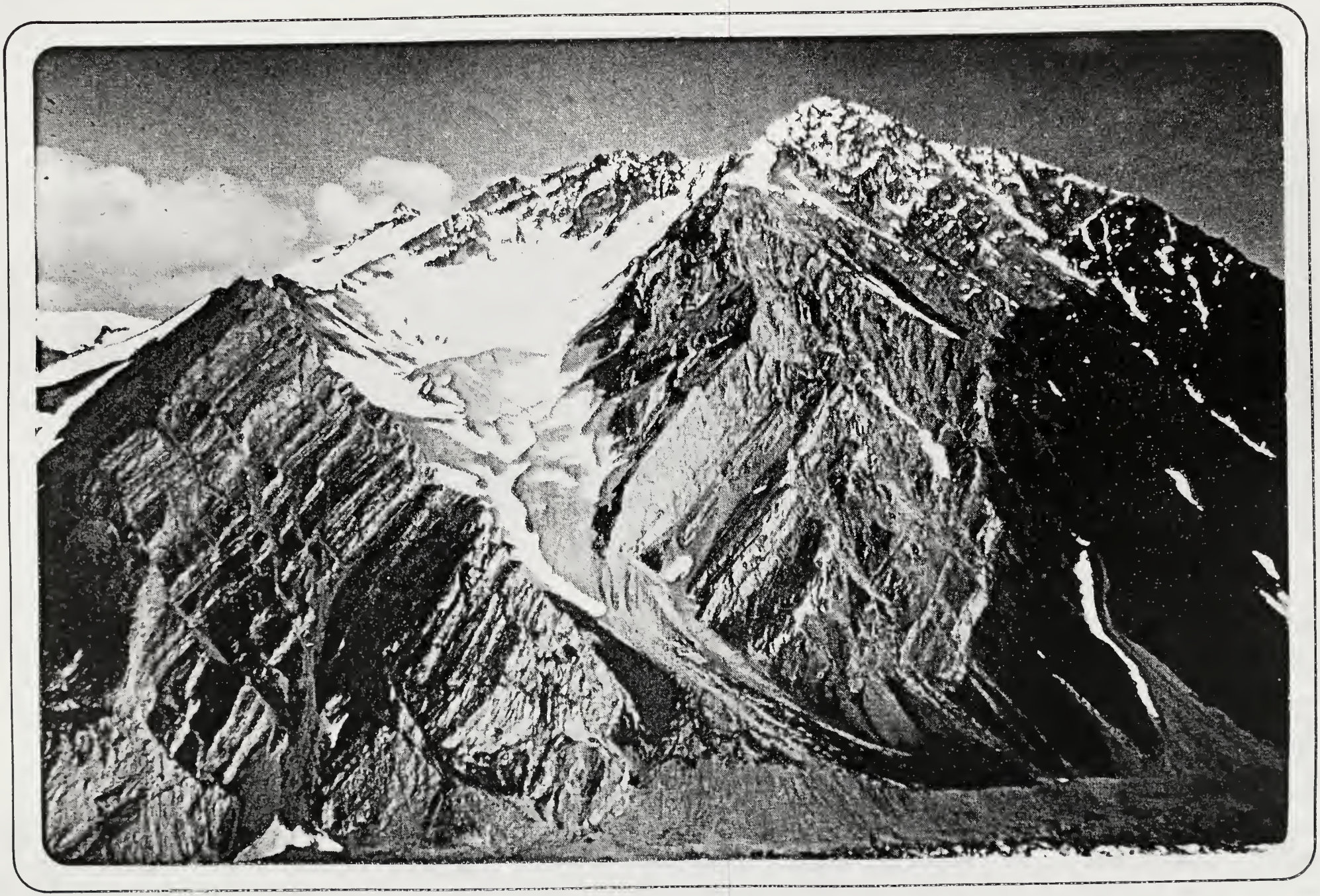
h). These claims involve many of the original Kennicott claims as well as the town of Kennicott, which is on the National Register of Historic Places. Many of the surrounding areas also appear eligible for inclusion on the National Register. PR = 1.0, H = 5.0.



WRST Mining Claims

BONANZA RIDGE

View of east-central portion of Bonanza Ridge, looking south. Terrain is typical of Bonanza Ridge claim group.



WRST Mining Claims

BONANZA RIDGE

View of west side of Bonanza Ridge across from Donoho Peak. Terrain is typical of Bonanza Ridge claim groups. Note contact zone of greenstone and limestone.



WRST Mining Claims

CALAMITY GULCH

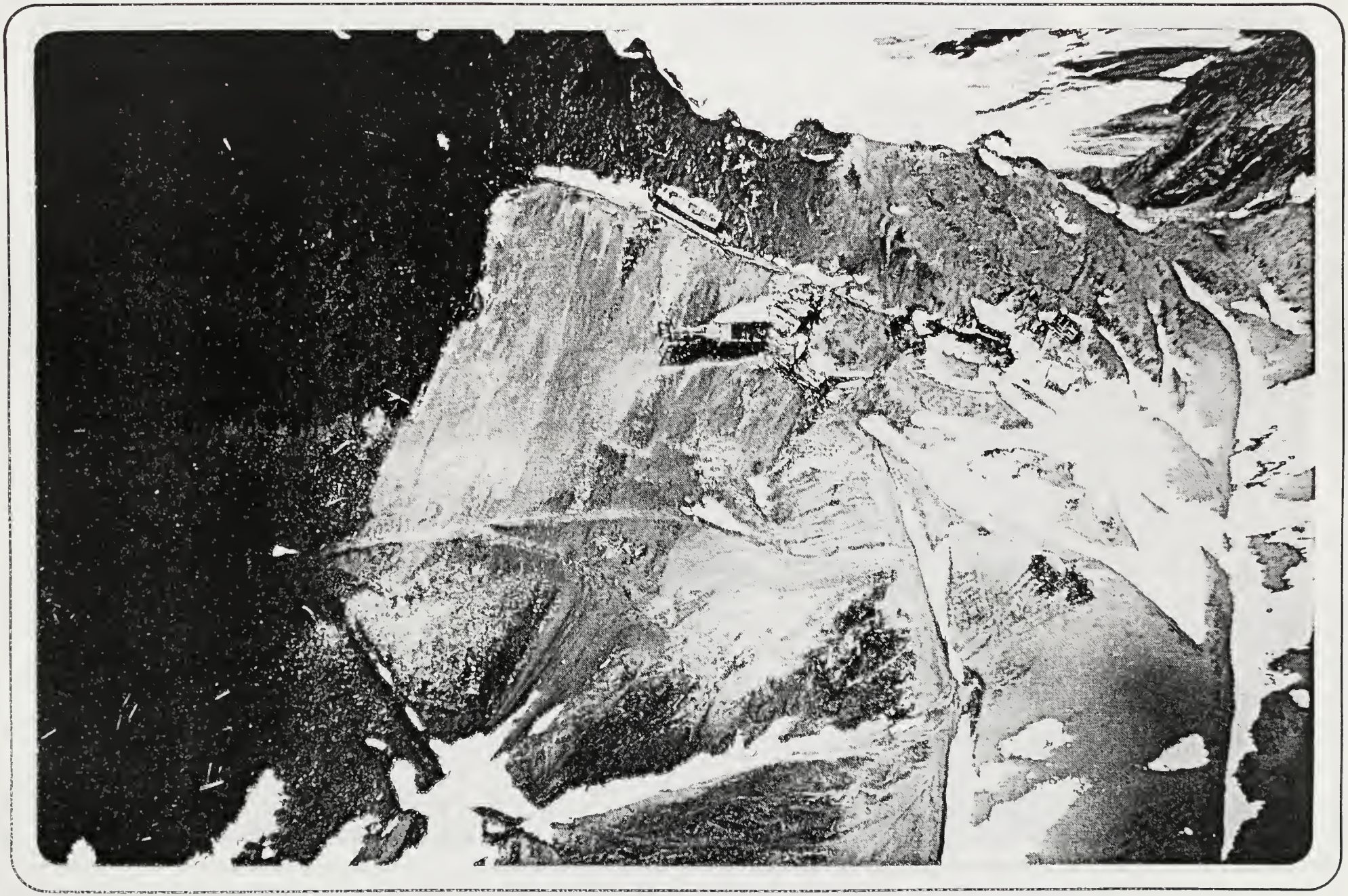
General location of Goju #2 Placer claim along upper Calamity Gulch.



WRST Mining Claims

BONANZA RIDGE

View of Bonanza Creek drainage. Note access road leading to old Bonanza Mine.



WRST Mining Claims BONANZA RIDGE

View of abandoned mine on Bonanza Ridge.



WRST Mining Claims

BONANZA RIDGE

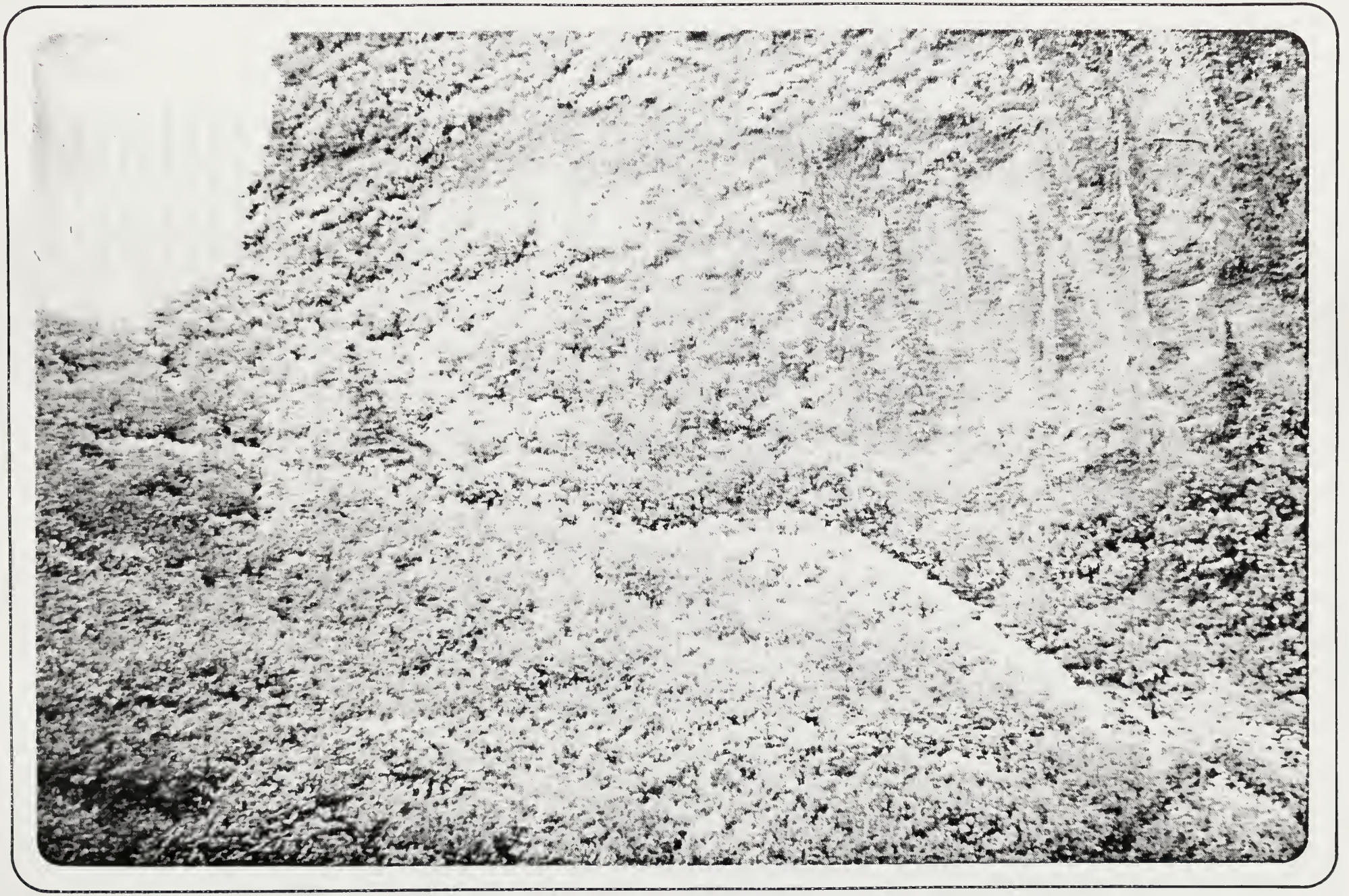
View of Erie Mine.



WRST Mining Claims

BONANZA RIDGE

Aerial tramway near old Bonanza Mine.



WRST Mining Claims

BOULDER CREEK

Aerial view showing general location of Boulder Creek Placer claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Boulder Creek Placer

b) Individual claim names Boulder Creek Placer

c) Number of claims 1 acres 20

d) Claim type: (placer) lode/millsite/other _____

e) Patented (Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) S 1/2 S34, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) AA 024504

h) Owner(s): name/address
Doran, Pat & Vincent J., Jr.
3811 Knik Ave.
Anchorage, AK 99503

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken aerial only

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed —Nizina River

b) Drainage basin Boulder Creek of Dan Creek

c) Hydrology/stream characteristics (no ground observations made)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length 1.2 miles from claim to source
-stream gradient 18°on claim
-streambed material _____

-streambanks _____

-channel disturbance _____

d) Water quality (no ground observations made)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) None observed from aircraft

f) Vegetation Fluvial shrub community with scattered spruce

g) Geology/soils/topography Claim lies on poorly consolidated Quaternary glaciofluvial deposits; narrow stream channel cuts 15° to 20° slopes along the drainage.

h) Cultural resources The prehistoric site potential of this area is low in general but slightly higher near the confluence with Dan Creek. The steep terrain, heavy vegetation and narrow creek canyon are all negative factors. However, the historic site potential is medium to high. This area was part of the
(continued under comments)

i) Weather conditions during site reconnaissance slightly overcast

IV. COMMENTS AND OTHER OBSERVATIONS

III(h). Dan Creek/Nizina Mining Districtwhich has been actively mined since 1902. There appears to be historic mining remains toward the mouth of this creek. PR = 1.0, H = 3.5+.

Buildings present and description: Note historic buildings, excellent condition, & hydraulic equipment at mouth of creek - could be affected by upstream activities.

Access/roads: Dan Creek Road to mouth of Boulder Creek.

Airstrip(s) present and location: Dan Creek airstrip located 1 1/2 miles SW of claim.

Previous mining history and operations: historic activity related to Dan Creek placer operations. Boulder Creek used for water source to run hydraulic giants on Dan Creek. Historic stream disturbance noted in claim area.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Calamity Gulch

b) Individual claim names Calamity Gulch Placer No. 1

c) Number of claims 1 acres 20.0

d) Claim type: (placer)/lode/millsite/other

e) Patented/(Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S23, T7S, R16E, CRM McCarthy A-4 and A-5

g) BLM serial number(s) AA016845

h) Owner(s): name/address
Beverly A. Doran
3811 Knik Ave.
Anchorage, AK 99503

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed —Nizina River

b) Drainage basin Calamity Gulch of Young Creek

c) Hydrology/stream characteristics (Refer to data collected at Goju #2 Placer and KWSS #1-8)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material unable to verify because of stream turbidity; probably rubble

-streambanks exposed (rubble and undercut banks)

-channel disturbance minor disturbance from past mining activity

d) Water quality

-water temperature 41°F
-pH
-color light grey to brown
-turbidity turbid, from shale formation which stream cuts for all its upstream distance

e) Wildlife (observed or evident) Fresh wolf tracks, bear tracks

f) Vegetation Spruce/hardwood forest on slopes rising back from lower Gulch, willow shrubs, diamond-leaf willow (or cottonwood?) on knoll in floodplain

g) Geology/soils/topography Claim located on stream alluvium overlying Cretaceous age mudstone and shale of the Chititu formation, intruded by Tertiary age sills and dikes; stream gradient 3°, valley sides 15° to 20°; soils are clay loam, 10 to 15" deep with top organic layer.

h) Cultural resources Area appears to have had good hunting and fishing potential and relatively good access. Possible metate (grinding stone) found downstream on KWSS claims. Medium to high prehistoric site potential. High historic site potential part of Nizina Mining District where gold placer mining has
(continued under comments)

i) Weather conditions during site reconnaissance slightly overcast

IV. COMMENTS AND OTHER OBSERVATIONS

III. h. been active since 1899. Remains of log building and hydraulic flume present. PR = 2.5+, H = 3.5+.

Previous mining history and operations: remains of old flume and several other structures indicated past activity. Structure located in stream may have been diversion dam for flume. Flume ran approximately 1/2 mile to washing shed above present claim.

Comments from local residents indicate that mining operation on these claims was short lived. Flume operation apparently never used after its construction.

BLM/MAR shows location in four different sections.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Calamity Gulch

b) Individual claim names Goju Placer #1, #2

c) Number of claims 2 acres 40.0

d) Claim type: (placer) lode/millsite/other

e) Patented, (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) NE 1/4 S23, T7S, R16E, CRM (Goju #1); SE 1/4 S13, NE 1/4 S24, T7S, R16E, CRM (Goju #2) McCarthy A-4 and B-4

g) BLM serial number(s) AA017578-17579

h) Owner(s): name/address
Frank G. Califour, Jr.
3224 W. 80th Ave.
Anchorage, AK 99502

name/address
Michele L. Doran
3811 Knik Ave.
Anchorage, AK 99503

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Calamity Gulch of Young Creek

c) Hydrology/stream characteristics (data collected on Goju #2)

-estimated discharge 30 cfs
-average stream depth 9 inches
-average stream width 10 feet
-average active channel width 10 feet
-average floodplain width 100 feet
-stream length
-stream gradient 6°
-streambed material boulders and rubble

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Calamity Gulch

b) Individual claim names KWSS No. 5-8

c) Number of claims 4 acres 80.00

d) Claim type: (placer) lode/millsite/other _____

e) Patented (Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) S27, SE 1/4 S28, NE 1/4 S33, N 1/2 S34, T7S, R16E, CRM McCarthy A-5

g) BLM serial number(s) AA018475-18478

h) Owner(s): name/address
Bruce Kraft
Calamity Prospect Company
7301 20th Ave.
Anchorage, AK 99504

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Calamity Gulch/Young Creek

c) Hydrology/stream characteristics

-estimated discharge 48 cfs
-average stream depth 12 inches
-average stream width 12 feet
-average active channel width 10 to 40 feet
-average floodplain width 150 feet
-stream length 5.3 miles
-stream gradient 3°
-streambed material probably rubble but unable to verify because of turbidity

-streambanks exposed (rubble and undercut banks)

-channel disturbance Minor disturbance from past mining activity

d) Water quality

-water temperature 41° F
-pH
-color light gray to brown
-turbidity Turbid, from shale formation which stream channel cuts for all its upstream distance.

e) Wildlife (observed or evident) Fresh wolf tracks, bear tracks

f) Vegetation Spruce/hardwood forest on slopes, while creek bottom is partially vegetated by willow shrubs, alder and poplar. Minor invasion along floodplain by spruce.

g) Geology/soils/topography Claim located on floodplain alluvium overlying Cretaceous age mudstone and shale of the Chititu formation, intruded by tertiary sills and dikes; 5° to 20° slopes along drainages; soils are 12 to 15 inches deep clay loam with upper layer of accumated organic matter.

h) Cultural resources Medium to high prehistoric site potential Found possible metate (grinding stone) in streambed. Part of Nizina Mining District. Remains of hydraulic flume, ruins of a dam, log building and other miscellaneous remains present. PR = 2.5+, H = 3.5+.

i) Weather conditions during site reconnaissance slightly overcast

IV. COMMENTS AND OTHER OBSERVATIONS

Present status: used for weekend recreational mining - small 4" suction dredge.

Access/roads: horse/foot trail over Chititu Ridge from upper White Creek and Chititu camp. No access up Young Creek.

Airstrip(s) present and location: nearest airstrip at May Creek ten miles NW of claim area.

Previous mining history and operations: some evidence of past mining activity associated with the flume operation located upstream on the Calamity Gulch Placer claims. Small cabin - still used occasionally located on claims.

KWSS #1-4 not listed in BLM/MAR.

Need to verify BLM/MAR location information. Claims plotted according to Moerlein report.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Calamity Gulch

b) Individual claim names Calamity Mine #1-#2

c) Number of claims 2 acres 40.0

d) Claim type: (placer)/lode/millsite/other

e) Patented/(Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SE 1/4 S22, NE 1/4 S27, T7S, R16E
CRM McCarthy A-5

g) BLM serial number(s) AA024377-24378

h) Owner(s): name/address
Evelyn and Bebe Bunch
P.O. Box 31
Glennallen, AK 99588

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken ground & aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (Refer to data collected for Goju #2 & KWSS

h) Cultural resources: Area appears to have had good hunting and fishing potential and relatively good access. Possible metate (grinding stone) found downstream on KWSS claims. Medium to high prehistoric site potential. High historic site potential; is part of Nizina Mining District, where gold placer mining has been active since 1899. Remains of log building and hydrauli flume present. PR = 2.5+, H = 3.5+

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows location only as S27, T7S, R16E, CRM



WRST Mining Claims

CALAMITY GULCH

View downstream along lower Calamity Gulch above mouth in vicinity of KWSS claims.

NOTES

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Canyon Creek

b) Individual claim names Omega #1 and Omega #2

c) Number of claims 2 acres 40.00

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) W 1/2 S32, T8S, R18E, CRM
McCarthy A-4

g) BLM serial number(s) AA014629-14630

h) Owner(s): name/address
James Kohring
SRA Box 3569
Anchorage, AK 99502

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 6/28/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Canyon Creek

c) Hydrology/stream characteristics

-estimated discharge 1800-2400 cfs
-average stream depth 4 feet
-average stream width 30 to 40 feet
-average active channel width 50 to 1000 feet (distributary alluvial fan)
-average floodplain width 100 feet wide of north end at fan, to 1500
-stream length 18.5 mi. wide at mouth of Canyon Creek
-stream gradient Level to 1°
-streambed material Boulders, rubble, gravel. Turbidity precluded determining dominant size classification.

-streambanks exposed, nearly vertical, about 1 1/2-2 feet high. Gravel, rubble, boulders
-channel disturbance none observed

d) Water quality

-water temperature 42° F
-pH 8.0 (varied from 7.8 to 8.2)
-color medium brown
-turbidity highly turbid

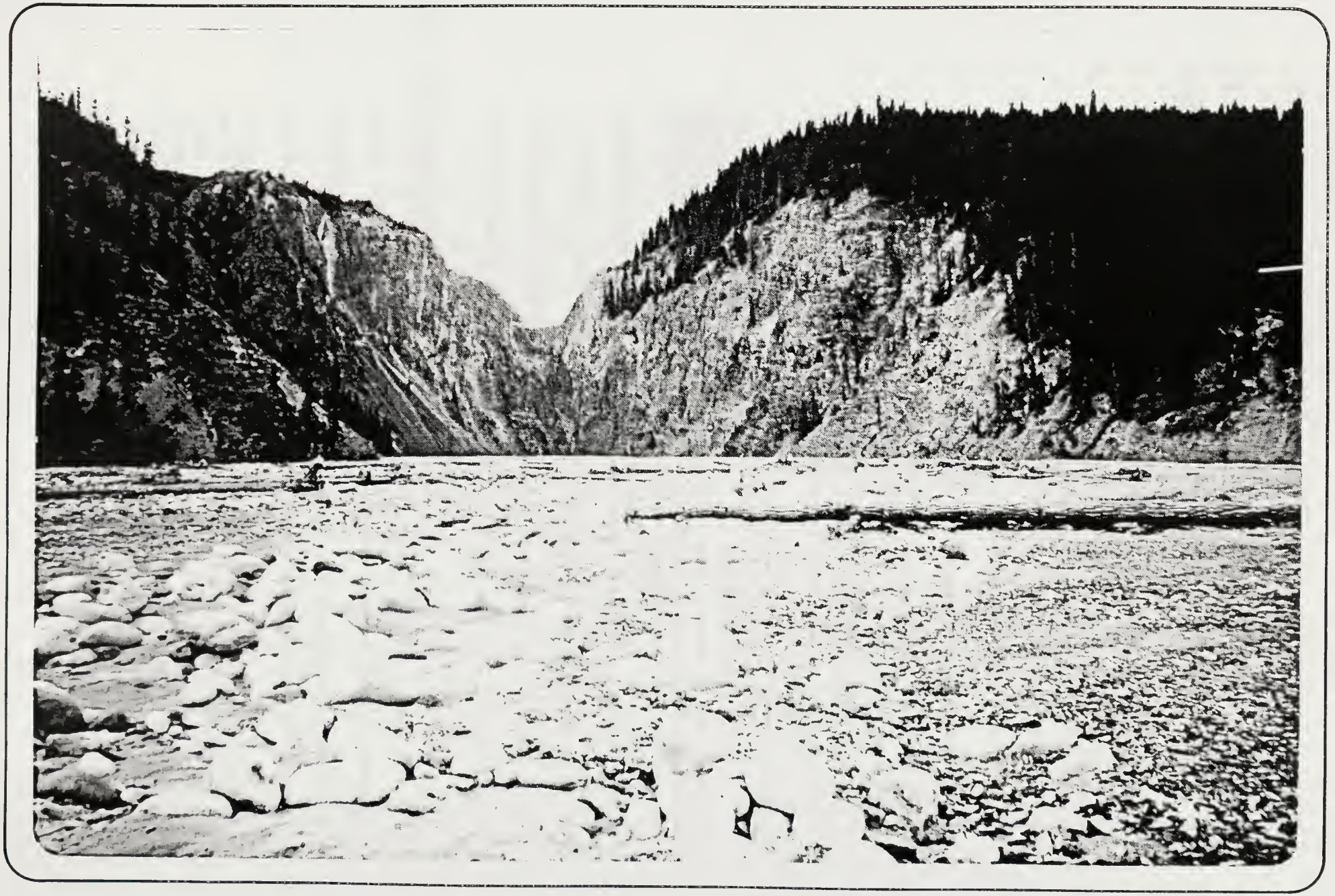
e) Wildlife (observed or evident) None observed

f) Vegetation None to speak of - claim cover consists of alluvial materials ranging from silt to boulders

g) Geology/soils/topography Both claims situated on an alluvial fan at the mouth of Cave Creek; soil is stream alluvium consisting of poorly sorted silt, sand, gravel, cobbles and boulders up to 2 feet in diameter; topography is flat, to a maximum of 1° slope southward toward the Chitina River.

h) Cultural resources Both the historic and prehistoric site potentials are low here with slightly higher values at either side of the broad gravel delta at the confluence with the Chitina River, a well-used travel route. PR = 0-1, H = 1.0+.

i) Weather conditions during site reconnaissance Partly cloudy and very windy. No precipitation for past 6 days.



WRST Mining Claims

CANYON CREEK

General location of Omega #1 and #2 placer claims at mouth of Canyon Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Canyon Creek

b) Individual claim names Alpha Millsite Claim

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode/(millsite)/other _____

e) Patented/(Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) NW 1/4 S6, T8S, R18E, CRM
McCarthy A-4

g) BLM serial number(s) AA014631

h) Owner(s): name/address
James Kohring
SRA Box 3569
Anchorage, AK 99502

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/28/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Canyon Creek

c) Hydrology/stream characteristics (no streams present on claim)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material muddy lake bottom (Big Bend Lake)

-streambanks

-channel disturbance

d) Water quality (for Big Bend Lake)

-water temperature 62° F
-pH 7.1
-color clear
-turbidity not turbid

e) Wildlife (observed or evident) Cabin at claim demolished apparently by a bear. Observed willow ptarmigan w/3 chicks.

f) Vegetation Willow and alder thicket grading into spruce forest on higher, better drained slopes. Marshy areas at edge of lake.

g) Geology/soils/topography Quaternary glaciofluvial deposits covered entirely by a thick mat of organic soil; land surface is flat, dipping about 5° to the south toward the lake.

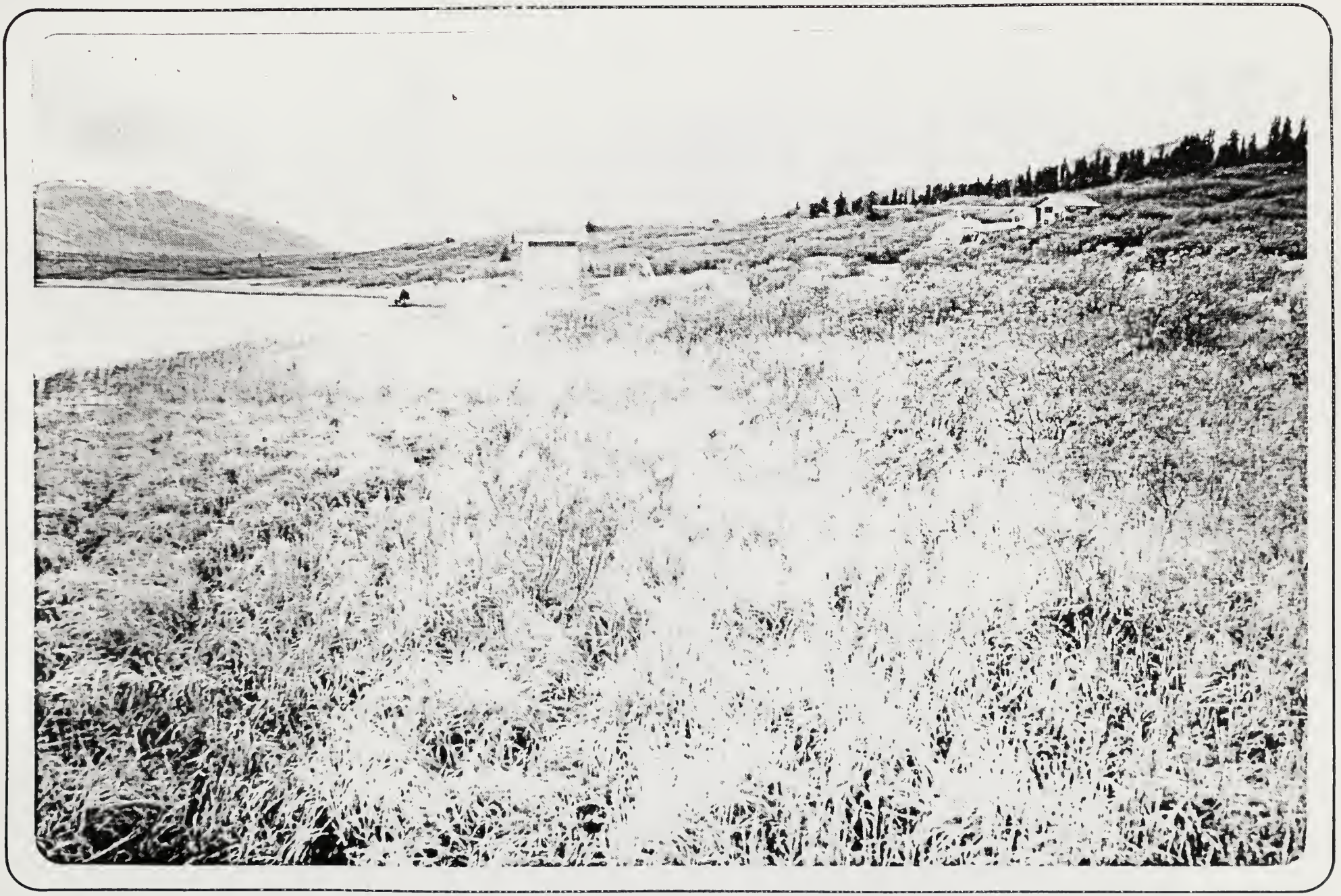
h) Cultural resources This claim has low to medium potentials due to its location on the Big Bend Lake, which is good hunting and fishing territory. An older cabin is located just off the northwest corner of the claim. PR = 1.5+, H = 1.5+.

i) Weather conditions during site reconnaissance Partly cloudy and very windy. No precipitation for past 6 days.

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: three cabins (one main, one a bunkhouse, one storage); also older cabin just off the NW corner of the claim in the trees.

BLM/MAR claim location information is inaccurate - listed as SE 1/4 and SW 1/4 S6, T8S, R18E.



WRST Mining Claims

CANYON CREEK

General location of Alpha millsite claim looking west from southeast corner of claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Canyon Creek

b) Individual claim names Alpha #1

c) Number of claims 1 acres 20.66

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) E 1/2 S16, T7S, R18E, CRM
McCarthy B-4

g) BLM serial number(s) AA 014632

h) Owner(s): name/address
James Kohring
SRA Box 3569
Anchorage, AK 99520

name/address
Charles M. Kohring
P.O. Box 515
Wasilla, AK 99687

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/5/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Canyon Creek

c) Hydrology/stream characteristics (no permanent watercourses in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Sighted several Dall sheep from air in claim area

f) Vegetation Primarily shrub tundra on benches. Inner gorge of Canyon Creek is not vegetated. Few scattered spruce.

g) Geology/soils/topography Claim lies over mudstone and shale of the Cretaceous age Chititu formation, intruded by tertiary dacitic dikes at the west end of claim area; part of claim area includes an eastward moving rock glacier; soils are 3 to 6" deep rocky loam; claims located on an east facing 31° slope along Canyon Creek.

h) Cultural resources All site potentials are very low here due to the steep, rocky terrain. PR = 0-1, H = 0-1.

i) Weather conditions during site reconnaissance sunny, high clouds.



WRST Mining Claims

CANYON CREEK

General location of Alpha #1 lode claim in Canyon Creek gorge.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Canyon Creek

b) Individual claim names Gamma #1

c) Number of claims 1 acres 20.66

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S28, N 1/2 S33, T6S, R18E, CRM McCarthy B-4

g) BLM serial number(s) AA 023393

h) Owner(s): name/address
James Kohring
SRA Box 3569
Anchorage, AK 99502

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/5/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Canyon Creek

c) Hydrology/stream characteristics (no permanent watercourses within claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Several Dall sheep sighted from air in claim area

f) Vegetation Covered primarily by alpine tundra with scattered areas of bare rock.

g) Geology/soils/topography Claim area situated on Triassic age Nikolai Greenstone; claim positioned on a south facing slope with a 24° inclination; soils are thin rocky loam (2 to 3" in depth) interspersed with talus and bare rock exposures.

h) Cultural resources All site potentials are very low here due to the steep, rocky terrain. PR = 0-1, H = 0-1.

i) Weather conditions during site reconnaissance _____

IV. COMMENTS AND OTHER OBSERVATIONS

Observed from air only. Claim located on steep mountain slopes. No reasonable landing area on or near claim

BLM/MAR gives location only as S33, T6S, R18E, CRM.



WRST Mining Claims CANYON CREEK

General location of Gamma Lode claim as seen from Canyon Creek millsite claim.

-streambanks exposed (rubble, gravel)

-channel disturbance none observed

d) Water quality

-water temperature 40° F
-pH 7.2
-color light brown
-turbidity turbid, from upstream glacial melt

e) Wildlife (observed or evident) no observation made

f) Vegetation shrub tundra on higher portions of claim - some willow on river bar along lower portion of claim.

g) Geology/soils/topography Site situated on Nikilai Greenstone partially covered by quaternary alluvium and glacial moraine; site is level with only the glacial moraine containing soils, consisting of 9" of rocky loam with organic humus.

h) Cultural resources Both the prehistoric and historic site potentials are relatively low with the prehistoric being slightly higher because of the location of the claim along the creek, the bench, and the small tributary on the east side. PR = 2.0, H = 1.0.

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

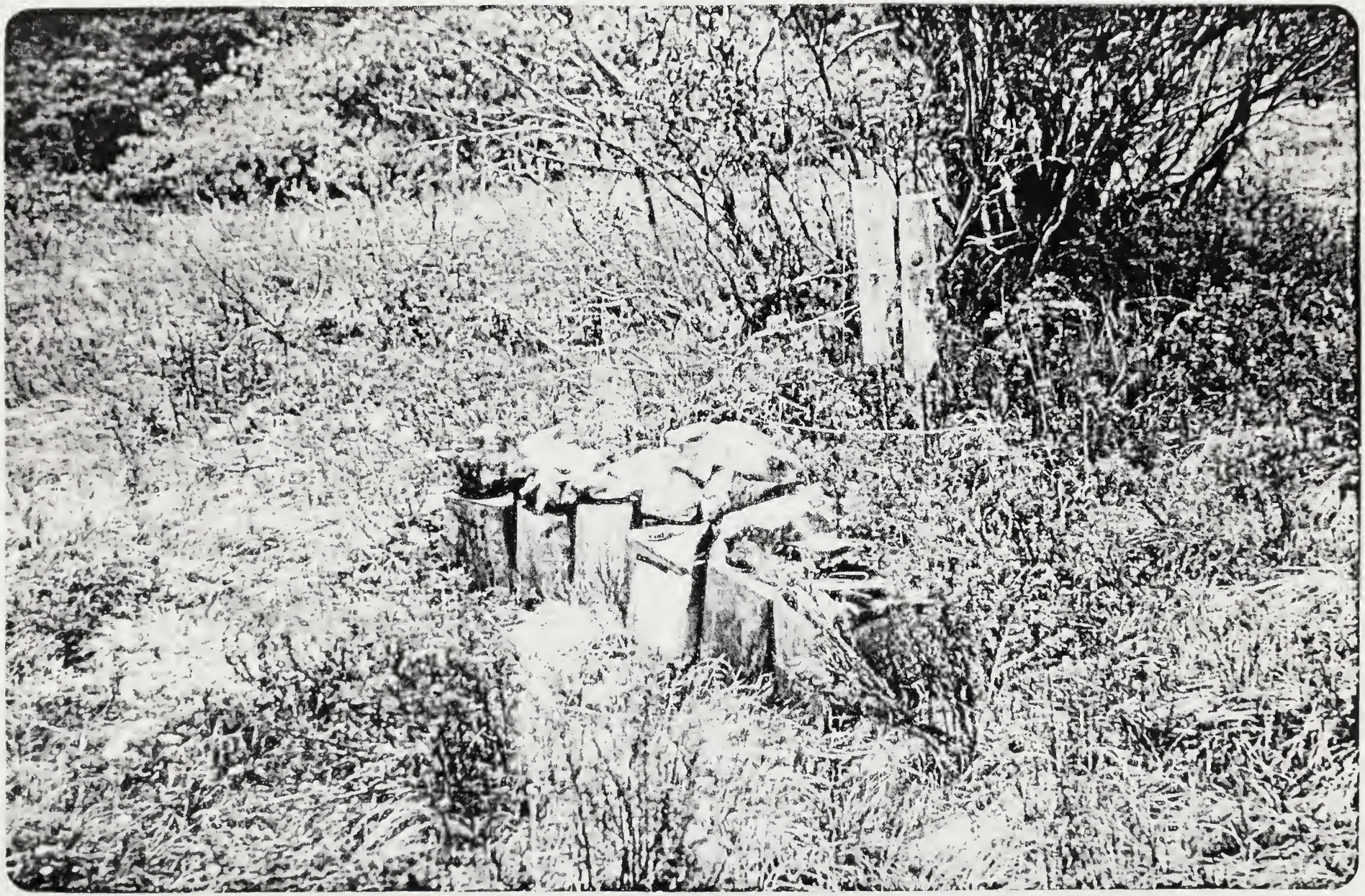
Present status: recently staked.

Previous mining history & operations: five, 5 gal. tins of copper ore were cached on the claim along with extra claim corner markers.

Debris from crashed airplane noted on west side of creek.



General location of Canyon Creek millsite claim.



WRST Mining Claims CANYON CREEK

Ore samples at claim marker, Canyon Creek millsite claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Castle Bluffs

b) Individual claim names Linda Lou II

c) Number of claims 1 acres 20

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S16, T8S, R15E, CRM McCarthy A-5

g) BLM serial number(s) AA025091

h) Owner(s): name/address
James/Linda Marchini
S.R. Box 188
Copper Center, AK 99573

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 6/28/82 from air only

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Chitina River

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no data collected)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Observed Bear Island buffalo herd from afar enroute to claim area.

f) Vegetation Claim area heavily forested with spruce, also willow thickets.

g) Geology/soils/topography Claim area lies over unconsolidated glaciofluvial deposits of Quaternary age along the Chitina Valley; slopes are gently (6° to 9°) facing to the SW; soils are loams of undetermined depth, with a thick layer of accumulated organic matter

h) Cultural resources Low to medium prehistoric and historic site potentials due to location along Chitina River. PR = 2.0, H = 2.0.

i) Weather conditions during site reconnaissance cloudy

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present; one cabin

Conflicting information regarding claim location. Location notice states location as SE 1/4 and SW 1/4, S15, T8S, R15E, CRM, while accompanying map shows location as NE 1/4 S16, T8S, R15E, CRM.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 10 on Rex Gulch, Placer

c) Number of claims 1 acres 18.382

d) Claim type: (placer) lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey # 912

f) Location/USGS quadrangle(s) SW 1/4 S28, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s)

h) Owner(s): name/address name/address
John E. Andrus (original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Need to determine whether claim has been brought to patent. Has apparently been confused with No. 10 Placer on Rex Gulch (MS 1402). Refer to comments on claim inventory prepared for MS 1402 for additional information.

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 7 Above, No. 6 Above, No. 5 Above, and No. 4 Above Placers on Chititu Creek

c) Number of claims 4 acres 56.961

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1087

f) Location/USGS quadrangle(s) E 1/2 S36, T6S, R15E; S31, T6S, R16E; NE 1/4 S6, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A 004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR gives inaccurate claim location information - claim is not located in S36, T6S, R16E.

Claim acreage for Ms 1087 not given in BLM/MAR.

U.S. Patent #899201 also includes mineral surveys 1088, 1089, 1090, 1092, 1095, 1401, 1403, 1404, 1405, and 1406, a total of 35 individual patented placer claims encompassing 545.145 acres according to the respective MSPs. BLM/MAR shows acreage figure of 489.250 acres for U.S. Patent #899201 and a figure of 126.00 acres for Patent #929384. According to MTP, Patent #929384 is a homestead entry.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 10 Above Placer on Chititu Creek

c) Number of claims 1 acres 18.258

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1088

f) Location/USGS quadrangle(s) NW 1/4 S5, T7S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR gives inaccurate claim location information - claim is not located in S9, T7S, R16E.

Claim acreage for MS 1088 not given in BLM/MAR

Claim located April 30, 1902, by an individual named John E. Andrus.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 4 Placer on Rex Gulch

c) Number of claims 1 acres 14.584

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1089

f) Location/USGS quadrangle(s) SE 1/4 S32, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address name/address
John E. Andrus (original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MS 1089 not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 9 Placer on Rex Gulch

c) Number of claims 1 acres 15.376

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1090

f) Location/USGS quadrangle(s) SW 1/4 S28, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address name/address
John E. Andrus (original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MS 1090 not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 12 Placer

c) Number of claims 1 acres 18.303

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 928958
mineral survey # 1091

f) Location/USGS quadrangle(s) E 1/2 S28, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A 005177

h) Owner(s): name/address name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows claim acreage figure of 36.60 acres; MSP shows figure of 18.303 acres.

Claim located on Rex Creek.

BLM/MAR does not show claim name.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 2 on White Gulch Placer

c) Number of claims 1 acres 16.208

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1092

f) Location/USGS quadrangle(s) SE 1/4 S5, T7S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR gives inaccurate claim location information. Claim is not located in S9, T7S, R16E.

Claim acreage for MS 1092 not given in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 2 Above, No. 1 Above, Discovery, No. 1 Below, and No. 2 Below Placers on Chititu Creek

c) Number of claims 5 acres 63.655

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1095

f) Location/USGS quadrangle(s) W 1/2 S25, N 1/2 S36, T6S, R15E, CRM McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim acreage for MS 1095 not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 3 Above Placer

c) Number of claims 1 acres 16.527

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1401

f) Location/USGS quadrangle(s) NE 1/4 S36, T6S, R15E, CRM
McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim acreage for MS 1401 not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT- WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 10 and No. 11 Placers on Rex Gulch

c) Number of claims 2 acres 38.353

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 928958
mineral survey # 1402

f) Location/USGS quadrangle(s) S 1/2 S28, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s)

h) Owner(s): name/address name/address
John E. Andrus (original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

U.S. Patent #928958 also includes MS 1091 (see BLM serial #A005177). MS 1402 not listed in BLM/MAR.

MTP shows No. 10 Placer on Rex Gulch as MS 912 consisting of 18.382 acres and No. 11 Placer on Rex Gulch as MS 1402 consisting of 38.353 acres. According to MSP, MS 912 pertains to a claim known as "No. 10 on Rex Gulch, Placer," located on April 30, 1902, by John E. Andrus and having a high degree of overlap with "No. 10 Placer on Rex Gulch" (MS 1402), also located on April 30, 1902, also by John E. Andrus. MS 912 is not listed in BLM/MAR - need to determine whether it is patented ground.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 5, No. 6, No. 7, and No. 8 Placers on Rex Gulch

c) Number of claims 4 acres 63.375

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1403

f) Location/USGS quadrangle(s) SW 1/4 S28, SE 1/4 S29, E 1/2 S32, NW 1/4 S33, T6S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MS 1403 not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 3, No. 4, No. 5, No. 6, No. 7, and No. 8 Placers on White Gulch

c) Number of claims 6 acres 94.795

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1404

f) Location/USGS quadrangle(s) SW 1/4 S4, SE 1/4 S5, S9, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim acreage for MS 1404 not listed in BLM/MAR. BLM/MAR shows location only as S9, T7S, R16E.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 1 on Rex Gulch, No. 2 on Rex Gulch, No. 3 on Rex Gulch, No. 11 Above on Chititu Creek, No. 1 White Gulch, Baldy Bench, Schlosser Bench, Rambler Bench, Elkins Bench, Rambler Bench No. 2, and Powell Bench Placers.

c) Number of claims 11 acres 148.473

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1405

f) Location/USGS quadrangle(s) S 1/2 S32, T6S, R16E; S5, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows claim location only as S5, T7S, R16E and does not give claim acreage for MS 1405.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names No. 8 Above and No. 9 Above Placers on Chititu Creek

c) Number of claims 2 acres 36.933

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 899201
mineral survey # 1406

f) Location/USGS quadrangle(s) NW 1/4 S5, NE 1/4 S6, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A004580

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows claim location only as S6, T7S, R16E and does not give acreage for MS 1406.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Rex Gulch Bench B Association Placer

c) Number of claims 1 acres 35.597

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 947355
mineral survey # 1454

f) Location/USGS quadrangle(s) SE 1/4 S32, T6S, R16E; NW 1/4 S5, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A 005513

h) Owner(s): name/address
John E. Andrus
620 Alaska Building
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MSP shows claim acreage figure of 35.597 acres; BLM/MAR shows 35.6 acres.

Claim located in Rex Creek drainage.

BLM/MAR does not show claim name. BLM/MAR shows location only as S5, T7S, R16E.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Edison (Association Claim) Placer

c) Number of claims 1 acres 123.319

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 936706
mineral survey # 1456

f) Location/USGS quadrangle(s) S27, E 1/2 S28, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A 005519

h) Owner(s): name/address
E.P. Moorhead
c/o R.L.H. Marshall
McCarthy via Chitina, AK 99566

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim located on Rex Creek.

BLM/MAR shows claim acreage figure of 123.32 acres. MSP shows figure of 123.319 acres.

BLM/MAR does not show claim name. BLM/MAR shows location only as S27, T6S, R16E.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Cole Bench Placer

c) Number of claims 1 acres 14.745

d) Claim type: (placer) lode/millsite/other _____

e) (Patented) Unpatented U.S. patent # 938197
mineral survey # 1457

f) Location/USGS quadrangle(s) NW 1/4 S5, NE 1/4 S6, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A 005450

h) Owner(s): name/address
Cyril F.M. Cole
McCarthy via Chitina, AK
99655

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim located on Chititu Creek.

BLM/MAR shows location only as S6, T7S, R16E and gives claim acreage figure of 14.75 acres. MSP shows 14.745 acres.

Claim located in Rex Creek drainage.

BLM/MAR does not show claim name.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Nugget No. 1 and the Nugget Nos. 2 and 3 Placers

c) Number of claims 3 acres 46.357

d) Claim type: (placer) lode/millsite/other

e) (Patented)/Unpatented U.S. patent # 1022930
mineral survey # 1467

f) Location/USGS quadrangle(s) E 1/2 S32, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) A 006814

h) Owner(s): name/address name/address
James McTanock and Carl Anderson
c/o Donohoe and Dimond
Cordova, AK 99574

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR does not list claim names and shows claim acreage figure of 60.0 acres; MSP shows figure of 46.357 acres.

Claim located in Rex Creek drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Rex Gulch Bench Claim No. 1, Rex Gulch Bench No. 2, White Gulch Bench No. 1, White Gulch Bench Claim No. 2, Ruth Mining Claim, Mosquito Bench and Jolly Gulch Bench Claim No. 1 Placers

c) Number of claims 7 acres 165.00

d) Claim type: (placer)/lode/millsite/other

e) (Patented)/Unpatented U.S. patent # 1005746
mineral survey # 1473

f) Location/USGS quadrangle(s) E 1/2 S32, T6S, R16E; W 1/2 S4, E 1/2 S5, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A006230

h) Owner(s): name/address
Hamlin F. Andrus et al
620 Alaska Building
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows location as S32, T6S, R16E and S9, T7S, R16E, CRM.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Jolly Association Placer

c) Number of claims 1 acres 139.668

d) Claim type: (placer)/lode/millsite/other

e) (Patented)/Unpatented U.S. patent # 1005747
mineral survey # 1473

f) Location/USGS quadrangle(s) S 1/2 S4, N 1/2 S9, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s)

h) Owner(s): name/address Maurice D. Leehey (original claimant) name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Powell Bench Claim, Glacier Placer No. 1, Glacier Placer No. 2, and "Bertha L" Claim

c) Number of claims 4 acres 75.733

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 1053385
mineral survey # 1534

f) Location/USGS quadrangle(s) N 1/2 S26, NE 1/4 S27, T6S, R16E, CRM McCarthy B-4, B-5

g) BLM serial number(s) A 007342

h) Owner(s): name/address
Bertha R. Jones
c/o Donohoe and Dimond
General Delivery
Cordova, AK 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim located on upper Rex Creek.

HI lists claim acreage figure of 57.461 acres; BLM/MAR shows 75.730 acres; MSP shows 75.733 acres.

BLM/MAR does not list Glacier Placer No. 2 claim name and shows location only as S26, T6S, R16E.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Grimey Gulch Placer

c) Number of claims 1 acres 17.309

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey # 1560

f) Location/USGS quadrangle(s) SE 1/4 S31, T6S, R16E; NE 1/4 S6, T7S, R16E, CRM McCarthy B-5

g) BLM serial number(s) AA016485

h) Owner(s): name/address

Beverly A. Carlson
2401 Chiligan Ave.
Anchorage, AK 99503

name/address

Vincent J. Doran, Jr.
3811 Knik Avenue
Anchorage, AK 99503

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR shows location only as S31, T6S, R16E, CRM.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Chititu

b) Individual claim names Gruby Gulch Placer

c) Number of claims 1 acres 18.4 (approximately)

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent # mineral survey #

f) Location/USGS quadrangle(s) see comments

g) BLM serial number(s) AA016486

h) Owner(s): name/address

Vincent J. Doran, Jr.
3811 Knik Avenue
Anchorage, AK 99503

name/address

Beverly A. Carlson
2401 Chiligan Avenue
Anchorage, AK 99503

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Claim location appears to correspond closely with MS 912 located in SW 1/4 S28, T6S, R16E, CRM. BLM/MAR shows location as S32, 33, T6S, R16E, CRM.

CLAIM GROUP NAME - Chititu

USGS QUADRANGLE(S) - McCarthy B-4 and B-5

GENERAL DESCRIPTION OF SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Chititu Creek

c) Hydrology/stream characteristics (Chititu Creek/White Creek/Rex Creek)

-estimated discharge 210 cfs/80 cfs/34 cfs
-average stream depth 18 inches
-average stream width 20 feet
-average active channel width 25 feet
-average floodplain width 100 feet
-stream length 7 miles/4 miles/6 miles
-stream gradient 1°-2°/1°-2°/5°
-streambed material Unable to determine (turbidity/boulders/ unable to determine (due to turbidity)
-streambanks Exposed (rubble & boulders) and forested with overhanging banks/similar to Chititu Cr./exposed (rubble & boulders)
-channel disturbance

d) Water quality (Chititu Creek/White Creek/Rex Creek, sampled at confluence)

-water temperature
-pH
-color Light brown-gray/light brown-gray/light brown
-turbidity All three streams highly turbid. White Creek appeared to have a lesser concentration of suspended sediments relative to Rex and Chititu Creeks.

e) Wildlife (observed or evident) Numerous Diptera Larvae found attached to rock in White Creek. Appeared to be same species found in Hidden Creek (refer to data for Hidden Creek Claim group). Wolverine (alone, of undetermined sex) was observed in the headwaters of Rex Creek several days prior to reconnaissance.

f) Vegetation Willow, balsom poplar along stream channels. Spruce hardwood forest on better drained slopes adjacent to streams; heavy shrub understory.

g) Geology/soils/topography Bedrock of the Chititu area is comprised mainly of mudstone, siltstone, shale and impure limestone of the Cretaceous Chititu formation, overlain by unconsolidated glacial sediments. Cretaceous rocks are exposed in the drainage channels of Rex, White, and Chititu Creeks. Surficial deposits along the creek drainages are composed of coarse to fine gravels covered in places by thin organic-rich soil. Slopes range from 11° to 24°

h) Cultural resources This group of claims along Rex, White, and Chititu Creeks has high cultural resources values. The prehistoric site potentials are low to medium because of disturbances from mining activities. The potential for historical archeology and historic sites is very high. (continued under comments)

i) Weather conditions during site reconnaissance Partly cloudy, mild.

COMMENTS

h) This area has been actively mined since 1899 to the present time. It was a central part of the Nizina Mining District. The historic mining camp of Chititu is located in this claim group (AO04580, MS1405). This whole claim group appears to warrant study for inclusion on the National Register of Historic Places. It definitely has regional and possibly national significance. PR = 2.5, H = 5.0



WRST Mining Claims CHITITU

Aerial view of Chititu Creek below Chititu Camp.



WRST Mining Claims

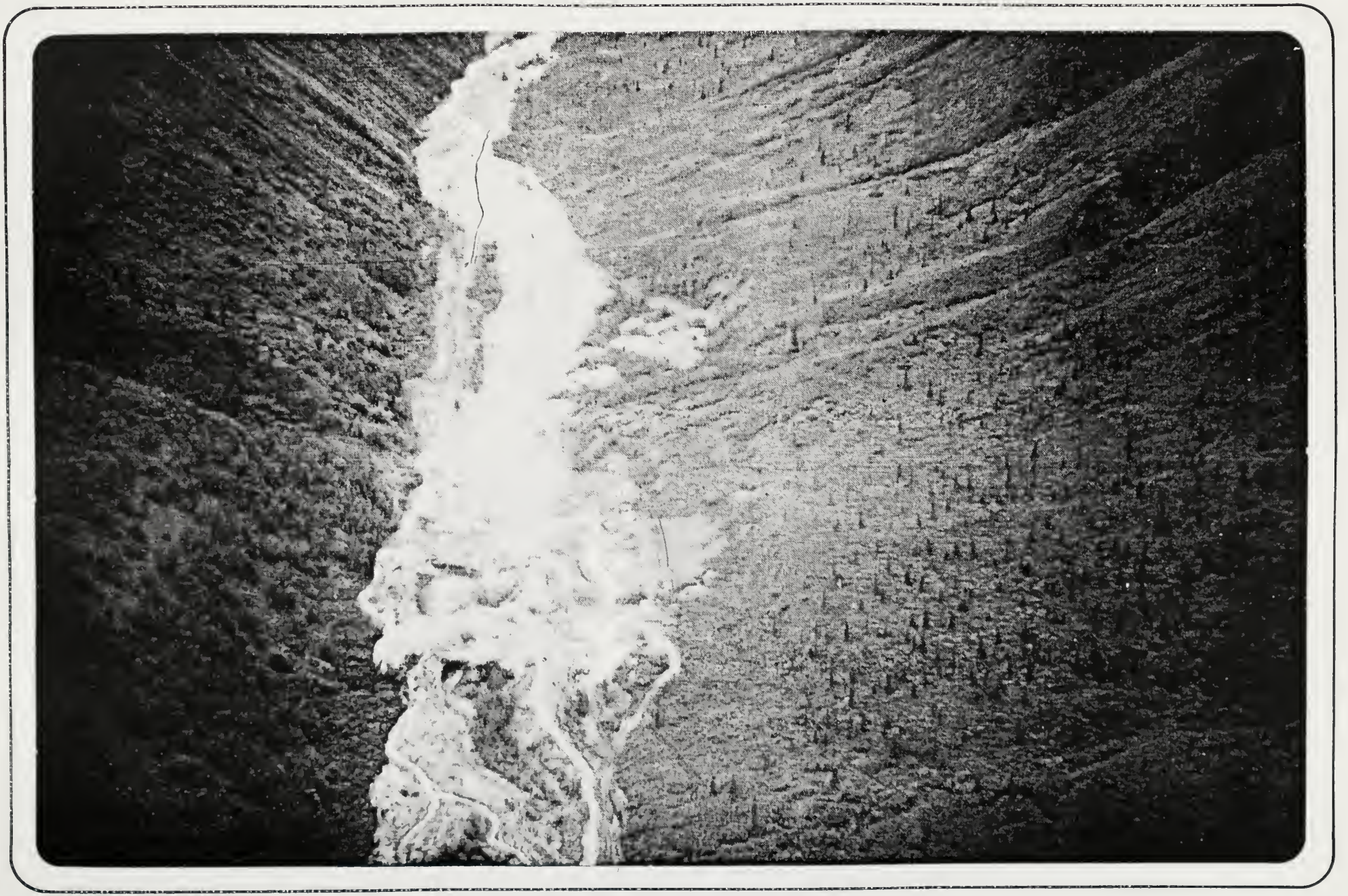
CHITITU

Ground view of Chititu Creek at Chititu Camp.



WRST Mining Claims CHITITU

Aerial view of Rex Creek above Chititu Camp.



WRST Mining Claims CHITITU

Aerial view of active placer operation on Rex Creek (Section 28, T6S, R16E, CRM).



WRST Mining Claims

CHITITU

Aerial view of White Creek above Chititu Camp.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Clear Creek

b) Individual claim names Alpha, Beta, Ophir, Berdena, Bertha, Cleo, Taft, Teddy, Ray, Madison, Cairo, Ramshorn, Chicken, Borinite, Keno, Buck, Irwin, Togo, Anvil, Monroe, Clyde, Munro, Westover, Star, Lida, Alma, Ada, Colorado, (cont. under comments)

c) Number of claims 58 acres 1165.108

d) Claim type: placer/(lode)/millsite/other

e) (Patented)/Unpatented U.S. patent # 541521
mineral survey # 918

f) Location/USGS quadrangle(s) E 1/2 S12, T3S, R8E; S7, S 1/2 S8, S17, S18, T3S, R9E, CRM McCarthy C-8

g) BLM serial number(s) A 001468

h) Owner(s): name/address
Great Northern Development Co.
General Delivery
Chitina, AK 99566

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/3/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Clear Creek of Kuskulana River

c) Hydrology/stream characteristics (tributary from west/tributary from north)
-estimated discharge 18 cfs / 18 cfs
-average stream depth 9"/9"
-average stream width 6'/8'
-average active channel width 5-20'/8-30'
-average floodplain width 50' at confluence; cuts bedrock upstream/same
-stream length 1.0 mi/1.5 mi
-stream gradient 8-10°/8-10°
-streambed material gravels, 2-3" average diameter; some cobbles, 6-10' average diameter

-streambanks exposed (gravel, rubble); willows along stream in some sections.
-channel disturbance non/adit 1 mile upstream from confluence

d) Water quality

-water temperature 38°F/39°F
-pH 8.1/7.7
-color clear/clear
-turbidity not turbid-clear snowmelt stream/same

e) Wildlife (observed or evident) Bear diggings, Moose scat., Arctic ground squirrel burrows, game trails on valley walls, caribou and moose antlers at camp, Dall sheep sighted at head of valley. Observed three mayfly nymph specimens (Ephemeroptera) underneath rock in stream (same species).

f) Vegetation Dry tundra on valley slopes, exposed rock at higher elevations. Willow shrub in valley floor. Shrub tundra on benches near stream.

g) Geology/soils/topography Nikolai Greenstone on east half; west half composed of Chitistone & Nizina Limestone, and carbonates and shales of the McCarthy formation; N-S fault cuts through middle of claim area; claim straddles the juncture of two drainages, one from the west and one from the north. Soils are rocky clay loam, 6 to 12" thick

h) Cultural resources This claim group has high cultural values. The prehistoric site potential is a low medium. It is easily accessible and a good hunting territory. The historic potential is high. This area is part of the historic Kuskulana Mining District. There are numerous relics from early (1910) mining
(continued under comments)

i) Weather conditions during site reconnaissance clear and sunny with light winds, temperature of 72° F.

IV. COMMENTS AND OTHER OBSERVATIONS

III(h). here. Blacksmith tools, rails, and ore cars, etc., are lying aroung. This site should be evaluated for nomination to the National Register of Historic Places. PR = 2.0, H = 4.0+.

Butte, California, Idaho, Shamrock, Columbia, Ruth, May, Theo, Nancy, Salem, Kent, Troy, Helena, Borden, Arcansaw, Cook-ko, Blane, Alice, Ethel, Porcupine, Maud, Copper Queen, Pyrites, Anaconda, Copper King, Humboldt, Jessie, Venetia, Solomon, and Eureka Lodes.

Threatened by Geneva-Pacific.

Note old mine area = RR w/one car, blacksmith area w/tools, anvil Pat 1910 Possible Nat. Register quality = needs expert evaluation.

BLM/MAR gives inaccurate claim acreage figure of 738.0 acres for U.S. Patent #541521. According to BLM/MAR, A001468 also encompasses MS 873 (U.S. Patent #300956, 223.0 acres surveyed). MS 873 pertains to the MacDougall Creek Lodes also listed in BLM/MAR under A00486.

Location as given for MS 918 appears to be inaccurate based on discrepancies between MSP and MTP. Proper location would be approximately 2000 feet due east. BLM/MAR shows location as S12, T3S, R8E; S8, 17, 18, 34, and 35, T3S, R9E, CRM.

No claim names listed in BLM/MAR.

Several small pools present in Clear Creek; observed one pool approximately 5 feet wide and 16-18" deep.

NPS action: permit for exploration drilling.

Present status: currently not active.

Extent of 1982 mining season: no activity as of this date.

Equipment present: historic equipment from early 1900's mining era.

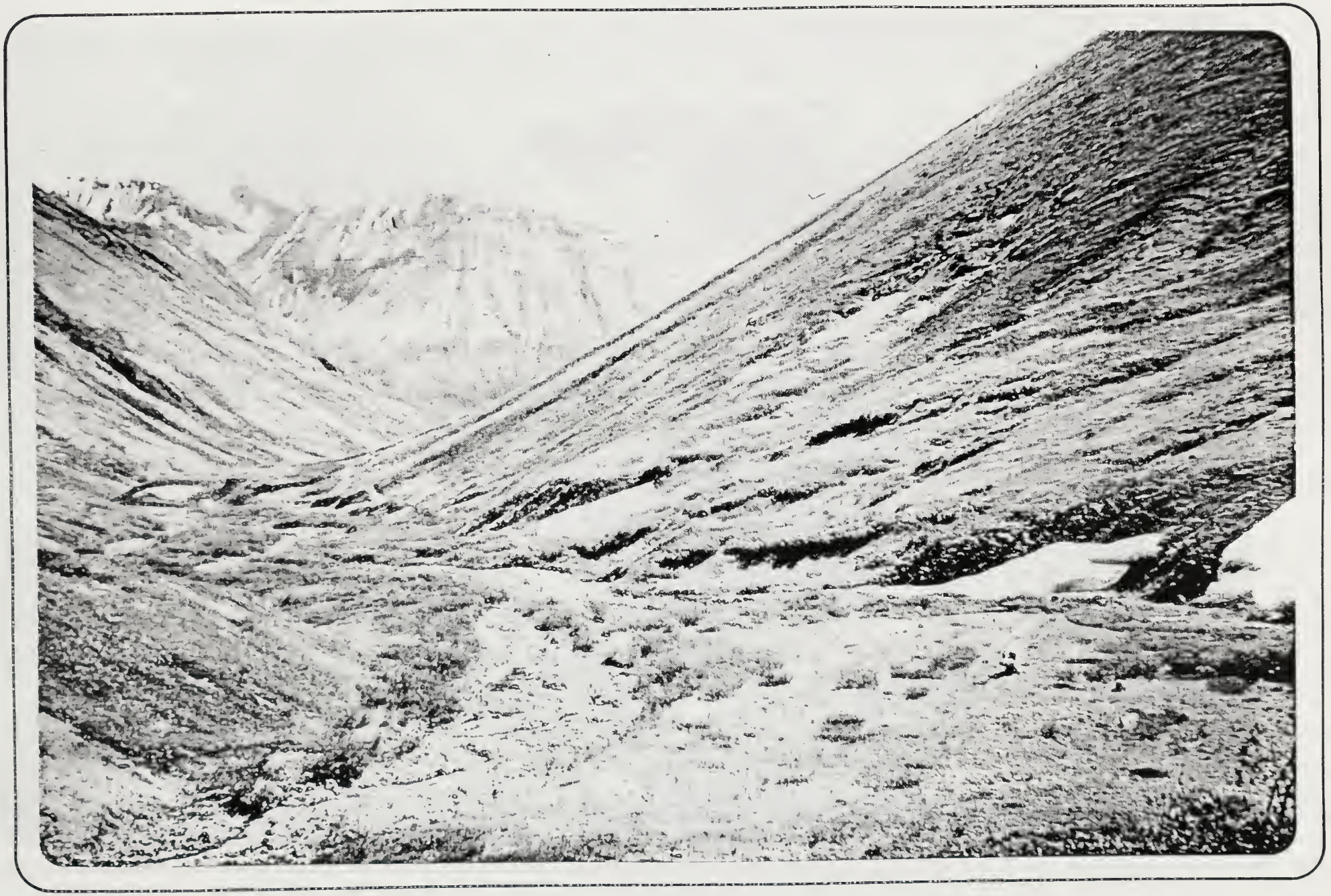
Access/roads: road/trail from kuskulana River Road to head of basin. Currently only foot access feasible along the old trail.

Previous mining history and operations: A significant mining operation occurred on these claims in the past. Remains of old generator house and equipment with patent dates of 1890 and 1907. Large steel drum-cache; most mining activity appears to have occured in the easterly fork of Clear Creek. Addits and out buildings located in head of basin.

Camp at fork in creek contains a barrel cache, some containing fluids of unknown composition. East fork of Clear Creek contains scattered debris from upstream mining activity. Several smashed barrels noted in stream. Probability of toxic fluids draining into creek (at one time or another) may be low but should be investigated further especially in upper reaches of the east fork.

Claim area located in native selection area (Doyon)

NOTES



View of Clear Creek area and MS 918 looking south.



WRST Mining Claims

CLEAR CREEK

Aerial view of Clear Creek drainage and mining claims looking north.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Contact Gulch

b) Individual claim names Lucky Seven Hardrock #1-7

c) Number of claims 7 acres 144.63

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S27, T4S, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA 030184-30190

h) Owner(s): name/address
Geneva Pacific Corp.
1807 Glenview Rd.
Glenview, IL 60025

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitistone River

b) Drainage basin Contact Gulch

c) Hydrology/stream characteristics (Contact Gulch, 1/4 mile from Chitistone R.)

-estimated discharge 9 cfs
-average stream depth 9 inches
-average stream width 6 feet
-average active channel width 10-20 feet
-average floodplain width 80 feet
-stream length 2.4 mi from claim to source
-stream gradient 9°
-streambed material boulder and rubble

-streambanks exposed (rubble, boulder) and forested overhanging banks (alder, balsam, poplar)
-channel disturbance none observed

d) Water quality

-water temperature 47° F
-pH
-color medium brown
-turbidity moderate

e) Wildlife (observed or evident) no wildlife species or signs observed during site reconnaissance

f) Vegetation Area covered by exposed rock, alpine tundra at higher elevations; some shrub tundra; spruce/hardwood forest at lower levels (white spurce, alder, balsam poplar)

g) Geology/soils/topography Nikolai Greenstone occupies the entire claim area, on rugged S and E facing slopes along Contact Gulch Claim area ranges from 2,500 to 5,000 feet, with slopes of 20° to 60°. Soils are 3 to 6 inch-deep rocky loams in discontinuous patches among bare rock exposures.

h) Cultural resources This claim group has a low prehistoric site potential because it is in a steep, narrow gorge. The historic site potential is a little higher due to the proximity of the Goat Trail. PR = 1.0, H = 2.0.

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

Unable to confirm location of claims on ground. April 1982 BLM/MAR shows location of claims in S27, T4S, R17E, CRM; November 1982 BLM/MAR shows location of claims in S31, T4S, R17E, CRM.



WRST Mining Claims CONTACT GULCH

Aerial view of Contact Gulch and general location of Lucky Seven Hardrock claims.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Contact Lode

b) Individual claim names Contact Nos. 1, 2,3,4,5,6,7, and 8, Phillips, Eureka, Nero, Donohoe, Barrett, Burgin, Blomquist, and Grizley Lode Mining Claims

c) Number of claims 16 acres 276.797

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 954806
mineral survey # 1464

f) Location/USGS quadrangle(s) S2, S12, T4S, R13E; S7, T4S, R14E, CRM McCarthy C-6

g) BLM serial number(s) A005995

h) Owner(s): name/address
Dan Creek Hydraulic Mining Co.
c/o Thomas Scott
Bank of Alaska
Cordova, AK 99574

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Kennicott Glacier/Root Glacier

c) Hydrology/stream characteristics

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance none observed in valley

d) Water quality Temperature and pH measured at an inlet on north side of largest lake next to claim group.
-water temperature 47°F
-pH 8.1
-color clear
-turbidity lake water turbid, inlet clear

e) Wildlife (observed or evident) Northern phalarope on lake and along shore areas. White-crowned sparrow

f) Vegetation Potentilla, dwarf birch, crowberry, willows, equisetum (shrub tundra)

g) Geology/soils/topography Glacial sand and silt in valley bottom underlain by Nikolai Greenstone; contact with Chitistone Limestone occurs on slope 2,500 feet above valley bottom; slope faces southwest with 35-40° inclination. Valley soils are deep (1 to 2 feet thick) organic, saturated, hummocky muskeg.

h) Cultural resources This area has recently become deglaciated so the cultural resources potential is low. The terrain on Donoho Peak is steep and bare. Historic potential is higher due to possible, long-term mining activity. PR = 1.0, H = 1.5+.

i) Weather conditions during site reconnaissance sunny and relatively warm

IV. COMMENTS AND OTHER OBSERVATIONS

Uncertain whether this claim is located properly. Suspect proper location is on upper slopes along greenstone-limestone contact in closer proximity to Regal Mine. This is further reaffirmed by the fact that original claimant was the Regal Mines Company. Discrepancies exist between the MTP and USGS McCarthy C-6 quadrangle (1:63,360 Series) with respect to locations of two unnamed lakes south of Donoho Peak.

No claim names listed in BLM/MAR.

BLM/MAR gives erroneous claim acreage figure of 266.0 acres. Claim location information is also erroneous - given as S2, 11, 12, 13, T4S, R13E, CRM.

NOTES



WRST Mining Claims

CONTACT LODES

View to northwest of Kennicott Glacier from Contact Lode claim group.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Copper Creek

b) Individual claim names Discovery on Copper Creek, and Nos. 1 and 2 on Idaho Gulch Placer Claims

c) Number of claims 3 acres 55.048

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 374288
mineral survey # 949

f) Location/USGS quadrangle(s) SW 1/4 S12, NW 1/4 S13, T6S, R16E, CRM McCarthy B-4

g) BLM serial number(s) A 001498

h) Owner(s): name/address
Dan Creek Mining Co.
817 Alaska Building
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Idaho Gulch of Copper Creek

c) Hydrology/stream characteristics (Copper Creek, 1/4 mile upstream from Idaho Gulch; no observations obtained from Idaho Gulch)
-estimated discharge 100 cfs
-average stream depth 15 inches
-average stream width 20 feet
-average active channel width 40 feet
-average floodplain width 250 feet
-stream length 4.8 miles to source of Copper Creek; Idaho Gulch 1.5 miles
-stream gradient 2°; 8° for Idaho Gulch
-streambed material

-streambanks

-channel disturbance Much movement of streambed gravels in the past by hydraulic giants

d) Water quality

-water temperature 40°F
-pH
-color light green to gray
-turbidity moderate

e) Wildlife (observed or evident) No wildlife species or signs observed from aircraft

f) Vegetation Mixed shrub community with scattered spruce. Active river bars have sparse cover of willow/alder.

g) Geology/soils/topography Claim area includes Quaternary stream gravels resting on impure limestone and shale of the lower member of the McCarthy Formation (Jurassic age); situated in a N-S drainage with 20° to 30° E and W facing slopes; soils moderately deep, clay loam with organic matter in upper portion.

h) Cultural resources Good prehistoric site potential along stream and benches but there are disturbances from mining activities. Good historic site potentials due to historic mining activity. PR = 2.0, H = 2.8+.

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

Location shown only as S12, T6S, R16E, CRM according to BLM/MAR. No claim names given in BLM report; acreage reported in BLM report is 55.05 acres.



WRST Mining Claims

COPPER CREEK

General location of MS 949 at confluence of Idaho Gulch and Copper Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Copper Creek

b) Individual claim names Copper Creek Placer No. 1 and No. 2

c) Number of claims 2 acres 40.00

d) Claim type: (placer)/lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SE 1/4 S2, NE L/4 S11, W 1/2 S12, T6S, R16E, CRM McCarthy B-4

g) BLM serial number(s) AA 024502 and 024503

h) Owner(s): name/address
Doran, Pat and Vincent J. Jr.
3811 Knik Ave.
Anchorage, AK 99503

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Copper Creek of Dan Creek

c) Hydrology/stream characteristics (for Copper Creek, 1/2 mile upstream from upper end of No. 2; not possible to obtain observations further downstream)
-estimated discharge 100 cfs
-average stream depth 15 inches
-average stream width 20 feet
-average active channel width 40 feet
-average floodplain width 250 feet
-stream length 5 miles from claim area to source
-stream gradient 2°
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature 40°F
-pH
-color light green to gray
-turbidity moderate

e) Wildlife (observed or evident) no wildlife species or signs observed from aircraft

f) Vegetation Inner portion of gorge mainly unvegetated talus slopes with scattered areas of willow/alder shrubs. Scattered spruce on upper slopes.

g) Geology/soils/topography Stream cuts bedrock of lower McCarthy formation (impure limestone and shale), Chitistone limestone, and Nikilai Greenstone; soils on vegetated benches and drainage slopes are clay loam, with organic matter in upper horizon; Stream drainage flows in a NW direction with a 1° to 2° gradient.

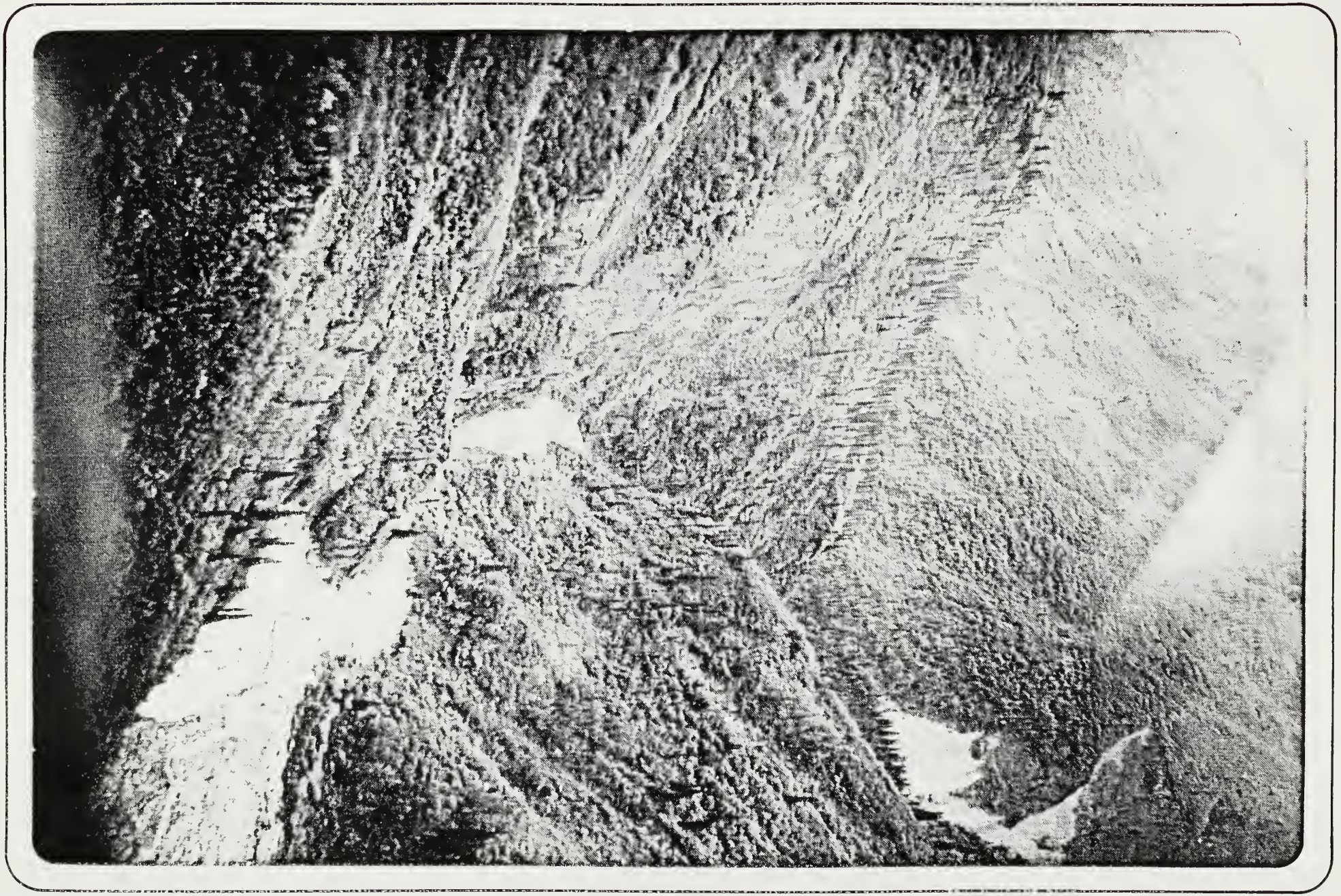
h) Cultural resources The prehistoric site potential is low because of steep terrain. Historic potential is medium-level because this is part of the historic Nizina Mining District. PR = 1.5, H = 2.5.

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

Presently inactive, however claim has undergone hydraulic mining in the past.

According to sketch map accompanying claim location notice, Copper Creek Placcer No. 1 is located in S2, 11, and 12, T6S R16E. BLM/MAR shows location only as S11 and 12.



General location of Copper Creek Placers Nos. 1 and 2 along Copper Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Copper Creek

b) Individual claim names King #1-8

c) Number of claims 8 acres 160.00

d) Claim type: (placer)/lode/millsite/other

e) Patented/(Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S12, N 1/2 S13, T6S, R16E; S18, T6S, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA 024636-24643

h) Owner(s): name/address
Russell Welborn, Jo King, Harley King
McCarthy via
Glenallen, AK 99588

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Copper Creek of Dan Creek

c) Hydrology/stream characteristics (east end of claim group/west end of claim group)

-estimated discharge 68 cfs/100 cfs
-average stream depth 15 inches/15 inches
-average stream width 12 feet/20 feet
-average active channel width 10 to 15 feet/40 feet
-average floodplain width 150 feet/250 feet
-stream length 3.7 miles/4.8 miles
-stream gradient 3°/2°
-streambed material unable to determine because of stream turbidity. Boulders visible in stream channel.

-streambanks exposed (rubble, boulders)

-channel disturbance Entire length of claim showed past movement of streambed sediments with hydraulic giants

d) Water quality

-water temperature 41° F/40° F
-pH -/-
-color light gray to green/light gray to green
-turbidity slight/moderate

e) Wildlife (observed or evident) One species of stream invertebrate observed-fly larvae (diptera), similar to species observed in Hidden Creek.

f) Vegetation Willows in floodplain. Spruce, willow, balsam poplar on slopes back from river

g) Geology/soils/topography Streambed is Quaternary alluvium overlying older Quaternary glacial moraine; soils 12" deep rocky loam rich in organic matter; stream bed has gradient of 2° to 3° with level valley bottom from 150 to 250 feet in width.

h) Cultural resources This claim group has a good environment but a low potential for prehistoric sites because it has been disturbed by mining activities. The historic potential is medium to high because of remains of the early mining activities, including buildings and equipment. PR = 1.0, H = 3.0+.

i) Weather conditions during site reconnaissance Cloudy and cool.

IV. COMMENTS AND OTHER OBSERVATIONS

Present status - currently unactive.

Obvious impacts - extensive channel modification by historic hydraulic mining around the turn of the century.

Equipment present - hydraulic giants.

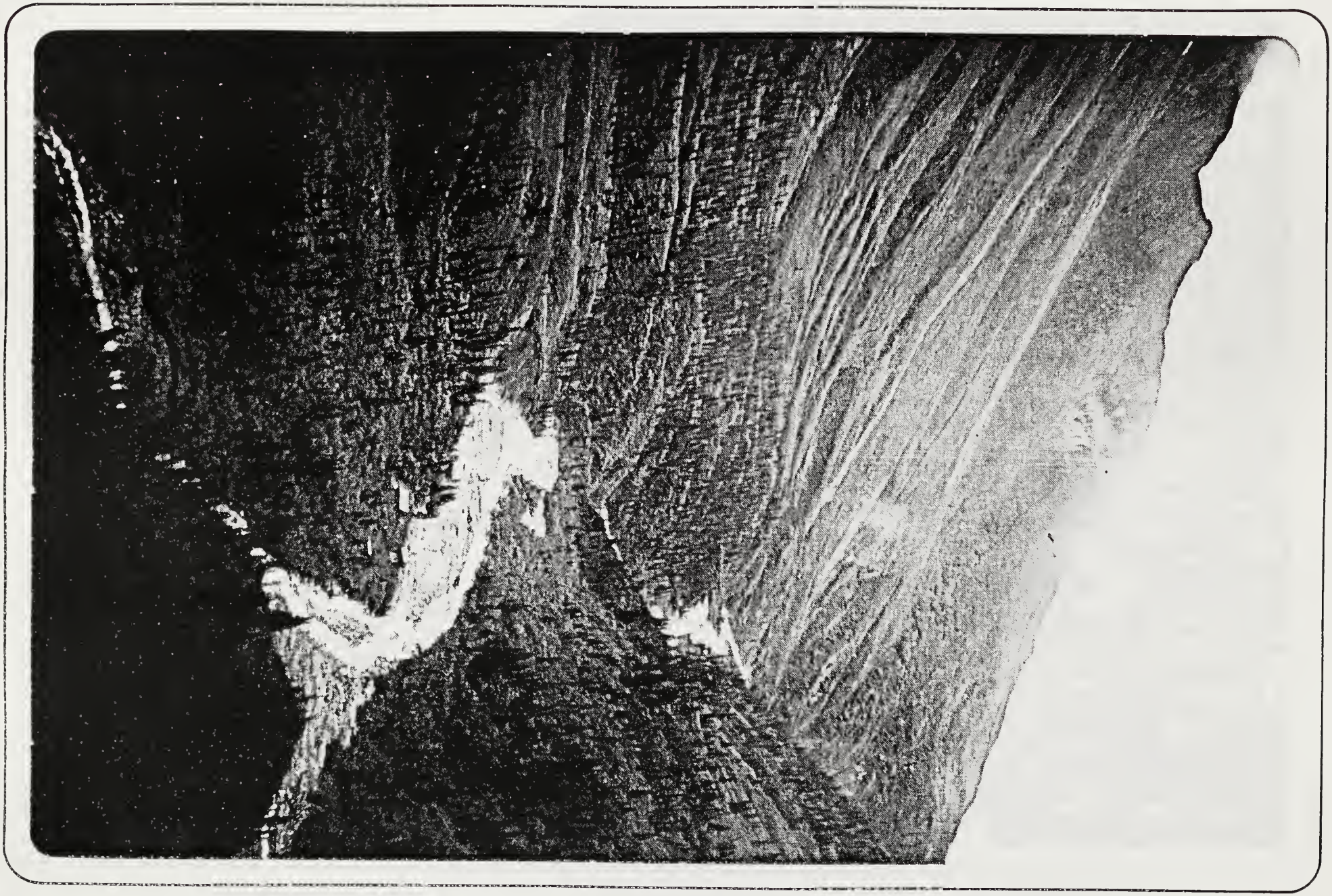
Buildings present & description - Cabin, cache, blacksmith shop plus various types of mining equipment-cabin is presently occupied.

Airstrip present & location - Dan Creek airstrip 4 miles west.

Previous mining history and operations - location of significant past placer mining activity. One of the first areas to undergo extensive hydraulic mining.

BLM/MAR shows claims located in S13, 19, T6S, R16E, CRM.

NOTES



WRST Mining Claims

COPPER CREEK

Aerial view of Texas Creek and Copper Creek confluence showing general location of King #1-8 placer claims.



WRST Mining Claims COPPER CREEK

Ground view of King #1-8 placer claims on Copper Creek looking upstream.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Copper Creek (Kotsina)

b) Individual claim names Mullen, Angle, and Sport Lode Claims

c) Number of claims 3 acres 56.057

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 806021
mineral survey # 904

f) Location/USGS quadrangle(s) S 1/2 S13, N 1/2 S24, T2S, R7E, CRM
Valdez C-1

g) BLM serial number(s) A 001699

h) Owner(s): name/address
Galena Bay Mining Co.
General Delivery
Valdez, AK 99686

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Kotsina River

b) Drainage basin Copper Creek

c) Hydrology/stream characteristics

-estimated discharge 2 cfs
-average stream depth 9 inches
-average stream width 4 1/2 feet
-average active channel width 25-30 feet
-average floodplain width 80-90 feet
-stream length
-stream gradient
-streambed material Variety of materials; approx. 2 inch diameter gravels to boulders.

-streambanks exposed (rubble), and shrub (willow) and overhanging (moss and willow)
-channel disturbance none observed

d) Water quality

-water temperature 40° F
-pH 7.6
-color clear
-turbidity none

e) Wildlife (observed or evident) Ground squirrel burrows, white-crowned sparrow.

f) Vegetation Most of area covered by low to medium heavy shrub tundra except along the immediate stream courses where heavy willow and alder thicket occur.

g) Geology/soils/topography Nikolai Greenstone near contact with Chitina Limestone; claim located on east facing slope of 5° to 30° at west side of Copper Creek drainage. Soils are deep rocky clay loam, supporting dense shrub and alpine vegetation.

h) Cultural resources The prehistoric site potential is low up the creek but higher near the confluence with the Kotsina River. This claim group, however, has great potential as a historic site. The Mullen claim and mine, first active in 1908, lies on this claim and there are abundant remains present (at least six structures). (continued under comments)

i) Weather conditions during site reconnaissance light to moderate winds and partly cloudy.

IV. COMMENTS AND OTHER OBSERVATIONS

III(h). A small mining town, named Coppertown, was located at the confluence with the Kotsina River. This area has a definite National Register potential and should be further evaluated. PR = 1.0+, H = 4.5.

Copper mineralization (malachite bornite, chalcocite, covellite, and chalcopyrite found in place at old mine workings).

Small pools created by boulders present in stream channel.

Buildings present & description - Present at confluence. Major camp consisting of 4 major structures - one still standing - one large structure located at mine mouth - 4 adits located - most cabins of the tent platform type including bunkhouse with 22 bunks.

No claim names listed in BLM/MAR.

BLM/MAR shows claim acreage as 56.060 acres.

Present status: Presently inactive.

Access/roads: Kotsina River Rd. located miles north of claim area.

Site waste disposal: old barrel cache and trash dump located between Middle Fork and Copper Creek near camp.

Previous mining history and operations: Copper Creek has had a major mining operation on it in the past. Several adits noticed up both forks of the creek with major camp at confluence. Oldest patent date noted on equipment is 1923.

Major barrel cache located on claims may present a hazard. 60-100 barrels located in area of the older camp - some marked as "refined glycerine". Markings which were still readable indicate they are from the S.O. Company of Richmond Beach, WA with number K-9177 stensiled on them.

One cache of 28 standard rib barrels are leaking what appears to be a petroleum product. Exact content of these barrels should be determined as soon as possible as the one cabin which is still standing in the area shows evidence of use by recreational back-packers. The company named above is now out of business or has had its name changed. Based on the type of mining operation present here, the copper minerals they were after, it is quite possible that some of these barrels may contain Cyanide, acid leaching solutions, mercury and general sulfides.

Suspect claims are plotted improperly on MTP.

NOTES



WRST Mining Claims

COPPER CREEK (KOTSINA)

Aerial view of Copper Creek drainage and general location of MS 904.



WRST Mining Claims

COPPER CREEK (KOTSINA)

Mine workings on MS 904.



WRST Mining Claims

COPPER CREEK (KOTSINA)

Mine workings on MS 904.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Copper Queen

b) Individual claim names Copper Queen #1-13

c) Number of claims 13 acres 268.60

d) Claim type: placer (lode) millsite/other _____

e) Patented (Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) NE 1/4 S7, S8, T5S, R17E, CRM
McCarthy B-4

g) BLM serial number(s) AA030253-30265

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken _____

l) Reconnaissance date(s) _____

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Glacier Creek/ Chitistone River

c) Hydrology/stream characteristics

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material _____

-streambanks _____

-channel disturbance _____

d) Water quality (no measurements taken)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Golden eagle observed in area

f) Vegetation Mixed spruce/hardwood forest grading into barren rock talus at higher elevations; shrub understory in forest.

g) Geology/soils/topography Bedrockis mostly Nikolai Greenstone, underlain by a thrust plate of Chitistone Limestone with copper mineralization at the contact. Surficial topography and slopes similar to those on the Nelson Prospect; portions of the surface covered by rock talus and rock glacier.

h) Cultural resources Low prehistoric site potential; very high historic site potential. Close proximity to Nelson Prospect Mine, associated buildings, and artifacts. Historic Goat Trail passes at base of cliff on which Nelson Prospect is situated, several cabins and buildings also, at base. Possible candidate for listing on National Register of Historic Places.

i) Weather conditions during site reconnaissance _____
Sunny, warm with temperatures of 70° to 75°F

PR =
H =

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Nos. 1,2,3, and 4 Above Discovery, Nos. 1,2,5,6, and 8 Below Discovery, No. 1 on Washington Gulch, No. 1 on California Gulch, No. 1 W on Utah Gulch, No. 1 C on Colorado Creek, (continued in comments)

c) Number of claims 18 acres 472.113

d) Claim type: (placer)/lode/millsite/other

e) (Patented)/Unpatented U.S. patent # 385873
mineral survey # 923

f) Location/USGS quadrangle(s) S3,4,5, T6S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A001496

h) Owner(s): name/address
Dan Creek Mining Co.
817 Alaska Building
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Extent of 1982 mining season: Mine bench gravels on Utah claim move into streambed; possibly mined hydraulic tailings downstream from Boulder Creek confluence.

Number of people: 6-13 maximum; average 10.

Airstrip present & location: Airstrip approximately 3000 feet long located on Williams placer claim

Equipment present: Homestake Claim - Historic cabin and storage shed. Boulder Creek-Mining equipment and buildings.

BLM/MAR shows location only as S5, T6S, R16E, CRM and does not list any claim names. BLM/MAR gives inaccurate claim acreage figure of 472.110 acres.

(over)

Need to determine which claims, if any, are in "Closed-No Conveyan
category. Claim names do not coincide between MTP and BLM/MAR (e.
is "#2-Oregon Bench" [AA031909] the same as "Claim on Oregon Gulch
Placer"?)

II. b) No. 1 on Ohio Gulch, Claim on Oregon Gulch, Williams, Homes
and Bolder Creek Placer Claims.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Dana Placer Claim

c) Number of claims 1 acres 160.00

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 374287
mineral survey # 948

f) Location/USGS quadrangle(s) S5, T6S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A001497

h) Owner(s): name/address
Dan Creek Mining Co.
817 Alaska Bldg.
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Number Five Above, Number Six Above, and Number Seven Above Placers

c) Number of claims 3 acres 50.707

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 959190
mineral survey # 1465

f) Location/USGS quadrangle(s) S 1/2 S2, SE 1/4 S3, T6S, R16E, CRM McCarthy B-4 and B-5

g) BLM serial number(s) Not known

h) Owner(s): name/address name/address
Dan Creek Mining Company (original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.



WRST Mining Claims

COPPER QUEEN

General location of Copper Queen #1-13 claims above Chitistone River.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Walls Placer Mining Claim

c) Number of claims 1 acres 19.963

d) Claim type: (placer) lode/millsite/other

e) (Patented) Unpatented U.S. patent # 1107580
mineral survey # 1595

f) Location/USGS quadrangle(s) SW 1/4 S2, SE 1/4 S3, T6S, R16E, CRM McCarthy B-5

g) BLM serial number(s) A 008683

h) Owner(s): name/address
Sigurd Wold
504 Monroe
Fairbanks, AK 99701

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

BLM/MAR claim location information is inaccurate - location given as S3, 10, T6S, R16E, CRM.

Geology/Soils/Topography: Faulted Cretaceous Mudstone sediments on a north-facing knoll with west, north, and east facing slopes of 5° to 25°. Claim area lies at approximately 2,500 feet, on the south side of the Dan Creek drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Annie Association and Clara Assoc

c) Number of claims 2 acres 319.94

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey # 2427

f) Location/USGS quadrangle(s) W 1/2 S5, E 1/2 S6, NE 1/4 S7, NW 1/4 S8, T6S, R16E, CRM McCarthy B-5

g) BLM serial number(s) AA026236

h) Owner(s): name/address
Talmo Inc.
P.O. Box 401
Gig Harbor, WA 98355

name/address
Dan Creek Ventures
c/o Talmo Inc.
P.O. Box 401
Gig Harbor, WA 98335

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Listed under "Survey Applications (Closed-No Conveyance)" categ in BLM/MAR.

Geology/Soils/Topography: Claim area situated on unconsolidate Quaternary alluvium and glacial deposits, with a Tertiary dacit intrusive located in the southernmost part; soils are moderatel well-drained loams with considerable accumulations of organic matter; slopes range from near level to 10° in the vicinity of intrusive.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Dan Creek

b) Individual claim names Droog

c) Number of claims 1 acres 20

d) Claim type: (placer) lode/millsite/other _____

e) Patented (Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) E 1/2 S3, T6S, R16E, CRM
McCarthy B-5

g) BLM serial number(s) AA 029229

h) Owner(s): name/address
James H. Edwards
McCarthy via
Glenallen, AK 99588

name/address

i) Commodity(ies) gold

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/26/82 and 7/9/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Geology/Soils/Topography: Claim area straddles Dan Creek, which cuts through mudstone, siltstone, and shale of the Cretaceous age Chititu formation; site has north and south facing slopes of 15° to 25°. Soils are silty clay loams with poorly sorted gravel and rock close to streambed.

CLAIM GROUP NAME - Dan Creek

USGS QUADRANGLE(S) - McCarthy B-4 and B-5

GENERAL DESCRIPTION OF SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Dan Creek

c) Hydrology/stream characteristics

-estimated discharge 600 cfs but highly variable
-average stream depth 3 to 4 feet
-average stream width 10 to 30 feet
-average active channel width 30 to 150 feet
-average floodplain width 700 feet, tapering to 100 feet upstream
-stream length 6.8 miles
-stream gradient nearly level on W end to 3° on E end
-streambed material rubble and gravel in vicinity of mining operations. Bedrock exposed in vicinity of confluence with Boulder Creek.
-streambanks exposed (rubble)

-channel disturbance entire drainage within claims is affected by past mining activities. A natural 100-year flood occurred in 1981, significantly altering channel configuration and removing piles of waste rock that accumulated during past mining.

d) Water quality

-water temperature 46° F
-pH 6.14 just upstream from Boulder Creek
-color medium brown, turbid, blue-gray during low flow periods
-turbidity High turbidity during summer months due to upstream glacial melt

e) Wildlife (observed or evident) Two bald eagles (one immature) observed from claim group. Wildlife seen along May Creek-Dan Creek trail included porcupine, trumpeter swan with 5 cygnets, Arctic loon, beaver, gray jay, moose (trscks), bear (tracks), snowshoe hare, wood frog, Black bear

f) Vegetation Mature spruce/mixed hardwood forest on the lower claim areas within the Nizina River valley; heavy shrub understory. Willow/alder thickets along stream courses and upstream in narrower portions of drainage.

g) Geology/soils/topography Massive shale, mustone, siltstone, interbedded with very fine-grained basaltic volcanics; volcanics form streambed in upstream portion of claim group; locally there are near-vertical dikes of felsic intrusives. Soils are composed of sand, silt, and coarse gravel of glacial origin, stream valley tapers from 1,500 feet at mouth to less that 100 feet at the uppermost part of the claim; valley walls are steep and unstable because of unconsolidated glacial deposits

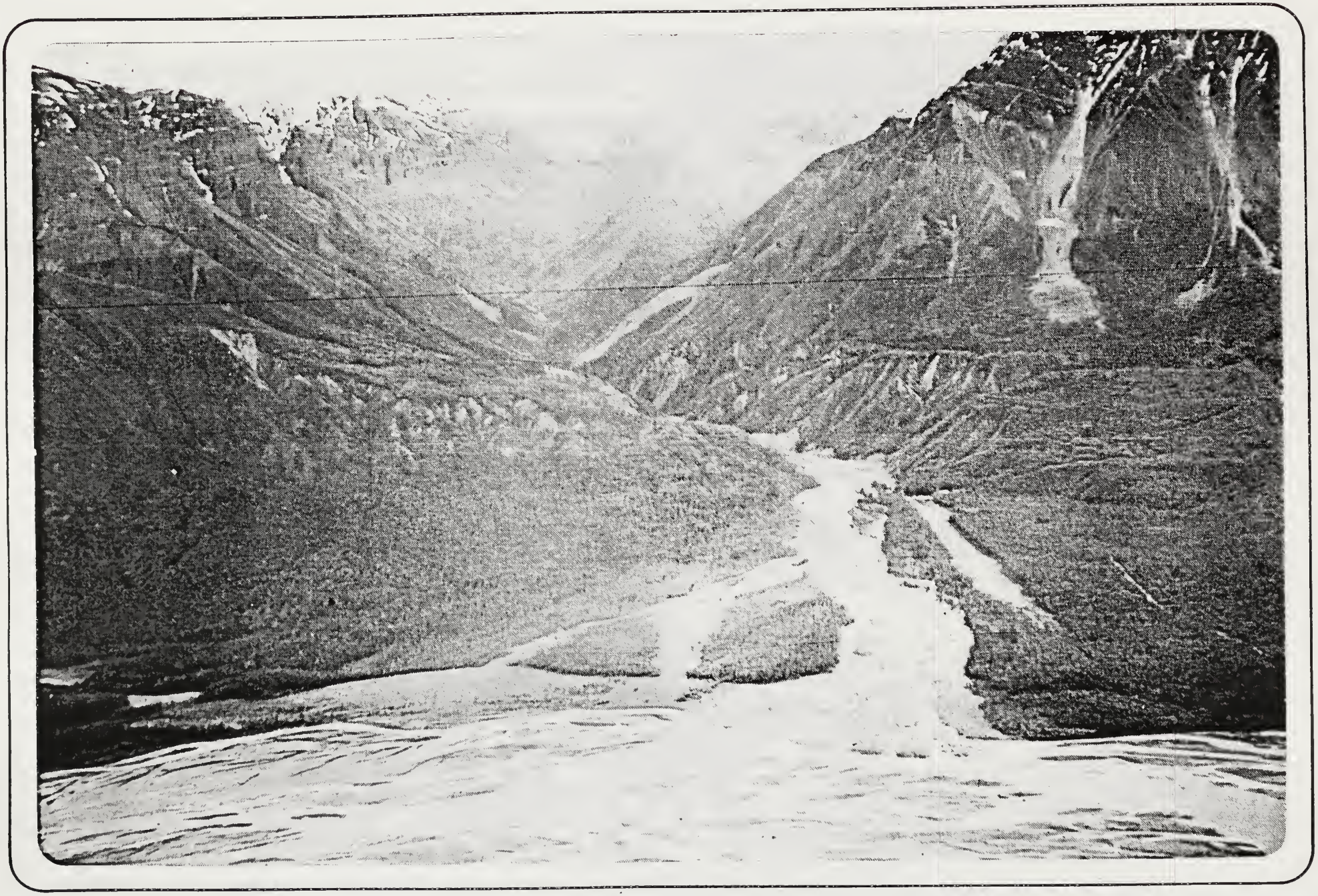
h) Cultural resources This drainage has a low potential for prehistory values because of the severe disturbances due to mining activities. The history potential, however, is medium to high. This was a center of the historic Nizina Mining District and has been mined since 1902. (continued under comments)

i) Weather conditions during site reconnaissance sunny, high scattered clouds, temperature 80° F, no precipitation last 5 days

COMMENTS

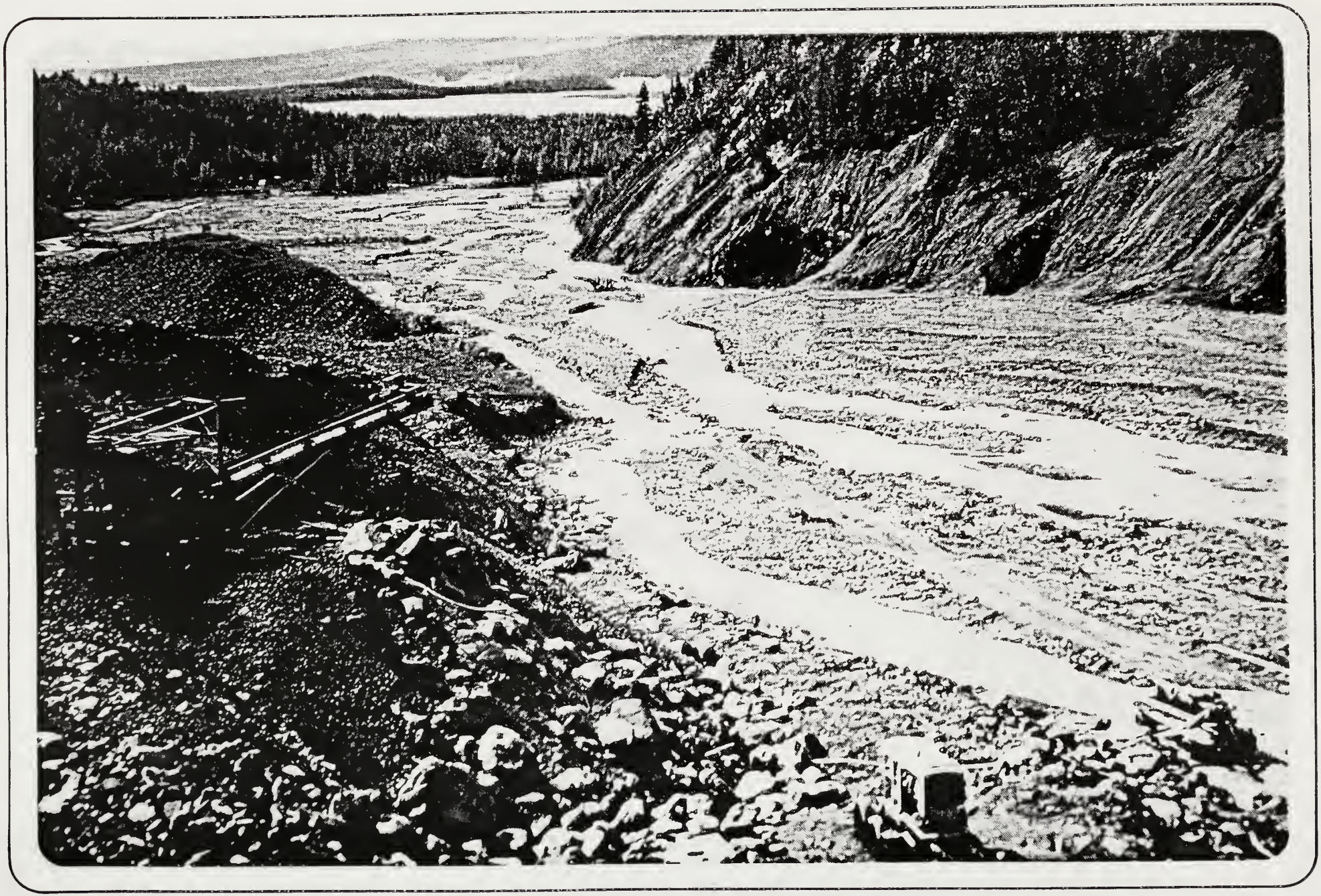
h). Buildings and mining equipment are scattered along the drainage. In addition, the Goat Trail (to the Chisana mining area) runs by at the confluence of Dan Creek and the Nizina River. PR = 1,0, H = 3.5+.

Streamflow was high on day of reconnaissance - normal flow levels reputed to be much lower.



WRST Mining Claims DAN CREEK

Aerial view of lower Dan Creek showing MS 923, landing strip, portion of Dan Creek Road, and mining camp.



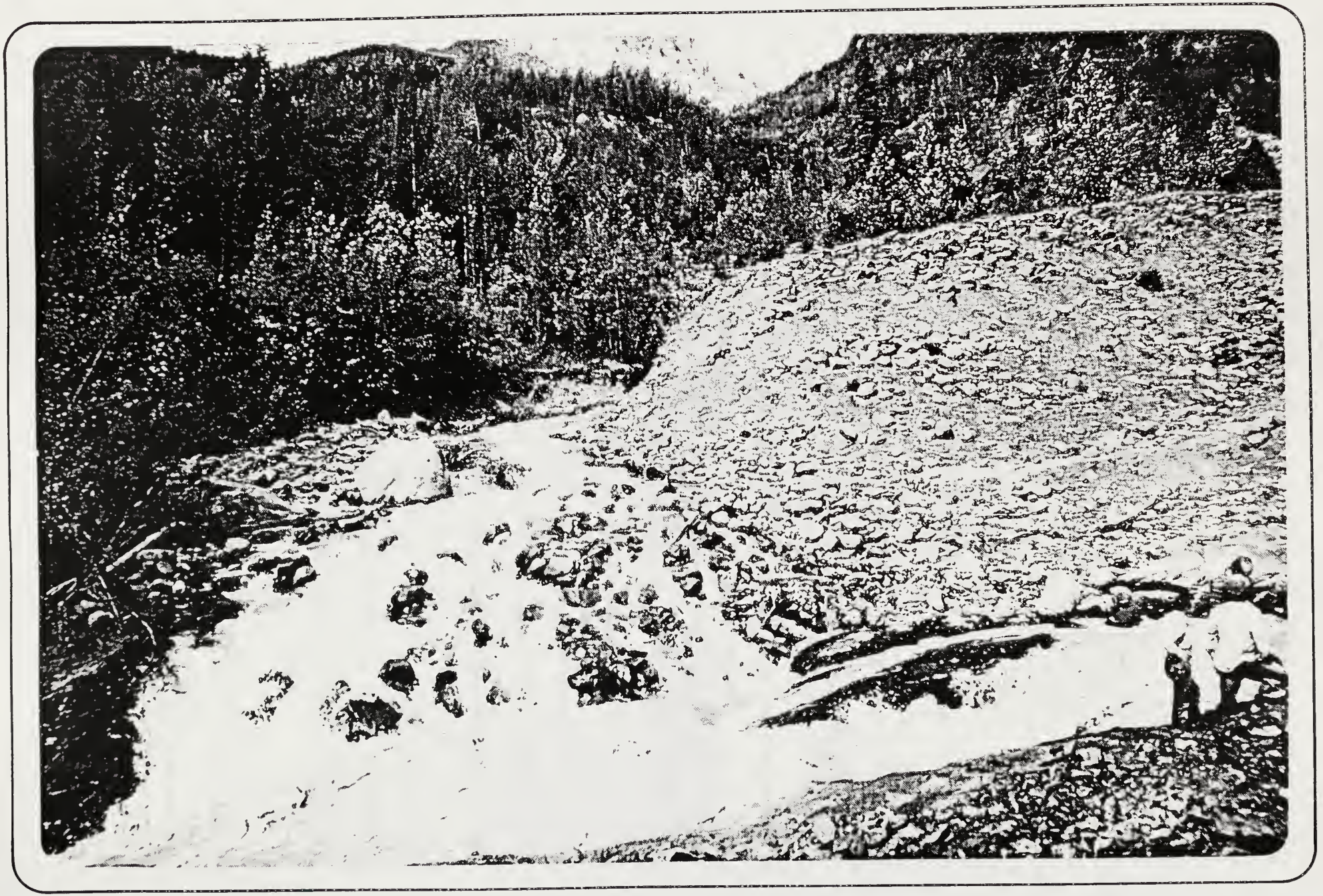
WRST Mining Claims DAN CREEK

Placer mining operation on MS 923 above Dan Creek camp, looking west.



WRST Mining Claims DAN CREEK

Ground view of MS 923 above Dan Creek Camp looking east.



WRST Mining Claims

DAN CREEK

Mouth of Boulder Creek on MS 923.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Donoho Peak

b) Individual claim names Donahoe Peak Nos. 1-30

c) Number of claims 30 acres 619.83

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S25, S36, T3S, R13E; SW 1/4 S30, S31, T3S, R14E; NE 1/4 S1, T7S, R13E; NW 1/4 S6, T4S, R14E, CRM McCarthy C-6

g) BLM serial number(s) AA 025449-25478

h) Owner(s): name/address

Melvin N. Barry	Paul J. Barry	Francis William Barry
323 W. Harvard	754 Bogard Rd.	754 Bogard Rd.
Anchorage, AK 99501	Palmer, AK 99645	Palmer, AK 99645

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Root/Kennicott Glaciers

c) Hydrology/stream characteristics

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) None observed from air.

f) Vegetation Alpine tundra, bare rock, talus, ice and snow. Some shrub tundra on extreme lower elevations of claims adjacent to Root Glacier.

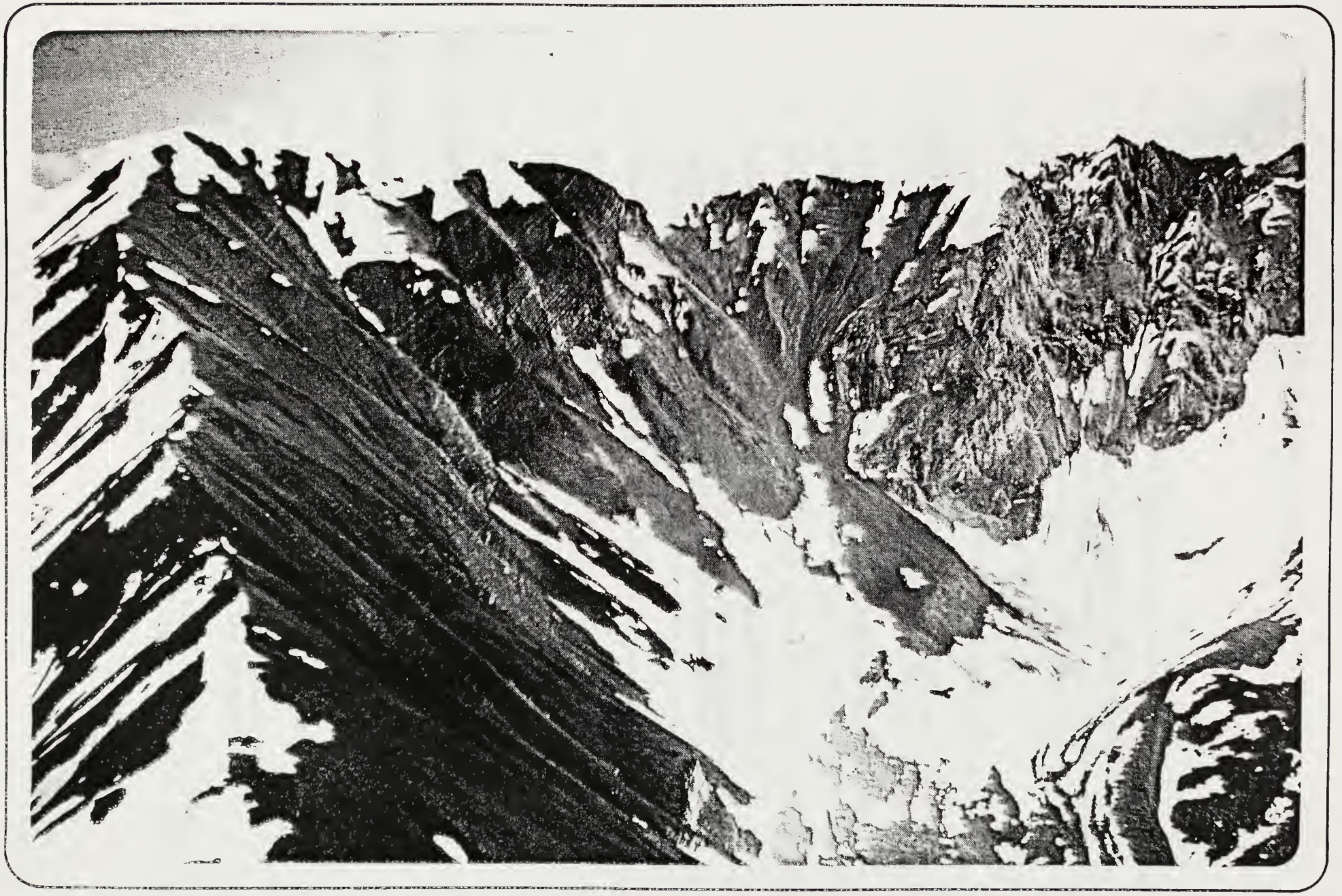
g) Geology/soils/topography _____

h) Cultural resources Due to steep terrain the cultural resour values appear to be low on these claims. PR = 1.0, H = 1.5.

i) Weather conditions during site reconnaissance Clear, warm, winds calm.

IV. COMMENTS AND OTHER OBSERVATIONS

Claim location information in BLM/MAR is inaccurate and incompl for many claims. Claim group is also located in S1, T4S, R13E S6, T4S, R14E, CRM; BLM/MAR does not indicate this.



WRST Mining Claims

DONOHO PEAK

General location of Donoho Peak claims Nos. 1-30.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Louise, Goodyear, Henry Prather, Lizzie G., Rainbow, and Nancy Hanks Lodes

c) Number of claims 6 acres 84.723

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 39136
mineral survey # 565

f) Location/USGS quadrangle(s) E 1/2 S34, W 1/2 S35, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000014

h) Owner(s): name/address name/address
Charles G. Hubbard, George J. Roberts, A.J. Boardman, Ernest Brundett, Henry P. Elliott, and Antoinette Elliott (original claimants)

i) Commodity(ies) Copper/gold/silver

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

Small pools and riffles present in Elliott Creek near source.

Buildings present & description: Historic cabins at upper end of creek (Elliott Cabin) and mining camp further downstream.

Soils/Topography: Claims situated on north side of Elliott Creek drainage; slopes face east, south, and west, from 5° to 30°. Soils are rocky loams 3 to 12 inches deep.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Copper King and Mineral King Lode Claims

c) Number of claims 2 acres 41.322

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate 15
mineral survey # 566

f) Location/USGS quadrangle(s) E 1/2 S1, T3S, R7E; W 1/2 S6, T3S, R8E, CRM Valdez C-1

g) BLM serial number(s) A 000015

h) Owner(s): name/address name/address
Charles G. Hubbard, George J. Roberts,
A.J. Boardman, Ernest L. Brundett,
Henry P. Elliott, and Antoinette Elliott (original claimants)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reccnnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Guthrie and Albert Johnston Lode Claims

c) Number of claims 2 acres 39.957

d) Claim type: placer/(lode)/millsite/other _____

e) (Patented)/Unpatented U.S. patent # 44897
mineral survey # 630

f) Location/USGS quadrangle(s) S 1/2 S27, NE 1/4 S34, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000065

h) Owner(s): name/address
Hubbard-Elliott Copper Mines
Development Company
(original claimant)

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Elizabeth Lode Claim

c) Number of claims 1 acres 20.661

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 631
mineral survey # 44898

f) Location/USGS quadrangle(s) E 1/2 S34, T2S, R7E, CRM Valdez C-

g) BLM serial number(s) A 000066

h) Owner(s): name/address
Hubbard - Elliott Copper Mines
Development Company (original claimant)

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Copper Queen, Fortuna, Regina, Van Dyck, Kotsina, Katherine, Frisco, California, and Gloriana Lode Claims

c) Number of claims 9 acres 179.839

d) Claim type: placer/(lode)/millsite/other _____

e) (Patented)/Unpatented U.S. patent # 45836
mineral survey # 658

f) Location/USGS quadrangle(s) S 1/2 S36, T2S, R7E; S1, T3S, R7E; NW 1/4 S6, T3S, R8E, CRM Valdez C-1

g) BLM serial number(s) A 000075

h) Owner(s): name/address
The Hubbard - Elliott Copper Mines Development Company of Alaska (original claimant)

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

Kings Creek traverses Copper Queen, Fortuna, and Regina claims. Kings Creek has a variety of streambed materials, including gravel, rubble, and boulders, and was flowing clear. Small pools formed by boulders in stream channel present. Noticed thin film of green algae growing on rubble-sized materials in streambed. Streambanks shrubby (willows), also exposed (boulders). No aquatic invertebrates observed. Observations made off claims above confluence with Elliott Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Marmot, Samoleon, and Flanders Lode Claims

c) Number of claims 3 acres 59.236

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # 45837
mineral survey # 659

f) Location/USGS quadrangle(s) SE 1/4 S35, SW 1/4 S36, T2S, R7E; NW 1/4 S1, T3S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000076

h) Owner(s): name/address Hubbard - Elliott Copper Mines Development Company of Alaska (original claimant) name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

Pouch Creek traverses Marmot lode. Creek was flowing clear; dominant streambed materials were rubble and boulders. Boulders in streambed have formed small pools. Exposed streambanks (rubble, boulders). No aquatic invertebrates observed. Observations for Pouch Creek were made below claims and above confluence with Elliott Creek. Estimated stream depth, width, and flow were 5 inches, 3 feet, and 1 foot/sec., respectively.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Castle, Retriever, Glendive, Sweepstakes, Babe, and Wrangell Lode Claims

c) Number of claims 6 acres 113.114

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 45866
mineral survey # 660A

f) Location/USGS quadrangle(s) S35, SW 1/4 S36; T2S, R7E; NW 1/4 S1, NE 1/2 S2, T3S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000077

h) Owner(s): name/address name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS
Not listed in BLM/MAR.

Pouch Creek traverses Babe lode and one corner of Glendive lode. Creek was flowing clear; dominant streambed materials were rubble and boulders. Boulders in streambed have formed small pools. Exposed streambanks (rubble, boulders). No aquatic invertebrates observed. Observations for Pouch Creek were made below claims and above confluence with Elliott Creek. Estimated stream depth, width, and flow were 5 inches, 3 feet, and 1 foot/second, respectively.

Castle Creek traverses the Sweepstakes, Castle, and Retriever claims. It was flowing clear and its characteristics were similar to those of Pouch Creek. Algae-covered rocks were present in the streambed. Boulders have created small pools. Observations for Castle Creek were made below the claims and above confluence with Elliott Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Castle Millsite

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode (millsite) other

e) (Patented) Unpatented U.S. patent # 45866
mineral survey # 660B

f) Location/USGS quadrangle(s) SE 1/4 S34, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000077

h) Owner(s): name/address name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Cliff, Cave, Lime Gulch, and Chance Lode Claims

c) Number of claims 4 acres 81.522

d) Claim type: placer/(lode)/millsite/other _____

e) (Patented)/Unpatented U.S. patent # 45867
mineral survey # 661A

f) Location/USGS quadrangle(s) E 1/2 S28, NE 1/4 S33, NW 1/4 S34, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A000078

h) Owner(s): name/address The Hubbard - Elliott Copper Mines Development Company of Alaska (original claimant) name/address _____

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82 (aerial only)

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

Deception Creek traverses Cliff Lode. The creek has an 18° gradient in the claim area.

Buildings present & description - Historic cabin

Soils/Topography: Claims located on SW and partly on NW facing slopes of 25° to 30° on north side of Elliott Creek. Surface consists of thin, stony loam soils among bare rock outcrops and talus slopes.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Cliff Millsite

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode (millsite) other

e) (Patented) Unpatented U.S. patent # 45867
mineral survey # 661B

f) Location/USGS quadrangle(s) SE 1/4 S29, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000078

h) Owner(s): name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)
name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

Claim contains small segment of Elliott Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Lawton and Leland Lode Claims

c) Number of claims 2 acres 39.017

d) Claim type: placer, (lode), millsite/other _____

e) (Patented) Unpatented U.S. patent # 45868
mineral survey # 662A

f) Location/USGS quadrangle(s) S27, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000079

h) Owner(s): name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken _____

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Lawton Millsite

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 45868
mineral survey # 662B

f) Location/USGS quadrangle(s) SE 1/4 S34, T2S, R7E, CRM Valdez C-

g) BLM serial number(s) A 000079

h) Owner(s): name/address name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Ralph J Lode Claim

c) Number of claims 1 acres 10.268

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate 80
mineral survey # 663

f) Location/USGS quadrangle(s) S6, T3S, R8E, CRM Valdez C-1

g) BLM serial number(s) A 000080

h) Owner(s): name/address
The Hubbard - Elliott Copper Mines
Development Company of Alaska
(original claimant)

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names Unalita, Curtis, Red Jacket, El Capitan, Senator, Marie Antoinette, and Ophir Lode Claims

c) Number of claims 7 acres 125.005

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 45869
mineral survey # 665A

f) Location/USGS quadrangle(s) S34, W 1/2 S35, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000081

h) Owner(s): name/address The Hubbard-Elliott Copper Mines Development Company of Alaska (original claimant)
name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek

b) Individual claim names El Capitan Millsite

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 45869
mineral survey # 665B

f) Location/USGS quadrangle(s) SW 1/4 S28, SE 1/4 S29, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s) A 000081

h) Owner(s): name/address
The Hubbard-Elliott Copper Mines Development Company of Alaska (original claimant) name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT (refer to general description for entire claim group)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in BLM/MAR.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Elliott Creek.

b) Individual claim names Republic, Lizzie, and Empire Lode Claims

c) Number of claims 3 acres 34.189

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey # 905

f) Location/USGS quadrangle(s) S21, T2S, R7E, CRM Valdez C-1

g) BLM serial number(s)

h) Owner(s): name/address name/address
Galena Bay Mining Company
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/8/82 (aerial only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Elliott Creek of Kotsina River

c) Hydrology/stream characteristics (No streams present in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (No streams present)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Numerous Dall sheep observed in claim area

f) Vegetation Alpine tundra and barren rock slopes.

g) Geology/soils/topography Bedrock type unknown; claim area sits on a S facing slope of approximately 26° at elevation at 4,600 to 6,600 feet near the head of Five Sheep Creek; surface consists mostly of talus, with some areas of bare rock exposures.

h) Cultural resources Low prehistoric site potential. Low-to-medium historic site potential based on proximity to Lower Camp of historic Elliott Creek mining District. PR = 0-1, H = 2.0.

i) Weather conditions during site reconnaissance Low ceiling, heavy clouds, rain storm approaching.

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: historic cabins at confluence of Elliott Creek and Five Sheep Creek.

Not listed in BLM/MAR.

Need U.S. Patent #

Should verify whether claim is plotted properly on MTP.

CLAIM GROUP NAME - Elliott Creek

USGS QUADRANGLE(S) - Valdez C-1

GENERAL DESCRIPTION OF SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Elliott Creek of Kotsina River

c) Hydrology/stream characteristics (Elliott Creek near source/ camp near Rainbow Creek)

-estimated discharge 4 cfs / 44 cfs
-average stream depth 4 inches / 10 inches
-average stream width 8 feet / 15 feet
-average active channel width 40 feet / 30 feet
-average floodplain width 50 feet / 200 feet
-stream length 11 miles to source / 3.75 miles to source
-stream gradient 8° / 6°
-streambed material cobble (approximately 3-4 inches in diameter / not obtained
-streambanks exposed (gravels and rubble); also mossy in places / not obtained
-channel disturbance minor past disturbance due to mining equipment resting on stream bottom / old trashdump in Rainbow Creek, 300 feet from Elliott Creek.

d) Water quality

-water temperature 40° F / not obtained
-pH 7.2 / not obtainable
-color light green / light green
-turbidity clear / clear

e) Wildlife (observed or evident) Whistling marmot. Arctic ground squirrel burrows. Sighted group of 15 Dall sheep, including 4 young, on ridge north of Elliott Creek. Bear diggings. Sighted 3 golden eagles near sheep.

f) Vegetation Exposed rocks ridges, alpine tundra above; shrub tundra at lower elevations. Also scattered areas of spruce. Claim areas in lower portion of drainage basin are covered by dense spruce forest with a shrubby understory.

g) Geology/soils/topography Claim area focused on the complexly faulted and mineralized contact between the Nikolai Greenstone and Chitistone Limestone.

h) Cultural resources The cultural resources values along this drainage appear to be high, especially the historic values. Prehistoric site potentials are low to medium because of the restricted access to the drainage. However, it is a good hunting territory, especially for sheep. (continued under comments.)

i) Weather conditions during site reconnaissance Heavy cloud cover, moderate winds from SE, rain imminent.

COMMENTS

h). The historic potential is very high. This creek has three historic mining camps (High, Middle, and Low) along its length. All are related to the Hubbard-Elliott mining ventures, which are some of the earliest in the region. The whole drainage appears to qualify and should be evaluated for nomination to the National Register of Historic Places. PR = 1.5, H = 5.0.

Present status: inactive.

Comments cont.

Equipment present: Scattered areas of old equipment left from turn-of-the-century mining era.

buildings present and description: historic cabins at upper end of creek (Elliott Cabin) and mining camp further downstream.

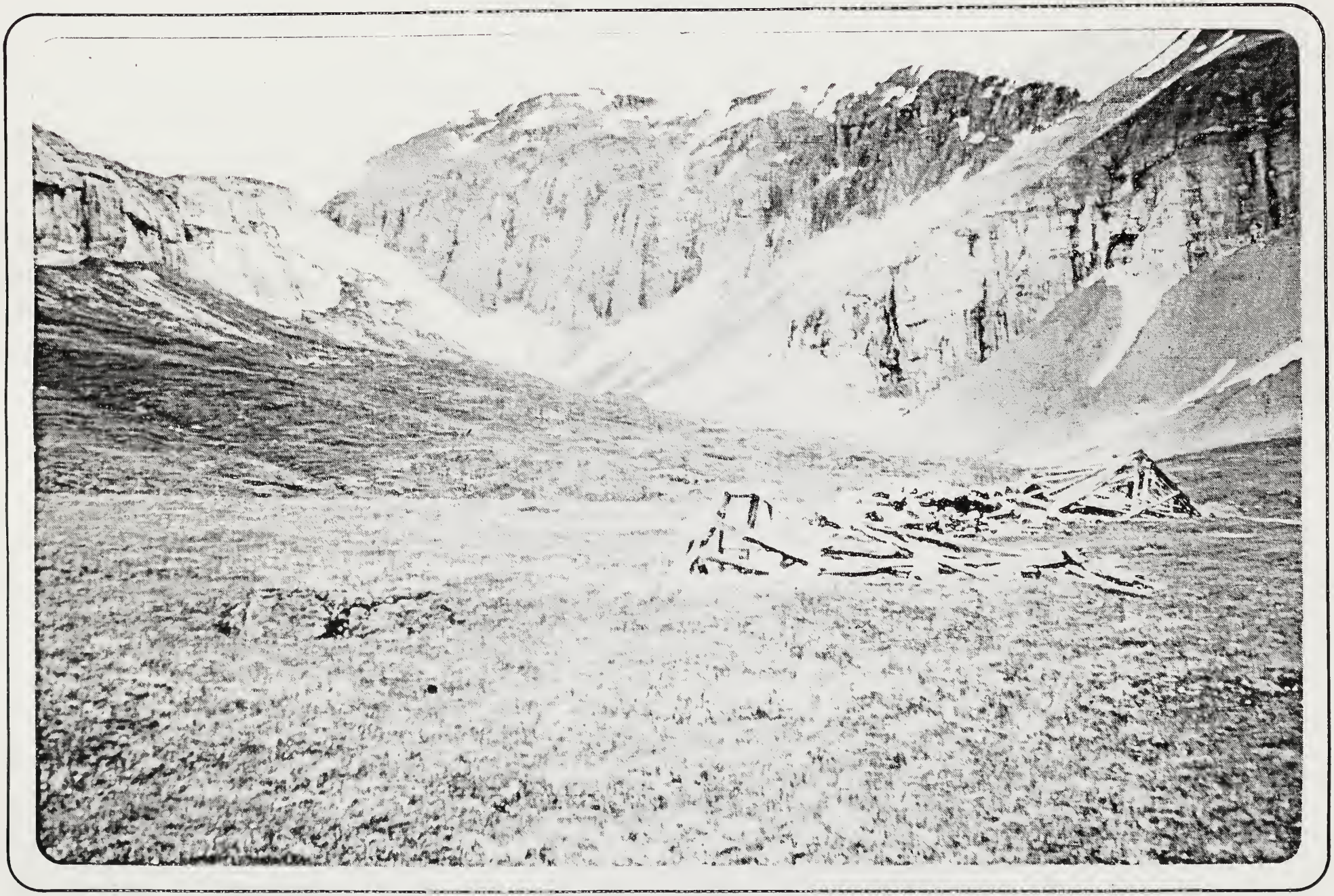
Access/roads: trail from mining camp at Rainbow Creek all the way to the upper basin below. Rainbow Creek trail is more difficult to follow. Access through lower Elliott Creek gorge is not possible. 3-7 miles to Kotsina River Road.

Airstrip present and location: nearest airstrip is 3 miles SW near the Bonito Creek claims.

Previous mining history and operations: this area was the center of activity for the first major strikes in this country. Area has the earliest recorded and surveyed claims in all the Wrangell's area. Part of the original Hubbard-Elliott discovery. Mining effort was extensive at turn-of-century however, actual production was not that significant.

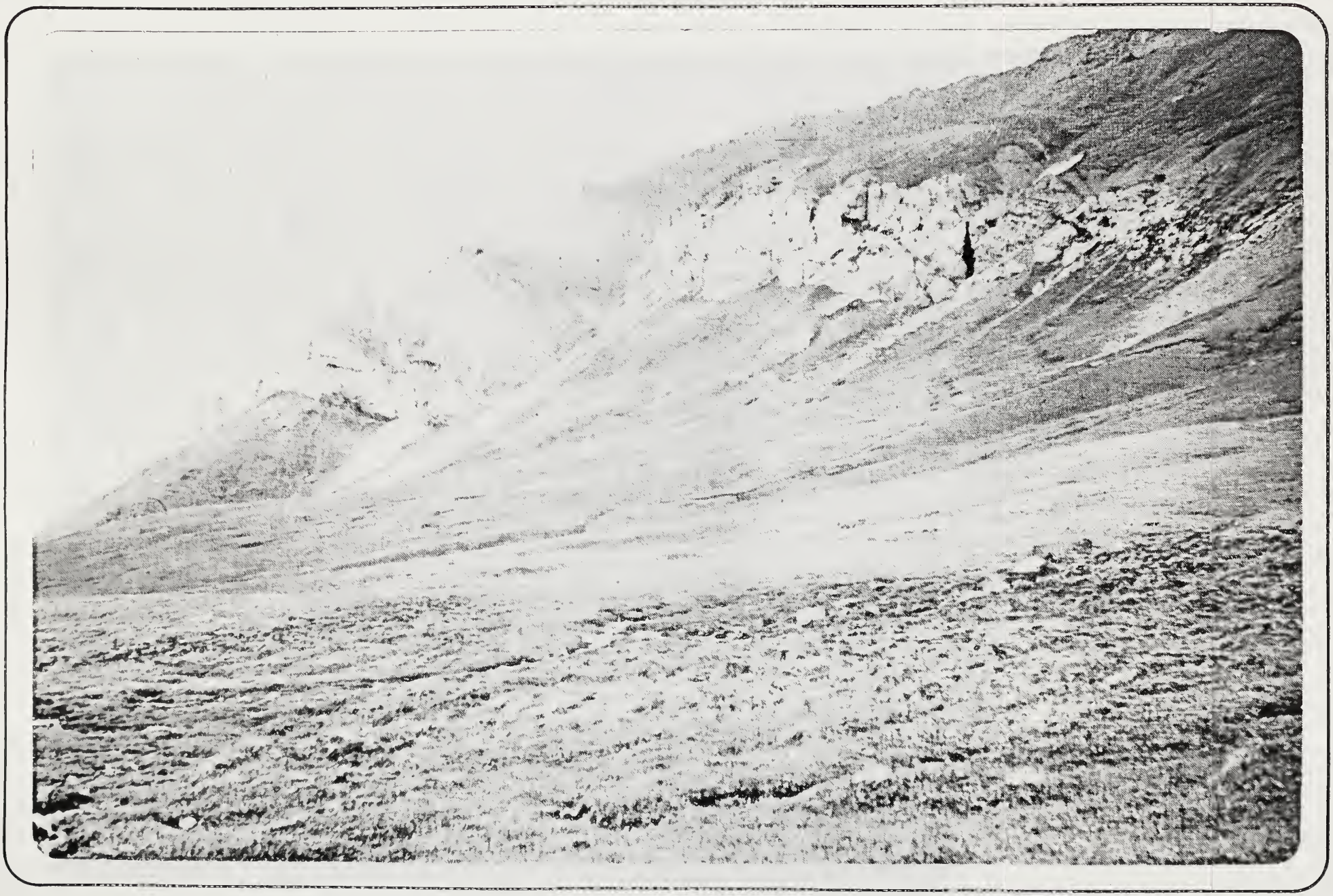
Area appears to have significant historical potential.

CAUTION: Barrel caches present on claim group, some of which may contain toxic substances. Should be evaluated to identify and assess potential environmental hazards.



WRST Mining Claims ELLIOTT CREEK

Cabin remains on MS 658 looking east at head of valley.



WRST Mining Claims

ELLIOTT CREEK

View to west from upper end of Elliott Creek valley. Terrain is typical of patented Elliott Creek mining claims.



WRST Mining Claims

ELLIOTT CREEK

View to west down Elliott Creek valley.

NOTES

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Erickson Prospect

b) Individual claim names Iowa and Chiti Claim Lodes

c) Number of claims 2 acres 34.941

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # 1009379
mineral survey # 1466

f) Location/USGS quadrangle(s) S30, T5S, R18E, CRM McCarthy B-4

g) BLM serial number(s) A 006647

h) Owner(s): name/address
James McTanock et al
c/o Donohoe and Dimond
Valdez, AK 99686

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/29/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitistone River

b) Drainage basin small meltwater tributary of Glacier Creek

c) Hydrology/stream characteristics

-estimated discharge 15 cfs
-average stream depth 6 inches (Vol.=5 ft/sec.)
-average stream width 6 feet
-average active channel width 8 to 15 feet
-average floodplain width 100 ft. at lower extent of claim, narrowing
-stream length 0.8 mi upstream to a v-notch incised in bedrock
-stream gradient 30°
-streambed material boulders, cobble

-streambanks exposed (boulder, cobble) some brush-intermittent willow, alder, fireweed, other herbaceous species.
-channel disturbance none noted

d) Water quality

-water temperature 40°F
-pH 7.7
-color Very slight blue gray coloration
-turbidity Very slight-stream supplied by snowmelt

e) Wildlife (observed or evident) Either a young Bald or mature Golden eagle was spotted circling above the claims.

f) Vegetation Dense shrub tundra and scattered rock ledges

g) Geology/soils/topography Bedrock is Nikolai Greenstone, lower portion covered by glacial moraine; soils consist of an organic layer up to 6" thick over loose float and glacial rubble. Claim is located on a steep, rugged south-facing slope. Slope is about 30°.

h) Cultural resources The cultural resources potential of these claims is very low. Most of the terrain is glacial moraine and a steep, rugged slope. PR = 0-1, H = 0-1.

i) Weather conditions during site reconnaissance mostly sunny with high, scattered clouds. No precipitation past week.

IV. COMMENTS AND OTHER OBSERVATIONS

Access/roads: Access is difficult as Twaharpies Glacier runs this far down the valley. No evidence of historic access to the claim.

No sign of any past activity.
No evidence of claim stakes or corners found.
No claim names listed in BLM/MAR.

Airstrip present & location: Glacier Creek landing strip located 5 1/2 miles NW Of the claims.

Previous mining history and operations: no evidence of past activity.

NOTES



WRST Mining Claims

ERICKSON PROSPECT

General location of Erickson Prospect above Twaharpies Glacier.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Fohlin Creek

b) Individual claim names Golden Fleece, Aurora, Virginus, and Blackbird Lode Claims

c) Number of claims 4 acres 77.66

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # not known
mineral survey # 589

f) Location/USGS quadrangle(s) SE 1/4 S9, SW 1/4 S10, NW 1/4 S15, NE 1/4 S16, T4S, R12E, CRM McCarthy C-6

g) BLM serial number(s) not known

h) Owner(s): name/address name/address
Tanana Mining and Exploration Co.
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/6/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Lakina River of the Chitina River

b) Drainage basin Fohlin Creek

c) Hydrology/stream characteristics

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance none observed from air -

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Sighted 5 Dall sheep, at least 4 rams, from air in claim area

f) Vegetation Primarily exposed and folded rock with scattered patches of alpine tundra

g) Geology/soils/topography Uniformly bedded Triassic Nizina Limestone, and Jurassic/Triassic impure carbonates of the lower McCarthy formation underlie most of claim area. Southern tip touches a Tertiary dacitic intrusion. Claim lies on bare rock and talus slopes of 24 to 45° facing NW, W, and SW.

h) Cultural resources The cultural resources potential of this claim appears to be low. It is located over 5,000 feet in elevation and on a steep, rocky slope. Access to the claim is difficult. PR = 0-1, H = 0-1.

i) Weather conditions during site reconnaissance Clear, warm

IV. COMMENTS AND OTHER OBSERVATIONS

Need to determine if a patent has been issued for these claims.

Not listed in BLM/MAR.

Access/roads; access is extremely difficult. Claim located in steep, remote terrain. May be possible to land helicopter in cirque basin NE of claims.

Unable to confirm claim location.

According to MSP, these claims are located immediately west of Lakina River. MTP shows location in Fohlin Creek drainage, from which the baseline data listed in this form was originally gathered.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Frederika Glacier

b) Individual claim names Washington, Red Fox, Black Diamon, Celtic, Colley, Blue Eyed Nellie, Bears Nest, and Bed Rock Lode Claims

c) Number of claims 8 acres 135.966

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # 486283
mineral survey # 942

f) Locat: BE, CRM McCarthy C-4

g) BLM s

h) Owner ame/address
Frank
817 Al
Seattl

i) Commoc

j) Corner

k) Photos

l) Reconnaissance date(s) 7/2/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Frederika Creek of Skolai Creek

c) Hydrology/stream characteristics (Drainage was inaccessible; no measurements taken)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length 2.0 miles
-stream gradient 12°
-streambed material _____

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Observed group of Dall sheep with young (total of 9 sheep)

f) Vegetation Wet tundra association with scattered areas of dry tundra

g) Geology/soils/topography North to south drainage with a general slopes of 14° dissects Wrangell Lava and continental sediments of the Frederika formation; a tertiary andesitic dike runs across the claim from east to west cutting both rock types. Soils are locally deep rocky loams, saturated with moisture from snowmelt.

h) Cultural resources This claim area has a low potential for the occurrence of cultural resource values. It is over 5,500 feet in elevation and is a wet, rocky tundra. PR = 1.0, H = 1.0.

i) Weather conditions during site reconnaissance Clear and warm. Winds NW, light to moderate.

IV. COMMENTS AND OTHER OBSERVATIONS

Access/roads: none

Previous mining history and operations: no evidence of past mining activity or access to claim area.

Tertiary dike contains abundant amygdules (geode-like cavities) of hydrated silica and calcite, from 1/2" to 6" in diameter.

Need to verify proper location of claim group. MTP shows location in S16, T2S, R18E, CRM. According to Moerlein report, claim group is situated in S33 and 34, T2S, R20E and S3, T3S, R20E, CRM. MSP indicates improvements consist of two tunnels and two open cuts; Moerlein indicates that he failed to find an adit or other signs of previous activities during an aerial search.

*MSP shows claim located in Forty-Mile Mining District.

NOTES



WRST Mining Claims

FREDERIKA GLACIER

General location of MS 942 looking south. View of Hole-in-the-Wall Glacier in background.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Granite Peak

b) Individual claim names Silver Star #5-17

c) Number of claims 13 acres 268.6

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) E 1/2 S35, W 1/2 S36, T1S, R8E, W 1/2 S1, E 1/2 S2, T2S, R8E, CRM McCarthy C-8

g) BLM serial number(s) AA 025481-025492

h) Owner(s): name/address name/address
Barry, Melvin N., Paul J., Francis W.
323 W. Harvard
Anchorage, AK 99501

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kotsina River

c) Hydrology/stream characteristics (no permanent streams in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Pika, marmot, Dall sheep tracks, Arctic ground squirrel burrows, bear diggings observed in vicinity of claims

f) Vegetation Alpine tundra and exposed rock. Claim area at lower elevations is covered by shrub tundra with scattered spruce.

g) Geology/soils/topography Claims cover Chitina Batholith diorite and a small amount of argillite and graywacke in upper western portions, slopes to the SW, S, and SE from 20° to 35° along the north slope of the Kotsina River Valley. Soils are rocky silt loam in discontinuous patches between rock exposures and talus slopes.

h) Cultural resources These claim groups, clumped together high on Granite Peak have low potential for the occurrence of cultural resource sites. Silver Star Lodes #14-17 have slightly higher values because some of them are lower down, near the Kotsina River. PR = 1.0, H = 1.0+.

i) Weather conditions during site reconnaissance _____

IV. COMMENTS AND OTHER OBSERVATIONS

CAUTION: Trailer parked near boundary between claim 16 and 17 contains explosives. Warnings should be posted as soon as possible to prevent accidents.

Claims listed as "Closed - No Conveyance in BLM/MAR.

NPS action: Permit issued for 1982 operating season.

Present status: Active.

Obvious impacts: Major road along steep mountain slopes to mine portal - several large cuts in mountainside - small leveled area to camp.

Equipment present: Small 16' travel trailer plus misc. mining equipment.

Buildings present & description: Modern trailer & debris. Explosives cached in trailer.

Access/roads: These claims have good access from the McCarthy Road via the Kluvesna River Road. Road from Kluvesna River and Millsite #3 zig-zags up the mountain through these claims Entire road appears drivable via 4x4 vehicle.

Airstrip present & location: No airstrips in the immediate area.

Water usage (source and amounts): unknown

Site waste disposal: unknown

Means of effluent water disposal: unknown

NOTES



WRST Mining Claims GRANITE PEAK

Aerial view of south flank of Granite Peak showing general location of Silver Star and Pandora mining claims. Note access road from Kotsina River.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Granite Peak

b) Individual claim names Silver Star Millsite #2

c) Number of claims 1 acres 5.0

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) NE 1/4 S35, T1S, R8E, CRM
McCarthy C-8

g) BLM serial number(s) AA026770

h) Owner(s): name/address
Francis William Barry
754 Bogard Road
Palmer, AK 99645

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken Ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT

(refer to information for Pandora #1-3 and Silver Star #1-4)

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious Impacts: road and large cut made in hillside just below ridge top.

Equipment Present: small horizontal drilling cart parked on millsite.

Access/roads: access road leading to mine workings on Silver Star Nos. 1-2 traverses Silver Star Millsite #2.

Previous Mining History and Operations: activity on claims within past 2-3 years.

Listed as "Closed-No Conveyance in BLM/MAR

NOTES



General location of Silver Star #2 millsite claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Granite Peak

b) Individual claim names Silver Star Millsite #3

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode (millsite) other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S4, T1S, R8E, CRM McCarthy C-8

g) BLM serial number(s) AA 026771

h) Owner(s): name/address name/address
Barry, Francis W., Melvin N., Paul J.
323 W. Harvard
Anchorage, AK 99501

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/8/82 (aerial)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kluvesna River

c) Hydrology/stream characteristics (no stream descriptions made)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) none observed

f) Vegetation shrub tundra and mixed hardwood/spruce on level ground next to river

g) Geology/soils/topography Located on a level terrace of Quaternary alluvium above the active floodplain of the Kotsina River. Soils are deep, organic loams supporting spruce forest.

h) Cultural resources This claim has good cultural resources potential. Its location at the confluence of the Kotsina River and the Kluvesna give it a medium prehistoric site potential. Its historic site potential is medium to high with some historic buildings present on or near the claim. The
(continued under comments)

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

III(h). claim lies midway between the historic mining towns of Kotsina on the Kotsina River and Coppertown, on the Kluvesna River. PR = 2.0+, H = 3.0.

Buildings present and description: Buildings on and off claim. Some possible historic.

Access/roads: Kluvesna River Road runs from McCarthy Road near stream to this millsite. Accessible for most of its length via 2-wheel drive vehicle.

Airstrip present and location: none nearby.

Mining operations: Old cabin located on claim, however, no evidence of activity associated with mining pursuits.

Listed as "Closed - No Conveyance" in BLM/MAR.

NOTES



WRST Mining Claims

GRANITE PEAK

General location of Silver Star #3 millsite claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Granite Peak

b) Individual claim names Silver Star Millsite #4

c) Number of claims 1 acres 5.00

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S2, T2S, R8E, CRM McCarthy C-8

g) BLM serial number(s) AA 026772

h) Owner(s): name/address
Paul J. & William Francis Barry
754 Bogard Rd.
Palmer, AK 99645

name/address
Melvin N. Barry
323 W. Harvard
Anchorage, AK 99501

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/8/82 aerial and binoculars

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kotsina River

c) Hydrology/stream characteristics (no stream observations made)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) no observations made

f) Vegetation mixed spruce and hardwood forest with dense shrub understory.

g) Geology/soils/topography Located on diorite of the Chitina Batholith, covered by Quaternary glaciofluvial deposits of the Kotsina River. Site is on a 5° slope with deep rocky loam soil.

h) Cultural resources This claim, located on a bench above the Kotsina River has a low to medium prehistoric site potential and a medium historic site potential. The Kotsina River was a well-known travel route and the focus of the historic Kotsina-Kuskulana Mining District. The historic mining town of Kotsina (continued under comments).

i) Weather conditions during site reconnaissance _____

IV. COMMENTS AND OTHER OBSERVATIONS

III(h). was located just upstream from here (at the Roaring Creek confluence). PR = 1.5, H = 2.5

Access/roads: adjacent to road leading to Silver Star claims #1-4

Claim Status: Closed - No Conveyance BLM/MAR

No evidence of past mining activity.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Granite Peak

b) Individual claim names Pandora Nos. 1-3 and Silver Star Nos. 1-4

c) Number of claims 7 acres 144.63

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey # 2405 (Pandora Nos. 1-3)

f) Location/USGS quadrangle(s) W 1/2 S36, E 1/2 S35, T1S, R8E. CRM McCarthy C-8

g) BLM serial number(s) AA 038900-38903 and AA 039168-39170

h) Owner(s): name/address name/address
Melvin N. Barry
323 W. Harvard
Anchorage, AK 99501

i) Commodity(ies)

j) Corner/discovery monuments found survey corners (MS 2405)

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kluvesna/Kotsina Rivers

c) Hydrology/stream characteristics (no streams present in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Pika, marmot, Dall sheep tracks, Arctic ground squirrel burrows, bear diggings

f) Vegetation Primarily exposed rock and alpine tundra.

g) Geology/soils/topography Silver Star 1-4 located on Nikolai Greenstone, argillites and graywackes of the Hasen Creek formation, and Chitina Batholith diorite; Pandora 1-3 entirely within Chitina Batholith diorite; claims sit on S to E facing slopes of 20° to 35°. Soils are rocky silt loam, alternating with bare rock and talus slopes.

h) Cultural resources These claim groups, clumped together high on Granite Peak have low potential for the occurrence of cultural resource sites. Silver Star Lodes #14-17 have slightly higher values because some of them are lower down, near the Kotsina River. PR = 1.0, H = 1.0+.

i) Weather conditions during site reconnaissance _____

IV. COMMENTS AND OTHER OBSERVATIONS

NPS action: permit issued for 1982 operating season.

Present status: active.

Extent of 1982 mining season: no activity on claims to date.

Obvious impacts: several cuts in ridge of different elevations on Silver Star No. 1 and 2 - 2 adits driven on southside ridge. Road cut just below ridge top through Pandora 1, 2 and 3.

Equipment present: large portable generator, drilling cart and miscellaneous equipment near mine openings.

Access/roads: road access from McCarthy Road via Kluvesna River Valley. Drivable via 4X4 vehicle.

Airstrip present and location: none nearby.

Water usage: unknown

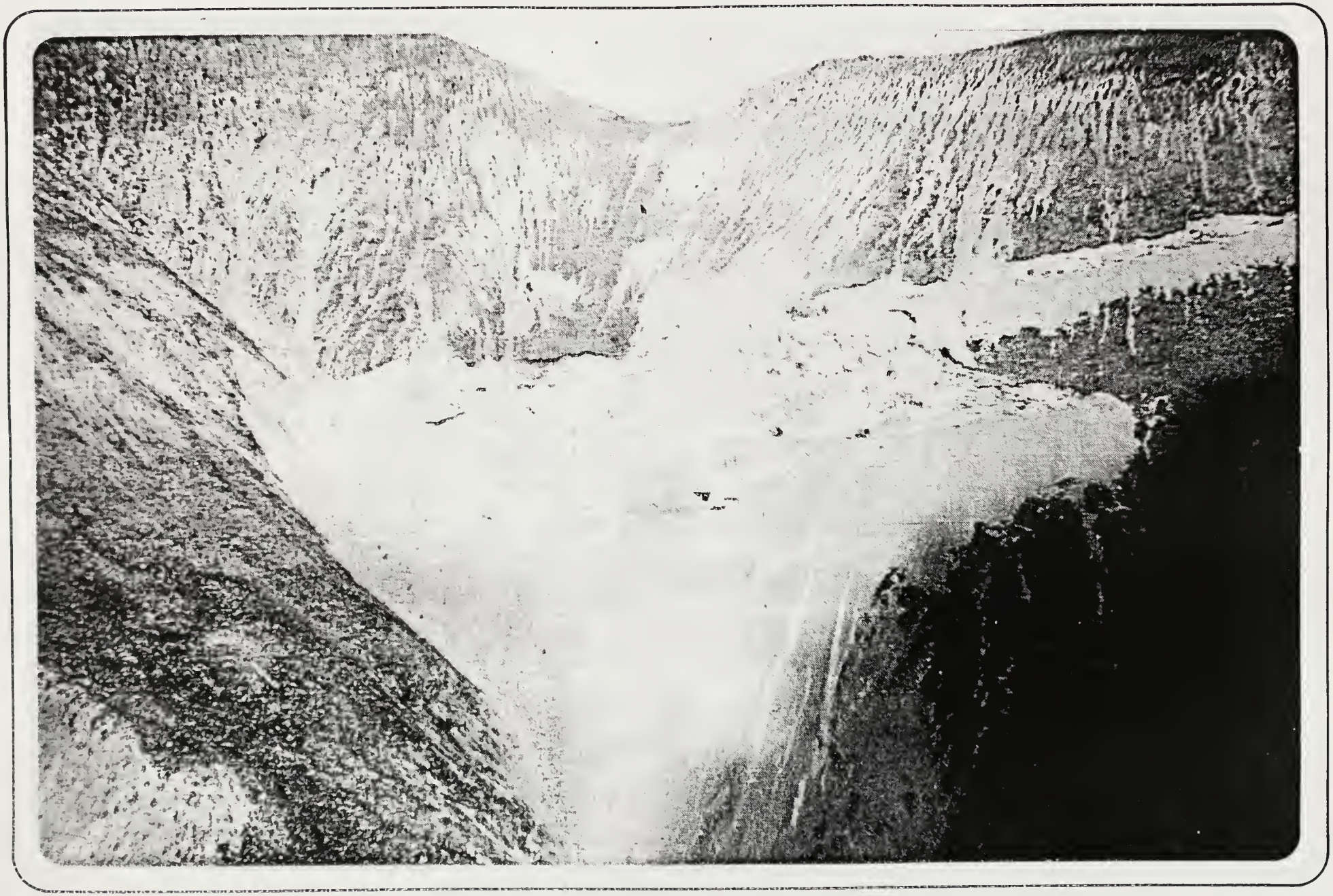
Site waste disposal: unknown

Means of effluent water disposal: unknown

Previous mining history and operations: ongoing within last several years. Road, 2 adits and mining equipment (generator, etc.)

Mining operations for 1982 season had not begun at time of this survey.

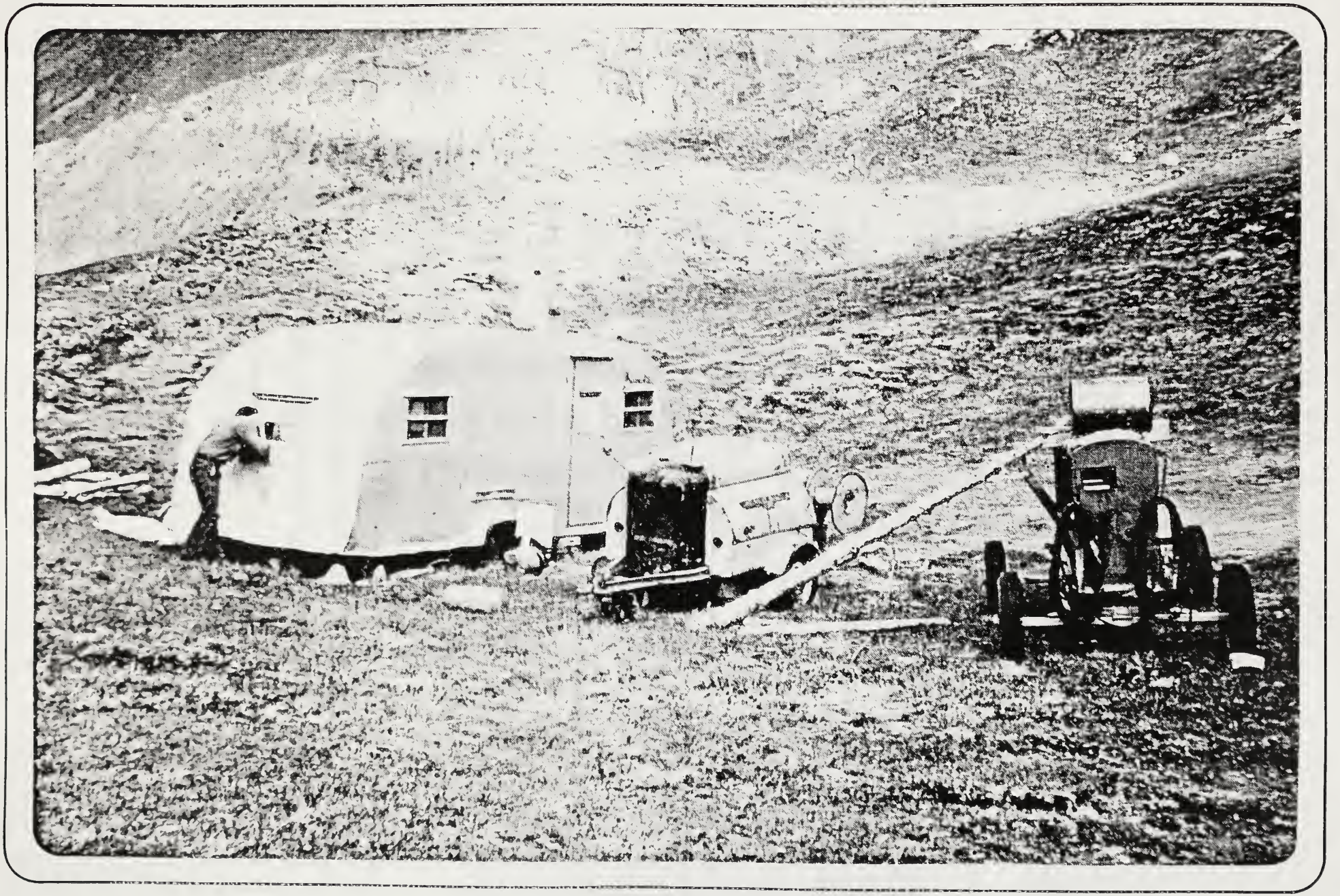
Silver STar Nos. 1-4 (AA012527) and Pandora Nos. 1-3 (AA025088) listed under "Survey Applications (closed - no conveyance)" section of BLM/MAR.



WRST Mining Claims

GRANITE PEAK

Mine workings on Silver Star Nos. 1-4 claims.



WRST Mining Claims

GRANITE PEAK

Trailer cache and equipment on Silver Star claims.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Green Butte

b) Individual claim names Green Bush, Green Tree, Green Sheep, Green Goat, Green Lime, Green Contact, Green Bluff, Green Fissure, Green Isle, Green Shamrock, Green Summit, Green Moose, (continued in comments section)

c) Number of claims 19 lode, 4 millsite acres 339.429

d) Claim type: placer (lode) (millsite) other

e) (Patented) Unpatented U.S. patent # 931373
mineral survey # 1098 A (lodes) and B (millsite

f) Location/USGS quadrangle(s) S19, 29, 30, 31, 32, T4S, R15E, CRM McCarthy B-5 and C-5

g) BLM serial number(s) A 005164

h) Owner(s): name/address
Green Butte Copper Company
General Delivery
McCarthy via Chitina, AK 99566

name/address

i) Commodity(ies) copper

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/30/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin McCarthy Creek and East Fork

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no data collected)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) none observed

f) Vegetation Primarily shrub tundra grading into alpine tundra on higher portions of the claim area. Area of heavy dense willow/alder shrub with scattered spruce located in East Fork drainage.

g) Geology/soils/topography Claim area straddles contact between Nikolai Greenstone and Chitistone Limestone; 6 to 12" of stony loam soils support a dense growth of willow and alder shrubs. Claim area situated on a steep west facing slope with about 37° inclination.

h) Cultural resources Claim group contains historic Green Butte mine. Has higher historic site value and lower prehistoric site potential than the rest of the drainage. PR=2.0, H=5.0. The Green Butte mine and associated structures appear to qualify for inclusion on the National Register of Historic Places. (continued under comments)

i) Weather conditions during site reconnaissance overcase with light to moderate precipitation.

IV. COMMENTS AND OTHER OBSERVATIONS

II. b. Green Stone, Green Grass, Green Ore, Green River, Green Grouse, Green Horn, and Green Hand Lodes; Green Mill, Green Mountain, Green Butte, and Green Fish Millsites.

III. h. Cultural resources potential along this drainage are medium to high. The creek provides easy access and abundant resources. Was part of the ethnohistoric territory of Chief Nikolai's Ahtna band. Historically, it was part of the historic Kennicott Mining District. PR = 2.5+, H = 3.5-5.0.

Location as given for MS 1098 A and B appears to be inaccurate based on discrepancies between MSP and MTP. Proper location would be approximately 1/2 mile due west. BLM/MAR shows location only as S30, T6S, R14E, CRM.

BLM/MAR does not list claim names.

Buildings present and description: Old mine buildings and equipment - bunkhouses, main buildings, tramway, etc. - in good shape.

Access/roads: road from McCarthy Creek millsite up side of mountain to claim area. Most of road still passable.

Previous mining history and operations: extensive past mining effort. Old mill and tramway system from McCarthy Creek to mine opening indicate a high volume production.

A past high volume mining operation. Tailings pile contained abundant malachite, calcocite, and azurite.

Claims adjacent to the following unsurveyed, unpatented lode claims: Green Fly, Green Peak, Green Earth, Green Crag, Green Auto, Green Sky, Green Ford, and Green Truck, which are listed twice in the BLM/MAR (serial #'s AA029167-29175 and AA041942-41950) in the Lode Claims section. Information from Dick Stenmark indicates that this situation involves improper claim relocations.

Mineral survey 1098 is not broken down into parts "A" and "B" in the BLM report. No claim name given.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Green Butte

b) Individual claim names Big Ben Nos. 1-6 Lodes; Big Ben Extension Lode Claims Nos. 1 and 2; and Big Ben Millsite

c) Number of claims 8 Lodes acres 152 (lodes)
1 Millsite 5 (Millsite)

d) Claim type: placer (lode) (millsite) /other

e) (Patented) /Unpatented U.S. patent # 1017331
mineral survey #1512A (lodes) and B (Millsite)

f) Location/USGS quadrangle(s) S19, N1/2 S30, T4S, R15E, CRM
McCarthy B-5 and C-5

g) BLM serial number(s) A006667

h) Owner(s): name/address
Neils Tjosevig
c/o A.J. Diamond
Valdez, AK 99781

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 6/30/82

III. SURROUNDING ENVIRONMENT

(refer to information for Green Butte Claims MS 1098 A & B)

IV. COMMENTS AND OTHER OBSERVATIONS

Adjacent to MS 1098A. Location as given appears to be inaccurate based on discrepancies between MSP for MS1098 and MTP.

BLM/MAR figure for surveyed acreage is inaccurate (152.0 acres). According to HI and MTP, correct figure is 156.997 acres for MS 1512 A and B.

BLM/MAR omits claim name for Big Ben Extension No. 2.

NOTES



WRST Mining Claims

GREEN BUTTE

View of Green Butte mine and mill area looking north.



WRST Mining Claims GREEN BUTTE

View of Green Butte mine and mill area looking south down McCarthy Creek drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Grotto Creek

b) Individual claim names Group No. 17 #1-17

c) Number of claims 17 acres 351.24

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) E 1/2 S1, S12, T5S, R16E; S6, T5S, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA030266-30282

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 6/29/82 and 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitistone River

b) Drainage basin Grotto Creek

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no measurements taken)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) None observed from aircraft, bear sign is plentiful along the Chitistone River; Golden eagle also seen in area on previous days.

f) Vegetation Claim area covers several vegetational zones. Heavy spruce, mixed hardwood forest with shrubby understory on northern part of claim area; barren river bar in central area of claims with only scattered willow on more stable gravels; spruce, mixed hardwood forest on southern end of claim area grades into alpine tundra and shrub tundra on upper slopes.

g) Geology/soils/topography Claims are located along a fault that is thought to project under the Chitistone River Valley. Topography is rugged with elevations ranging from near 2000 feet to more than 4,000 feet. Ground cover on slopes varies from barren to thin rocky soils and talus. Soils are deeper and more organic-rich in the forest zone along the Chitistone River.

h) Cultural resources _____

i) Weather conditions during site reconnaissance clear and warm to cloudy and cool with scattered rain showers in area.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Hidden Creek

b) Individual claim names Tjosevig No. 1-5, Tjosevig No. 8-10, Norway No. 2

c) Number of claims 9 acres 183.121

d) Claim type: placer/(lode)/millsite/other _____

e) (Patented)/Unpatented U.S. patent # 941730
mineral survey # 1423

f) Location/USGS quadrangle(s) S 1/2 S27, SE 1/4 S28, S34, T3S, R12E, CRM McCarthy C-6

g) BLM serial number(s) A 005295

h) Owner(s): name/address
Tjosevig Kennecott Copper Co.
923 Alaska Building
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken aerial and ground

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Hidden Creek

c) Hydrology/stream characteristics (Hidden Creek/tributary from south/tributary from north)
-estimated discharge 60 cfs / 20 cfs / 33 cfs
-average stream depth 12" / 8" / 10"
-average stream width 15' / 10' / 10'
-average active channel width 15' / 10'-20' / 10'-40'
-average floodplain width 10'-100'/stream cuts bedrock/stream cuts bedr
-stream length 2.5 miles/3,000 feet/1.2 miles
-stream gradient 8°/26°/6°
-streambed material intermixture of gravels, rubble, some boulders/did not determine/unable to determine because of turbidity

-streambanks exposed (boulders on N side, fine sediments, gravel rubble on S side)/did not determine/exposed (rubble, gravel)
-channel disturbance none observed on all 3 streams

d) Water quality

-water temperature 40° F / 38° F / 40° F
-pH 7.8 / 7.5 / 7.3
-color light green to gray/gray to brown/light brown
-turbidity clear/moderately turbid/turbid

e) Wildlife (observed or evident) 3 species of stream invertebrates in Hidden Creek observed under rocks; sighted rock ptarmigan; 1 species Ephemeroptera, 2 species Diptera.

f) Vegetation Moderate to dense shrub tundra along slopes and adjacent to streams grading into alpine tundra and barren rock in upper elevations.

g) Geology/soils/topography North half of claim area is in Nikolai Greenstone, south half in Chitistone and Nizina Limestone; central part is on stream alluvium underlain by Nikolai greenstone; claim area straddles E-W Hidden Creek drainage, and has SW, S, and N facing slopes from 5° to 40°. Soil consists of thin rocky loams with varying amounts of organic material.

h) Cultural resources Possible link to Kennicott mining era; recently deglaciated; therfore all potentials are fairly low. PR = 0-1, H= 1.5

i) Weather conditions during site reconnaissance sunny and clear

IV. COMMENTS AND OTHER OBSERVATIONS

Presently inactive and there is no evidence of past mining activity

Access/roads: small trail along Hidden Creek.

Airstrip located 1 3/4 miles SE of claim area

Should determine whether or not claim location is properly plotted on MTP. BLM/MAR does not list claim names.



WRST Mining Claims

HIDDEN CREEK

General location of MS 1423. View is to north from Hidden Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Hidden Creek

b) Individual claim names Nebraska, Tjosevig Extension No. 1, and Tjosevig Extension No. 2 Lodes

c) Number of claims 3 acres 52.605

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 941729
mineral survey # 1424

f) Location/USGS quadrangle(s) W 1/2 S2, E 1/2 S3, T4S, R12E, CRM McCarthy C-6

g) BLM serial number(s) A 005294

h) Owner(s): name/address
Tjosevig Kennecott Copper Co.
923 Alaska Building
618 2nd Avenue
Seattle, WA 98104

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Hidden Creek

c) Hydrology/stream characteristics (No streams present in claim area; stream draining glacial cirque was sampled at confluence with Hidden Creek.)
-estimated discharge 20 cfs
-average stream depth 8 inches
-average stream width 10 feet
-average active channel width 10 to 20 feet
-average floodplain width stream cuts bedrock
-stream length 3,000 feet
-stream gradient 26°
-streambed material

-streambanks

-channel disturbance none observed

d) Water quality

-water temperature 38°F
-pH 7.5
-color gray to brown
-turbidity moderately turbid glacial melt stream

e) Wildlife (observed or evident) none observed

f) Vegetation Claim area is covered almost completely by bare rock, ice/snow.

g) Geology/soils/topography Claim area crosses a N-S glaciated valley from SE to NW; Nizina Limestone underlie glacier; ice and moraine deposits; slope 6 to 45° N and NW. No soil development

h) Cultural resources Very low prehistoric and historic site potentials. High on steep terrain and covered by snow and ice. PR = 0-1, H = 0-1

i) Weather conditions during site reconnaissance sunny and clear, air temperature 70°F+

IV. COMMENTS AND OTHER OBSERVATIONS

Access/roads: extremely difficult - by foot or helicopter only.

Airstrip(s) present and location: 1 1/2 miles to the east.

Previous mining history and operations: no evidence of past activity noticed.

Most of the claim area is covered by small mountain glacier.

Should investigate whether claim location is plotted properly on MTP.

BLM/MAR shows different patent number (#112220) than given on MTP and HI.

BLM/MAR shows inaccurate figure of 52.61 acres surveyed and location only as T4S, R12E, CRM. Claim names are omitted.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Hidden Creek

b) Individual claim names Hidden Creek Claims #1-#12

c) Number of claims 12 acres 247.92

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S5, T4S, R13E, CRM McCarthy C-6

g) BLM serial number(s) AA 024987-24998

h) Owner(s): name/address

Melvin N. Barry	Gordon C. Burdick	William Francis Barry
323 W. Harvard	McCarthy, AK 99695	754 Bogard Rd.
Anchorage, AK 99501		Palmer, AK 99645

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Hidden Creek of Kennicott River

c) Hydrology/stream characteristics (claim area has no permanent streams)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no permanent streams)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Sighted game trails from the air.

f) Vegetation Almost entire claim area covered by bare rock cliffs, ice/snow with a few minor patches of alpine tundra.

g) Geology/soils/topography Cretaceous age porcellanite and siliceous siltstone, unconformably underlain by Chitina Limestone and Nikolai Greenstone; claim area sits on a N-S, 5,500 high ridge 1/2 mile south of Hidden lake. Slopes of 20° to 40° face all directions. Very thin rocky loam soils at lower elevations in claim area.

h) Cultural resources Low prehistoric site potential because of limited access and resources. Historic values are potentially higher. Possible ties to Kennicott mining era.
PR = 1.0, H = 2.5

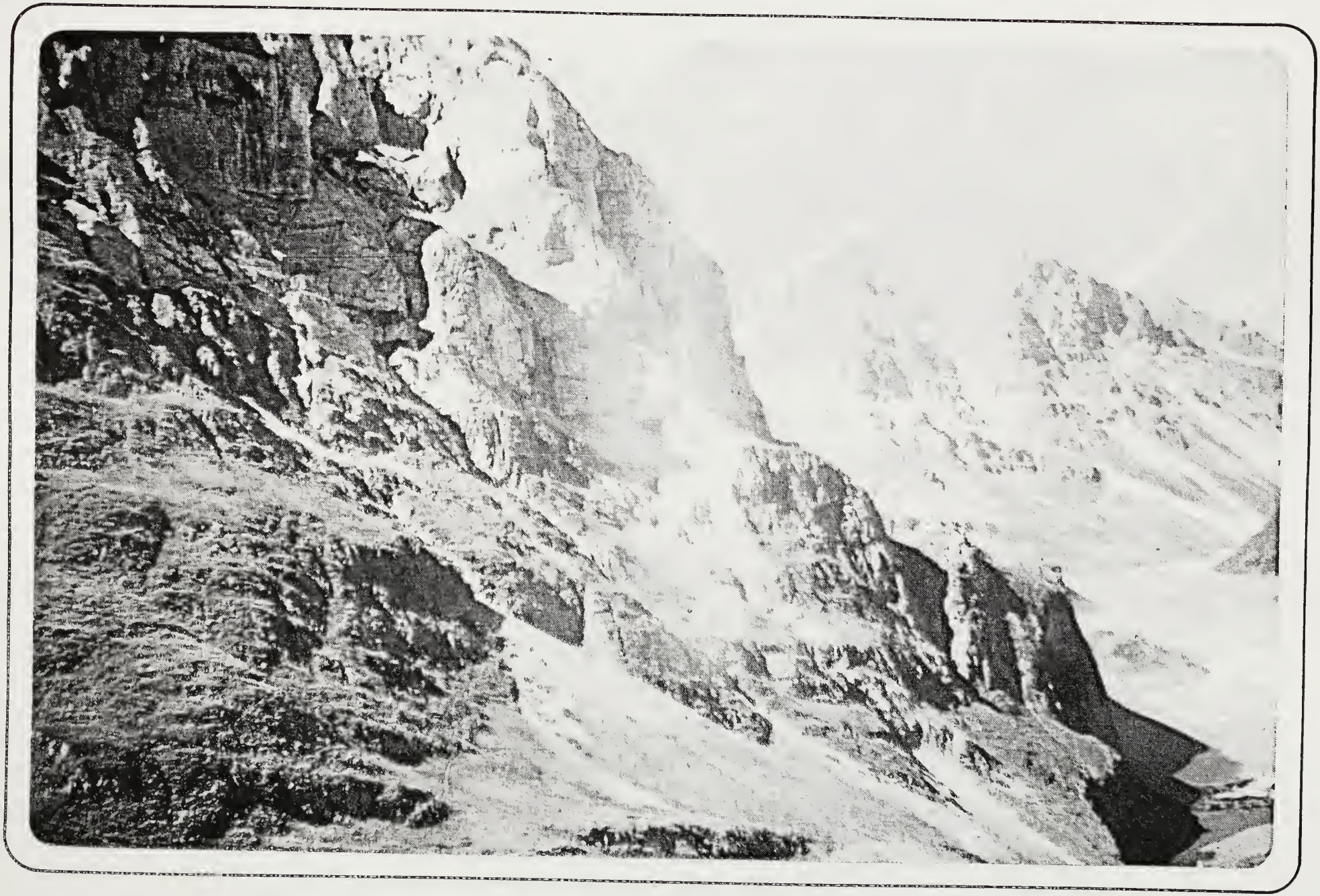
i) Weather conditions during site reconnaissance sunny and clear

IV. COMMENTS AND OTHER OBSERVATIONS

Presently inactive, however Hidden Creek area has a history of mining activity. Some evidence of past activity on claim area.

Buildings present and description: Note possible adit and remains of wooden structure located off the claim area on the east facing slopes above the Kennicott glacier.

Possible airstrip (hardly recognizable) located 1 1/4 miles west of claim area (near glacier gulch). Debris of older building noted in this area also.



WRST Mining Claims

HIDDEN CREEK

General location of Hidden Creek claims Nos. 1-12 looking west up Hidden Creek drainage.



WRST Mining Claims

HIDDEN CREEK

View of Hidden Creek Lake looking west up drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Hidden Creek

b) Individual claim names Cheryl 1

c) Number of claims 1 acres 20.66

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SW 1/4 S2, T3S, R12E, CRM
McCarthy C-6

g) BLM serial number(s) AA033436

h) Owner(s): name/address
Scott E. Douglas
Kings Boulevard, Apt. 514
Corvallis, OR 97331

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial and ground

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Kennicott Glacier

c) Hydrology/stream characteristics (for snowmelt watercourse on unglaciated limestone island; no permanent stream on claim)
-estimated discharge 2 1/4 cfs
-average stream depth 3 inches
-average stream width 3 feet
-average active channel width 8 feet
-average floodplain width 20 feet
-stream length 1,000 feet
-stream gradient 16°
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature 34°F
-pH 7.5
-color crystal clear
-turbidity clear snowmelt watercourse

e) Wildlife (observed or evident) Grey-crowned rosey finch

f) Vegetation cover types consist of exposed rock, snowfields, glacier, and a small patch of alpine tundra

g) Geology/soils/topography Claim area contains glacial ice, moraine, and about 50 acres of Nizina Limestone; located on west side of Kennecott Valley with east facing slopes of 15° to 40°

h) Cultural resources Very low potentials due to location on recently deglaciated terrain, PR = 0-1, H = 0-1

i) Weather conditions during site reconnaissance Sunny, warm; light winds from SE, 70°-75°F

IV. COMMENTS AND OTHER OBSERVATIONS

Uncertain whether this claim is located properly.

Claim located in September 1979 after area was withdrawn from mineral entry and location.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Huberts Landing

b) Individual claim names Chitina River No. 1, Darling M. No. 1-8, and Mollie-O lodes

c) Number of claims 10 acres 195.271

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1085171
mineral survey # 1578

f) Location/USGS quadrangle(s) SE 1/4 S34, SW 1/4 S35, T9S, R21E; S 1/2 S1, S2, NE 1/4 S12, T10S, R21E, CRM McCarthy A-2

g) BLM serial number(s) A 007700

h) Owner(s): name/address
Martin Harris (original claimant)
General Delivery
McCarthy via Chitina, AK 99566

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial and ground

l) Reconnaissance date(s) 7/2/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Chitina River

c) Hydrology/stream characteristics (westernmost tributary/stream between airstrip and cabins)

-estimated discharge 22.5 cfs / 20 cfs
-average stream depth 9"/6"
-average stream width 6'/8'
-average active channel width 6'-10'/20'-30'
-average floodplain width 200' at mouth; stream runs on bedrock on clai
-stream length 2.3 mi/2.5 mi
-stream gradient 15°-20°/15°-20°
-streambed material rubble

-streambanks exposed (rubble, gravel)

-channel disturbance none observed in either stream

d) Water quality

-water temperature 48°F/52°F
-pH 7.8/7.3
-color slight gray coloration/medium brown
-turbidity slightly turbid/highly turbid

e) Wildlife (observed or evident) Rabbit tracks. Moose tracks, Black bear sighted and scared off by shot fired in the air.

f) Vegetation Heavy spruce forest on lower slopes. Cottonwood and willows invading river gravels on floodplain. Most of claim area covered by heavy mixed hardwood/spruce forest.

g) Geology/soils/topography Greenschist/amphibole facies metamorphic rocks of the Skolai group (Pennsylvania-Permian age) with lenses of marble. Claims are on a 20° south facing slope dissected by two major drainages; soils are deep, organic stony loams, (12" to 15" deep) supporting a dense spruce forest.

h) Cultural resources Cultural resource potential appears fairly high. Easy access via Chitina River. Well-known, heavily used hunting area, rich in game. Medium prehistoric site potential; medium-to-high historic site potential. (continued under comments)

i) Weather conditions during site reconnaissance sunny and clear

IV. COMMENTS AND OTHER OBSERVATIONS

Present status: inactive

Equipment present: misc. pieces of mining equipment including an old drag line shovel and wooden sled.

Buildings present and description: Old log cabin, corrals and storage building - in bad condition (no roof)

Access/roads: none

Airstrip(s) present and location: good airstrip adjacent to claim area

Previous mining history and operations: judging by equipment area has had mining efforts in the past, however, the extent of the activity could not be determined.

Lots of recent hunting activity here (old campsites, sheep horns, bones, etc.) Al Gagnon says it is/was frequently used by fly-in hunters.

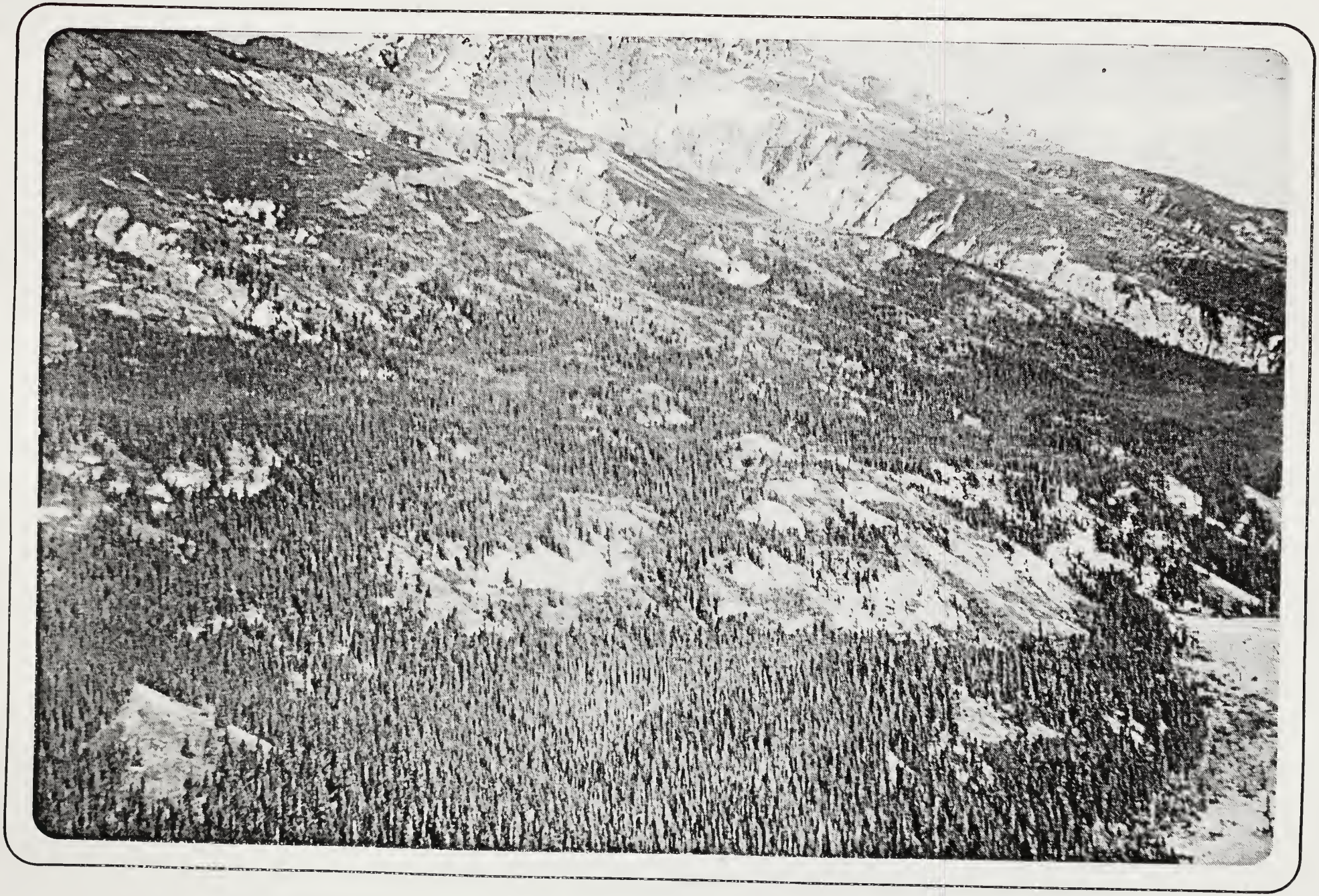
Old cabin in woods-old dragline bucket, horse drawn sleds, etc. (note metal around tree w/rope)

MS 1578 contiguous to ten unsurveyed claims: Chitina River No. 2-7, Mollie-O #2, Darling M. No. 9 (lodes), and Margaret Creek Placer #1 and #2.

BLM/MAR gives inaccurate figure of 245.00 acres surveyed and shows claim names for Darling M Nos. 1-5 only. Location information omits S1, T10S, R21E.

Location as given may be inaccurate based on discrepancies between MSP and MTP. Suspect proper location is to north.

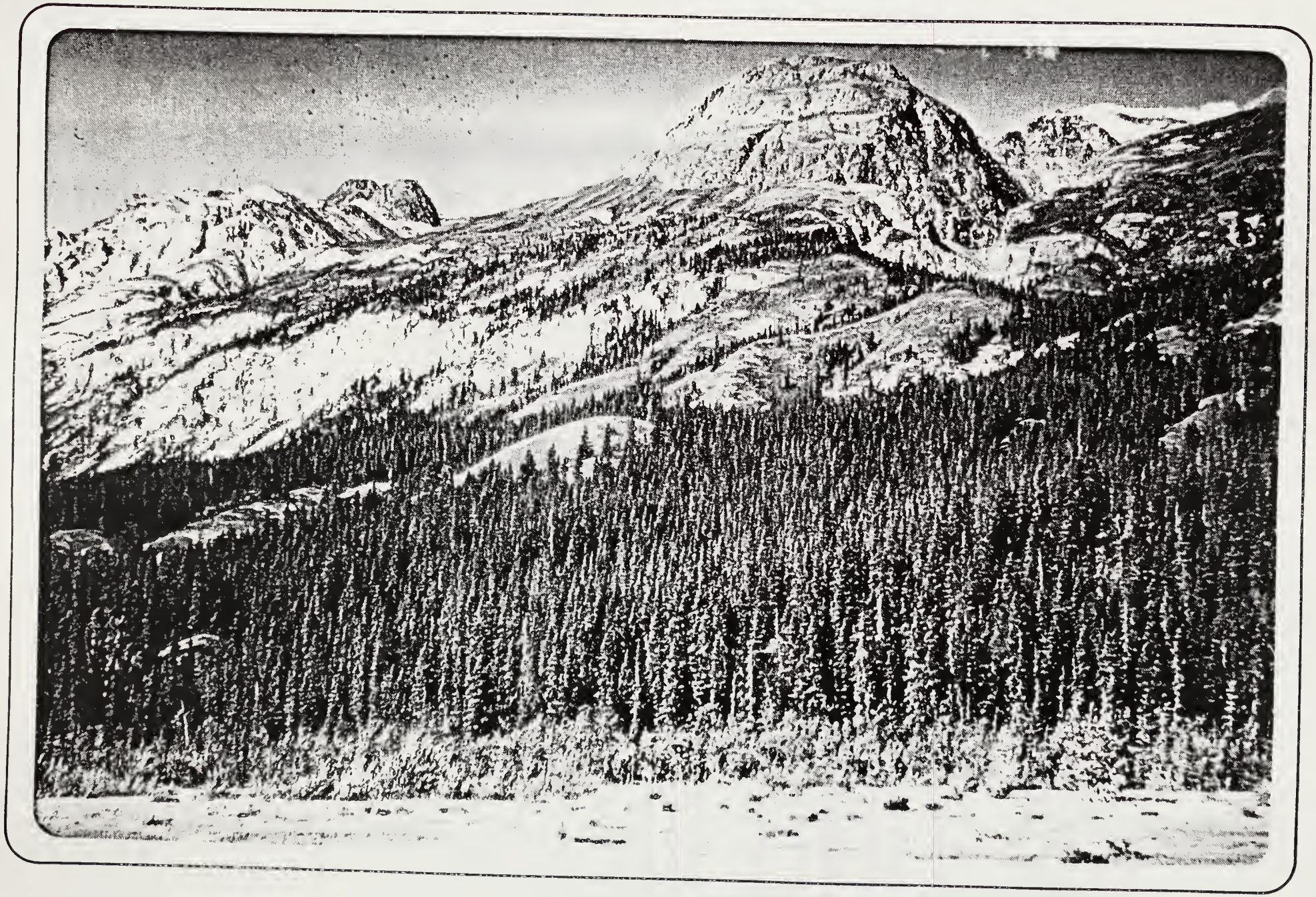
III. h. Martin Harris maintained active and extensive mining operation here during 1930s; some remains of this still evident. Further evaluation needed. PR = 2.5, H = 3.5+.



WRST Mining Claims

HUBERTS LANDING

Aerial view of MS 1578 claim area looking east.



WRST Mining Claims

HUBERTS LANDING

General location of MS 1578. View to north from landing strip.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Hucarco

b) Individual claim names Hucarco

c) Number of claims 1 acres 20.66

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SW 1/4 S26, SE 1/4 S27, NE 1/4 S34, NW 1/4 S35, T9S, R11E, CRM McCarthy A-7

g) BLM serial number(s) AA032642

h) Owner(s): name/address
Howard Hunt
6924 E. 6th Ave.
Anchorage, AK 99504

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/5/82

III. SURROUNDING ENVIRONMENT

a) Major watershed North Fork Bremner River

b) Drainage basin Golconda Creek

c) Hydrology/stream characteristics (note: stream description is for Golconda Creek at the airstrip 2 miles south of claim area.)
-estimated discharge 94 cfs
-average stream depth 15 inches
-average stream width 15 feet
-average active channel width 15' to 40'
-average floodplain width 150' to 200'
-stream length 2.1 miles from airstrip to source
-stream gradient 3°
-streambed material cobbles (average diameter of 4-6 inches)

-streambanks exposed (rubble)

-channel disturbance Minor past disturbance from Bremner Mine development.

d) Water quality

-water temperature 46° F
-pH 7.0
-color clear
-turbidity non-turbid snowmelt stream

e) Wildlife (observed or evident) Two species of mayfly nymphs observed in Golconda Creek (Ephemeroptera). Sighted large, blond grizzly from air just down valley from claim area. Observed willow ptarmigan, chicks in floodplain (Golconda Creek). Robin.

f) Vegetation Most of the claim is covered by talus and low shrubs. Below the claim is alpine tundra with low willow shrubs along stream course.

g) Geology/soils/topography Claim located in Jurassic/Cretaceous age metagraywacke and argillite of the Valdez Group, containing gold-bearing quartz veins; located on a SE facing valley wall with a slope of 29°; intermittent, thin rocky soils alternate with partly snow covered talus and bare rock outcrops.

h) Cultural resources Claim area has good potential for cultural resource values. Bremner River was well-known and heavily used travel route between the interior and coast. Prehistoric site potentials in medium range, historic site potentials high. (continued in comments)

i) Weather conditions during site reconnaissance sunny, warm, light winds from SE

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: roads, airstrip, buildings, mill, mine adits.

Equipment present: Mill destroyed by avalanche has a high density of mining equipment and tools including smelting kilns and assay lab. Some modern equipment also present suggesting recent use.

Buildings present and description: Yellowband mine on hillside. Old metal covered cabin at south end of airstrip. Bremner Mine Camp (several buildings) located 1/2 mile to south of claim.

Access/roads: road from Bremner landing strip to Yellowband Mine located on claim.

Airstrip(s) present and location: 1 3/4 miles south of claim.

Previous mining history and operations: The Yellowband Mine and the Bremner area in general was the center of extensive mining activity in the 20's and 30's.

Just Yellowband remnants left. Spring 1982 avalanche destroyed all except a little bit. Debris all down slope. Yellowband date - 1934. Recent work there and in Golconda Creek.

Other mines (Sheriff, Lady Luck) are are in that area but were not examined)

Mining camp in valley in excellent shape w/buildings and equipment including classic cars, trucks, and tractors.

Area should be evaluated for National Register status

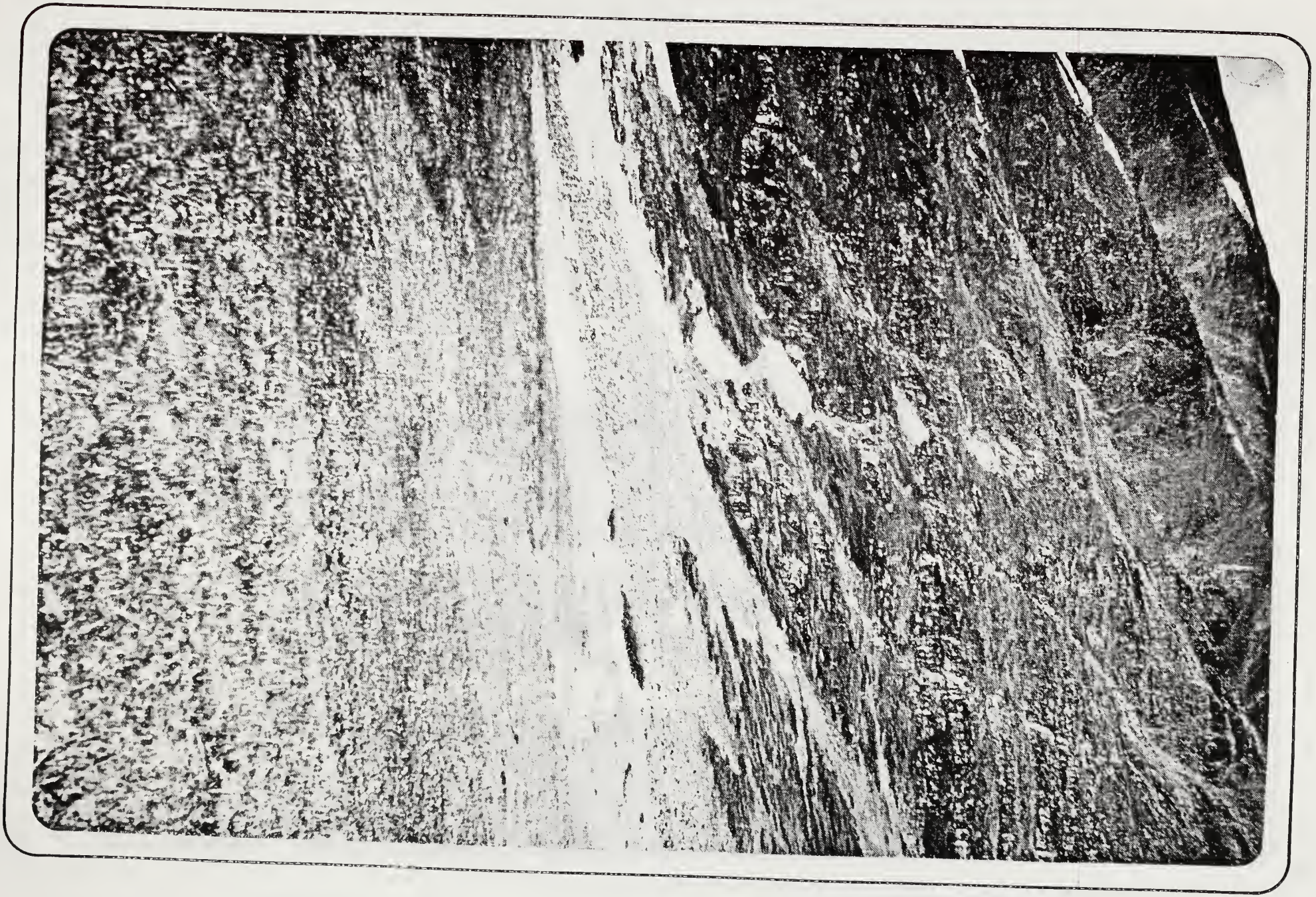
No perminent streams present; snowmelt watercourse immediately below mine had temperature of 37° F, pH of 7.0. Water draining mine adit has a discharge of 1-2 cfs and a pH of 6.8.

Modern mining equipment noted at airstrip including small protable 5" floating suction dredge and sluice box for in-stream use. Other equipment present at the landing site indlude 2-wheeled trail bike, snowmobile and sled, and fuel barrel chache.

Observed a pool approximately 12-13 feet wide and 2-3 feet deep in Golconda Creek.

III. h. Old mining camp present in valley and several historic mines, including Yellowband Mine on Hucarco claim. This mine, though damaged by avalanches, still merits evaluation. Whole area should be evaluated for possible inclusion on National Register of Historic Placer. PR = 2.5+, H = 4.0+

NOTES



General location of Hucarco claim and Yellowband Mine.



WRST Mining Claims HUCARCO

View of Yellowband Mine complex after snowslide in winter of 1982.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Kennicott Claims

b) Individual claim names Sourdough Peak Placer

c) Number of claims 1 acres 40.00

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) NW 1/4 S19, T5S, R14E, CRM
McCarthy B-6

g) BLM serial number(s) AA 016487

h) Owner(s): name/address
Beverly A. Doran
3811 Knik Ave.
Anchorage, AK 99503

name/address
Vincent J. Doran, Jr.
(same address)

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken ground

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Kennicott River / McCarthy Creek

c) Hydrology/stream characteristics (McCarthy Creek on claim)

-estimated discharge 525 cfs
-average stream depth 3 feet
-average stream width 35 feet
-average active channel width 50-100 feet
-average floodplain width 500 to 1,000 feet
-stream length 20.2 miles from claim to source
-stream gradient 1°
-streambed material could not determine because of turbidity

-streambanks exposed on north side (rubble, boulder), forested on south side

-channel disturbance Old bridge site just upstream from claim. Washed out bridge on north bank.

d) Water quality

-water temperature 54°F

-pH 7.4

-color medium brown

-turbidity turbid

e) Wildlife (observed or evident) moose tracks

f) Vegetation Riparian hardwoods (willow, poplar, cottonwood) with scattered spruce on higher ground.

g) Geology/soils/topography Located on Quaternary stream alluvium. A 100 foot high bluff on unconsolidated glacial moraine overlooks the McCarthy River floodplain. Soils, developed only on the higher elevation moraine and slopes to the floodplaine are rocky organic loam, 6" to 12" deep.

h) Cultural resources Low prehistoric site potential, medium potential for historic sites due to proximity to town of McCarthy.

i) Weather conditions during site reconnaissance sunny, high clouds, light winds from SE

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: Log cabin and old hangar present on the old landing strip.

Access/roads: road through claim from McCarthy to old Nizina River bridge.

Airstrip located adjacent to claim.

No evidence of past mining activity however stream bed of McCarthy Creek appears to have been disturbed.



WRST Mining Claims KENNICOTT

General location of Sourdough Peak placer claim at mouth of McCarthy Creek.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Kennicott Claims

b) Individual claim names Kennecott Glacier Claims #1-#5

c) Number of claims 5 acres 100.00

d) Claim type: placer/lode/millsite/other rework tailings of Kennicott Mi

e) Patented Unpatented U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) SW 1/4 S28, N 1/2 S33, T4S, R14E, CRM McCarthy B-6

g) BLM serial number(s) AA 024982-024986

h) Owner(s): name/address

Melvin N. Barry
323 W. Harvard
Anchorage, AK 99501

Gordon C. Burdick
McCArthy, AK 99695

William Francis Barry
754 Bogard Rd.
Palmer, AK 99645

i) Commodity(ies) copper

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Kennicott Glacier

c) Hydrology/stream characteristics (Bonanza Creek/National Creek)

-estimated discharge 8 cfs / 18 cfs
-average stream depth 6"/8"
-average stream width 8 feet/9 feet
-average active channel width 8 feet / 22 feet
-average floodplain width 50 feet/85 feet
-stream length 2.5 mi / 2.2 mi
-stream gradient 10° / 10°
-streambed material intermixture of gravel, rubble, boulders/ rubble, boulders (algae-covered)

-streambanks forested (willow)/exposed on north side (cobble, boulders) forested south side (alder)
-channel disturbance flows through tailings and Kennecott development/debris in channel, less than 50 feet from tailings

d) Water quality

-water temperature 45° F / 45° F
-pH 7.5 / 7.2
-color clear / clear
-turbidity non-turbid snowmelt stream / flowing clear

e) Wildlife (observed or evident) none observed during reconnaiss

f) Vegetation covered primarily by shrubs; willow, alder, poplar with scattered spruce. Western edge of claims borders Kennicott Glacier (little vegetation)

g) Geology/soils/topography Quaternary glacial moraine overlying Nikolai Greenstone, on 5° to 15° slope facing WSW. Soils are 12" to 15" deep rocky loams supporting dense shrub and cottonwood vegetation.

h) Cultural resources Claims have very low potential for prehistor sites because of past disturbance by mining activities or presence of glacial moraine. Historic site potential is high- claims encompass a National Register of Historic Places district (Kennicott Mines, 1976) and a site on Alaska Heritage Resources Survey (XMC-001). PR=0-1, H=5.0.

i) Weather conditions during site reconnaissance sunny, high clouds, light winds from the south, 82° F.

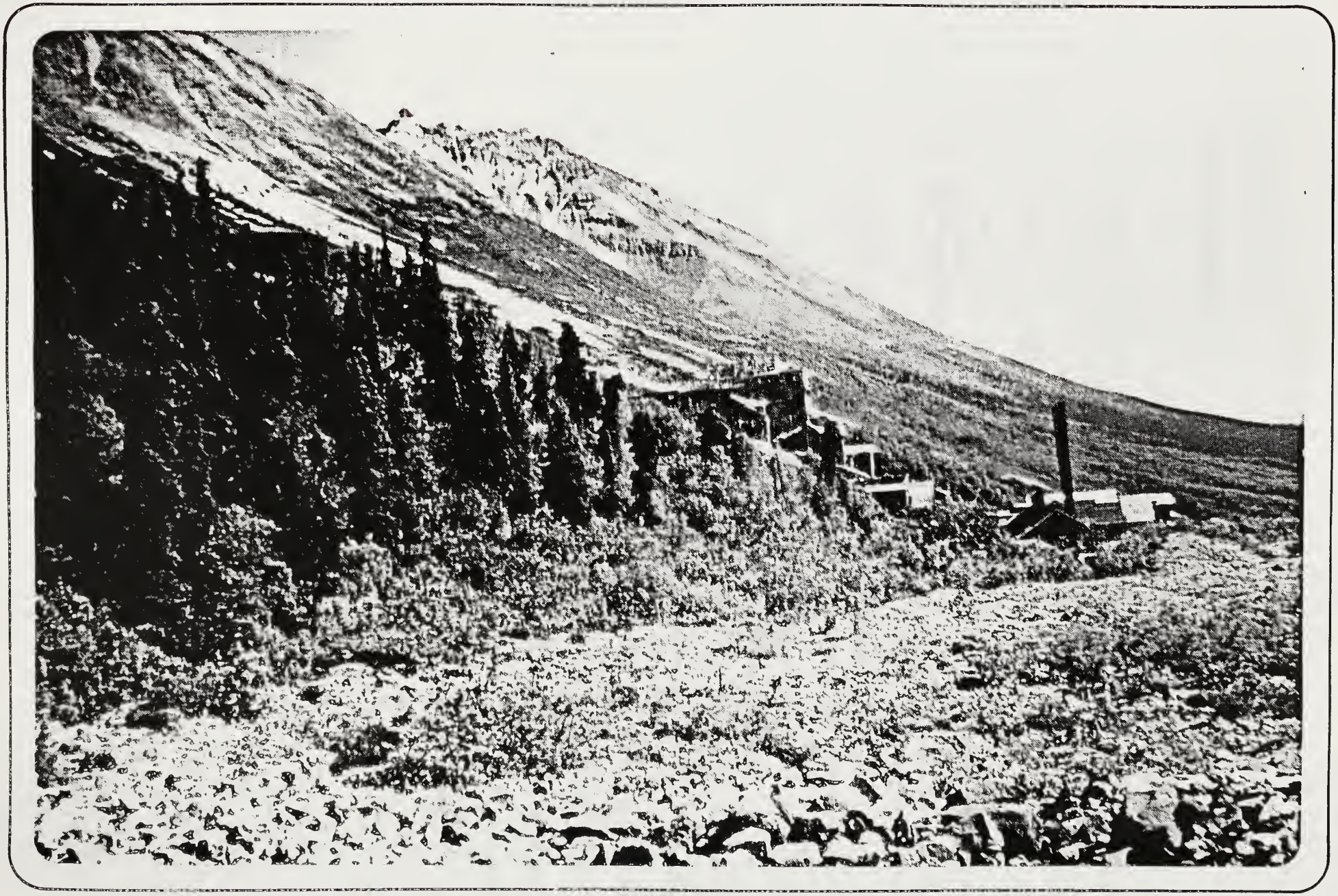
IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: Town of Kennecott

Tailings piles contain abundant azurite, bornite and covellite.

Claims are shown to cover the entire town site of Kennecott. Refer to published reports for mining history and building inventory.

BLM/MAR location includes S29, T4S, R14E, CMR.



WRST Mining Claims KENNICOTT

General location of Kennicott Glacier Claims Nos. 1-5 on tailing piles below town of Kennicott.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Kluvesna River

b) Individual claim names Franklin, Franklin No. 2, and Franklin No. 3 Lode Claims

c) Number of claims 3 acres 52.193

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # 545933
mineral survey # 908

f) Location/USGS quadrangle(s) NE 1/4 S23, S24, T1S, R8E, CRM McCarthy D-8

g) BLM serial number(s) A 001698

h) Owner(s): name/address
Galena Bay Mining Co.
c/o B.F. Millard
General Delivery
Valdez, AK 99686

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/8/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kluvesna River

c) Hydrology/stream characteristics Kluvesna R./ small tributary

-estimated discharge _____
-average stream depth _____
-average stream width 55 feet
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material Could not determine because of turbidity/ gravels approx 1/2-3/4" diameter, some boulders, algae covered rocks.

-streambanks exposed (rubble, brushy)/brushy streambanks (wil alder), also grasses, mosses, equisetum, boulders, fine sedime
-channel disturbance none observed

d) Water quality

-water temperature
-pH
-color light brown
-turbidity present

e) Wildlife (observed or evident) Moose dropping and tracks. Sighted adult bald eagle flying low above the Kluvesna River. Bear tracks near river

f) Vegetation Shrub tundra on level sites (dwarf birch, willow, potentilla, reindeer lichen, spruce, netvein willow.) Scatter white and Black Spruce. Vegetative cover decreases as you gain altitude.

g) Geology/soils/topography Claim situated in Nikolai Greenstone near or over contact with Chitina Batholith diorite. Claim lies on N to NW slopes of 5° to 35° along S side of Kluvesna River Valley. Soils (3 to 15 inches deep) are rocky loam, deeper in lower elevation portion of claim, alternating with rock exposures and talus slope at higher elevation of claim.

h) Cultural resources Low to medium prehistoric site potential because of easy access and abundant natural resources. Historic site potential also low to medium. Patent is from historic mining period (1905-1915). PR=2.0, H=2.5+

i) Weather conditions during site reconnaissance sunny, scattered clouds

IV. COMMENTS AND OTHER OBSERVATIONS

No evidence of past or present mining activity.

BLM/MAR shows location only as S24, T1S, R8E, and does not list claim names.

HI and BLM/MAR give inaccurate claim acreages.

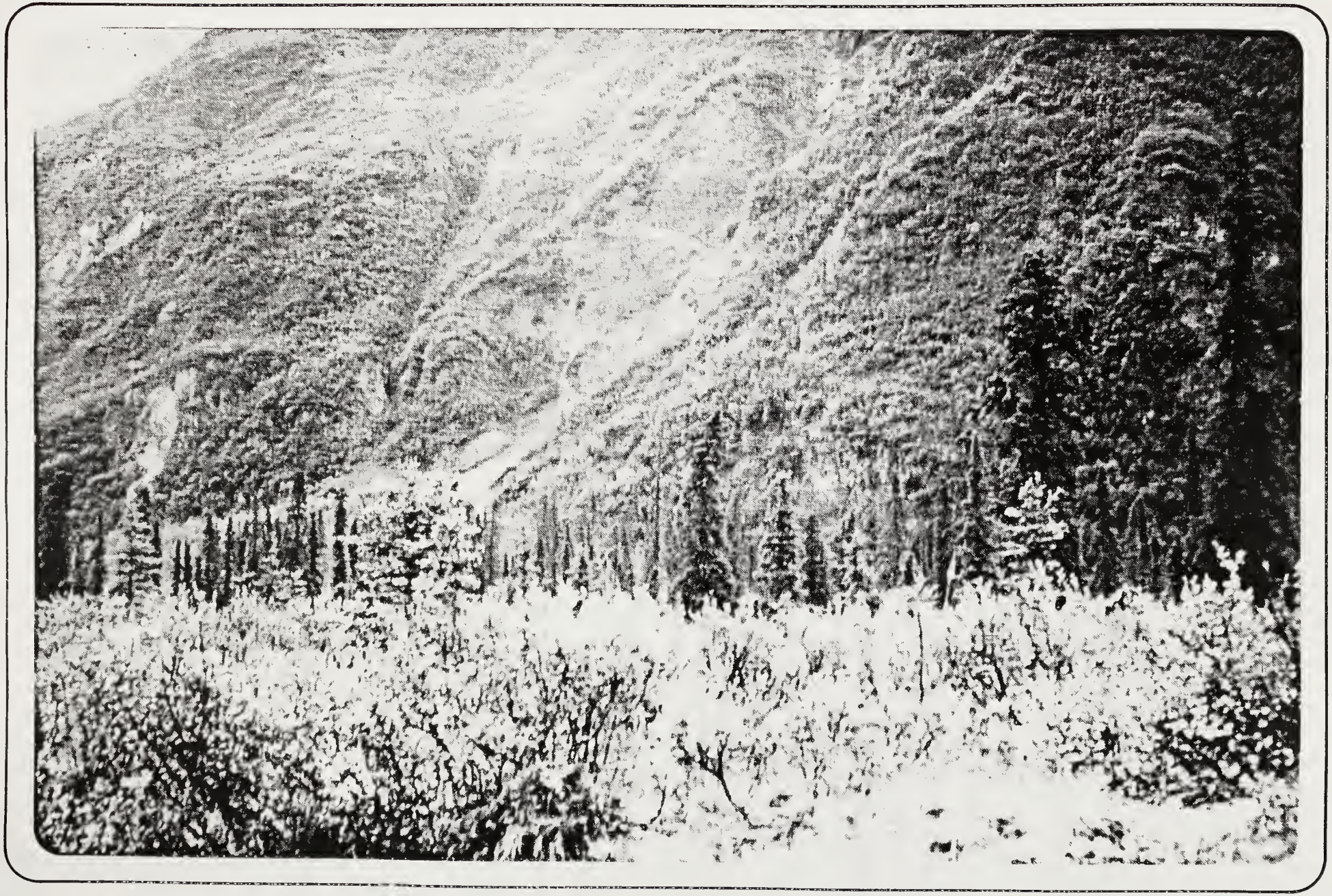
Small tributary was clear-running with slow flow rate. Observed Dipteran larvae in stream gravels.



WRST Mining Claims

KLUVESNA RIVER

View of Kluvesna River looking downstream from MS 908.



WRST Mining Claims

KLUVESNA RIVER

General location of MS 908 showing upper and lower claim areas.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Kuskulana Glacier

b) Individual claim names Whistler, Big Horn, Sentinel Extension, Last Chance, and Elizabeth Lodes

c) Number of claims 5 acres 86.741

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 974037
mineral survey # 1455

f) Location/USGS quadrangle(s) SW 1/4 S27, SE 1/4 S28, T2S, R10E, CRM McCarthy C-7

g) BLM serial number(s) A 006028

h) Owner(s): name/address name/address
Fanny Finch Gage, Otto C. Baumgaertner, Molly Gage Eigenmann, and Margaret Gage Dean (original claimants)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/3/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Kuskulana Glacier

c) Hydrology/stream characteristics (no streams present; some local drainage from snowmelt)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Game trail present.

f) Vegetation Minimal plant cover. Scattered patches of alpine tundra, permanent snowfields, barren rock talus slopes, small fel field in saddle. Rocks covered by lichens. Plants present include wooly lousewort, dwarf buttercup.

g) Geology/soils/topography Claim area covered by Nikolai Greenstone on a divide between the Kuskulana Glacier and a smaller north-south glacier; slopes 40° to 45°; surface composed of talus, bare rock outcrops, and snowfields.

h) Cultural resources Very low prehistoric site potnetial due to location in high, rugged terrain. Historic potential also low but with provision that claims were first located in 1905 during historic mining period.

i) Weather conditions during site reconnaissance clear, sunny, winds calm.

IV. COMMENTS AND OTHER OBSERVATIONS

No evidence of past or present mining activity.

Claims not listed in BLM/MAR.

Suspect claim location may be plotted incorrectly on MTP.



General location of MS 1455 above Kuskulana Glacier.



WRST Mining Claims

KUSKULANA GLACIER

View of Kuskulana Glacier and upper river drainage looking southwest from MS 1455 claim area.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Lakina River

b) Individual claim names Lakina #1-#18

c) Number of claims 18 acres 371.90

d) Claim type: placer/(lode)/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SW 1/4 S34, T3S, R11E; S3, E 1/2 S4, T4S, R11E, CRM McCarthy C-7

g) BLM serial number(s) AA 025420-25437

h) Owner(s): name/address

Melvin N. Barry
323 W. Harvard
Anchorage, AK 99501

name/address

Paul J. and William F. Barry
754 Bogard Rd.
Palmer, AK 99645

Gordon Burdick
McCarthy, AK
99695

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken air and ground

l) Reconnaissance date(s) 7/6/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Lakina River

c) Hydrology/stream characteristics (Mill Creek, 2 miles downstream from claim area)
-estimated discharge 120 cfs (stream was in flood stage)
-average stream depth 2 1/2 feet
-average stream width 8 feet
-average active channel width 10 to 15 feet
-average floodplain width 300' at confluence with Lakina river; cuts
-stream length 4.6 mi to head of Mill Creek through bedrock on claim.
-stream gradient 11° (on tributary running through claims)
-streambed material rubble (5-7" average diameter)/rubble (Lakina River

-streambanks exposed (fines, rubble)/exposed (fines, gravel, rubble)
-channel disturbance none observed in stream

d) Water quality (Mill Creek)

-water temperature 40° F
-pH 7.3
-color light brown
-turbidity turbid glacial melt stream

e) Wildlife (observed or evident) Sighted game trails in vicinity of claims from air.

f) Vegetation Spruce forest below claim group west of Lakina River. Grades into shrub tundra (lower SE portion of claims) and exposed rock as elevation increases. Willow and alder thickets along streams.

g) Geology/soils/topography Triassic age Nikolai Greenstone underlies east half of claim, Chitistone and Nizina Limestone located on west half with a N-S contact fault through the center of the claim area; claim area straddles a 1/2 mile wide N-S drainage and covers a SE facing slope east of the drainage; soils are organic rocky loam, 6 inches deep at lower elevations, thinning to 3" in upper portions of claim area.

h) Cultural resources Low to medium cultural resource potential. Mill Creek area appears rich in resources, thus prehistoric potential is low to medium. Historic potential is medium due to evidence of historic activity in area (remains of old cabin and mining on bench above creek). PR = 2.0, H = 3.0.

i) Weather conditions during site reconnaissance sunny, high clouds

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: old trail along sidehill to mine workings. Adit and associated tailings.

Buildings present and description: Old mine adit and unidentified tank-like structure located on claim 17 approximately. Old cabin located 1/2 south of claim area in S10, T4S, R11E.

Access/roads: Old Trail leads from Lakina River Valley up bench past old cabin site and into claim area to approximately location of adit located on claim 17.

Airstrip(s) present and location: Airstrip and adjoining hunting camp (corral and cabin) located on Lakina River at Mill Creek, approximately 1 mile SE of claim area.

Previous mining history and operations: small lode mine operation conducted on claims in past. Appears to be at least 30 years old or older. No current activity.

Mill Creek was cascading in a torrential flow down steep slope below claims and flooding into surrounding spruce forest above confluence with Lakina River.

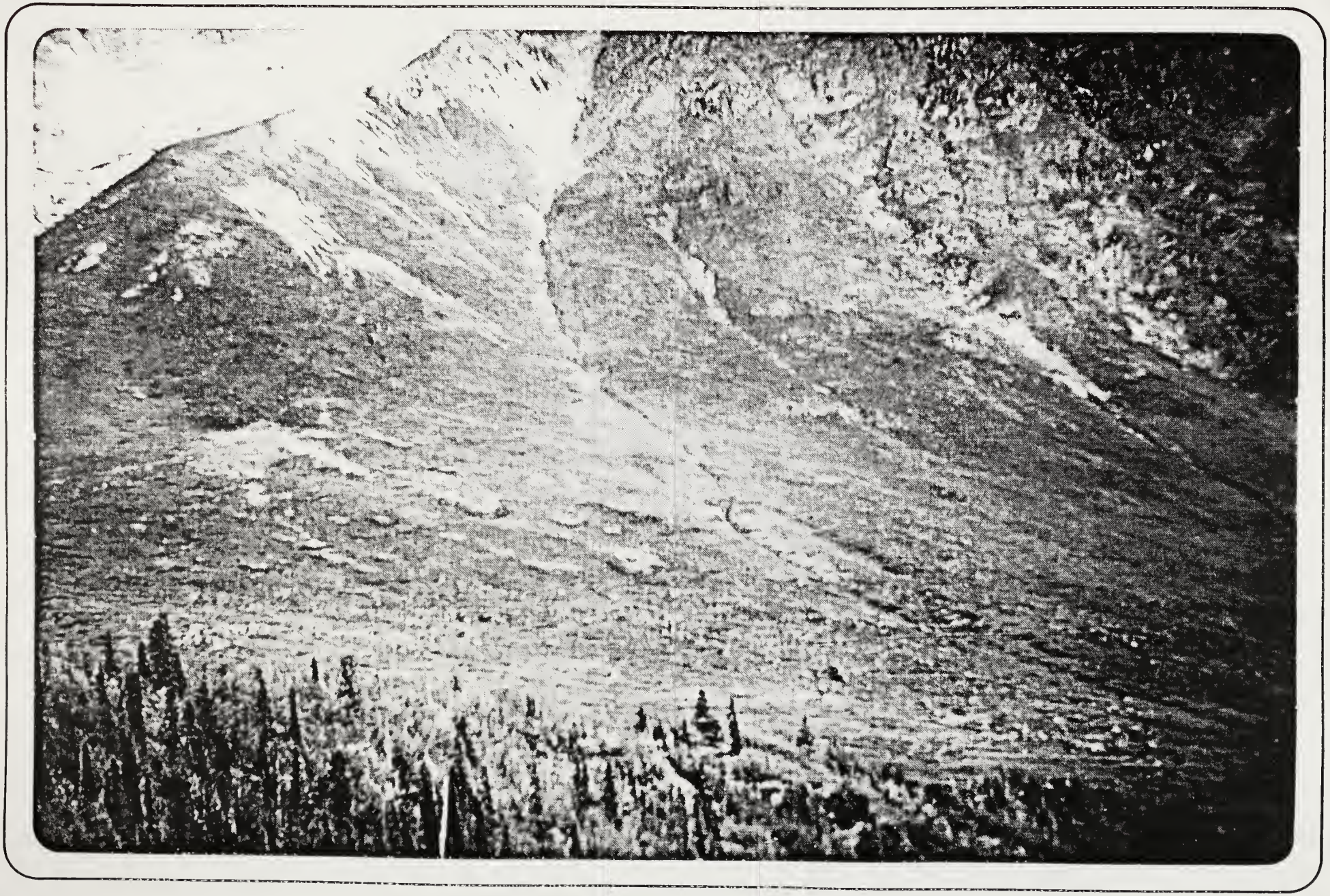
NOTES



WRST Mining Claims

LAKINA RIVER

General location of Lakina #1-18 claims on bench above Lakina River.



WRST Mining Claims

LAKINA RIVER

Aerial view of Lakina #1-18 claims. Note old road to mine opening.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name MacDougall Creek

b) Individual claim names Hilltop, Crystalight, Globe, Tiptop, Gopher Phoenix, Climax, Boden, Humboldt, Apex, Byron, Transport, Highball, and Dalton Lodes

c) Number of claims 14 acres 289.095

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 300956
mineral survey # 873

f) Location/USGS quadrangle(s) E 1/2 S34, W 1/2 S35, T3S, R9E; NW 1/4 S2, NE 1/4 S3, T4S, R9E, CRM McCarthy C-8

g) BLM serial number(s) A 000486

h) Owner(s): name/address
Theo Van Wagenen
General Delivery
Denver, CO 80201

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/3/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Kuskulana River

b) Drainage basin MacDougall Creek

c) Hydrology/stream characteristics

-estimated discharge 1.5 ft 3/sec.
-average stream depth 3"
-average stream width 2'
-average active channel width 5-8'
-average floodplain width 50'
-stream length 1.1 mi
-stream gradient 10°
-streambed material Mix of materials from gravels to boulders

-streambanks exposed (boulder, rubble, gravel)

-channel disturbance none observed

d) Water quality

-water temperature 41°F
-pH 7.6
-color clear
-turbidity not turbid

e) Wildlife (observed or evident) Moose droppings near creek. Arctic ground squirrel burrows. White-crowned sparrow present

f) Vegetation Most of the claim area is covered by alpine tundra. South facing slopes covered by thick shrubs. Willow along MacDougall Creek grading into spruce at extreme north end of claim area. Plants present include Reindeer lichen, netleaf willow, dwarf birch, blueberry, dwarfed spruce, willows, potentilla, blue lupine. Valley walls: NE side forested, SW side brushy.

g) Geology/soils/topography Claim area lies on granite and diorite interface from the Jurassic age Chitina Valley Batholith; claim straddles a NW-SE trending drainage with an average slope of 10°. Slopes around old mine workings are about 20°. Soils are thin (3-6") rocky loam on 20° slopes, and 6-12" thick on 10° slopes.

h) Cultural resources Low to medium prehistoric site potential, especially in area closest to Kuskulana River. Historic potential in medium range. Remains of several cabins on lower claims and evidence of historic mining activities higher up on group. PR = 1.5, H = 2.5+.

i) Weather conditions during site reconnaissance clear, sunny, winds light, variable

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: There are several mine adits scattered throughout the claim area south of MacDougall Creek.

Buildings present and description: Old mine camp located on bench along southside of creek. Several cabin sites noted.

Access/roads: old road from Kuskulana River is no longer evident. Trail from cabin area into upper MacDougall Creek basin is still evident.

Previous mining history and operations: extensive workings present on these claims on the southside of MacDougall Creek. At least 5 separate adits noted. Upper basin of MacDougall Creek above claim area contains considerable debris from past mining activity.

BLM/MAR lists acreage as 306.00 acres, does not include S2, T4S, R9E, CRM in location information. MS873 also listed with A001468.

Creek cascades slowly over variety of streambed materials (gravel to boulders). Observed several small pools, including on approximately 4 feet wide and 1-1 1/2 feet deep.

BLM/MAR claim location information is incomplete; claim acreage figure given is inaccurate (should be 289.095 acres). MS873 also listed under A001468, should investigate why. Also see comments for Clear Creek Claims, MS 918, A001468.

Ahtna Corporation may take conveyance to these claims in addition to Nelson Mountain and Kuskulana River (Berg Creek) claims.

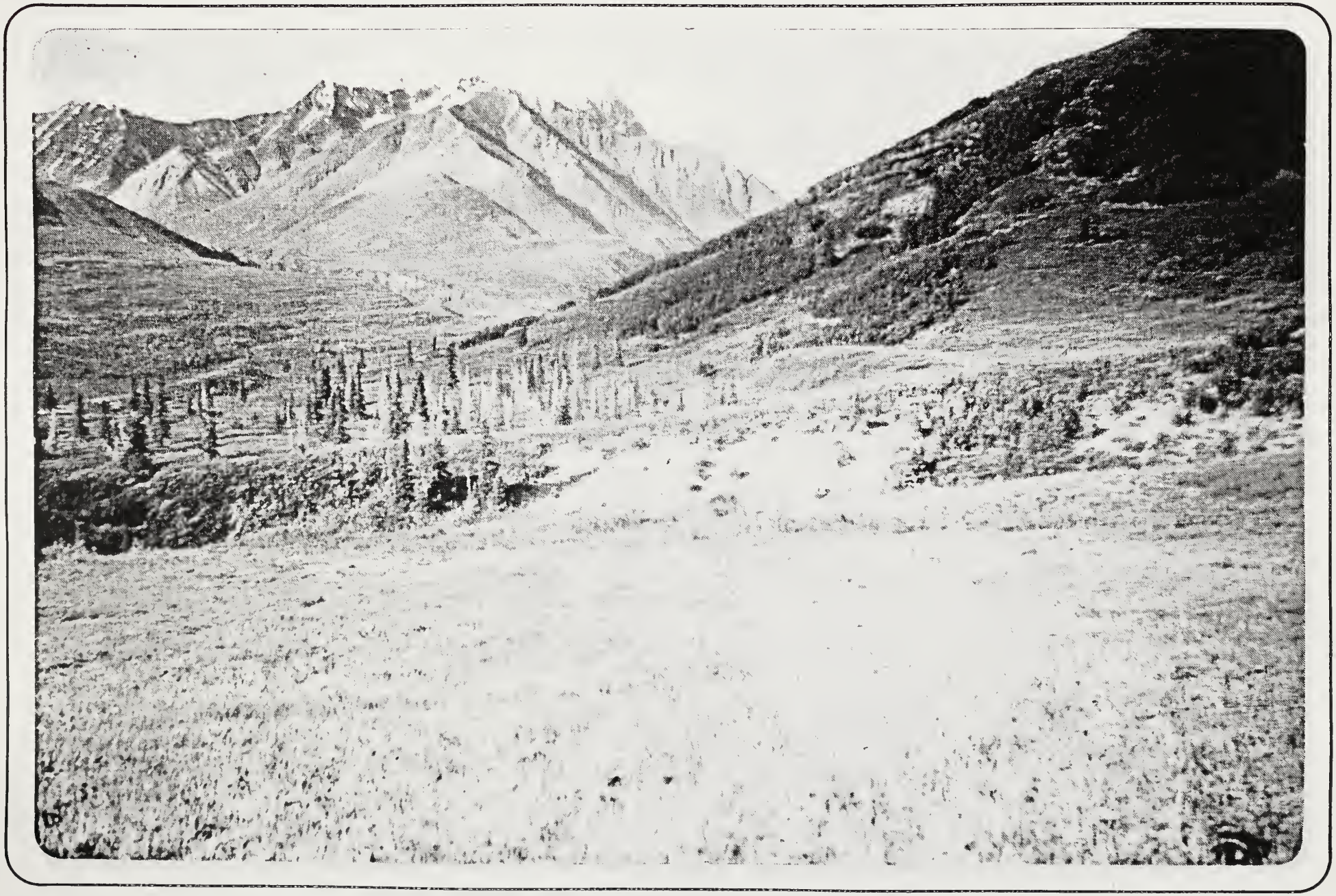
NOTES



WRST Mining Claims

MACDOUGALL CREEK

Aerial view of MS 873 showing old camp and mine adit.



WRST Mining Claims

MACDOUGALL CREEK

General location of MS 873 looking northeast at upper Kuskulana River drainage.



WRST Mining Claims

MACDOUGALL CREEK

General location of MS 873 looking southeast up MacDougall Creek drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name McCarthy Creek

b) Individual claim names Spokane Placer

c) Number of claims 1 acres 160.00

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 311369
mineral survey # 875

f) Location/USGS quadrangle(s) SE 1/4 S1, NE 1/4 S12, T4S, R14E, CRM McCarthy C-5

g) BLM serial number(s) A 001224

h) Owner(s): name/address name/address
F.G. Coggin
General Delivery
Houghton, MI 49931

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin McCarthy Creek

c) Hydrology/stream characteristics

-estimated discharge 450 cfs
-average stream depth 18 inches
-average stream width 30 ft.
-average active channel width 50 to 100 feet
-average floodplain width 500 to 1,000 feet
-stream length 5.5 mi.
-stream gradient 1°
-streambed material gravel, rubble

-streambanks exposed (rubble and gravel), forested (willow, a few spruce, brush), undercut bank, overhanging willows, rock outcrop, mossy r
-channel disturbance Airstrip, buildings on floodplain

d) Water quality

-water temperature 41°F
-pH 7.2
-color slight gray coloration
-turbidity slightly turbid

e) Wildlife (observed or evident) Moose, rabbit tracks, bear tracks. Observed one mayfly nymph species (Ephemeroptera) underneath rock in McCarthy Creek. Golden Eagle sighted.

f) Vegetation Floodplain vegetation. Primarily willow and larger cottonwood.

g) Geology/soils/topography Older and younger Quaternary alluvium found in stream bottom and floodplain; higher portions of floodplain have 6" to 1 foot of rocky loam soil; active stream channel and frequent flooding zone consists of non-vegetated sand, gravel, and boulders. The claim area lies entirely within the flat valley floodplain.

h) Cultural resources Claim located in McCarthy Creek floodplain. Low-to-medium range prehistoric and historic site potentials. PR = 1.5, H = 2.0.

i) Weather conditions during site reconnaissance Sunny

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: some buildings just south of claim - not examined. Cabin across Diamond Creek appears occupied.

Access/roads: road to claim area from airstrip.

Airstrip(s) present and location: airstrip immediately adjacent to south end of claim.

Previous mining history and operations: Some flagging noted on claim area. Possibly surveyed.

Chief Nikolai and his group are reported to have used this area or near it.

BLM/MAR shows 60.001 acres surveyed for the Spokane Placer.
No claim name listed

Location as given slightly inaccurate. Proper location is approximately 300-400 feet to east, according to MSP.

NOTES



WRST Mining Claims McCARTHY CREEK

View of Spokane Placer (MS 875) looking north.



WRST Mining Claims

McCARTHY CREEK

View of Spokane Placer looking south.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name McCarthy Creek

b) Individual claim names Hero Millsite

c) Number of claims 1 acres 4.591

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 1041145
mineral survey # 1081 B

f) Location/USGS quadrangle(s) SE 1/4 S12, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 007120

h) Owner(s): name/address name/address
Mother Lode Copper Mines Co.
(orginal claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT

(see description for Spokane Placer Claim)

IV. COMMENTS AND OTHER OBSERVATIONS

Not listed in the BLM/MAR.

Location as given is slightly inaccurate. Proper location is approximately 400 feet to the east.

Associated with Hero Lode (MS 1081 A) which is described in the Bonanza Ridge Claim group package.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name McCarthy Creek

b) Individual claim names Marvelous Millsite

c) Number of claims 1 acres 5

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # 1010285
mineral survey # 1082B

f) Location/USGS quadrangle(s) SE 1/4 S12, T4S, R14E, CRM
McCarthy C-5

g) BLM serial number(s) A 005994

h) Owner(s): name/address
Mother Lode Coalition Mines Co.
c/o Donohoe and Dimond
Cordova, AK. 99574

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 7/1/82

III. SURROUNDING ENVIRONMENT

(see description for Spokane Placer Claim)

IV. COMMENTS AND OTHER OBSERVATIONS

Associated with Godfrey Lode (MS 1082A) in Bonanza Ridge claim group.

BLM/MAR does not break MS 1082 into parts A and B

Need to verify whether claim is plotted correctly on MTP

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Middle Fork White River

b) Individual claim names Copper Age, Chalcocite, Last Chance, Amethyst, Virdi, Toby, Conglomerate, and Keystone Lode Claims

c) Number of claims 8 acres 164.66

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 349473
mineral survey # 920

f) Location/USGS quadrangle(s) SE 1/4 S26, E1/2 S35, W 1/2 S36, T1S, R19E, CRM McCarthy C-3

g) BLM serial number(s) not listed in BLM/MAR

h) Owner(s): name/ ame/address
Alaska Natazhat
(original clai

i) Commodity(ies)

j) Corner/discov

k) Photos taken

l) Reconnaissan

III. SURROUNDING ENVI

a) Major watershed ...

b) Drainage basin Middle Fork White Rive.

c) Hydrology/stream characteristics (tributory drainage/Middle Fork Creek)

-estimated discharge 40 cfs / 2250 cfs
-average stream depth 1'/3'
-average stream width 8'/75'
-average active channel width 20'/300'-500'
-average floodplain width 75'-100'/400'-600'
-stream length 1.6 mi/6.6 mi
-stream gradient 12°-15°/3°-5°
-streambed material rubble/boulders

-streambanks exposed (rubble)/exposed (rubble, boulders)

-channel disturbance none observed in either drainage

d) Water quality

-water temperature 46°F/46°F
-pH 7.5/7.7
-color slight gray coloration/medium brown
-turbidity slightly turbid/highly turbid

e) Wildlife (observed or evident) Sighted caribou on claim, also found caribou tracks. Arctic ground squirrel burrows

f) Vegetation Alpine tundra intermixed with shrub tundra along drainages.

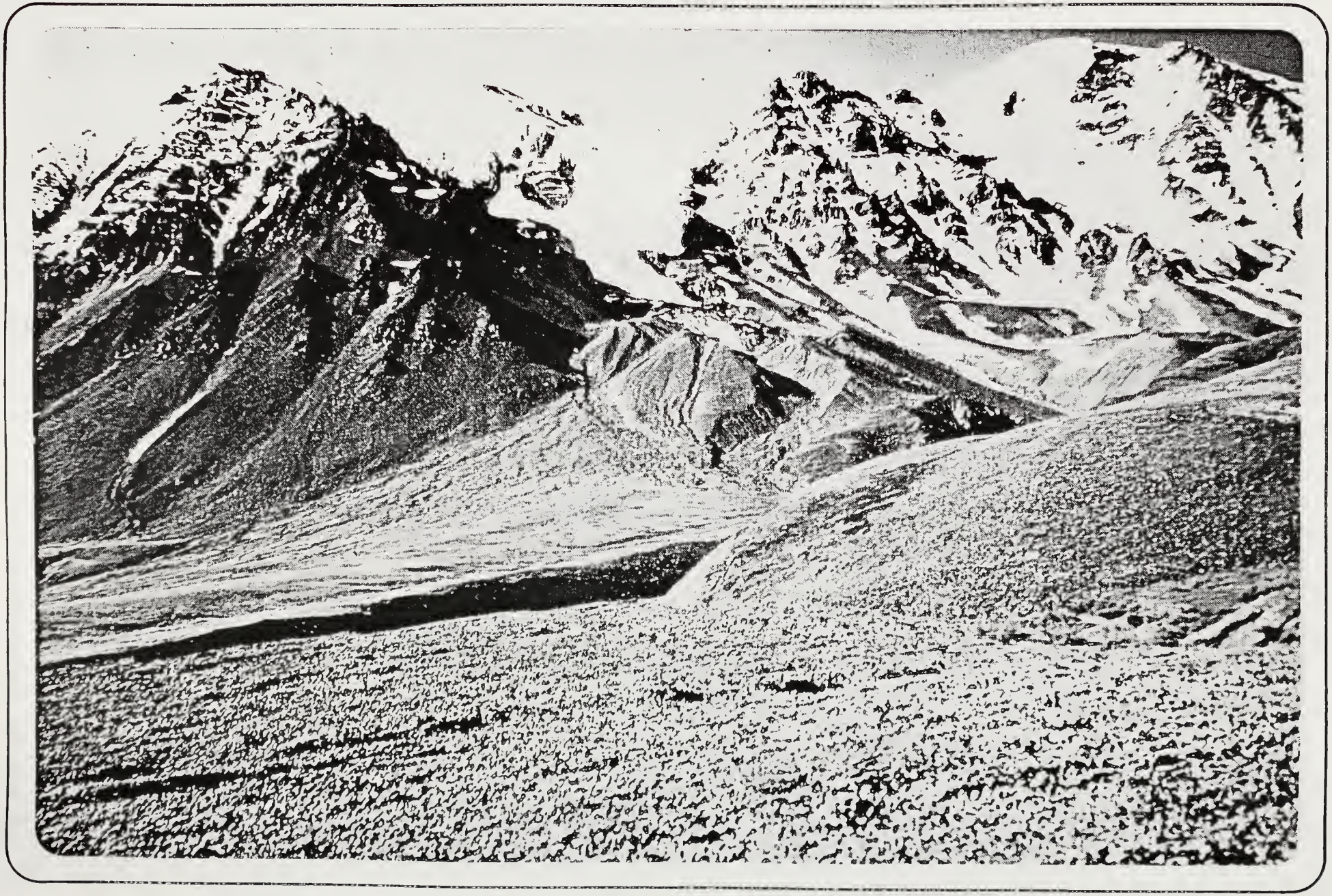
g) Geology/soils/topography Nikolai Greenstone, alluvium of Middle Fork Creek, and a small amount of Station Creek volcanics at north end of claim. Claim group lies mainly on lower slopes of north-facing mountainside with a steep (35°-40°) upper slope, and gentler (14°) lower slope. Soils found only on lower slopes are rocky clay loams rich in organic matter, 6 to 12" deep.

h) Cultural resources Low range cultural resource potentials PR = 1.5, H = 1.5.

i) Weather conditions during site reconnaissance sunny, clear

IV. COMMENTS AND OTHER OBSERVATIONS

MSP indicates that MS 920 is located in the Forty-Mile Mining District. Thus, it may have been erroneously associated with the park. MTP shows location of MS 920 in S26, 35, 36, T1S, R19E, CRM. Moerlein report shows location as S5, 6, 7, 8, T2S, R20E, CRM.



WRST Mining Claims

MIDDLE FORK WHITE RIVER

General location of MS 920 looking south from Middle Fork.



WRST Mining Claims

MIDDLE FORK WHITE RIVER

View of MS 920 looking northwest up Middle Fork drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Middle Fork White River

b) Individual claim names Gravity, Glacier Bear, Copper King, Copper Prince, and Liberty Lodes

c) Number of claims 5 acres 102.78

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 486284
mineral survey # 943

f) Location/USGS quadrangle(s) SE 1/4 S19, S1/2 S20, NE 1/4 S29, T1S, R19E, CRM McCarthy D-3

g) BLM serial number(s) A 001640

h) Owner(s): name/address
Frank J. Nolan
817 Alaska Bldg.
Seattle, WA 98000

name/address

i) Commodity(ies)

j) Corner/discovery monuments f

k) Photos taken aerial on

l) Reconnaissance date(s)

III. SURROUNDING ENVIRONMENT

a) Major watershed White Riv

b) Drainage basin Middle Fo

c) Hydrology/stream characterist ıe ground)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Observed group (5-6) Dall sheep on claim from A/C

f) Vegetation Barren, unvegetated rock and talus slopes.

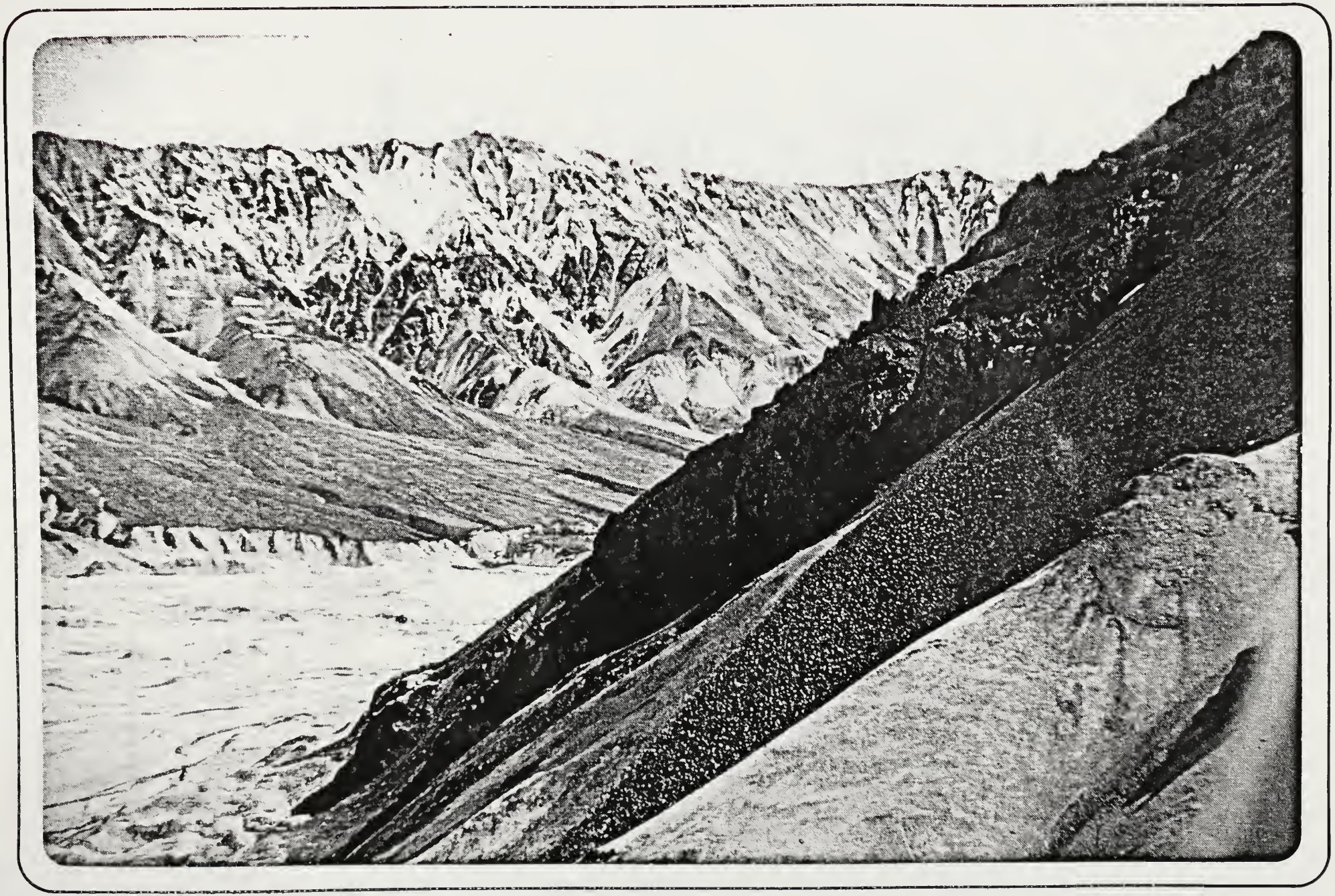
g) Geology/soils/topography Claim area rests on interface between Nikolai Greenstone and underlying marine sediments of the lower Permian Hasen Creek formation; claim area lies on the south side of the Middle Fork drainage with north and east slopes of 30 to 35°

h) Cultural resources Low cultural resource potentials due to elevation and ruggedness of terrain. PR = 1.0, H = 1.0

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

MSP indicates MS 943 is located in Forty-Mile Mining District many miles to the north. Thus, it may have been erroneously associated with WRST. BLM/MAR lists location for MS 943 as S12, T6S, R14E, CRM. Moerlein report shows location as S19, 20, 29, T1S, R19E, CRM.



WRST Mining Claims MIDDLE FORK WHITE RIVER

General location of MS 943 in upper Middle Fork drainage looking east. Claims area is on steep slopes in foreground.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Middle Fork White River Lodes

b) Individual claim names Lynx, Big Horn, Lone Star, and Monarch Lodes

c) Number of claims 4 acres 81.638

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # 486285
mineral survey # 944

f) Location/USGS quadrangle(s) S 1/2 S35, T1S, R19E, NW 1/4 S1, NE 1/4 S2, T2S, R19E, CRM McCarthy C-3

g) BLM serial number(s) A 001641

h) Owner(s): name/address
Frank J. Nolan
817 Alaska Bldg.
Seattle, WA 98000

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken _____

l) Reconnaissance date(s) 7/2/82

III. SURROUNDING ENVIRONMENT

a) Major watershed White River

b) Drainage basin Middle Fork White River

c) Hydrology/stream characteristics (Claim area contains 2 streams, each about 1 mile in length. Neither stream was accessible. Their combined
-estimated discharge discharge measured below their confluence, was 40 cfs.)
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient 10° to 16°
-streambed material _____

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Observed 2 Dall sheep. Arctic ground squirrel burrows

f) Vegetation Alpine tundra.

g) Geology/soils/topography Nikolai Greenstone on 40° north facing mountain slope dissected by 2 drainages. Surface composed of talus slope alternating with snowfield.

h) Cultural resources Low cultural resource potentials due to location on steep slope. PR = 0-1, H = 0-1.

i) Weather conditions during site reconnaissance Clear, cool

IV. COMMENTS AND OTHER OBSERVATIONS

MSP Indicates that MS 944 is located in Forty-Mile Mining District. Thus, these claims have been erroneously associated with WRST. BLM/MAR gives location as S12, T1S, R15E; S14, 23, 24, T1S, R16E; and S23, 24, T2S, R16E, CRM. Moerlein, ". . . as best as I could determine from the mineral survey notes . . ", shows location as S35, T1S, R19E, and S1, 2, T2S, R19E, CRM.



WRST Mining Claims

MIDDLE FORK WHITE RIVER

General location of MS 944 as seen from air.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Mountain Gril

b) Individual claim names Mountain Gril #1-165

c) Number of claims 165 acres 3409.09

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S34,35,36, T4S, R16E; S31, W 1/2 S32, T4S, R17E; N 1/2 S1, N 1/2 S2, T5S, R16E; NW 1/4 S4, N 1/2 S5, N 1/2 S6, T5S, R17E, CRM McCarthy B-4 and B-5

g) BLM serial number(s) AA030868-31032

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 7/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Grotto Creek / Chitistone River

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no measurements taken)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) No wildlife species or signs observed from the aircraft.

f) Vegetation Vegetation elevationally controlled beginning with spruce mixed hardwood on lower elevation slopes grading into shrub tundra on upper benches and finally into alpine tundra and exposed rock at higher elevations.

g) Geology/soils/topography Bedrock within this claim group consists of Nikolai Greenstone in contact with Chitistone Limestone overlain by Nizina Limestone. Several north to NE-SW trending faults cross the area; topography is rugged with a total relief of over 4,000 feet. South, east and west slopes dominate, and range from 11° to 60° in inclination. Thin rocky soils and rock talus. Soils deeper and more organic-rich along lower slopes & benches.

h) Cultural resources _____

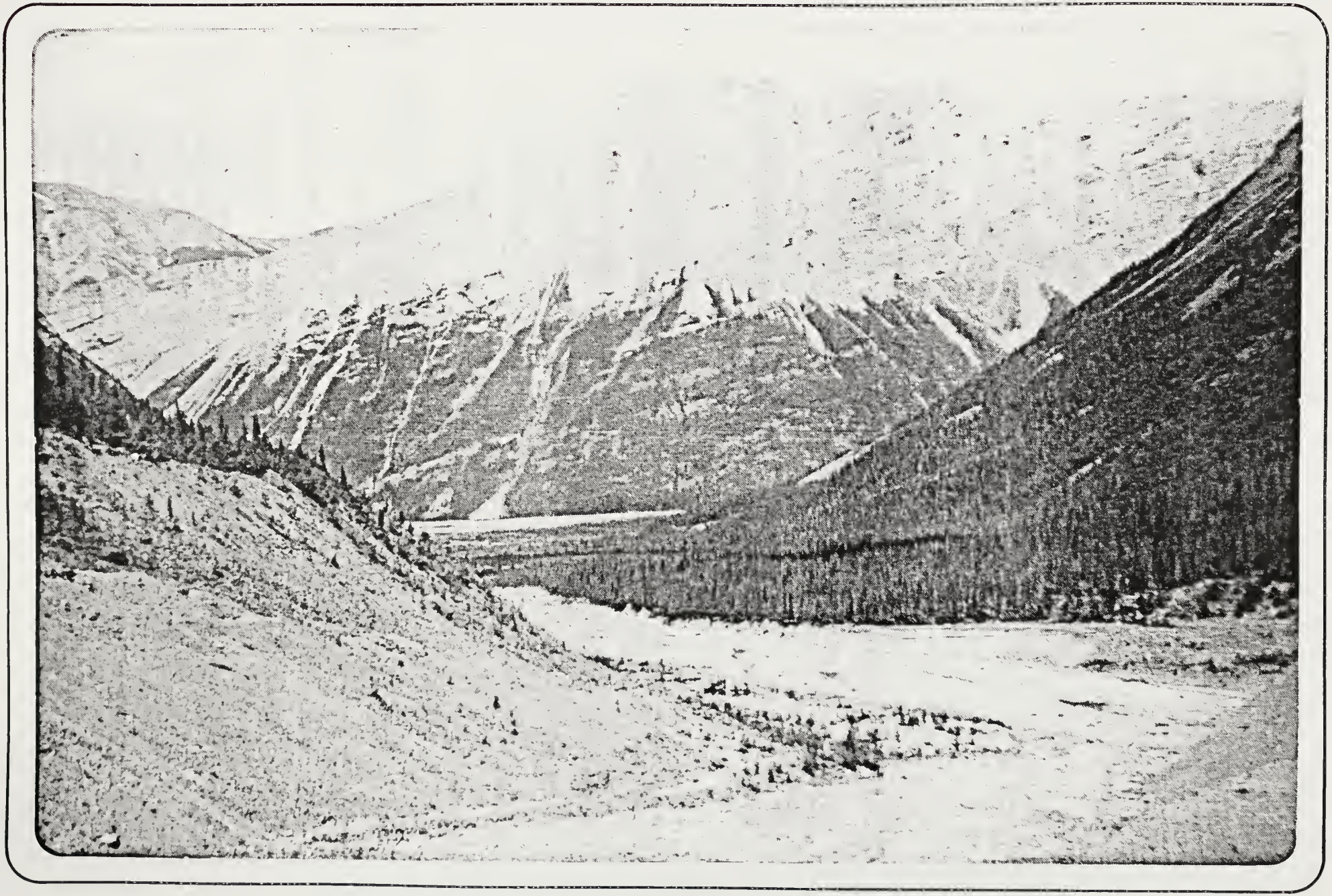
i) Weather conditions during site reconnaissance _____



WRST Mining Claims

MOUNTAIN GRIL

View of Grotto Creek and portion of Mountain Gril claim group.



WRST Mining Claims

MOUNTAIN GRIL

East end of Mountain Gril claims in background as seen from Radovan Gulch.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Mt. Sulzer

b) Individual claim names Wolverine and Mamoth lode claims

c) Number of claims 2 acres 19.897

d) Claim type: placer/lode/millsite/other _____

e) Patented/Unpatented U.S. patent # 486282
mineral survey # 941

f) Location/USGS quadrangle(s) W 1/2 S2, T3S, R20E, CRM McCarthy C-2

g) BLM serial number(s) A 001638

h) Owner(s): name/address
Frank J. Nolan
817 Alaska Bldg.
Seattle, WA 98000

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken _____

l) Reconnaissance date(s) 6/28/82

III. SURROUNDING ENVIRONMENT

a) Major watershed White River

b) Drainage basin Unnamed tributary 5 mi E. of Mt. Sulzer

c) Hydrology/stream characteristics

-estimated discharge 0.3 cfs
-average stream depth 2 inches
-average stream width 15 inches
-average active channel width (ephemeral snowmelt stream)
-average floodplain width _____
-stream length 0.2 miles
-stream gradient 36°
-streambed material rubble, boulder, mosses

-streambanks exposed (rubble, boulders; some tundra vegetation)

-channel disturbance none observed

d) Water quality

-water temperature 38°F
-pH 7.7
-color clear
-turbidity not turbid

e) Wildlife (observed or evident) Dall sheep scat, caribou antlers and ptarmigan.

f) Vegetation Alpine Tundra Association.

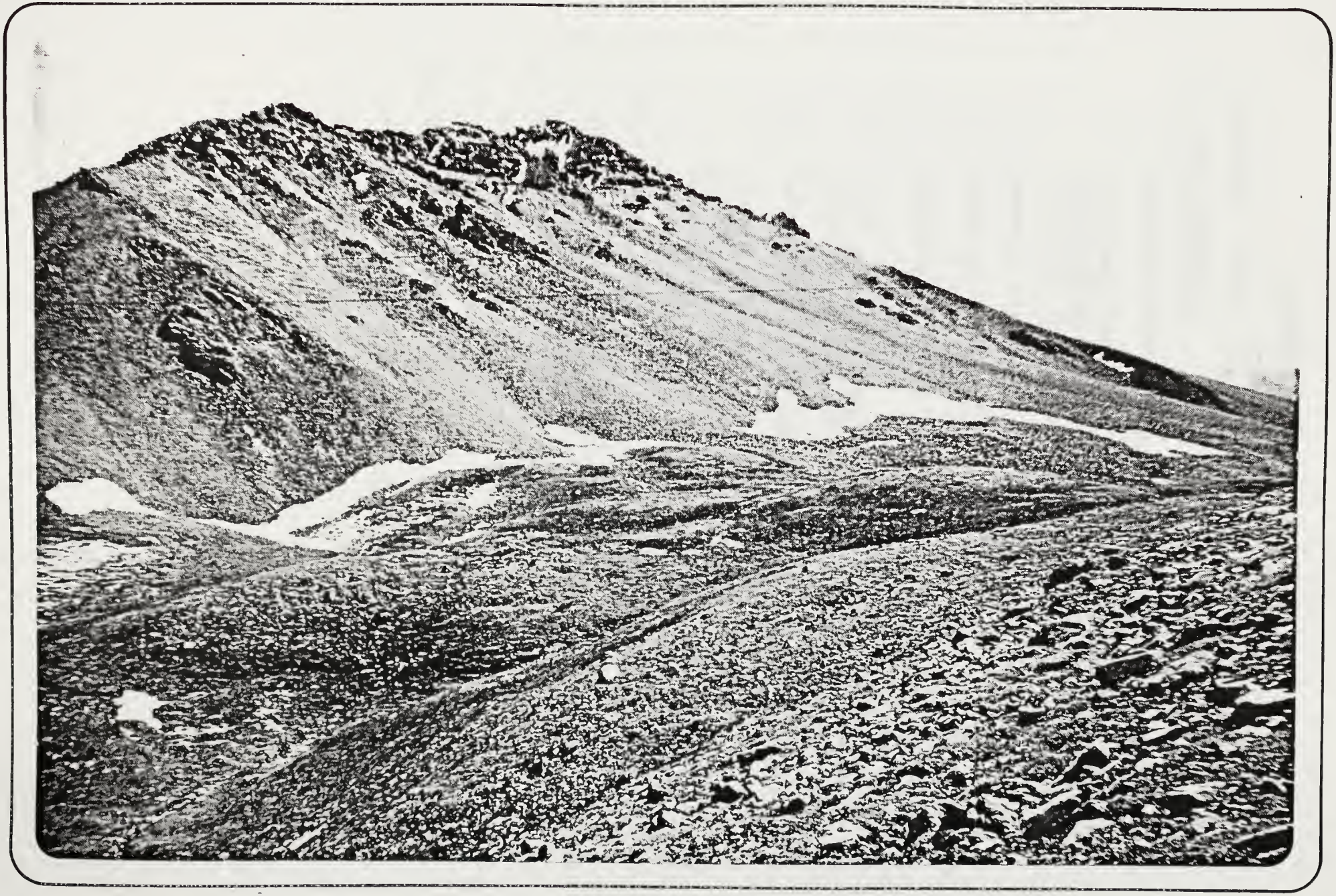
g) Geology/soils/topography Claim is over Nikolai Greenstone; Quarternary windblown deposits of pumice located at base of talus slope; coarse glacial rubble found near the valley bottom with boulders 1 to 3 feet in diameter; claim lies on a west facing talus slope with a 30 to 32° slope. Soil consists of glacial rubble, windblown pumice, and a discontinous organic mat less that 1/2 inch in thickness.

h) Cultural resources Low prehistoric site potential on the bare slope. Historic potential in medium range. Reamins of historic "tent frame" with a rock wall, rock cache, and historic period artifacts present on claim. Could have been miners or meat hunters camp. PR = 0-1, H = 3.0.

i) Weather conditions during site reconnaissance No precipitation last 6 days; partly cloudy and very windy.

IV. COMMENTS AND OTHER OBSERVATIONS

MSP indicates that MS941 is located in the Forty-Mile Mining District. Thus, claims may have been erroneously associated with WRST. BLM/MAR lists location as S15, T2S, R18E, CRM. Moerlein report shows location as S2, T3S, R20E, CRM.



General location of MS 941 looking southeast.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nelson Mountain

b) Individual claim names Francis No. 1, Queenie No. 1, Queenie No. 2, Patricia No. 1, Golden Boy No. 1, Hunt Nos. 1-5, Hunt Nos. 6-13, Bloom Creek No. 1-10

c) Number of claims 28 acres 578.48

d) Claim type: placer/lode/millsite/other _____

e) Patented/Unpatented U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) SE 1/4 S17, S20, W 1/2 S21, NW 1/4 S28, S29, T6S, R9E, CRM McCarthy B-8

g) BLM serial number(s) AA016471-16480 and 32624-32641

h) Owner(s): name/address

William J. Fike
P.O. Box 683
Anchorage, AK 99501

name/address

Howard Hunt
6924 E. 6th AVenue
Anchorage, AK 99504

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/5/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin _____

c) Hydrology/stream characteristics (no data collected)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material _____

-streambanks

-channel disturbance

d) Water quality (no data collected)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Game trails in claims area. Bear diggings, sheep scat, Arctic ground squirrel burrows

f) Vegetation Alpine tundra, snow, exposed rock on top of Nelson Mountain; shrub tundra (between lakes and peak) willows, dwarf birch, potentilla, dwarfed spruce, heather, spreadive, spreading juniper, lichens.

g) Geology/soils/topography Low grade marble and greenschist/ amphibolite facies metamorphic rocks of the Pennsylvanian/ Permian age Skolai Group; claim area occupies entire west half of Nelson Mountain from 3,300 to 5,500 feet, with slopes of 5 to 30° in all but an easterly direction; soils consist of 3" to 12" deep rocky clay loams with greater amounts of organic matter at lower elevation.

h) Cultural resources Low-to-medium cultural resource potential due to difficult access and rugged terrain. PR = 2.0, H = 1.0

i) Weather conditions during site reconnaissance Sunny, high clouds, light winds from east.

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: survey flagging still present on claims.

Previous mining history and operations: Area has been flagged and surveyed. Evidence of camp on top of mountain including tent sites and fuel cache. However all equipment had been removed and the area cleared up. No claim corners were found.

Lake on southwest side of the mountain would be suitable as a mining camp if properly located.



WRST Mining Claims NELSON MOUNTAIN

Aerial view of north side of Nelson Mountain showing general location of Hunt, Golden Boy, Francis, Queenie, and Patricia claims.



WRST Mining Claims

NELSON MOUNTAIN

South slopes of Nelson Mountain showing general location of Bloom Creek claims.



WRST Mining Claims

NELSON MOUNTAIN

Typical slope on Bloom Creek claims.



WRST Mining Claims

NELSON MOUNTAIN

View looking north across Chitina valley from top of Nelson Mountain. Hunt claims in foreground.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nelson Prospect

b) Individual claim names Spruce No. 1, Spruce No.2, Spruce No.3, Spruce No. 4, and Spruce Claim No. 5, Spruce Claim No. 6 Lodes

c) Number of claims 6 acres 93.059

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 1079921
mineral survey # 1588

f) Location/USGS quadrangle(s) E 1/2 S8, W 1/2 S9, T5S, R17E, CRM McCarthy B-4

g) BLM serial number(s) A 007978

h) Owner(s): name/address name/address
Charles Nelson (original claimant)
General Delivery
McCarthy Via Cithina, AK 99566

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/29/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitistone/Nizina Rivers

b) Drainage basin Glacier Creek

c) Hydrology/stream characteristics(no streams present)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no streams present)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Found suspected bear scat and tufts of grizzly bear hairs

f) Vegetation Willows, alder, white spruce, equisetum, bluebell, moss campion, heavily vegetated with mixed spruce and hardwoods.

g) Geology/soils/topography Bedrock is highly mineralized Chitistone limestone; containing a host of copper bearing minerals; contact with Nikolai Greenstone is probably within 100 ft of ground surface at mine; brown loamy soil with abundant limestone fragments, 6 inches to 1 foot deep; claim located on 42° northeast facing slope.

h) Cultural resources Low cultural resource potential. Area along hillside has slightly higher potential due to nearby location of historic Goat Trail. PR = 1.0, H = 1.5+.

i) Weather conditions during site reconnaissance Sunny, with high broken clouds. Precipitation: noe for past week. 70-75°F.

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: old mine, cabin, tent frame at least 2 adits, tramway. Note old cabins at base of bluff (Alex Carter) - big cabin and several smaller ones, tripod cache, etc.

Access/roads: old road still evident leading from river up to old mine workings. Heavily overgrown with willow/alder and washed out at bottom. Currently not usable.

Airstrip(s) present and location: Glacier Creek landing strip located less than a 1/4 mile north of claim.

Previous mining history and operations: None currently. Extensive past activity and development of claim.

CAUTION - several cases of old dynamite noted on claim. Dynamite sticks severely weathered and scattered along access road.

BLM/MAR and MTP show erroneous location for MS 1588 as S5, 8, T5S, R17E, CRM. BLM/MAR claim name listing is incomplete and figure given for acreage (97.0 acres) is inaccurate.



WRST Mining Claims NELSON PROSPECT

Nelson Prospect looking north across Chitistone River.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nikolai Butte

b) Individual claim names Nikolai Butte Placer

c) Number of claims 1 acres 20.0

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) W 1/2 S1, SE 1/4 S2, T6S, R16E, CRM McCarthy B-4

g). BLM serial number(s) AA024505

h) Owner(s): name/address
Doran, Pat and Vincent J. Jr.
3811 Knik Avenue
Anchorage, AK 99503

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (by air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Nikolai Gulch of Dan Creek

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length 1 mile to source
-stream gradient 11°
-streambed material

-streambanks

-channel disturbance

d) Water quality (no data collected)

-water temperature
-pH
-color
-turbidity

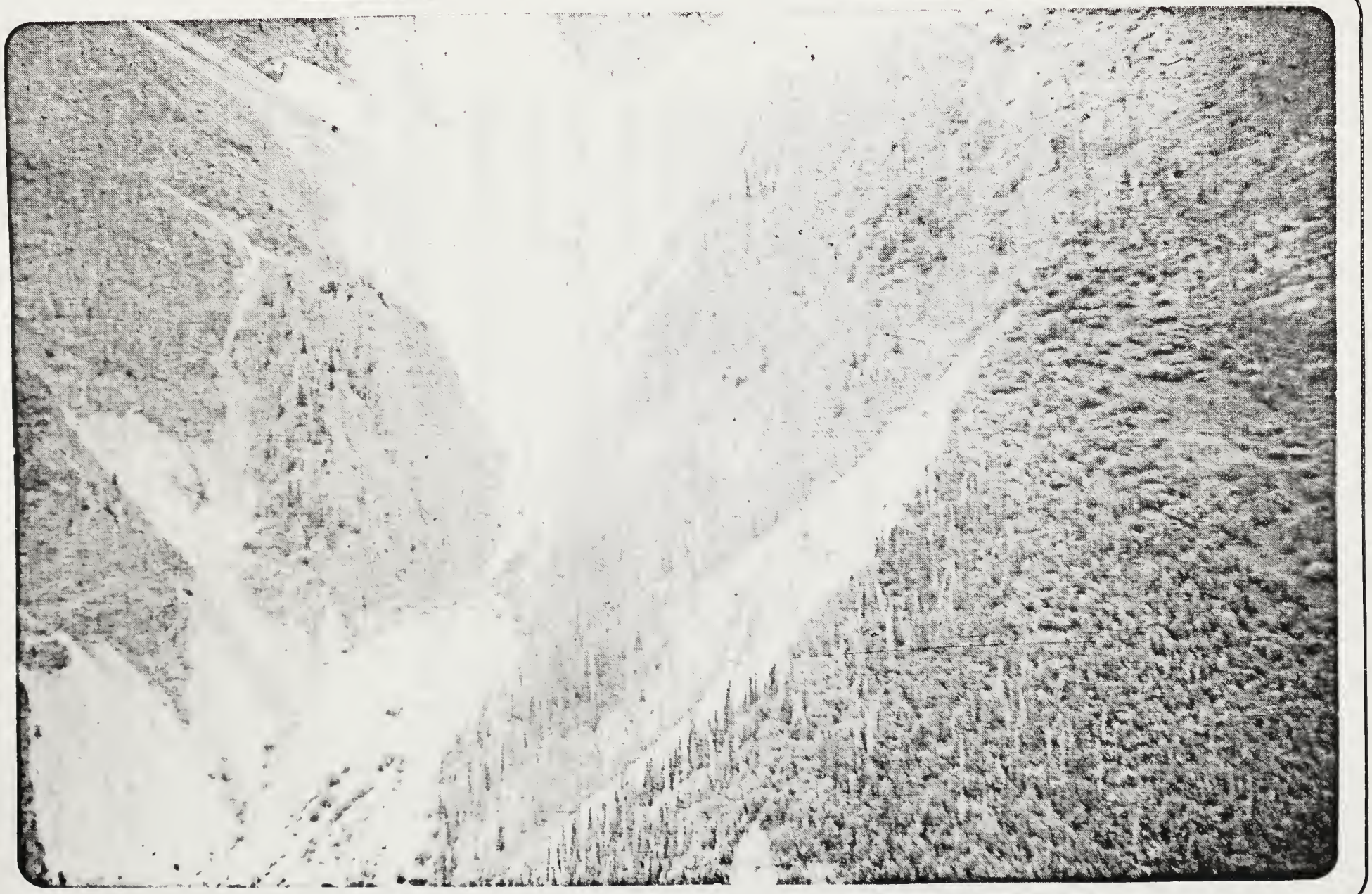
e) Wildlife (observed or evident) No wildlife species or signs observed from aircraft

f) Vegetation Primarily shrubs covering moraimal gravels, with some adjacent shrub tundra and spruce.

g) Geology/soils/topography Poorly sorted glacial moraine of Quaternary age; placer located in narrow drainage with an 11° gradient; Valley is oriented N-S with slopes of 15° to 25° facing SE and SW.

h) Cultural resources Low cultural resource potential due to location on barren, rugged terrain. PR = 0-1, H = 1.0

i) Weather conditions during site reconnaissance cloudy



WRST Mining Claims

NIKOLAI BUTTE

General location of Nikolai Butte placer claim on lower Nikolai Gulch.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nikolai Butte

b) Individual claim names Group No. 12 #1-12

c) Number of claims 12 acres 247.93

d) Claim type: placer/lode/millsite/other _____

e) Patented/Unpatented U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) E 1/2 S1, T6S, R16E; W 1/2 S5, S6, T6S, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA030220-30231

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken _____

l) Reconnaissance date(s) _____

III. SURROUNDING ENVIRONMENT (see Nikolai Butte, #1-19 and #21)

a) Major watershed Nizina River

b) Drainage basin Dan Creek

c) Hydrology/stream characteristics

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material _____

-streambanks _____

_____

-channel disturbance _____

_____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

_____

_____

e) Wildlife (observed or evident) _____

_____

_____

_____

_____

f) Vegetation _____

_____

_____

_____

_____

g) Geology/soils/topography _____

_____

_____

_____

_____

_____

_____

h) Cultural resources _____

_____

_____

_____

_____

i) Weather conditions during site reconnaissance _____

_____

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nikolai Butte

b) Individual claim names Nikolai Butte #1-19 and #21

c) Number of claims 20 acres 413.20

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S35, T5S, R16E; S1, T6S, R16E, CRM McCArthy B-4

g) BLM serial number(s) AA030302-30321

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Nikolai Gulch of Dan Creek

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no measurements taken)

-water temperature
-pH
-color
-turbidity

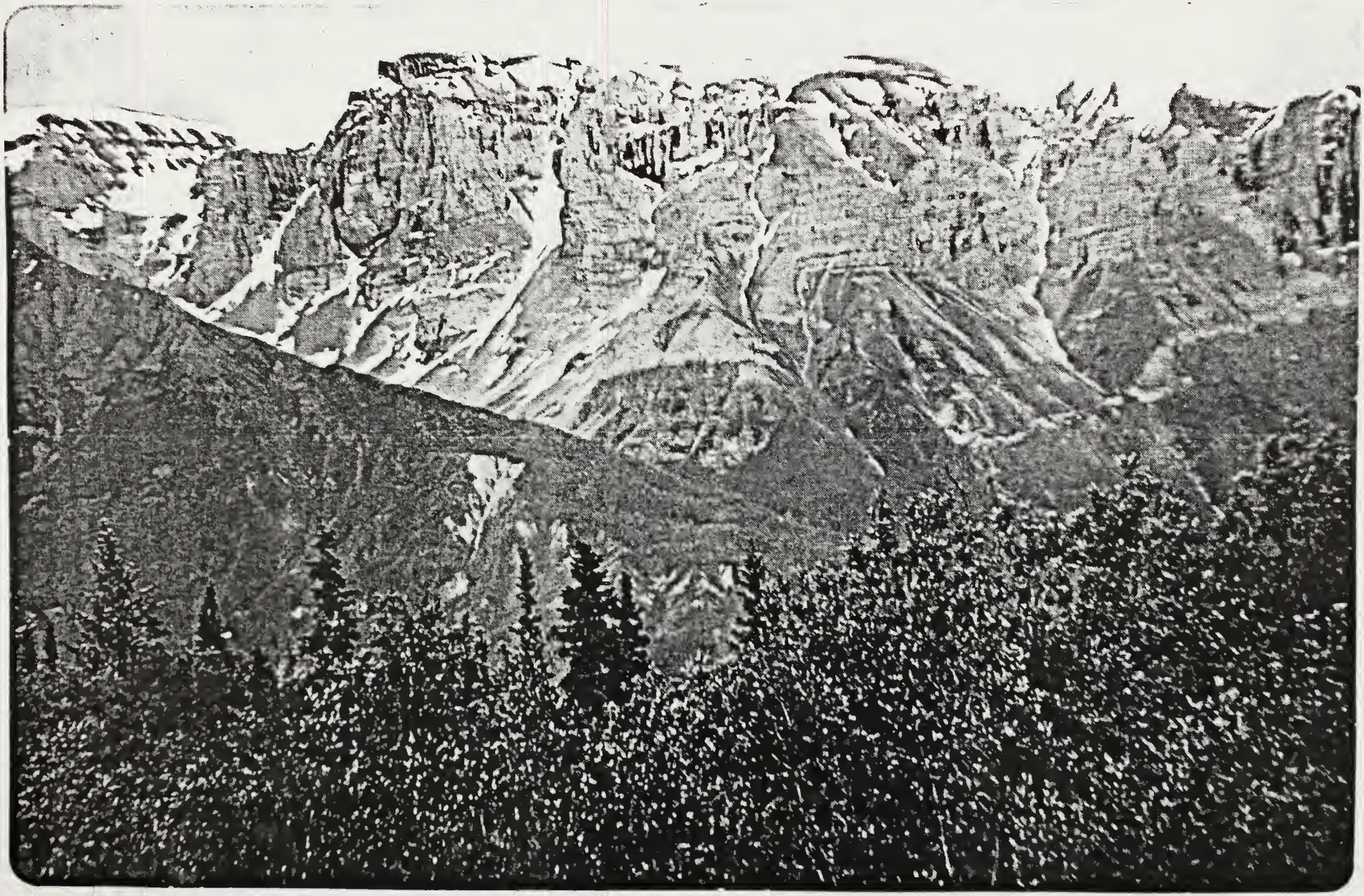
e) Wildlife (observed or evident) No wildlife species or signs observed from the aircraft.

f) Vegetation Heavy shrub tundra with scattered spruce on lower elevation slopes grading into scattered patches of alpine tundra, rock and ice.

g) Geology/soils/topography This claim group lies on the contact between Nikolai Greenstone and Chitistone Limestone. Numerous faults and thrusts criss-cross the area; Group No. 9 located in Nizina Limestone. Topography is rugged, ranging in elevation from 3,000-6,500 feet. Slopes are mostly west & south facing, with inclinations ranging from 10° to near vertical. Area is mostly barren, with ice and rock glaciers and rock talus.

h) Cultural resources Low cultural resource potential due to location in rugged terrain; PR=0-1, H=1.0

i) Weather conditions during site reconnaissance Cloudy, cool with scattered rain showers in area.



WRST Mining Claims

NIKOLAI BUTTE

View of Nikolai Butte from May Creek. Top of butte is overlain by mining claims.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nikolai Creek

b) Individual claim names Side Partner, Red Rover, Last, Surprise, Nicholi, Wonder, and Siwash Jack Lodes

c) Number of claims 7 acres 144.55

d) Claim type: placer (lode) millsite/other _____

e) (Patented) Unpatented U.S. patent # Mineral certificate #4
mineral survey # 546

f) Location/USGS quadrangle(s) SW 1/4 S2, SE 1/4 S3, NE 1/4 S10, T5S, R15E, CRM McCarthy B-5

g) BLM serial number(s) A 000004

h) Owner(s): name/address name/address
Chityna Exploration Company (original claimant)

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/30/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Nikolai Creek of McCarthy Creek

c) Hydrology/stream characteristics

-estimated discharge Roughly estimated at 50 cfs
-average stream depth " " " 1 foot
-average stream width 10 feet
-average active channel width 15 to 20 feet
-average floodplain width 50 to 75 feet
-stream length 1.5 mi
-stream gradient 6°
-streambed material _____

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color Relatively clear; snowmelt stream
-turbidity Clear to slightly turbid

e) Wildlife (observed or evident) Arctic ground squirrel burrows present.

f) Vegetation Dwarf birch, cranberry, blueberry, lichens, lupine, willow-appears to be classic alpine tundra vegetation association

g) Geology/soils/topography Nikolai Greenstone occupies most of claim area; it is overlain by Chitistone Limestone at the east end. Contact zone is the focus of past mining activity. Soils are shallow, rocky organic patches alternating with bare rock outcrops and talus slopes; claims situated in an east-west drainage; with rugged steep slopes up to 35°

h) Cultural resources Medium to high potential cultural resource values. Chief Nicolai and his band known to have used locality. Nikolai Mine should be evaluated for possible addition to National Register of Historic Places. PR = 3.0, H = 4.5.

i) Weather conditions during site reconnaissance No precipitation for past week. Rain squall approaching from south.

IV. COMMENTS AND OTHER OBSERVATIONS

Obvious impacts: old road along Creek; mine camp; old adits.

Buildings present and description: two old cabins, tent frame structures and misc. debris.

Access/roads: old road/trail from McCarthy Creek to Nikolai mine and on to Nizina mine is still evident in places.

Previous mining history and operations: extensive past mining activity. Site of original chief Nikolai mine. No present activity.

Nikolai Mine was one of the three strikes (along with Bonanza Lode and Elliott Mine) that started the mining rush in this area. Also, Chief Nikolai and his group used this area, getting copper nuggets for trade from here. See The Copper Spike by Lone E. Fansm. Should be examined by historian and preservation team.

Not listed in BLM/MAR.

Claim location as given is slightly incorrect. Should be shifted 300-400 feet to north-northwest. Refer to MSP. Correct MTP accordingly.



WRST Mining Claims

NIKOLAI CREEK

General location of MS 546 and Nikolai Mine area along tributary of Nikolai Creek. View is to east.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nizina

b) Individual claim names Nizina #1-#5

c) Number of claims 5 acres 103.3

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S1, NW 1/4 S12; T5S, R15E, CRM McCarthy B5

g) BLM serial number(s) AA037404-037405

h) Owner(s): name/address
Bud S. Seltenreich
2136 Loussac Drive
Anchorage, AK 99500

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found yes - all corners marked

k) Photos taken ground and aerial

l) Reconnaissance date(s) 6/30/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Nizina River

c) Hydrology/stream characteristics (no streams present; local snowmelt on slopes)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Dall sheep scat and tracks, wolf or large dog tracks. Arctic ground squirrel burrows. Two porcupines found in abandoned cabin on site.

f) Vegetation Alpine tundra - plant species include, saxifrage buttercup, campion, lichens (green-, gray-, yellow-, black-colored)

g) Geology/soils/topography Cretaceous age fine grained siltstones, underlain by Chitistone limestone; flat to gently rolling alpine slopes break off eastward to a rugged 40° slope; soils consist of a discontinuous, thin organic mat, and soft clay 6" to 1 foot deep alternating with bare sandstone float; steep slopes are composed of bare rock exposures and talus

h) Cultural resources This claim group lies at a high elevation with difficult access. Broad, flat and relatively bare terrain. Low prehistoric site potential. Low-to-medium historical site potential due to remains of several structures that are present. PR = 1.0, H = 2.0

i) Weather conditions during site reconnaissance cloudy, rain squall approaching. Precipitation: none for past week. 55-60°F

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: "old" cabin in bad shape, several tent frames also in bad shape. Approximately five buildings still standing.

Access/roads: portions of road/trail to McCarthy still evident.

Previous mining history and operations: extensive past mining activity. Several adits and older workings noted below camp on cliffs facing the Nizina River. No current activity.

Samples of malachite, azurite, and chalcocite were found in abandoned buildings on claims.

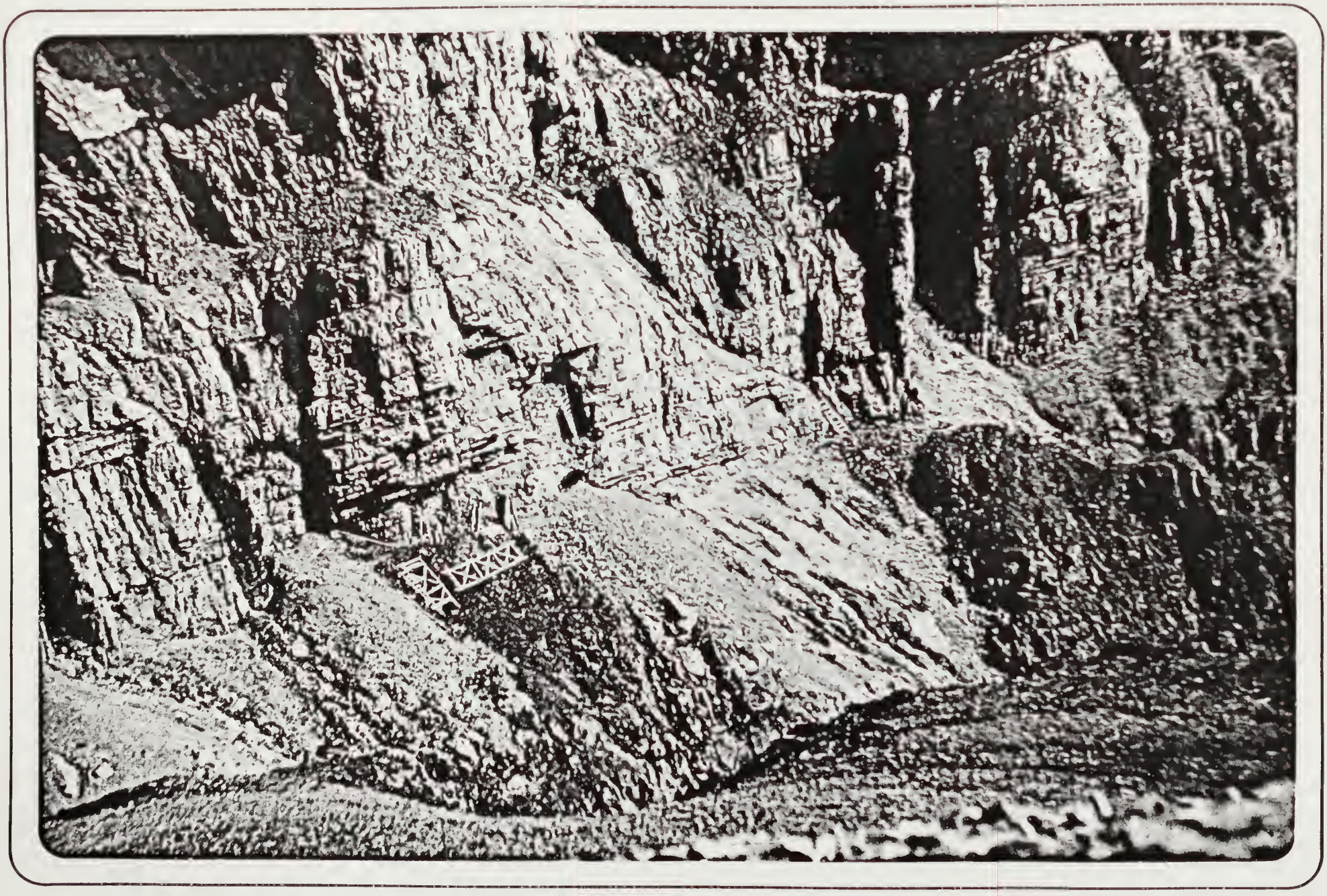
Nizina Nos. 3-5 not listed in BLM/MAR.



WRST Mining Claims

NIZINA

View of Chitistone Mountain and upper Nizina drainage from Nizina #1-5 claims.



WRST Mining Claims NIZINA

View of old mine adit and workings below Nikolai Pass area.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nugget Creek

b) Individual claim names Jennie, Gray Hound, One Girl, Newport, Illinois, Wisconsin, Excelsior No.2, York, York No.2, York No.3, Lucky Girl No.2, Lucky Boy, Valdez, Comstock, Owl, Seattle, Queen Ann, Ballard, Lucky Girl, (continued under comments)

c) Number of claims 31 acres 619.830 (MS893)
17.361 (MS891)

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 487252 (MS 891)
487253 (MS 893)
mineral survey # 891 and 893

f) Location/USGS quadrangle(s) S35, T2S, R9E; S2, E 1/2 S3, T3S, R9E, CRM McCarthy C-8

g) BLM serial number(s) A001410 (MS891) and A001411 (MS893)

h) Owner(s): name/address
Alaska Consolidated Copper Co.
General Delivery
Valdez, AK 99686

name/address

i) Commodity(ies) copper

j) Corner/discovery monuments found

k) Photos taken ground and aerial

l) Reconnaissance date(s) 7/3/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Kuskulana River

b) Drainage basin Nugget Creek

c) Hydrology/stream characteristics

-estimated discharge 120 cfs
-average stream depth 18"
-average stream width 10'
-average active channel width 20-30'
-average floodplain width 100' wide 1/2 mi downstream from claims; cuts notch through bedrock on claim.
-stream length 3.0 mi
-stream gradient 1° at mouth; 10°-15° on claim
-streambed material predominately rubble (5-8" diam.); scattered boulders also present

-streambanks exposed (rubble, boulder)

-channel disturbance none observed

d) Water quality

-water temperature 45°F
-pH 7.2
-color Light grey
-turbidity slightly turbid

e) Wildlife (observed or evident) Sighted herd of 25-30 Dall sheep clambering up W side of Nugget Creek canyon. Moose scat and antlers on claim.

f) Vegetation Predominately shrub tundra. Shrubs, dry tundra, dwarf birch, netvein willow, reindeer lichen potentilla, some spruce, cornus canadensis, alpine hawksbeard

g) Geology/soils/topography Nikolai Greenstone and marble, schist, and argillite of the Hansen Creek Formation; bornite interspersed in marble. Claim area straddles a NW-SE valley draining SE. Rocky loam soils, 1 to 1 1/2 feet thick cover most of claim area; valley has an average slope of 10-15°; slopes at mine are up to 20° in steepness.

h) Cultural resources Some potential, albeit low, for occurrence of prehistoric sites due to good access from Nugget Creek. High historic site potential. Historic Kuskulana Mine and associated mining camp are of quality for National Register of Historic Places (is already on the HABS/HAER files).
PR = 1.5, H = 5.0

i) Weather conditions during site reconnaissance clear and sunny with light winds.

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: Mining camp - at least 5 cabins, some in good condition also a barn. Also, adit, tramway one process building, Crusher mill and ore seperator.

Access/roads: old road (now used as a horse trail) crosses claim area from the Kuskulana River to upper Nugget Creek.

Airstrip(s) present and location: airstrip and occupied cabin site located at mouth of Nugget Creek.

II. b. Excelsior, Redding, Salem, Black Hawk, Wilkes Barre, Tom Thumb, Tom Thumb No.2, Copper Queen, Copper Queen No.2, Copper Queen No.3, and Copper Queen No.4. (MS893); and German Town Lode (MS891).

MS893 not listed in BLM/MAR.

This site (Nugget Mine) is a potential National Register site (of local and regional significance). Also, could be major interpretive area accessible by horseback.

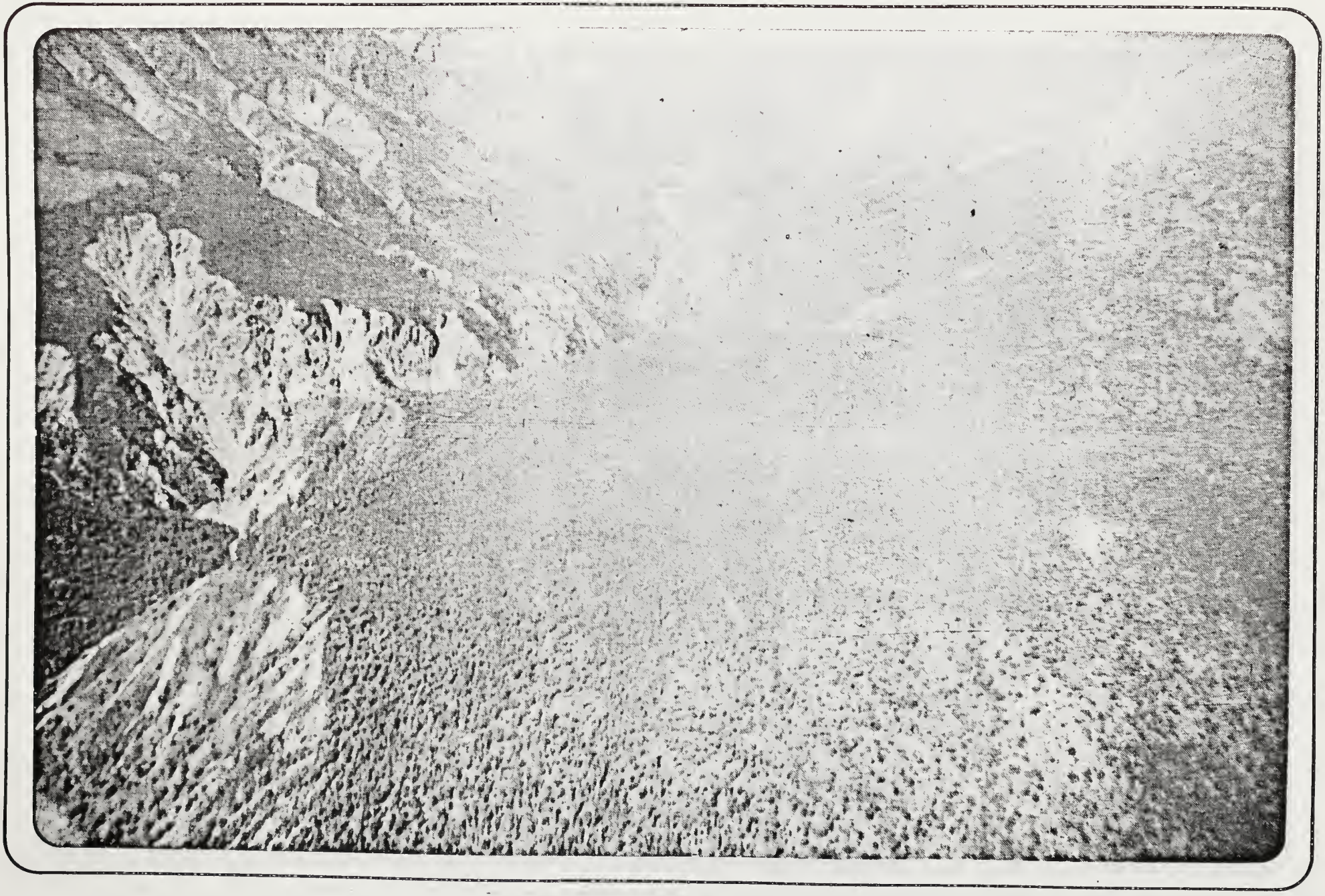
Threatened by Geneva Pacific.

Barrel cache at mill site CAUTION - could contain caustic material.

Location as given for MS891 and 893 is inaccurate based on discrepancies between MSP and MTP. Proper location appears to be approximately 2000 feet to the east.

BLM/MAR shows excessive acreage figure for the German Town Lode.

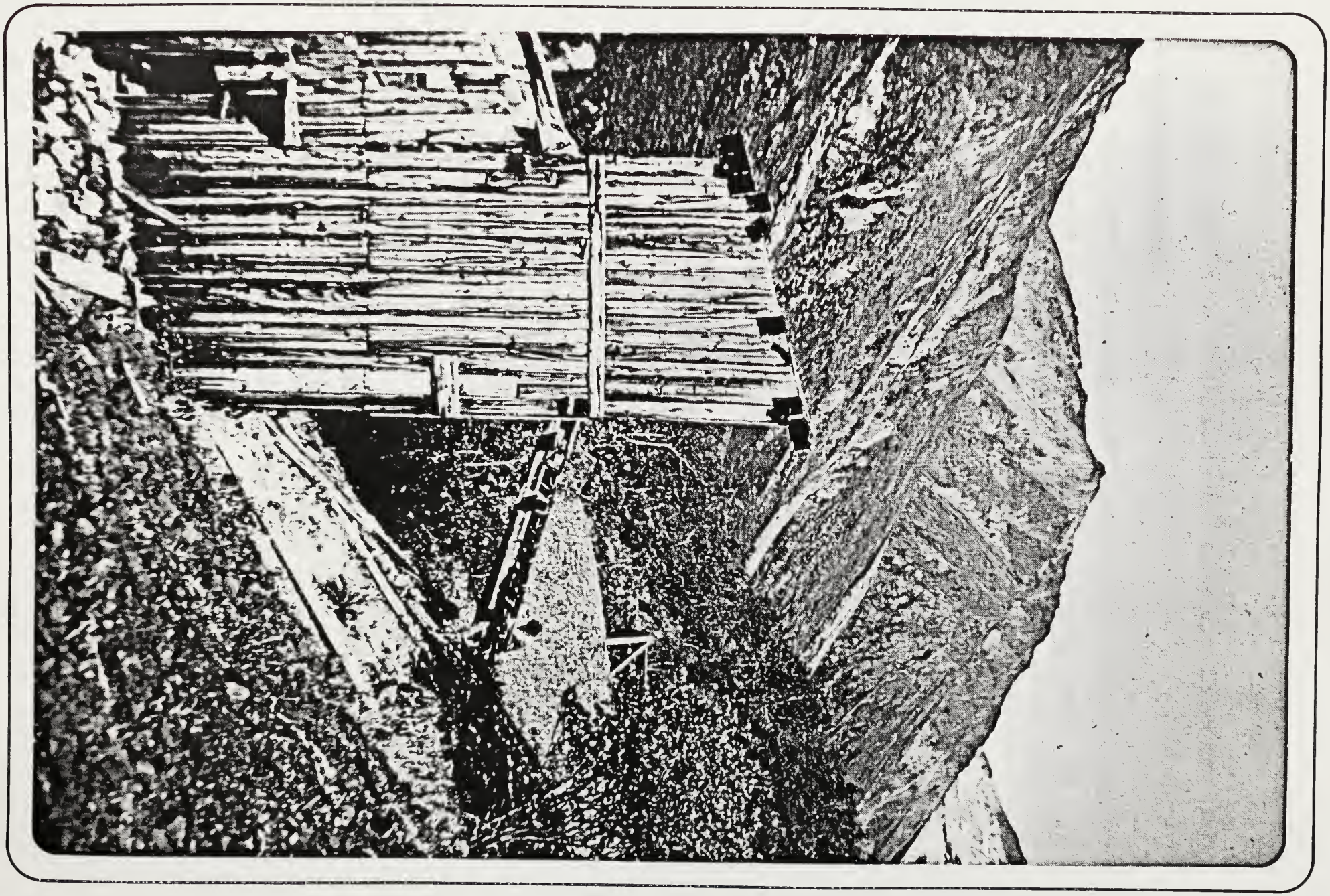
NOTES



WRST Mining Claims

NUGGET CREEK

Aerial view of lower Nugget Creek drainage and general location of MS 893.



WRST Mining Claims

NUGGET CREEK

Old mill building at mine on MS 893.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nugget Creek

b) Individual claim names Buffalo, Blue Bell, White Horse, and Pennsylvania Lode Claims

c) Number of claims 4 acres 82.644

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # not known
mineral survey # 892

f) Location/USGS quadrangle(s) S34, T2S, R9E; S3, T3S, R9E, CRM
McCarthy C-8

g) BLM serial number(s) not known

h) Owner(s): name/address name/address
Alaska Consolidated Copper Co.
(original claimant)

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial only

l) Reconnaissance date(s) 7-3-82

III. SURROUNDING ENVIRONMENT

a) Major watershed Kuskulana River

b) Drainage basin Nugget Creek

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no data collected)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) Herd of 25-30 Dall sheep sighted in vicinity of claim on slopes west of Nugget Creek

f) Vegetation Situated on ridge top, covered primarily with barren rock and alpine tundra

g) Geology/soils/topography Claim area composed of Nikolai Greenstone on an east facing mountainside with a 40° slope; surface consists of talus and bare rock outcrops.

h) Cultural resources Low cultural resource potential due to location on steep, rocky slopes

i) Weather conditions during site reconnaissance clear, sunny, light winds

IV. COMMENTS AND OTHER OBSERVATIONS

Need to determine if these claims have ever been brought to patent.

Claim locations as given appears to be inaccurate based on discrepancies between MSP and MTP. MSP shows Nugget Creek flowing through the Buffalo Lode, the northernmost claim. Proper location is thus to the north possibly.

Access/roads: Trail evident along slope below claim which connects the Minneapolis Lode claim with Nugget Creek.

Previous mining history and operations: Some evidence of digging. One small adit noticed from distance.

Not listed in BLM/MAR.

NOTES

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Nugget Creek

b) Individual claim names Minneapolis Lode

c) Number of claims 1 acres 20.551

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # 552285
mineral survey # 906

f) Location/USGS quadrangle(s) NW 1/4 S3, T3S, R9E, CRM
McCarthy C-8

g) BLM serial number(s) A001697

h) Owner(s): name/address name/address
Galena Bay Mining Company
General Delivery
Valdez, AK 99686

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/3/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Kuskulana River

b) Drainage basin Nugget Creek

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no data collected)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) observed herd of 25-30 Dall sheep in vicinity of claim area

f) Vegetation Alpine tundra, barren rock

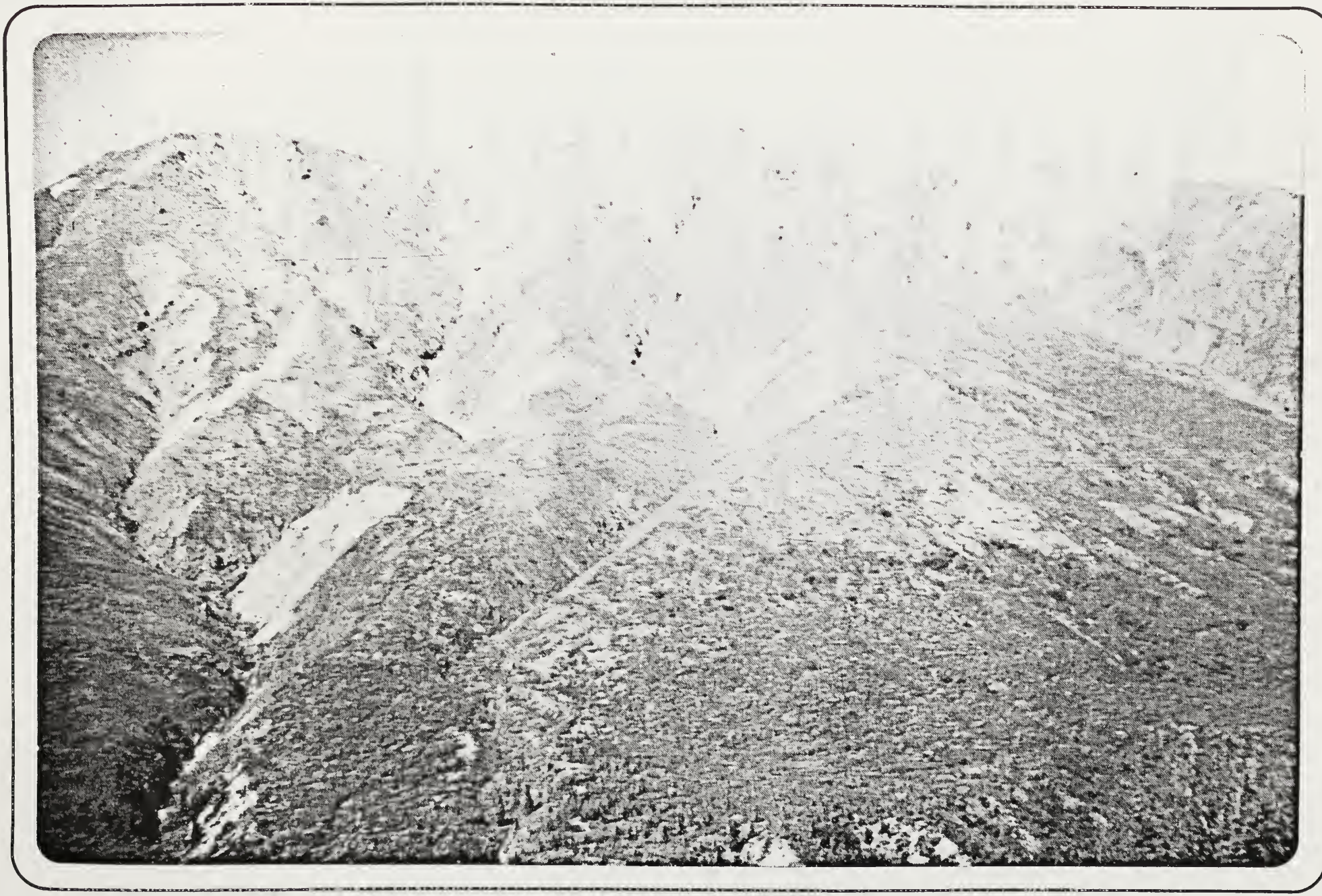
g) Geology/soils/topography Nikolai Greenstone on west facing mountain with a 40° slope; talus alternates with bare rock outcrops

h) Cultural resources Low cultural resources potential due to location on steep, rocky slope and high elevation.

i) Weather conditions during site reconnaissance Clear and sunny with light winds

IV. COMMENTS AND OTHER OBSERVATIONS

Access/roads: Trail from claim to Nugget Creek.



WRST Mining Claims NUGGET CREEK

View to west from old Nugget Creek mine area showing general location of MS 892 and MS 906.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Peavine

b) Individual claim names Group No. 9 #1-9

c) Number of claims 9 acres 185.95

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S25, NW 1/4 S36, T5S, R16E, CRM McCArhty B-4

g) BLM serial number(s) AA030211-30219

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Chitistone River

c) Hydrology/stream characteristics (no data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no measurements taken)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) No wildlife species observed from aircraft.

f) Vegetation Most of claim group is covered by permanent ice and snow fields.

g) Geology/soils/topography Bedrock of the claim area is Chitistone and Nizina Limestone, underlain throughout by Nikolai Greenstone. Faults of virtually all orientations criss-cross the claim area. Topography is rugged with elevations ranging from 2,000-7,000 feet. Slopes vary from 10° to near vertical, with aspects in all directions. The claim area is primarily barren with glaciers, rock glaciers, snowfields, rock outcrops and talus predominating.

h) Cultural resources (see discussion for Peavine #1-54)

i) Weather conditions during site reconnaissance Cloudy, cool. Intermittent fog along upper elevations slopes and peaks.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Peavine

b) Individual claim names Peavine #1-54 and Morgan Group #1-7

c) Number of claims 61 acres 1260.26

d) Claim type: placer lode millsite/other

e) Patented Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S11, SW 1/4 S12, S14, W 1/2 S13, S23, W 1/2 S24, NW 1/4 S25, NE 1/4 S26, T5S, R16E, CRM McCarthy B-4 and B-5

g) BLM serial number(s) AA 030808-30861 and 30191-30197

h) Owner(s): name/address
Geneva Pacific Corp.
1807 Glenview Rd.
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/9/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Lime Springs Creek (of Chitistone River)

c) Hydrology/stream characteristics (No data collected)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length 2.8 miles from claim to source
-stream gradient 8° on claim
-streambed material

-streambanks

-channel disturbance

d) Water quality (No data collected)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Sighted small group of Dall sheep on claim group; no exact count made

f) Vegetation Claim group covered by snowfields, ice, exposed rock, alpine tundra on benches. Very rugged terrain

g) Geology/soils/topography Complexly faulted and folded Chitistone and Nizina Limestones in contact with Nikolai Greenstone; southern tip includes lower member of McCarthy formation; surface consists of bare rock exposures, talus, and snow or ice-covered high lands; claim area occupies rugged terrain from 3,000 to 7,000 feet mostly in the Lime Springs Creek drainage.*

h) Cultural resources Low cultural resources potential due to location in high, rugged terrain. PR = 0-1, H = 1.0

i) Weather conditions during site reconnaissance

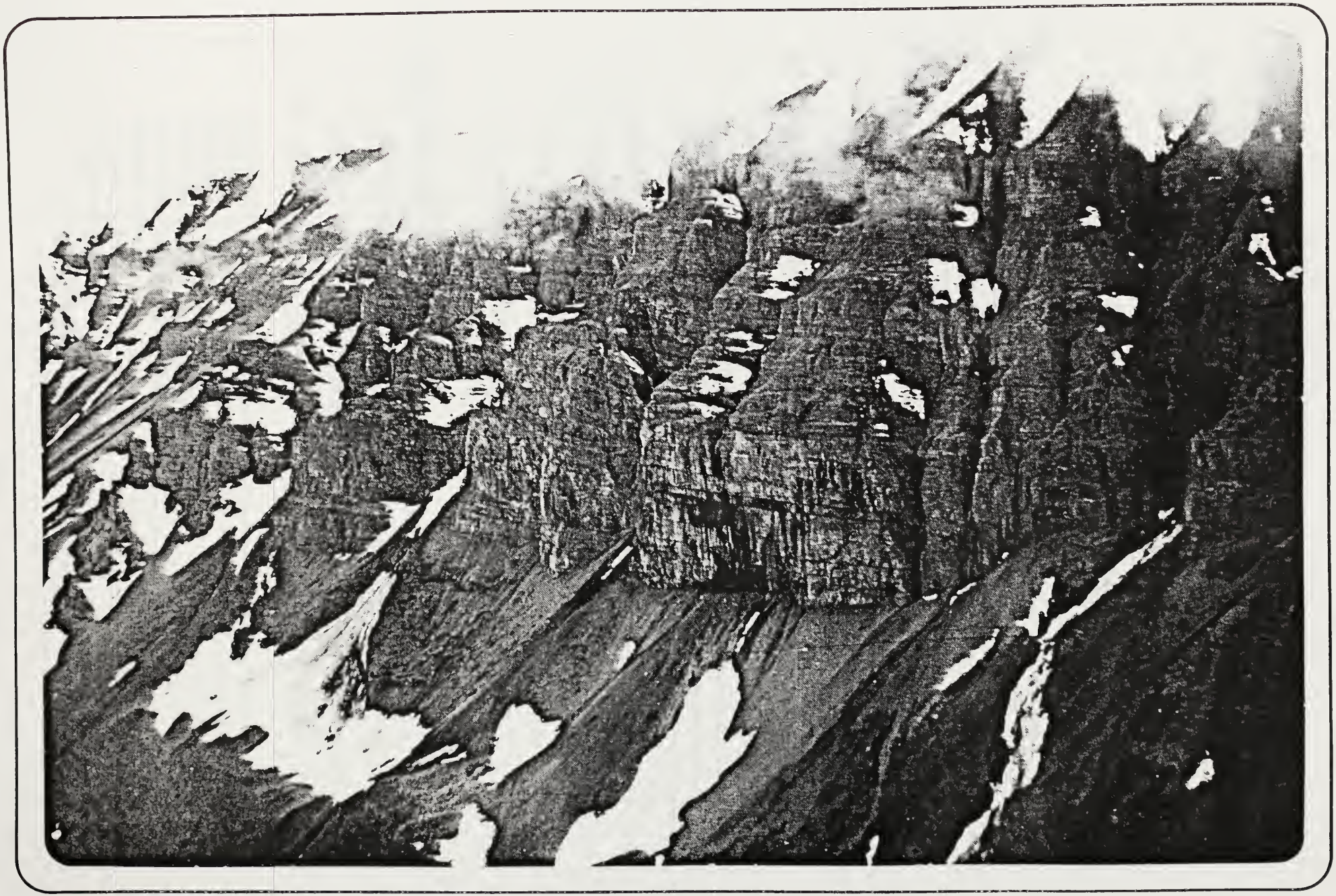
IV. COMMENTS AND OTHER OBSERVATIONS

*This large claim area focuses on the overall mineralization environment related to the greenstone-limestone contact.



WRST Mining Claims PEAVINE

Aerial view of Lime Springs Creek and northeastern portion of claim group.



WRST Mining Claims PEAVINE

Aerial view of terrain typical of Peavine claims.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Peavine Bar

b) Individual claim names Paul, Bob, Mark, Jack, Ted, Martin, Pam, Larry, Chuck, Gary, Kathy, Ken, Rick, Cecil, Johnny, Trudy, Colleen, and Mandy

c) Number of claims 18 acres 360.00

d) Claim type: (placer) lode/millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S1, N 1/2 S11, T5S, R16E; SW 1/4 S6, T5S, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA030283-30300

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 6/29/82 and 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Chitistone River

c) Hydrology/stream characteristics (no measurements taken)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks _____

-channel disturbance _____

d) Water quality (no measurements taken)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) No wildlife species or signs observed from the aircraft.

f) Vegetation Primarily barren of vegetative cover; active river bar with scattered willows on more stable gravels. Mixed spruce hardwood forest near central part of claim area.

g) Geology/soils/topography Claims lie within the flood plain of the Chitistone River,and are composed of Quaternary alluvium of two different ages. Topography is virtually flat; ground cover is coarse gravel. A portion of the claim area on a higher bench has thin orgainic-rich soil supporting forest vegetation.

h) Cultural resources _____

i) Weather conditions during site reconnaissance Scattered clouds and mild.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Peavine Bar

b) Individual claim names Peavine Millsites #1-6

c) Number of claims 6 acres 30

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent # mineral survey #2374B, 2374C, 2385B, 2385C, 2386B, 2386C

f) Location/USGS quadrangle(s) SW 1/4 S1, NE 1/4 S11, NW 1/4 S12, T5S, R16E, CRM McCarthy B-4

g) BLM serial number(s) AA030862-30867

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview, IL 60025

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 6/29/82 and 7/9/82

III. SURROUNDING ENVIRONMENT

(see description of Peavine Bar placer claims)

MINING CLAIM INVENTORY FORM

Donated 10/27/82 ?

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Project Homestake

b) Individual claim names Project Homestake Lode

c) Number of claims 1 acres 20.66

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) SE 1/4 S26, T6S, R16E, CRM
McCarthy B-4

g) BLM serial number(s) AA020040

h) Owner(s): name/address
Warren F. Smith
Box 2571
Fairbanks, AK 99707

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken from air only

l) Reconnaissance date(s) 7/5/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Rex Creek

c) Hydrology/stream characteristics (no streams present in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) Wolverine sighted in area of claim.

f) Vegetation Alpine tundra and barren rock slopes.

g) Geology/soils/topography Metamorphosed mudstone and shale (silicified brown-weathering hornfels) of the Cretaceous Chititu formation, intruded by Tertiary felsic dikes and sills. A small pluton is situated immediately south of the claim area. Claim area is situated on N to NE facing slopes of 10° to 35°, at elevations of 4,500 to 5,000 feet.

h) Cultural resources Low prehistoric site potential due to high elevation and rugged terrain. Low-tomedium historic potential because of past mining activity. PR = 0-1, H = 2.0.

i) Weather conditions during site reconnaissance Cloudy

IV. COMMENTS AND OTHER OBSERVATIONS

Access/roads: Trail from Rex Creek to claim area.

Previous mining history and operations: Some digging noticed (exploration work).



WRST Mining Claims PROJECT HOMESTAKE

Aerial view of general location of Project Homestake Lode claim.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Rainbow

b) Individual claim names Silver, Amber, Pink, Blue, Green, Orange, White, Red, Copper, Golden, Purple, Gray, Yellow, and Brown

c) Number of claims 14 acres 289.26

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S2, S3, T6S, R16E, CRM
McCarthy B-4 and B-5

g) BLM serial number(s) AA030794-30807

h) Owner(s): name/address
Geneva Pacific Corporation
1807 Glenview Road
Glenview IL 60025

name/address

i) Commodity(ies) Gold

j) Corner/discovery monuments found

k) Photos taken Aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Dan Creek

c) Hydrology/stream characteristics (no measurements taken)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no measurements taken)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) No wildlife species observed from aircraft. Golden Eagles observed in area several days before reconnaissance.

f) Vegetation Mixed spruce/hardwood forest along lower elevations grading into shrublands on upper elevation slopes. Willow thickets along tributary stream channel.

g) Geology/soils/topography Bedrock consists of Nikolai Greenstone, Chitistone Limestone, and Cretaceous sandstone, mudstone and shale, all in fault contact with each other; slopes are south-facing with inclinations ranging from 5° to 40°; Soils are thin and orgainic-rich, supporting heavy vegetation throughout claim area.

h) Cultural resources See regional description for Dan Creek Claim Group.

i) Weather conditions during site reconnaissance Cloudy, cool; scattered light rain in area.



WRST Mining Claims

RAINBOW

General location of Rainbow claim group looking east up the Dan Creek drainage above Boulder Creek confluence.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Rock Creek

b) Individual claim names Warner and McClellan Lodes

c) Number of claims 2 acres 41.22

d) Claim type: placer (lode) millsite/other

e) (Patented) Unpatented U.S. patent # Mineral Certificate #5
mineral survey # 547

f) Location/USGS quadrangle(s) SE 1/4 S 16, NE 1/4 S21, T2S, R8E, CRM McCarthy C-8

g) BLM serial number(s) A 000005

h) Owner(s): name/address
Chityna Exploration Company
(original claimant)

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 7/8/82 (aerial only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Kluvesna River

b) Drainage basin Rock Creek

c) Hydrology/stream characteristics (No streams in claim area)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (no streams in claim area)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) None observed from aircraft.

f) Vegetation covered primarily with alpine tundra and exposed faulted rock.

g) Geology/soils/topography Located in lower McCarthy Formation; impure limestone bedded alternately with thin layers of shale; claim area ascends a NE facing slope of 34°, from 3,500 feet to 5,500 feet. Thin rocky clay loam soil covers most of the claim area, alternating with talus slopes and rock exposures.

h) Cultural resources Medium historic site potential - claim patented around turn of century. PR = , H = 2.5+.

i) Weather conditions during site reconnaissance

IV. COMMENTS AND OTHER OBSERVATIONS

Previous Mining History and Operations: no evidence of past or present activity.

Not listed in BLM/MAR.

Location as given is inaccurate based on discrepancies between MSP and MTP. Rock Creek bisects the claim group, according to MSP.

Could not confirm location of this claim.



General location of MS 547 in the Rock Creek drainage.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Triassic

b) Individual claim names Triassic #1-#182 and Jack, Ki-Ki, Pongo Boy, and Sister

c) Number of claims 186 acres 3842.76

d) Claim type: placer/lode/millsite/other

e) Patented/Unpatented U.S. patent #
mineral survey #

f) Location/USGS quadrangle(s) S 1/2 S15, SE 1/4 S21, S 1/2 S20, S22, S27, S28, S29, E 1/2 S32, S33, N 1/2 S34, T5S, R16E; W 1/2 S4, S5, SE 1/4 S7, S8, NW 1/4 S9, N 1/2 S17, T6S, R16E, CRM McCArthy B-4

g) BLM serial number(s) AA031034-31199 and 31202-31205

h) Owner(s): name/address
Geneva Pacific Corp.
1807 Glenview Rd.
Glenview, IL 60025

name/address

i) Commodity(ies) Copper

j) Corner/discovery monuments found

k) Photos taken aerial

l) Reconnaissance date(s) 6/29/82 (from air only)

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River/Chitistone River

b) Drainage basin Dan Creek/Radovan Gulch

c) Hydrology/stream characteristics (Data collected on Radovan Gulch above Glacier Creek confluence)

-estimated discharge 5 cfs
-average stream depth 6-18"
-average stream width approximately 8 feet
-average active channel width approximately 50 feet
-average floodplain width approximately 175 feet
-stream length 1.7 miles
-stream gradient 6°
-streambed material boulders and cobbles

-streambanks exposed (rubble and boulders)

-channel disturbance none observed

d) Water quality

-water temperature 36°F
-pH 8.05
-color grayish tint (glacial-fed)
-turbidity slightly turbid

e) Wildlife (observed or evident) none observed from aircraft

f) Vegetation Willows in active channel of Glacier Creek, grading into spruce mixed hardwood forest with a shrub understory. This gradually turns into shrub tundra with increasing elevation. Greatest percentage of claim area is barren rock, ice and snow.

g) Geology/soils/topography Complexly faulted and folded Chitistone and Nizina Limestones in contact with Nikolai Greenstone; southern half includes carbonates and shales of the McCarthy formation; surface is bare rock, talus, snowfields, and glaciers; claim area covers most of the upper Radovan glacial cirque and highlands to the south and east up to 8,000 feet in elevation

h) Cultural resources Low cultural resource potential due to rugged terrain, steep slopes, and recent deglaciation. PR = 0-1, H = 1.0

i) Weather conditions during site reconnaissance Sunny, scattered clouds

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Triassic

b) Individual claim names Augusta and Boots

c) Number of claims 2 acres 41.32

d) Claim type: placer (lode) millsite/other

e) Patented (Unpatented) U.S. patent #
mineral survey # 2386A

f) Location/USGS quadrangle(s) SE 1/4 S21, W 1/2 S22, NW 1/4 S27, E 1/2 S28, T5s, R17E, CRM McCarthy B-4

g) BLM serial number(s) AA031200-31201

h) Owner(s): name/address
Geneva Pacific Corp.
1807 Glenview Rd.
Glenview, IL 60025

name/address

i) Commodity(ies)

j) Corner/discovery monuments found

k) Photos taken

l) Reconnaissance date(s) 6/29/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Chitina River

b) Drainage basin Radovan Gulch

c) Hydrology/stream characteristics (refer to information for Triassic #1-182)

-estimated discharge
-average stream depth
-average stream width
-average active channel width
-average floodplain width
-stream length
-stream gradient
-streambed material

-streambanks

-channel disturbance

d) Water quality (refer to information for Triassic #1-182)

-water temperature
-pH
-color
-turbidity

e) Wildlife (observed or evident) none observed from aircraft

f) Vegetation lower part of Augusta claim covered with low shrub tundra in area of old Radovan prospect. Remainder of claim area is barren rock with scattered patches of alpine tundra.

g) Geology/soils/topography Bedrock is Nikolai Greenstone; lower part of claim has glaciofluvial deposits; lower part of claim has shallow organic soils, up to 6" deep; upper part is rocky and non-vegetated. Claims lie on a very steep, rugged, west facing slope, with an inclination of approximately 45 to 60°

h) Cultural resources Low prehistoric site potential due to rugged terrain, steep slopes, and recent deglaciation. Medium-to-high historic potential - encompasses historic mine at the Radovan Prospect. PR = 0-1, H = 3.0+

i) Weather conditions during site reconnaissance Sunny, some high clouds, no precipitation for past week.

IV. COMMENTS AND OTHER OBSERVATIONS

Buildings present and description: Radovan Prospect (see Dan Hamson) level pad at old workings (approx 50'x150') with several collapsed and partially collapsed buildings. Scattered mining debris.

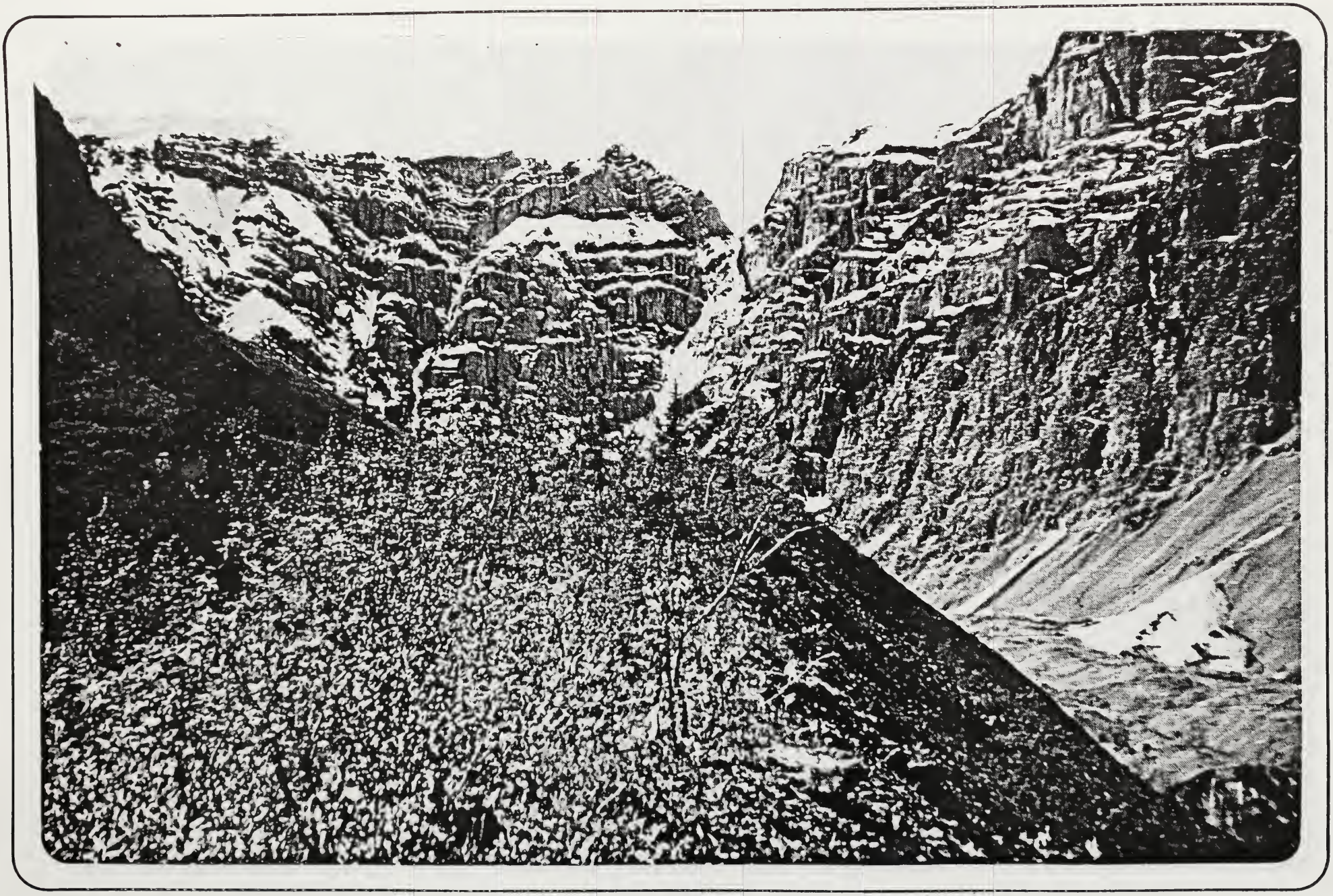
Access/roads: old road/trail from Glacier Creek landing strip to Radovan Prospect. Mostly wasted out along river.

Airstrip(s) present and location: Glacier Creek airstrip approximately 2 1/2 miles northwest.

Both claims under patent application.

No current mining operations.

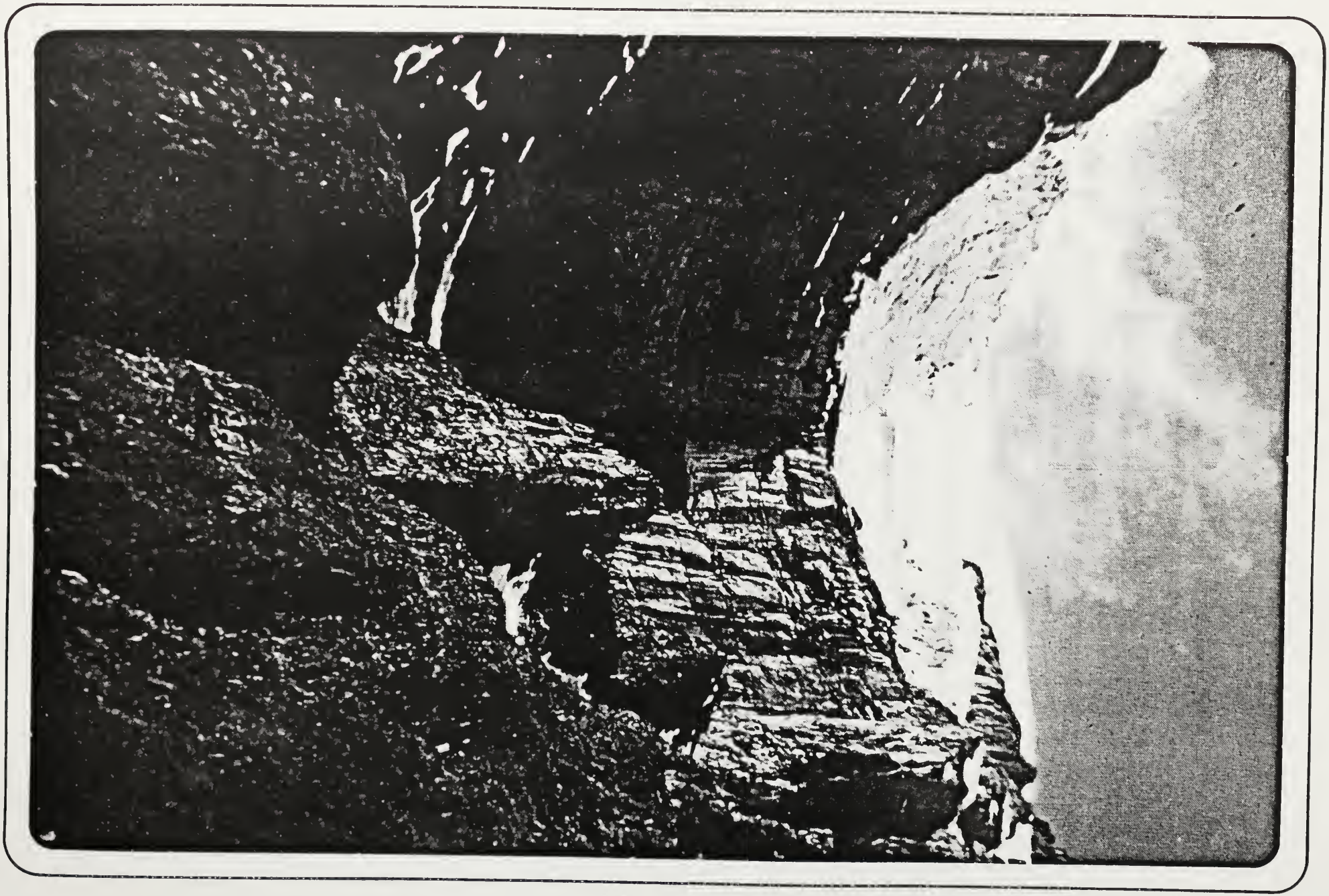
Also listed under the Patent Applications section of BLM/MAR (AA013037); report contains discrepancies concerning location and mineral survey number.



WRST Mining Claims

TRIASSIC

View of upper end of Triassic claim group at the head of Radovan Gulch.



WRST Mining Claims

TRIASSIC

View of Binocular Prospect on the Triassic claim group.

MINING CLAIM INVENTORY FORM

I. NPS UNIT - WRST

II. CLAIM INFORMATION

a) Claim group name Westover

b) Individual claim names Westover Nos. I-IV

c) Number of claims 4 acres 82.64

d) Claim type: placer (lode) millsite/other _____

e) Patented (Unpatented) U.S. patent # _____
mineral survey # _____

f) Location/USGS quadrangle(s) S26, 35, T5S, R16E, CRM McCarthy B-4

g) BLM serial number(s) AA031341-31344

h) Owner(s): name/address

Howard Knutson
Chitina, AK 99566

name/address

Tess Holmes
Pioneer Home
Palmer, AK 99645

name/address

John B. O'Neill
Seattle, WA

i) Commodity(ies) _____

j) Corner/discovery monuments found _____

k) Photos taken Aerial

l) Reconnaissance date(s) 7/9/82

III. SURROUNDING ENVIRONMENT

a) Major watershed Nizina River

b) Drainage basin Dan Creek

c) Hydrology/stream characteristics (no measurements taken)

-estimated discharge _____
-average stream depth _____
-average stream width _____
-average active channel width _____
-average floodplain width _____
-stream length _____
-stream gradient _____
-streambed material _____

-streambanks _____

-channel disturbance _____

d) Water quality (no measurements taken)

-water temperature _____
-pH _____
-color _____
-turbidity _____

e) Wildlife (observed or evident) No wildlife species or signs observed from aircraft.

f) Vegetation Alpine tundra on lower slopes; barren rock talus on steeper slopes. Scattered low growing shrubs along extreme lower elevations of claim area.

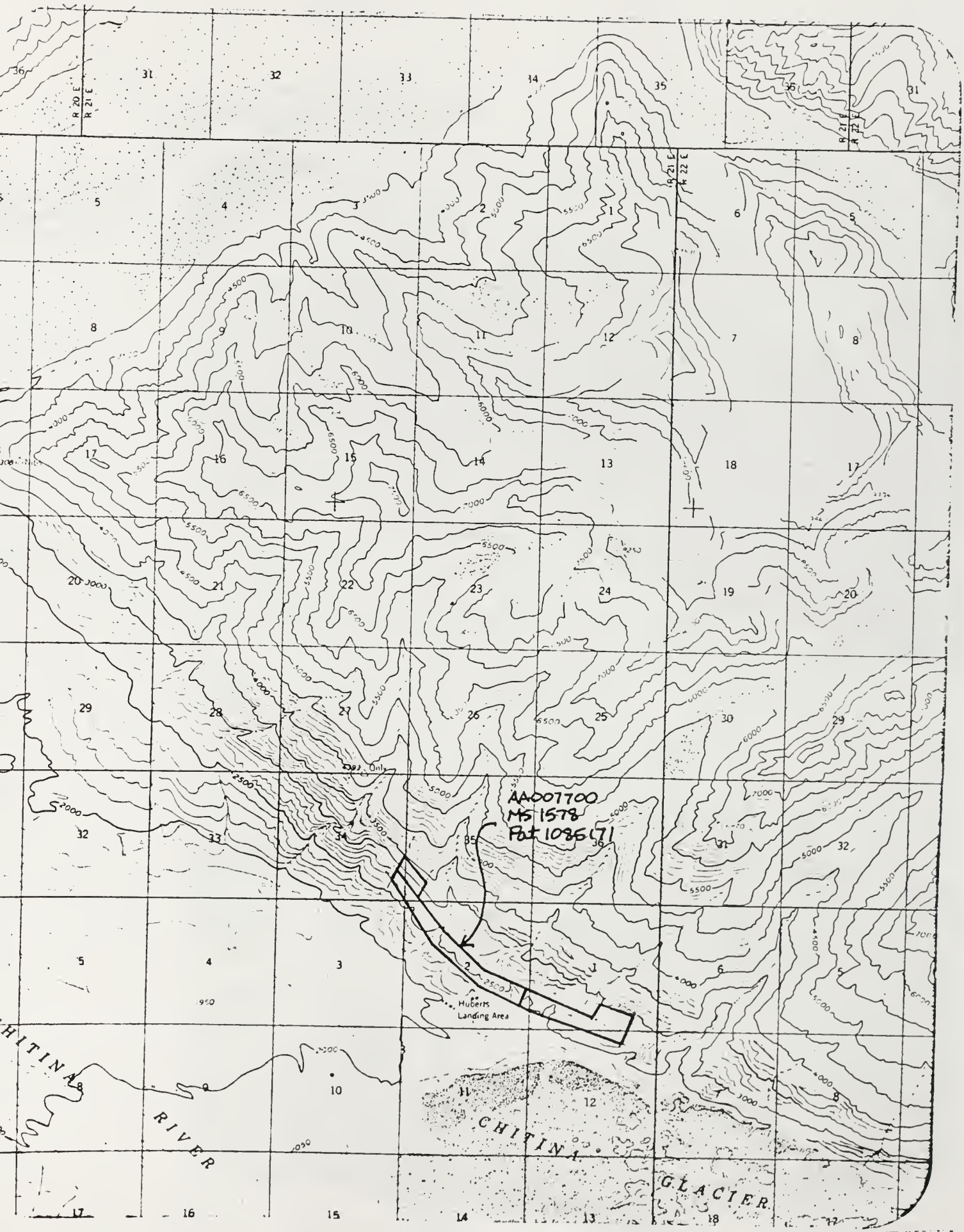
g) Geology/soils/topography Bedrock is Chitistone Limestone with several east-west faults and underlying thrust plates; slopes are west-facing with a 30° to 45° inclination. Surface is barren or talus covered and boarders a glacial moraine on the west side of the claim.

h) Cultural resources Low cultural resource potential due to location in barren, rugged terrain; PR=0-1, H=1.0

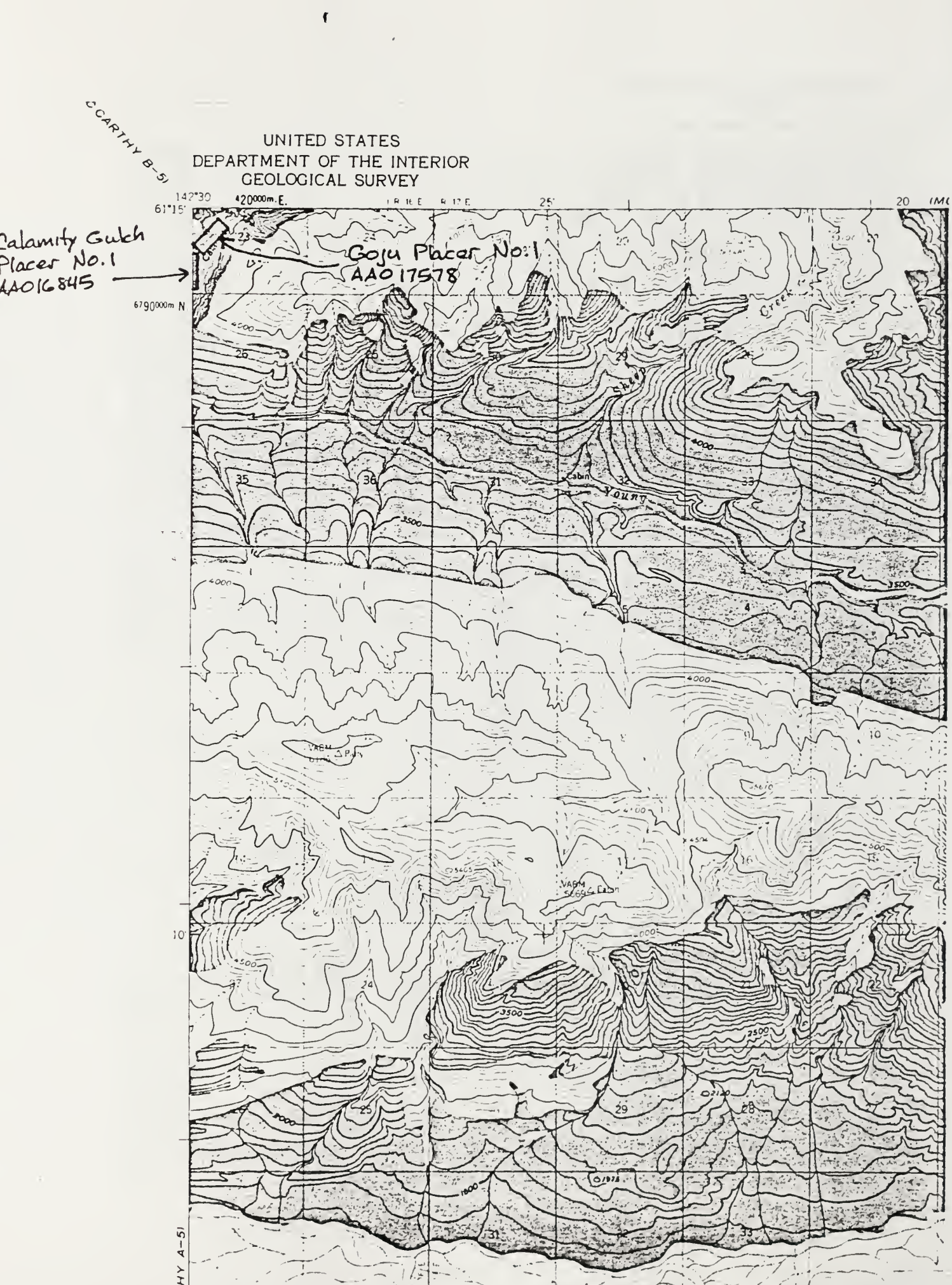
i) Weather conditions during site reconnaissance _____

KEY TO CLAIM GROUP MAPS

Group	Refer to	USGS Quadrangle(s)
Benito Creek	Map 30	Valdez C-1
Berg Creek	Map 26	McCarthy C-8
Bonanza Ridge	Maps 12,16,21,22	McCarthy B-5,B-6,C-5&6
Boulder Creek	Map 14	McCarthy B-5
Calamity Gulch	Maps 2,4,7	McCarthy A-4&5,B-4
Canyon Creek	Maps 3,8	McCarthy A-4,B-4
Castle Bluffs	Map 5	McCarthy A-5
Chititu	Maps 10,13	McCarthy B-4&5
Clear Creek	Map 26	McCarthy C-8
Contact Gulch	Map 9	McCarthy B-4
Contact Lodes	Map 22	McCarthy C-6
Copper Creek	Map 10	McCarthy B-4
Copper Creek (Kotsina)	Map 30	Valdez C-1
Copper Queen	Map 9	McCarthy B-4
Dan Creek	Maps 10,14	McCarthy B-4&5
Donoho Peak	Map 22	McCarthy C-6
Elliott Creek	Map 30	Valdez C-1
Erickson Prospect	Map 11	McCarthy B-4
Fohlin Creek	Map 23	McCarthy C-6
Frederika Glacier	Map 20	McCarthy C-4
Granite Peak	Map 27	McCarthy C-8
Green Butte	Maps 12,21	McCarthy B-5,C-5
Grotto Creek	Maps 9,15	McCarthy B-4&5
Hidden Creek	Map 23	McCarthy C-6
Huberts Landing	Map 1	McCarthy A-2
Hucarco	Map 6	McCarthy A-7
Kennicott	Map 16	McCarthy B-6
Kluvesna River	Map 29	McCarthy D-8
Kuskulana Glacier	Map 24	McCarthy C-7
Lakina River	Map 25	McCarthy C-6&7
MacDougall Creek	Map 26	McCarthy C-8
McCarthy Creek	Map 21	McCarthy C-5
Middle Fork White River	Maps 19,28	McCarthy C-3,D-3
Mount Sulzer	Map 18	McCarthy C-2
Mountain Gril	Map 9	McCarthy B-4
Nelson Mountain	Map 17	McCarthy B-8
Nelson Prospect	Map 11	McCarthy B-4
Nikolai Butte	Map 10	McCarthy B-4
Nikolai Creek	Map 15	McCarthy B-5
Nizina	Map 15	McCarthy B-5
Nugget Creek	Map 26	McCarthy C-8
Peavine	Maps 9,15	McCarthy B-4&5
Peavine Bar	Map 9	McCarthy B-4
Project Homestake	Map 10	McCarthy B-4
Rainbow	Maps 10,14	McCarthy B-4&5
Rock Creek	Map 27	McCarthy C-8
Triassic	Map 11	McCarthy B-4
Westover	Map 10	McCarthy B-4

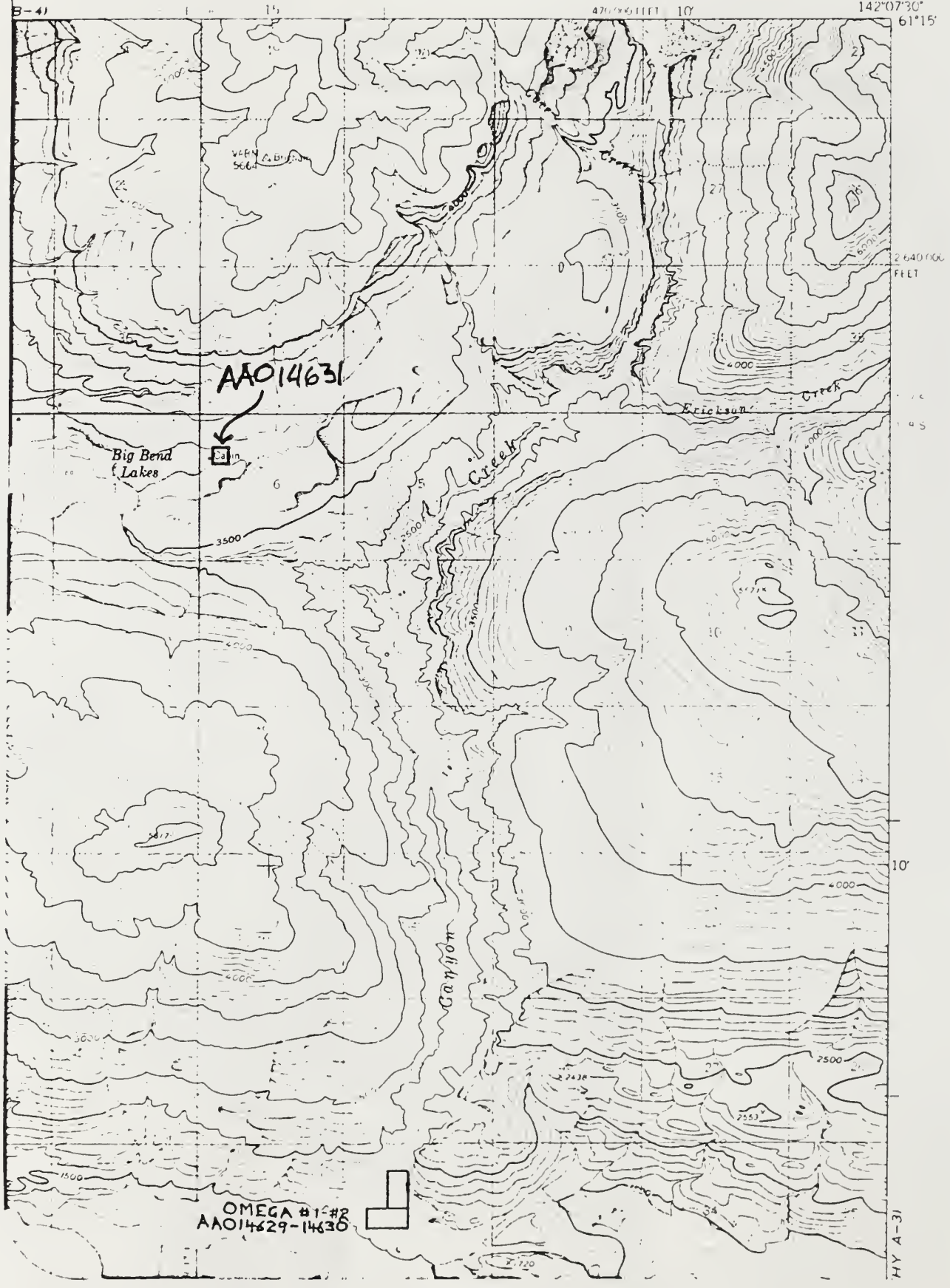

AA007700
MS 1578
Pat 1086171
Huberts Landing Area
CHITINA RIVER
CHITINA GLACIER
R 20 E
R 21 E
R 22 E

MAP 1

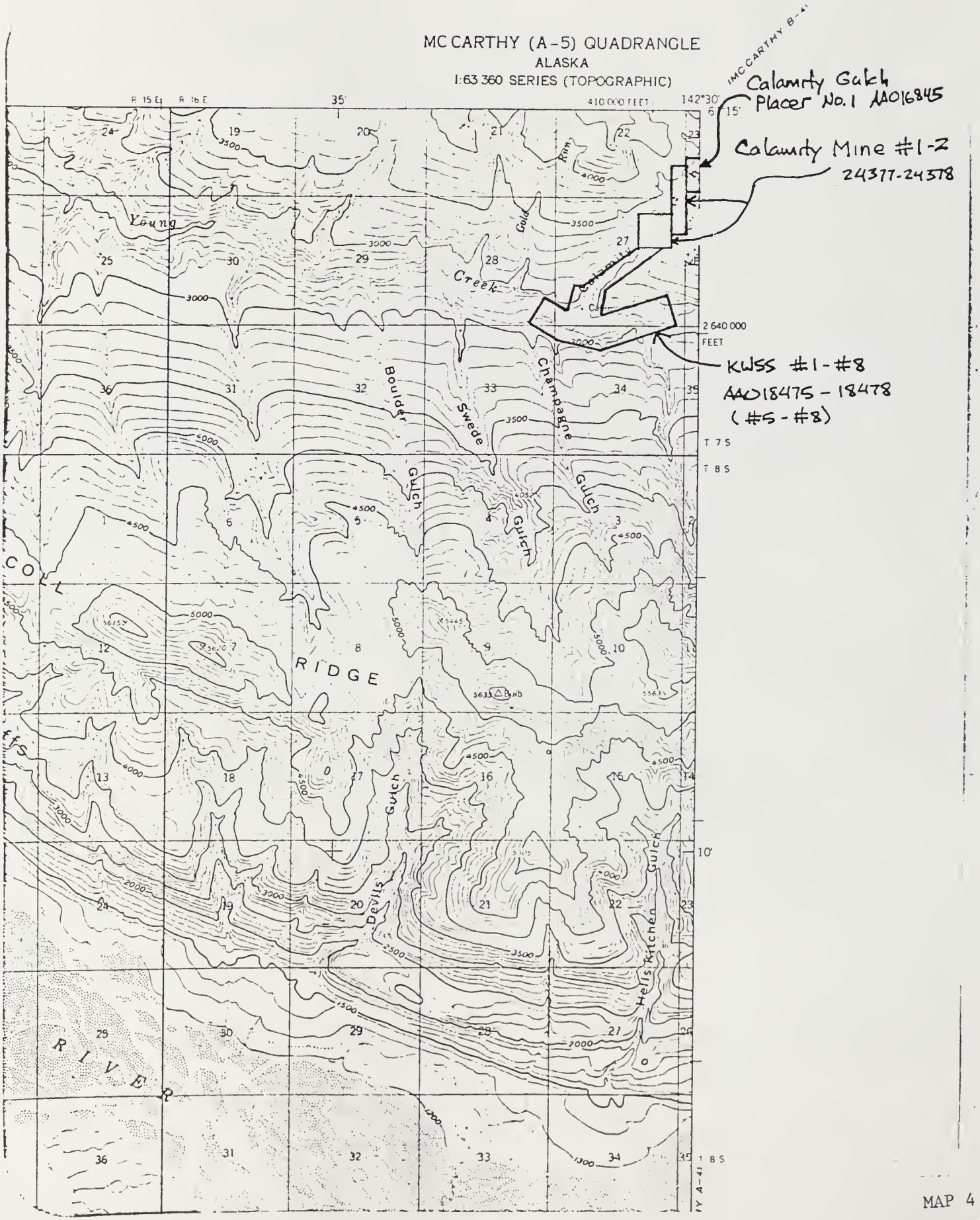

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Calamity Gulch Placer No.1 AA016845
Goju Placer No.1 AA017578
Young Cabin
Creek

MAP 2

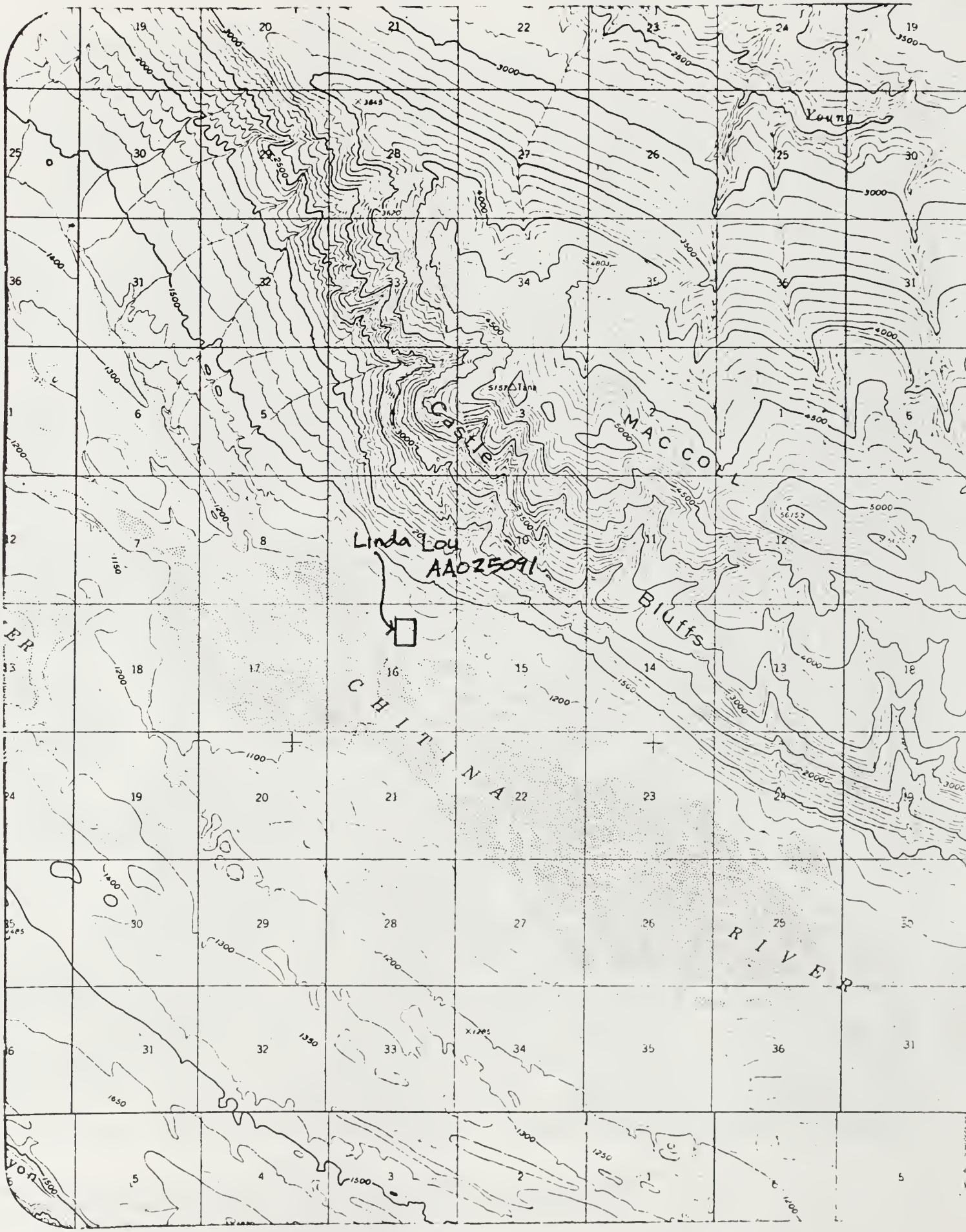
MC CARTHY (A-4) QUADRANGLE
ALASKA
1 63 360 SERIES (TOPOGRAPHIC)

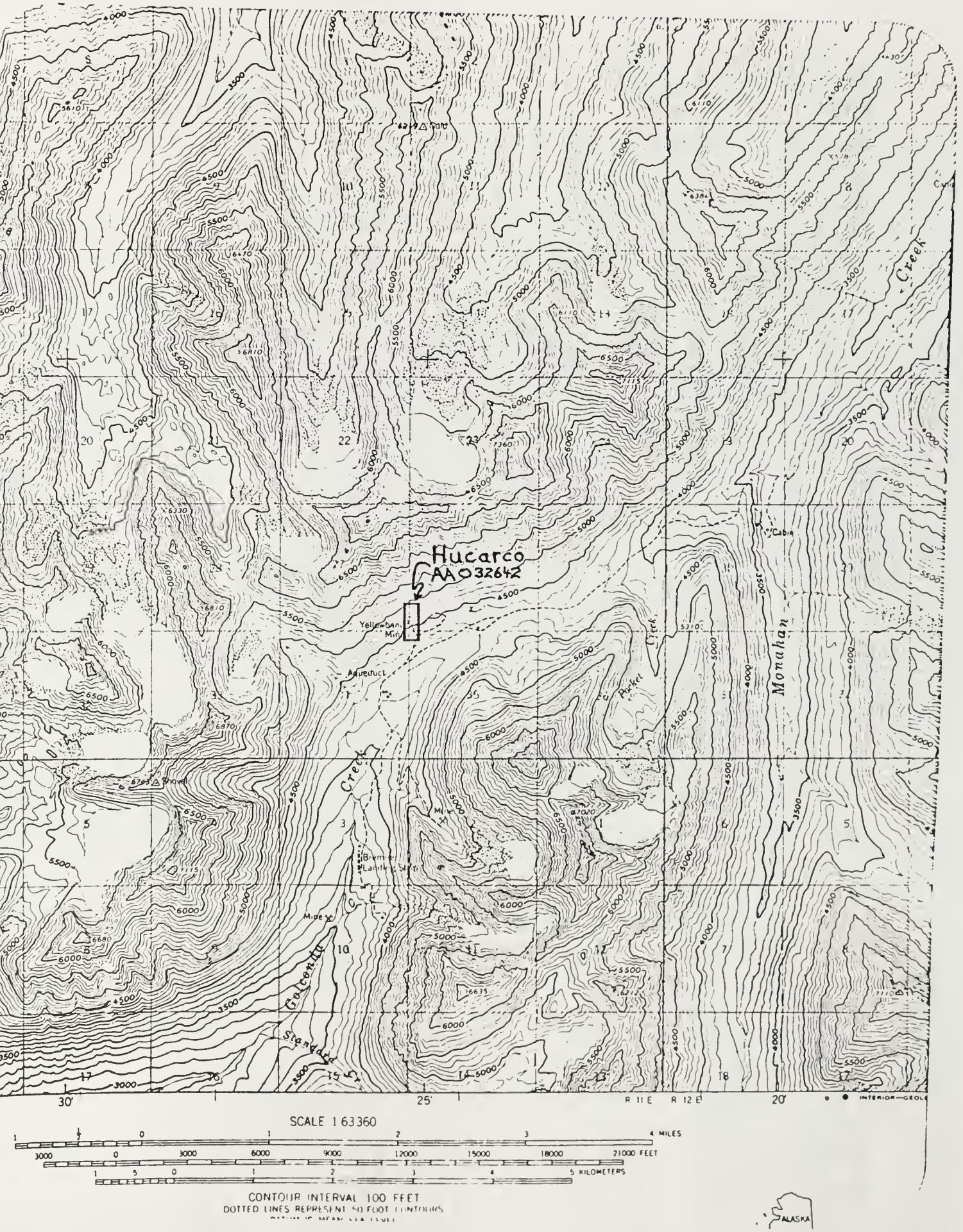


MAP 3

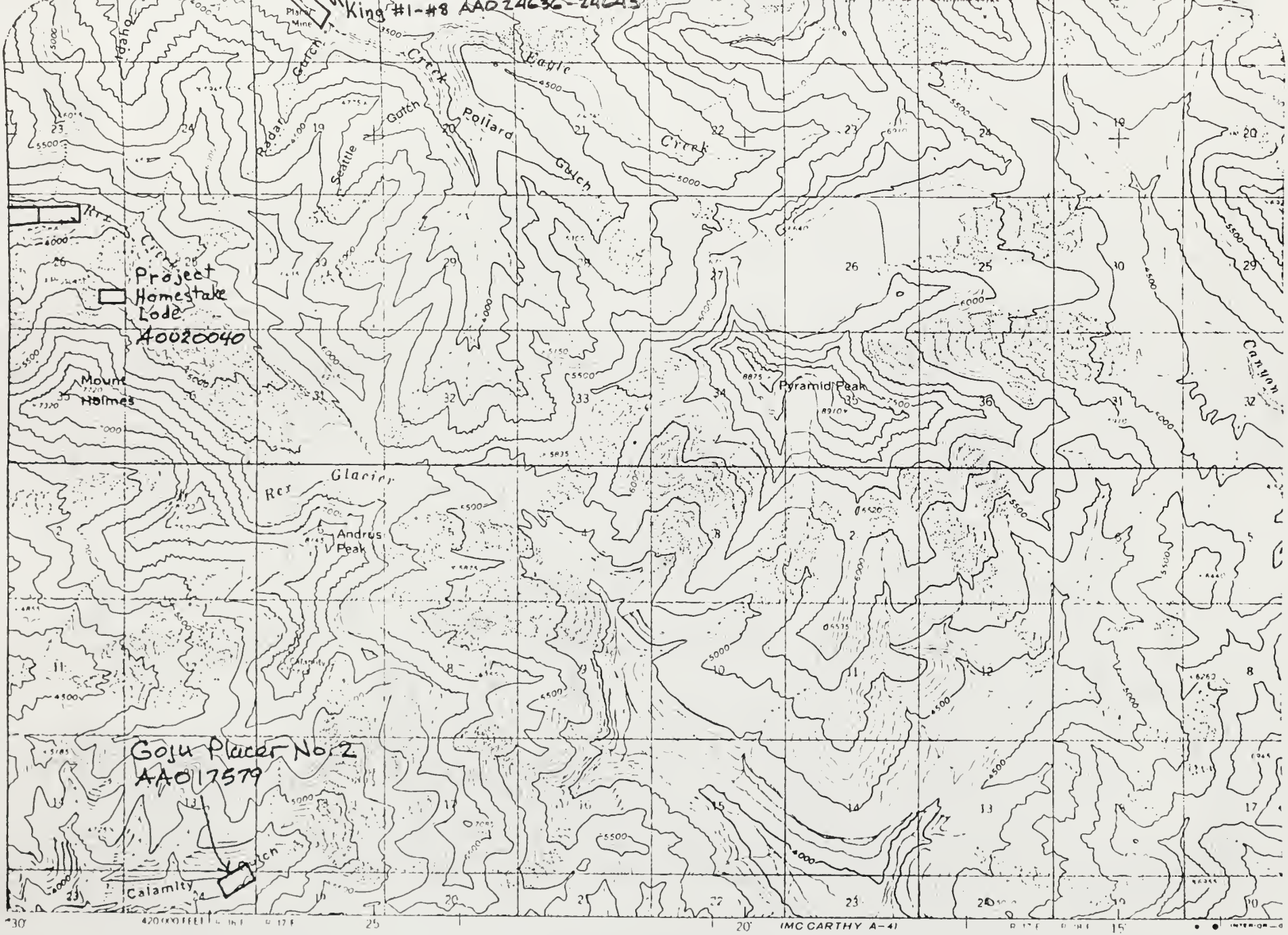

MC CARTHY (A-5) QUADRANGLE
ALASKA
1:63 360 SERIES (TOPOGRAPHIC)
MC CARTHY B-4
Calamity Gulch Placer No. 1 AA016845
Calamity Mine #1-2
24377-24378
KWSS #1-#8
AA018475 - 18478
(#5 - #8)
2 640 000 FEET
Young Creek
Boulder Gulch
Swede Gulch
Champagne Gulch
COL RIDGE
Devils Gulch
Hells Kitchen Gulch
RIVER
T 7 S
T 8 S

MAP 4


Linda Lou
AA025091
Castle
MACCOL
Bluffs
CHITINA
RIVER
Young


Hucarco
AA032642
Yellowbanks Min
Aqueduct
Monahan
Creek
Parker
Galcanta
Strand
Cabin
Shovel
Mine
30'
25'
20'
R 11 E
R 12 E
SCALE 1 63360
4 MILES
21000 FEET
5 KILOMETERS
CONTOUR INTERVAL 100 FEET
DOTTED LINES REPRESENT 50 FOOT CONTOURS
ALASKA

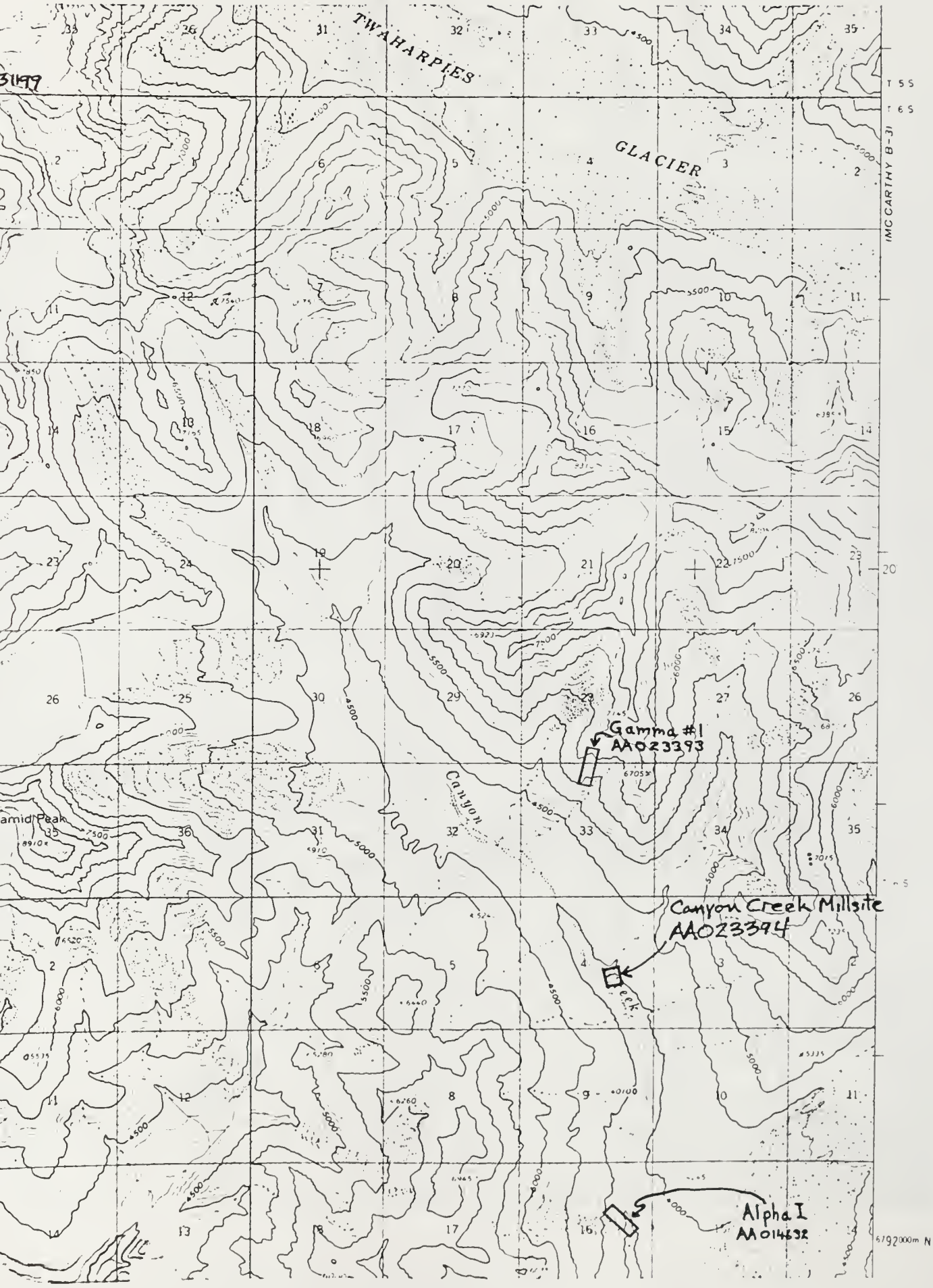
MAP 6

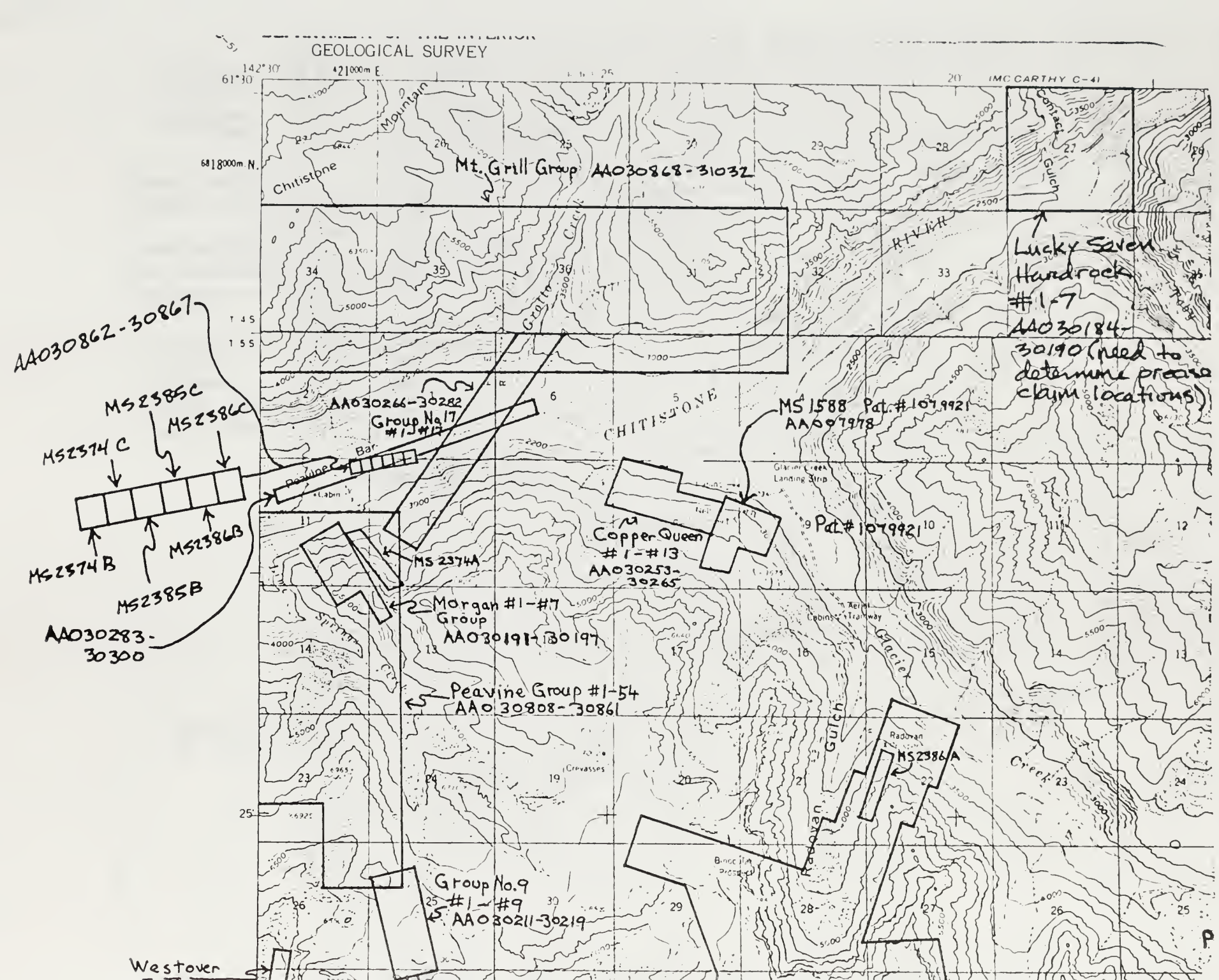


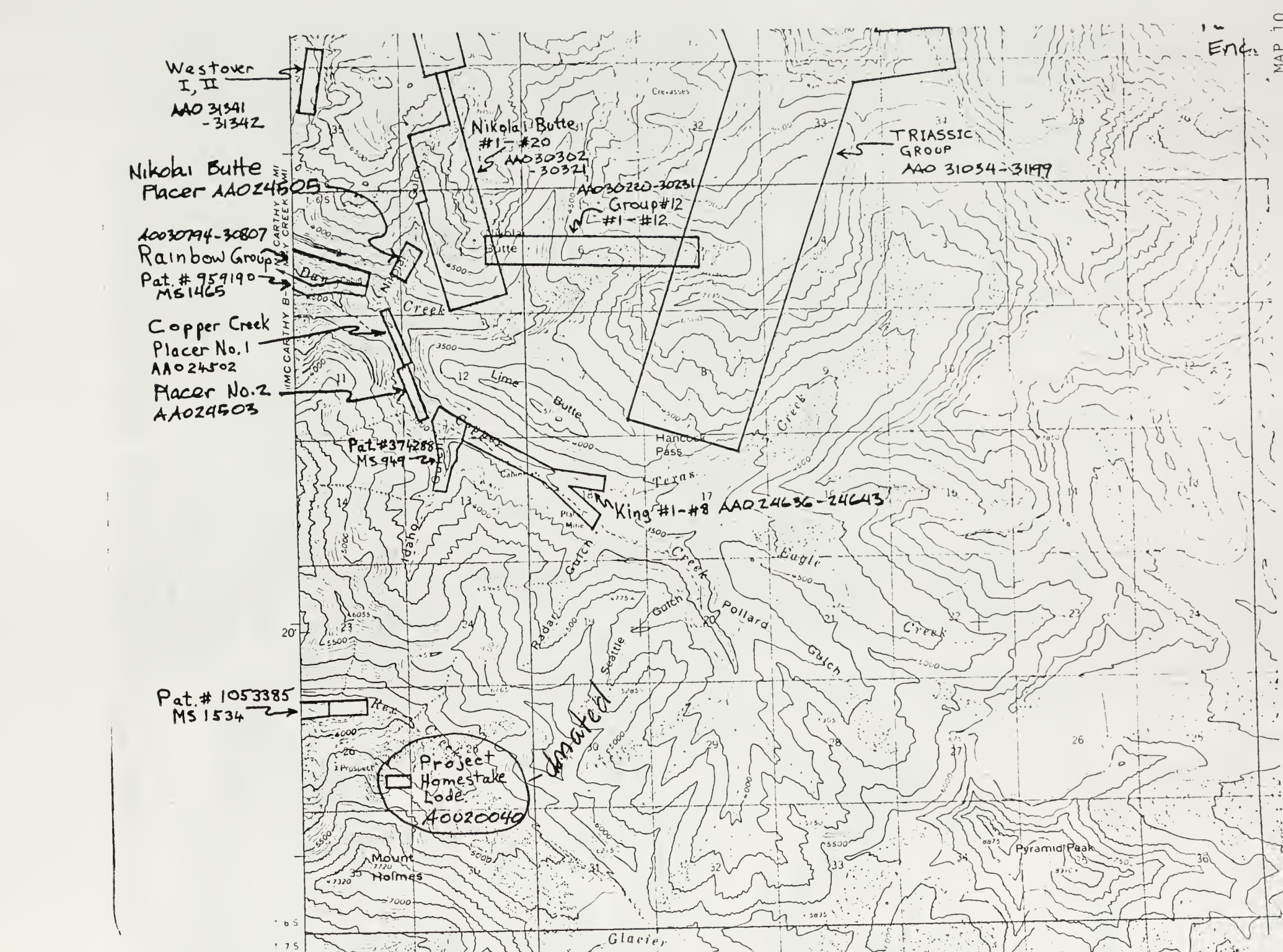
Mapped, edited, and published by the Geological Survey

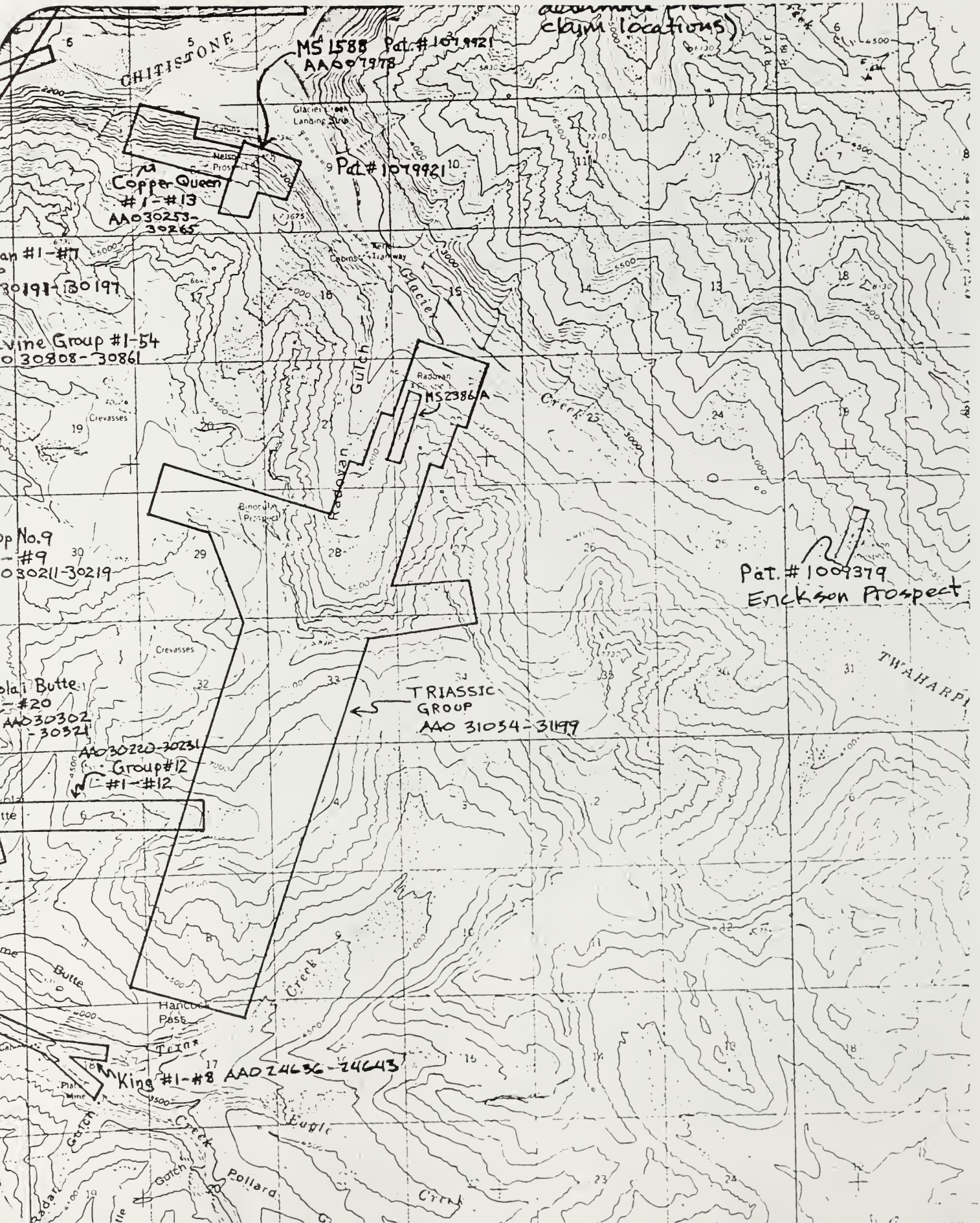
Control by USGS and USC&GS. Boundary Commission

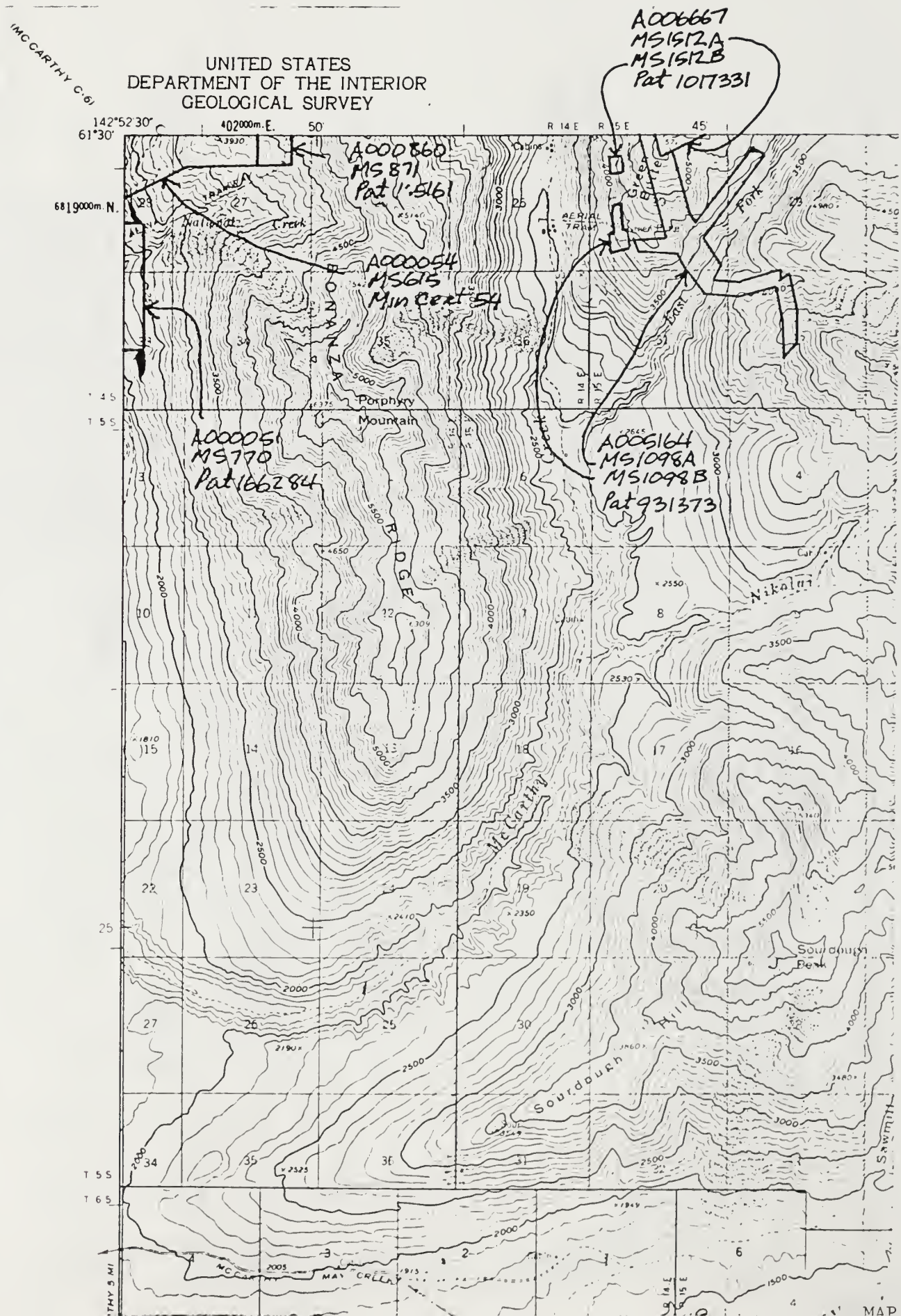
Topography by photogrammetric methods from aerial photographs 1947. Field annotated 1959. Map not field checked


TWAHARPIES
GLACIER
McCARTHY B-31
T 5 S
T 6 S
Gamma #1
AA023393
Canyon
Canyon Creek Millsite
AA023394
Creek
Alpha I
AA014632
6792000m N

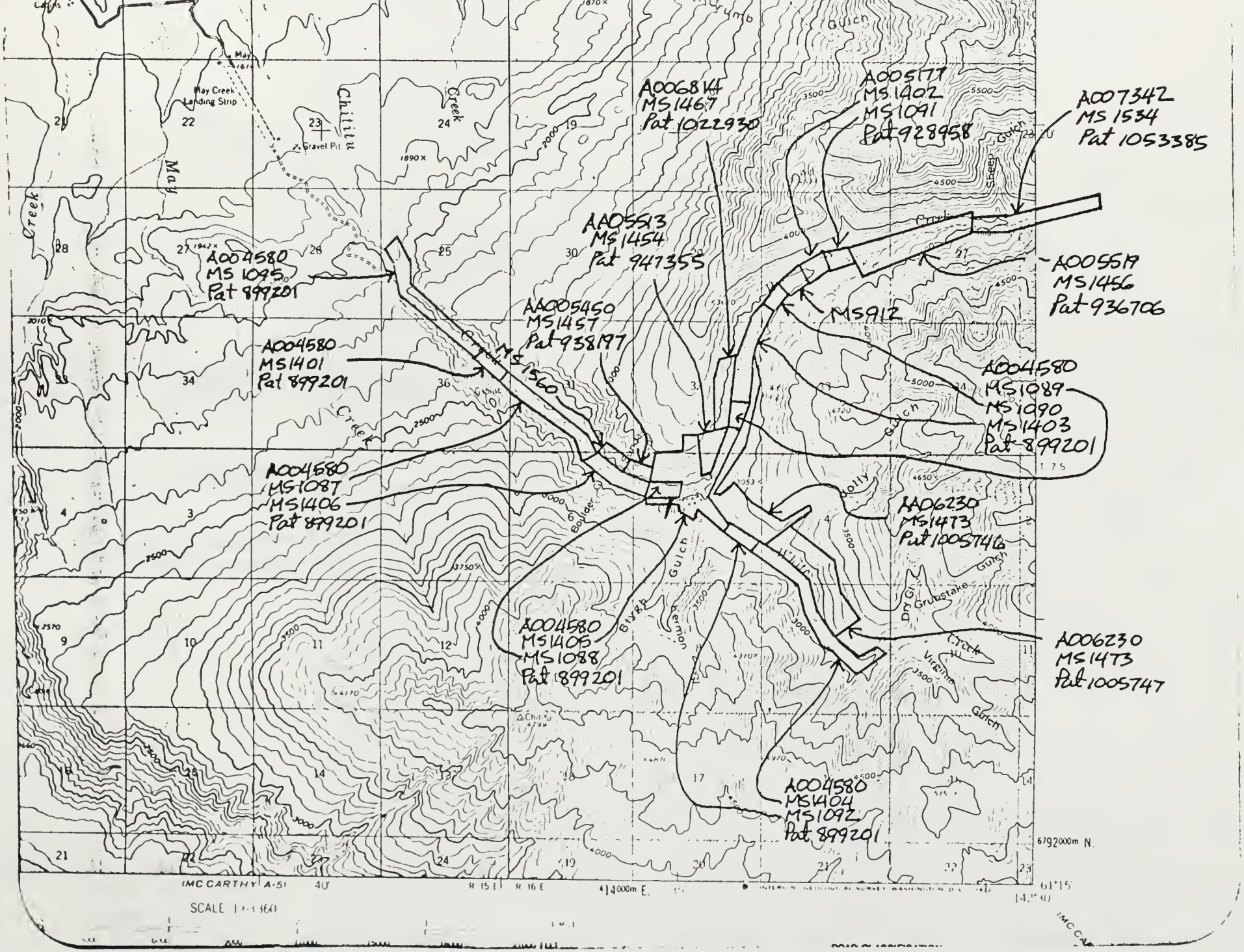

GEOLOGICAL SURVEY
142°30'
61°30'
421000m E
6818000m N.
IMC CARTHY C-41
Chitistone Mountain
Mt. Grill Group AA030868-31032
Lucky Seven Hardrock #1-7 AA030184-30190 (need to determine precise claim locations)
Contact Gulch
Glacier Creek Landing Strip
AA030862-30867
MS2385C
MS2386C
MS2374C
MS2374B
MS2386B
MS2385B
AA030283-30300
AA030266-30282 Group No.17 #1-#17
Peavine
Cabin
Bar
MS 1588 Pat. #1079921 AA007978
Copper Queen #1-#13 AA030253-30265
MS 2374A
Morgan #1-#7 Group AA030191-30197
Peavine Group #1-54 AA030808-30861
Aerial Tramway
Cabins
Glacier
Radovan
MS2386A
Crevasses
Group No.9 #1-#9 AA030211-30219
Westover
T 4 S
T 5 S


Westover I, II
AAO 31341 -31342
Nikolai Butte Placer AAO24505
AAO30794-30807
Rainbow Group
Pat. # 959190
MS1465
Copper Creek Placer No.1
AA024502
Placer No.2
AA024503
Pat.# 374288
MS 949
Nikolai Butte #1-#20
AAO30302 -30321
AAO30220-30231
Group#12 #1-#12
TRIASSIC GROUP
AAO 31054-31199
King #1-#8 AAO24636-24643
Pat.# 1053385
MS 1534
Project Homestake Lode.
AA020040
Amated
Nikolai Butte
Lime Butte
Copper Creek
Hancock Pass
Texas Creek
Idaho Gulch
Radar Gulch
Seattle Gulch
Pollard Gulch
Eagle Creek
Mount Holmes
Pyramid Peak
Glacier
McCARTHY B-1 McCARTHY MI
Day Cabin
Prospect
Mine
Creek
Gulch
Butte
Pass
Cabin
Mine
Prospect
Creekbeds
Eng
MAP 10

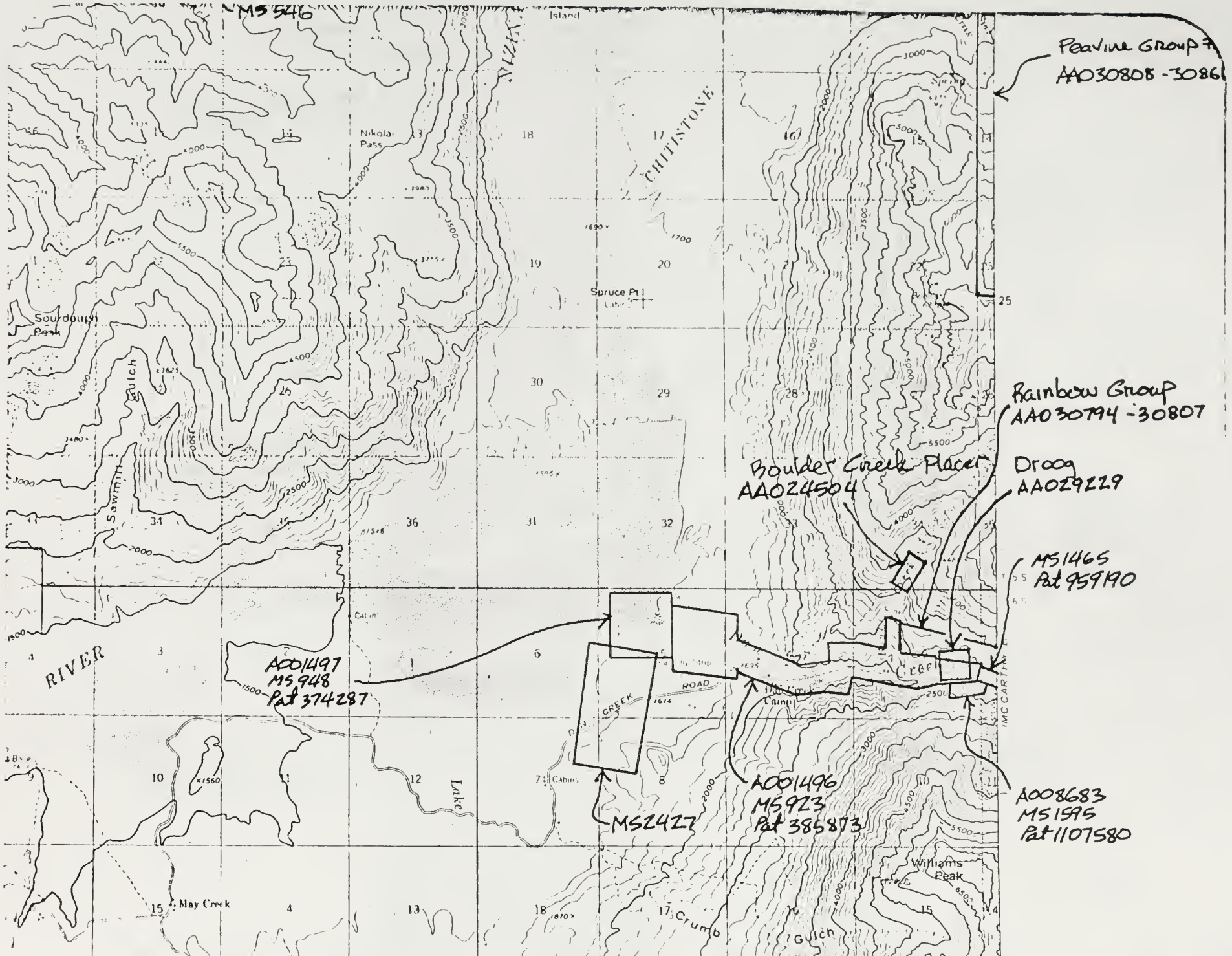

claim locations)
MS 1588 Pat.# 1079921
AA007978
CHITISTONE
Pat.# 1079921
Copper Queen
#1-#13
AA030253-
30265
an #1-#17
30191-30197
vine Group #1-54
O 30808-30861
MS2386A
Radovan Gulch
Glacier
Creek
Crevasses
Binorium
Prospect
pp No.9
-#9
030211-30219
Pat. # 1009379
Erickson Prospect
THAHARPI
ola i Butte
-#20
AA030302
-30321
AA030220-30231
Group#12
#1-#12
TRIASSIC
GROUP
AA 31054-31199
Hanco
Pass
King #1-#8 AA024636-24643
Butte
Creek
Gulch
Pollard
Creek

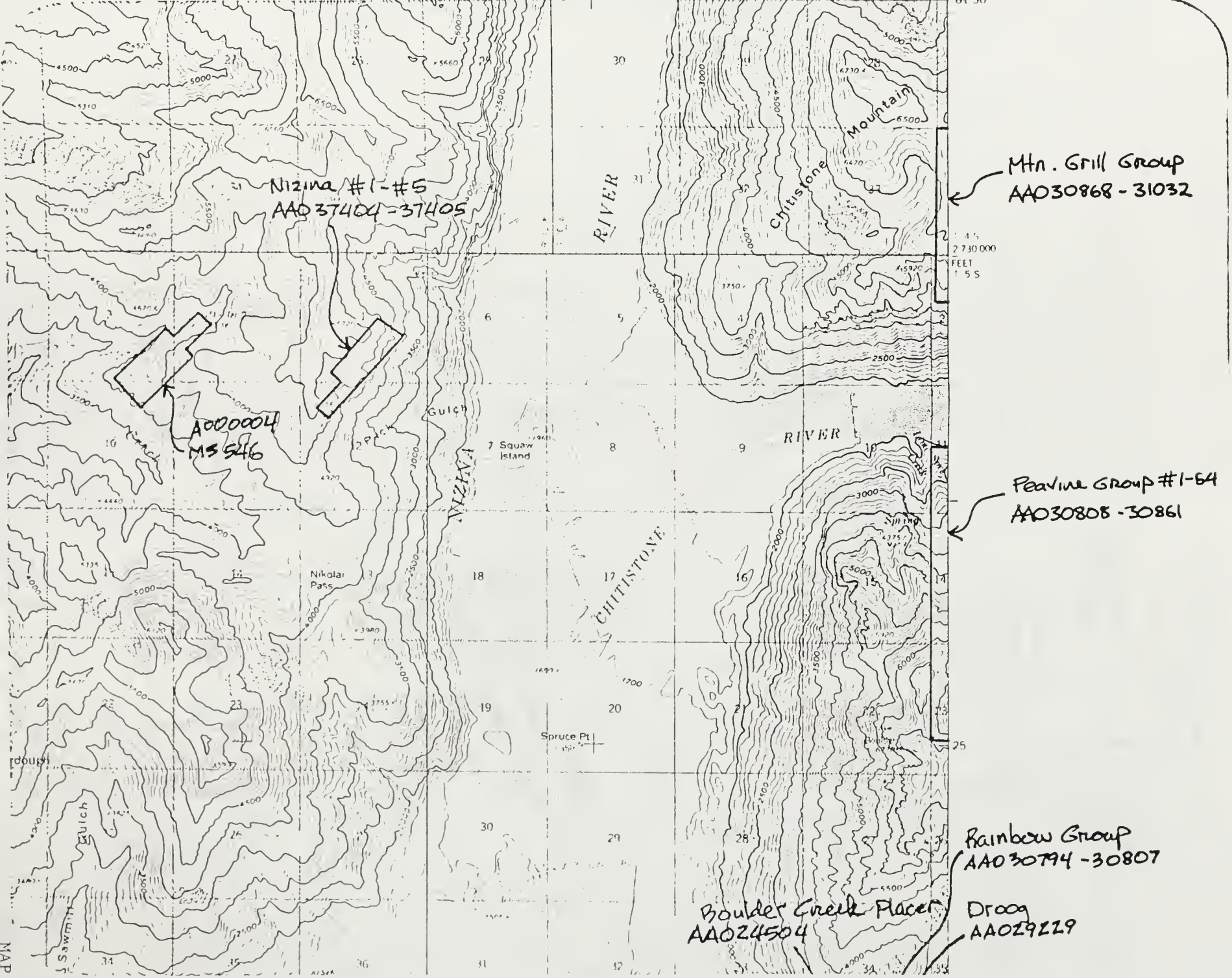

A006667
MS1512A
MS1512B
Pat 1017331
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
142°52'30"
61°30'
402000m. E.
50'
R 14 E
R 15 E
45'
6819000m. N.
A000860
MS871
Pat 1-5161
A000054
MS615
Min Cert 54
A000051
MS770
Pat 1662844
A005164
MS1098A
MS1098B
Pat 931373
Porphyry
Mountain
RIDGE
McCarthy
Sourdough
Nikolai
Creek
Fork
T 4 S
T 5 S
T 6 S

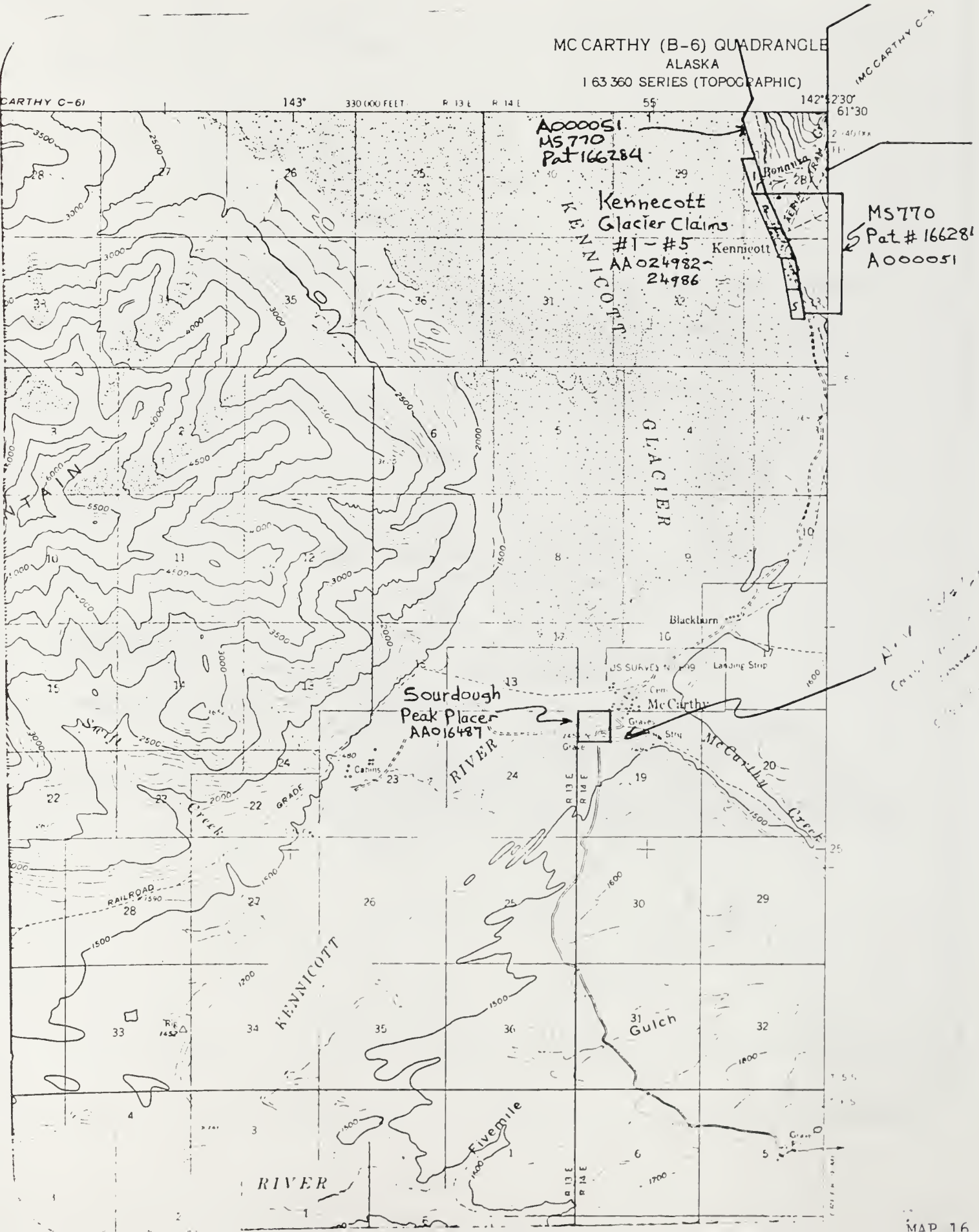
MAP 12


AA005177
MS1402
MS1091
Pat 928958
AA007342
MS 1534
Pat 1053385
AA006814
MS1467
Pat 1022930
AA005513
MS1454
Pat 947355
AA004580
MS 1095
Pat 899201
AA005450
MS1457
Pat 938197
AA005519
MS1456
Pat 936706
MS912
AA004580
MS1401
Pat 899201
MS1560
AA004580
MS1089
MS1090
MS1403
Pat 899201
AA004580
MS1087
MS1406
Pat 899201
AA06230
MS1473
Pat 1005746
AA004580
MS1405
MS1088
Pat 899201
AA006230
MS1473
Pat 1005747
AA004580
MS1404
MS1092
Pat 899201
May Creek Landing Strip
Gravel Pit
Chilliu
May Creek
Boulder Creek
Bivap Gulch
Fermon Gulch
Dry Gulch
Grubstake Gulch
Virginia Creek
Sheep Gulch
Molly Gulch
IMC CARTHY A-5
SCALE 1:63360
6792000m N.
4140000m E.
61°15'
147°30'
R 15 E
R 16 E

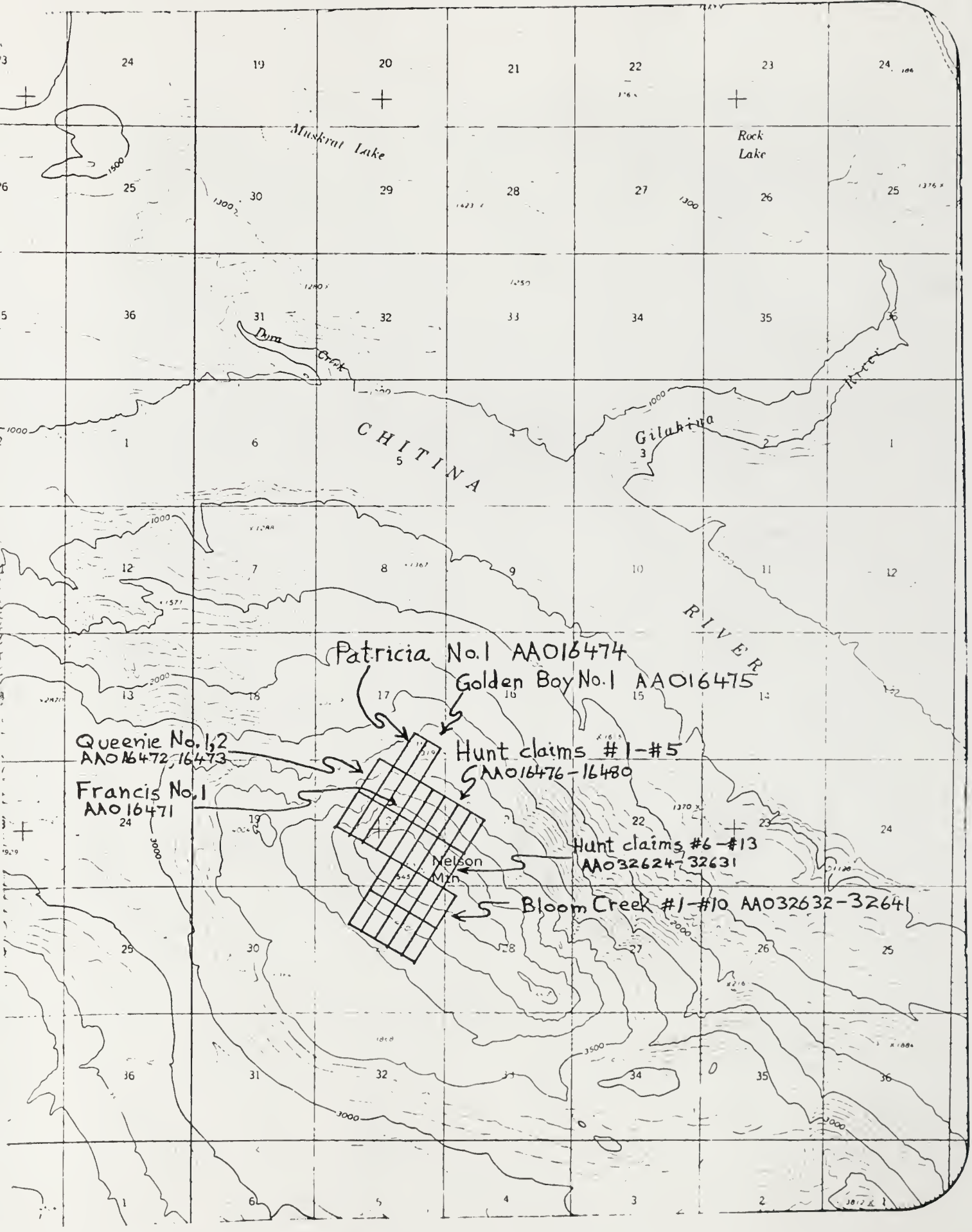
MAP 13

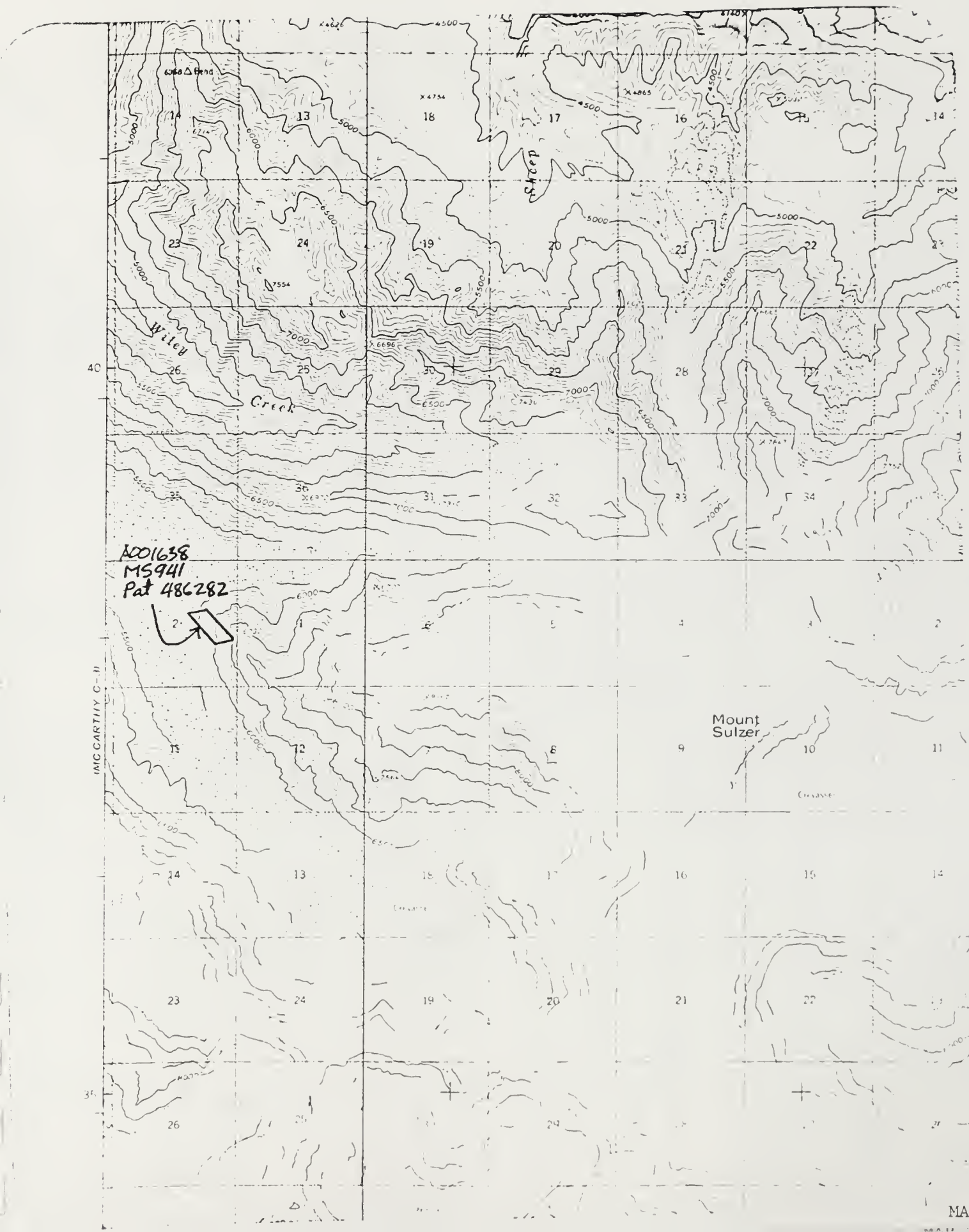

MS 546
Island
Peavine Group
AA030808 - 30861
Nikolai Pass
CHITISTONE
Spruce Pt
Sourdough Peak
Sawmill Gulch
Rainbow Group
AA030794 - 30807
Boulder Creek Placer
AA024504
Droog
AA029229
MS1465
Pat 959190
RIVER
AA01497
MS 948
Pat 374287
ROAD
Cabins
Lake
MS2427
AA01496
MS923
Pat 386873
AA008683
MS1595
Pat 1107580
Williams Peak
May Creek
Crumb
Gulch
McCARTHY

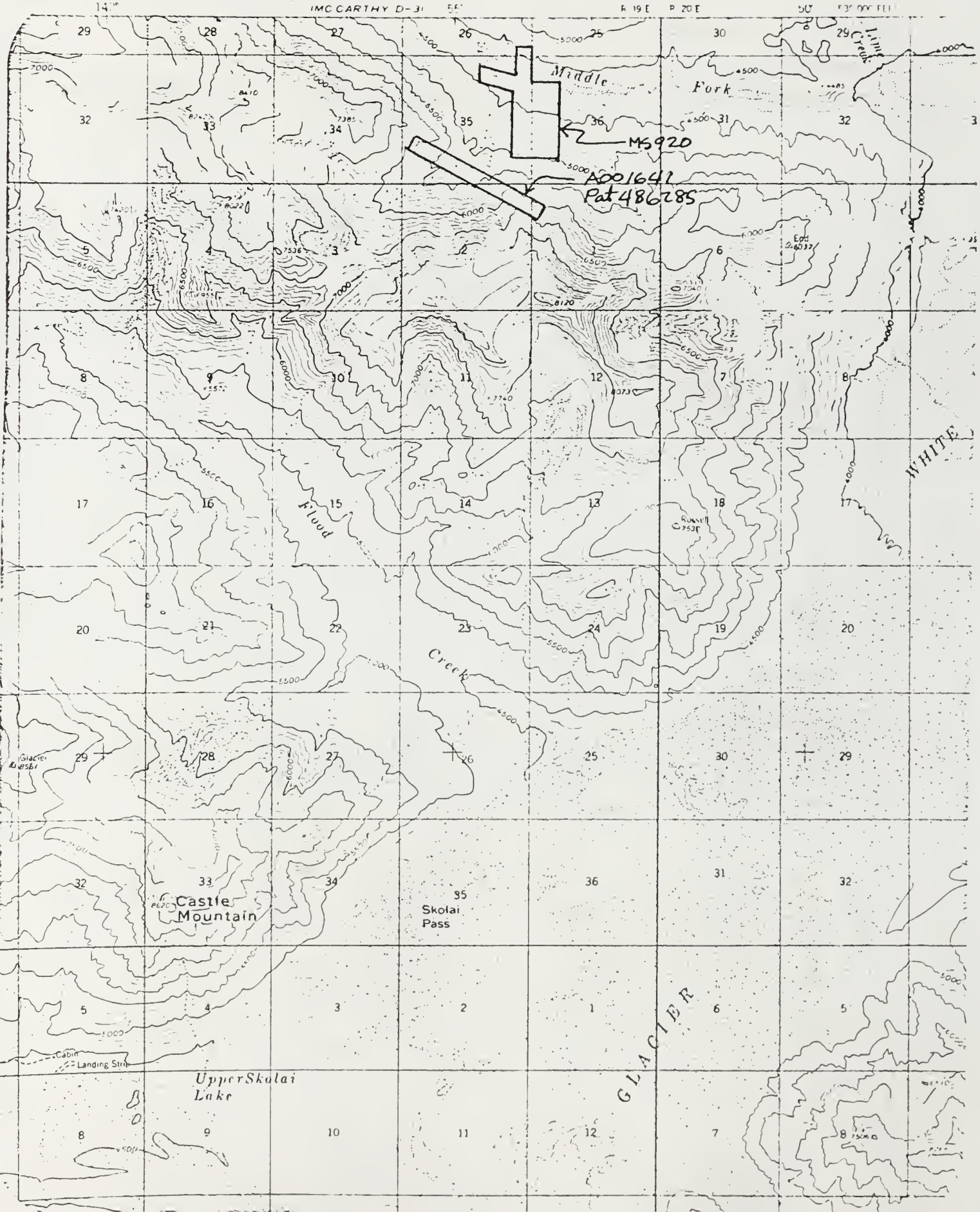

Nizina #1-#5
AA037404-37405
AA000004
MS546
Mtn. Grill Group
AA030868-31032
Peavine Group #1-64
AA030808-30861
Rainbow Group
AA030794-30807
Boulder Creek Placer
AA024504
Droog
AA029229
RIVER
Chitistone Mountain
Gulch
Squaw Island
Nikolai Pass
CHITISTONE
Spruce Pt
Sawmill Gulch

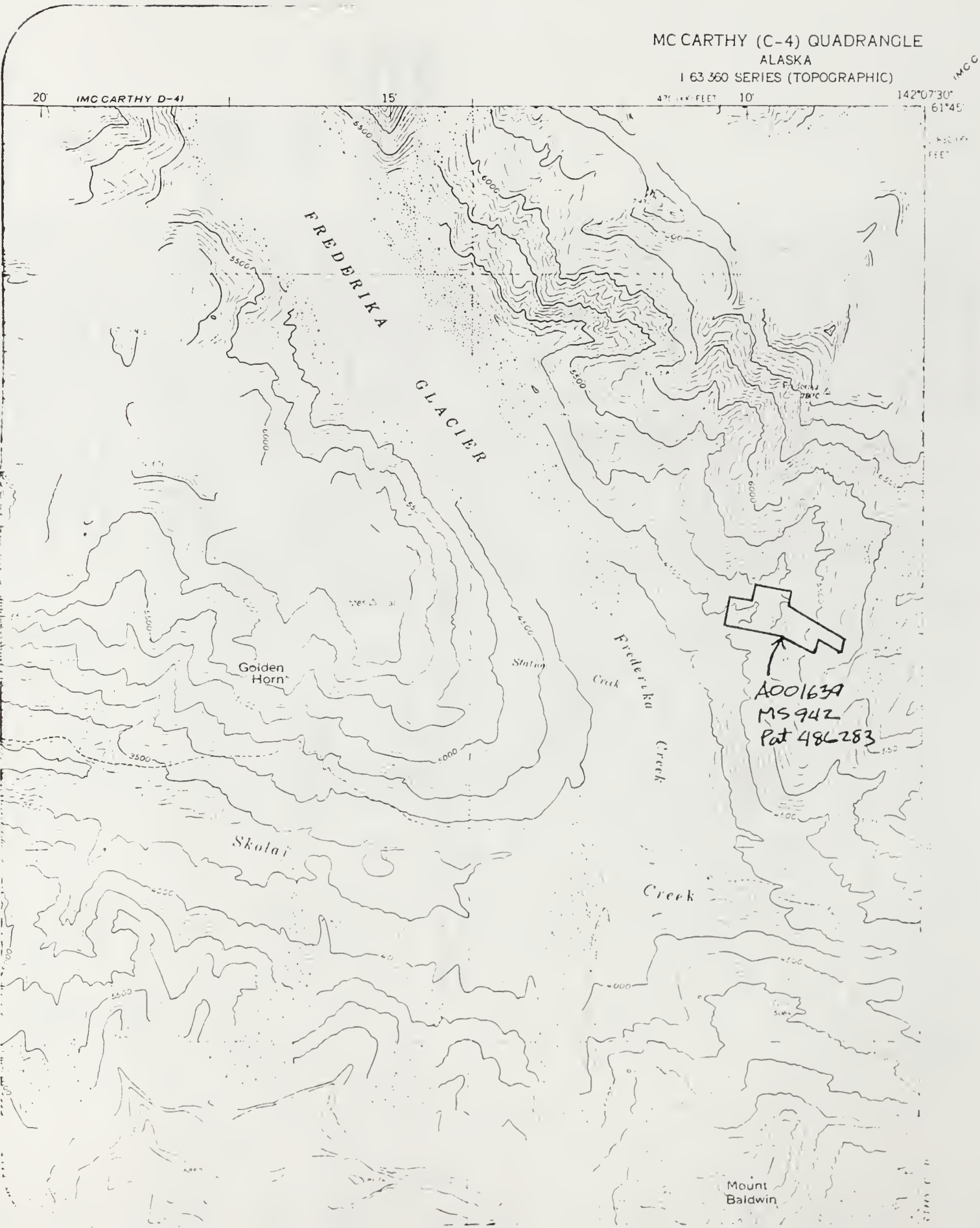

MC CARTHY (B-6) QUADRANGLE
ALASKA
1 63 360 SERIES (TOPOGRAPHIC)
MC CARTHY C-61
143°
330 000 FEET
R 13 E
R 14 E
55'
142°52'30"
61°30
MC CARTHY C-5
A000051
MS770
Pat 166284
Kennecott
Glacier Claims
#1 - #5
AA 024982 -
24986
Kennecott
MS770
Pat # 166281
A000051
KENNICOTT
GLACIER
Bonanza
Blackburn
US SURVEY
Landing Strip
McCarthy
Graves
Sourdough
Peak Placer
AA016487
SIXTH
GRADE
Creek
RIVER
Cabins
McCarthy Creek
RAILROAD
KENNICOTT
RIVER
Gulch
Fivemile
Creek

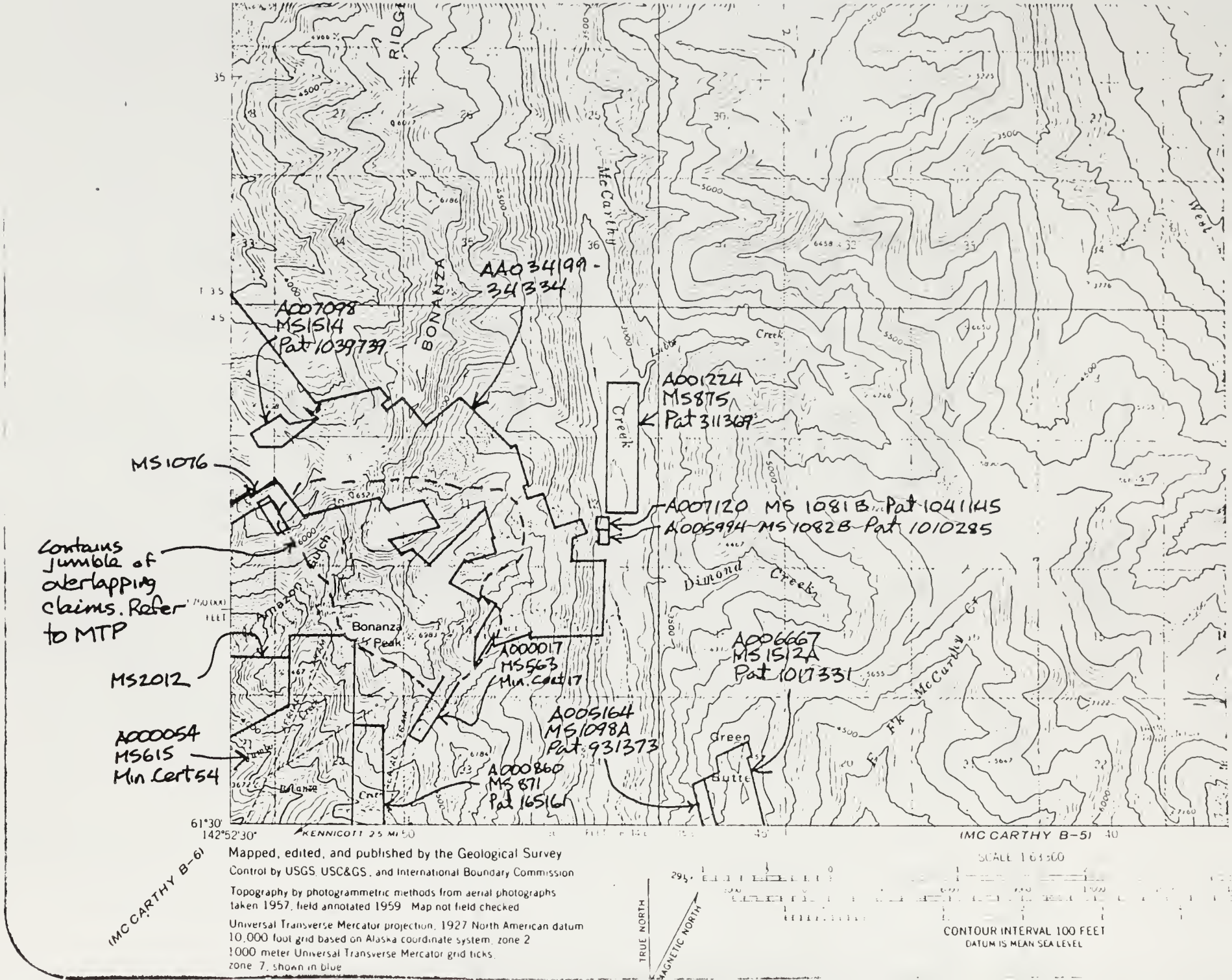
MAP 16

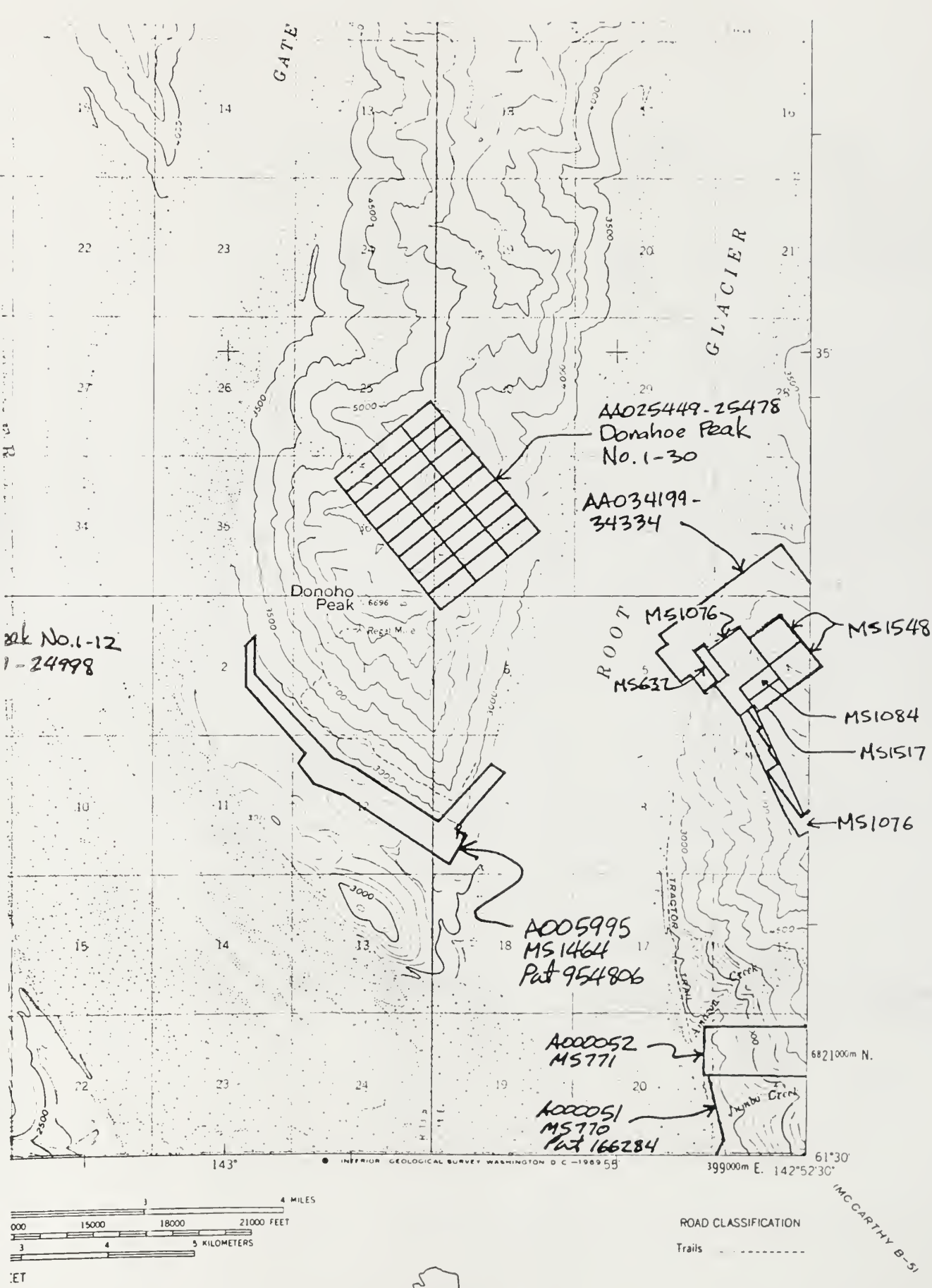

Muskrat Lake
Rock Lake
Dime Creek
CHITINA
Gilakiva
RIVER
Patricia No.1 AA016474
Golden Boy No.1 AA016475
Queenie No.1,2
AA016472, 16473
Hunt claims #1-#5
AA016476-16480
Francis No.1
AA016471
Hunt claims #6-#13
AA032624-32631
Nelson Mtn
Bloom Creek #1-#10 AA032632-32641

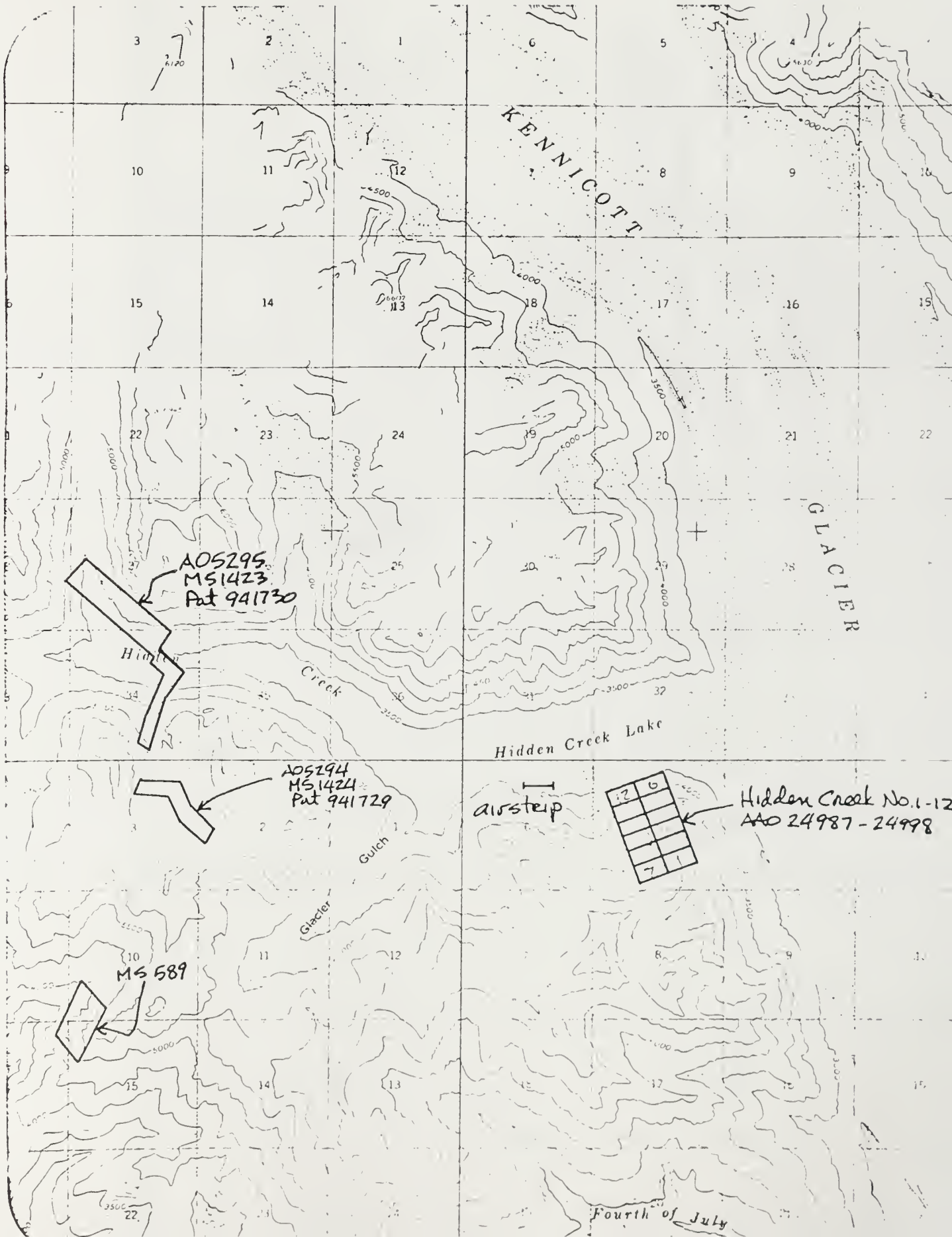

A001638
MS941
Pat 486282
Wiley
Creek
Mount
Sulzer
MAP

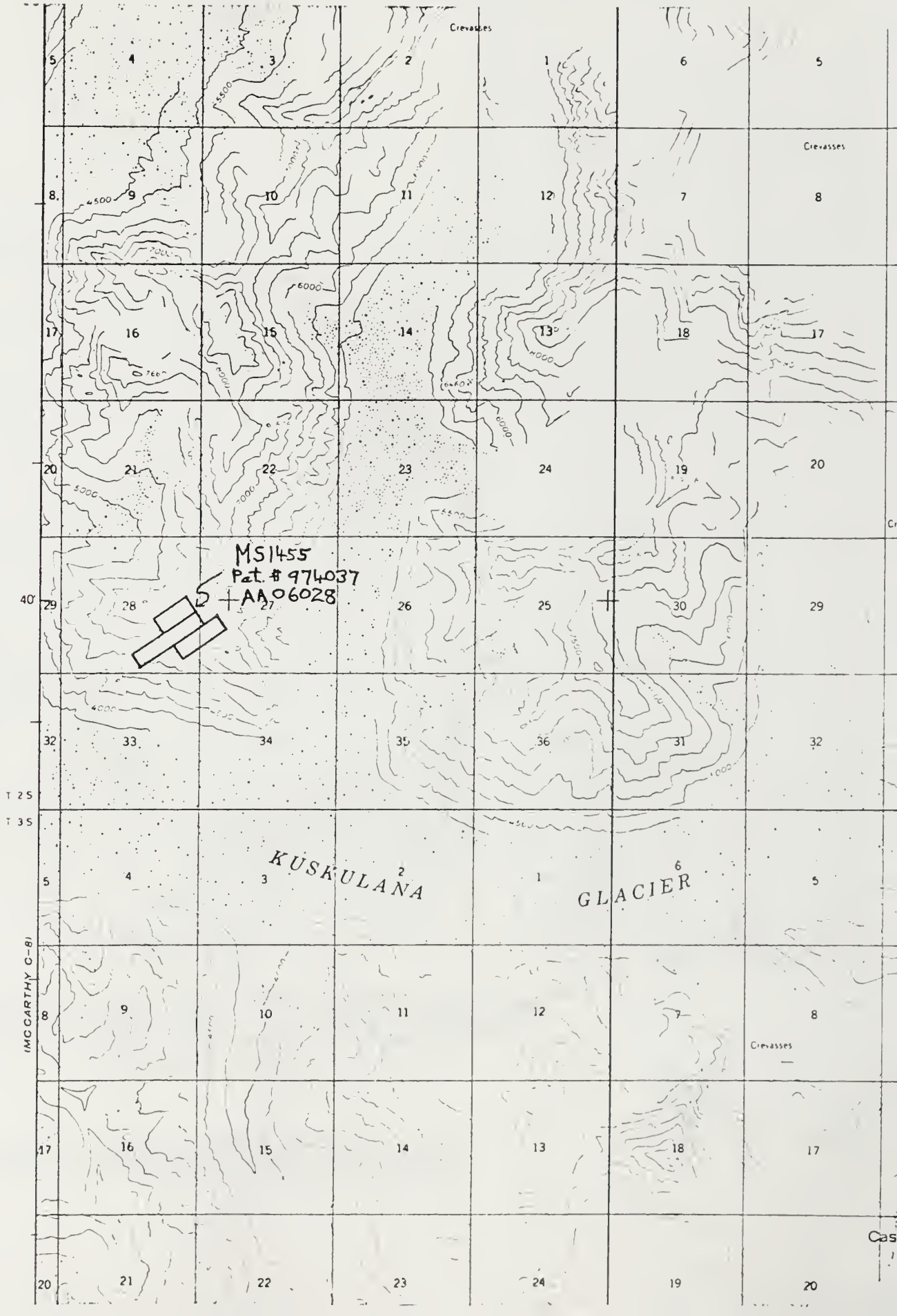

MC CARTHY D-31
R 19 E
R 20 E
Middle
Fork
MS920
A001641
Pat486285
WHITE
Flood
Creek
Castle
Mountain
Skolai
Pass
GLACIER
Upper Skolai
Lake
Cabin
Landing Strip

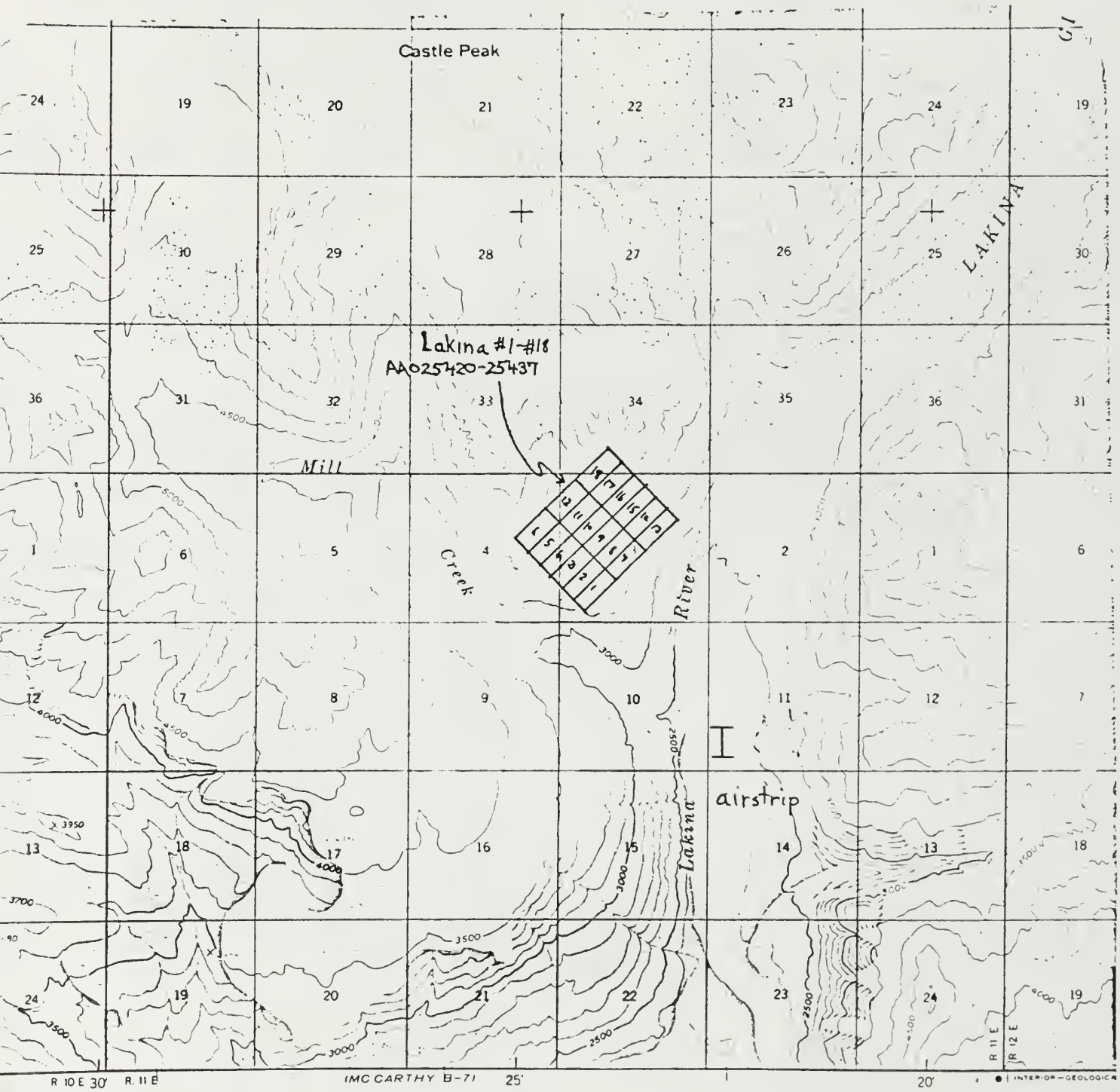

MC CARTHY (C-4) QUADRANGLE
ALASKA
1 63 360 SERIES (TOPOGRAPHIC)
20'
IMC CARTHY D-4)
15'
10'
142°07'30"
61°45'
FREDERIKA
GLACIER
Golden
Horn
Frederika
Creek
Skolai
Creek
Mount
Baldwin
A001639
MS942
Pat 48L283


AA034199 -
341334
AA007098
MS1514
Pat 1039739
MS1076
Contains
jumble of
overlapping
claims. Refer
to MTP
MS2012
AA000054
MS615
Min Cert 54
AA001224
MS8775
Pat 311369
AA007120 MS 1081B Pat 1041145
AA005994 MS 1082B Pat 1010285
AA000017
MS563
Min. Cert 17
AA005164
MS1098A
Pat 931373
AA000860
MS 871
Pat 16516
AA006667
MS 1512A
Pat 1017331
BONANZA RIDGE
McCarthy
Diamond Creek
Bonanza Peak
Green Butte
61°30'
142°52'30"
KENNICOTT 25 MI 50
IMC CARTHY B-51 40
IMC CARTHY B-61
Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and International Boundary Commission
Topography by photogrammetric methods from aerial photographs
taken 1957, field annotated 1959 Map not field checked
Universal Transverse Mercator projection, 1927 North American datum
10,000 foot grid based on Alaska coordinate system, zone 2
1000 meter Universal Transverse Mercator grid ticks,
zone 7, shown in blue
SCALE 1:63,360
TRUE NORTH
MAGNETIC NORTH
CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL


GATE
GLACIER
ROOT
AA025449-25478
Donahoe Peak
No. 1-30
AA034199-
34334
Donoho
Peak
6696
MS1076
MS1548
MS632
MS1084
MS1517
MS1076
ak No. 1-12
1-24998
AA005995
MS1464
Pat 954806
AA000052
MS771
AA000051
MS770
Pat 166284
Tramway Creek
Jumbo Creek
6821000m N.
399000m E.
143°
142°52'30"
61°30'
INTERIOR GEOLOGICAL SURVEY WASHINGTON D C —1989 58
(MC CARTHY B-5)
4 MILES
15000
18000
21000 FEET
5 KILOMETERS
ROAD CLASSIFICATION
Trails
ALASKA
QUADRANGLE LOCATION
MC CARTHY (C-6) ALASKA


KENNICOTT
GLACIER
AOS295
MS1423
Pat 941730
Hidden Creek
Hidden Creek Lake
AOS294
MS1424
Pat 941729
airstrip
Hidden Creek No.1-12
AAO 24987-24998
Gulch
Glacier
MS 589
Fourth of July

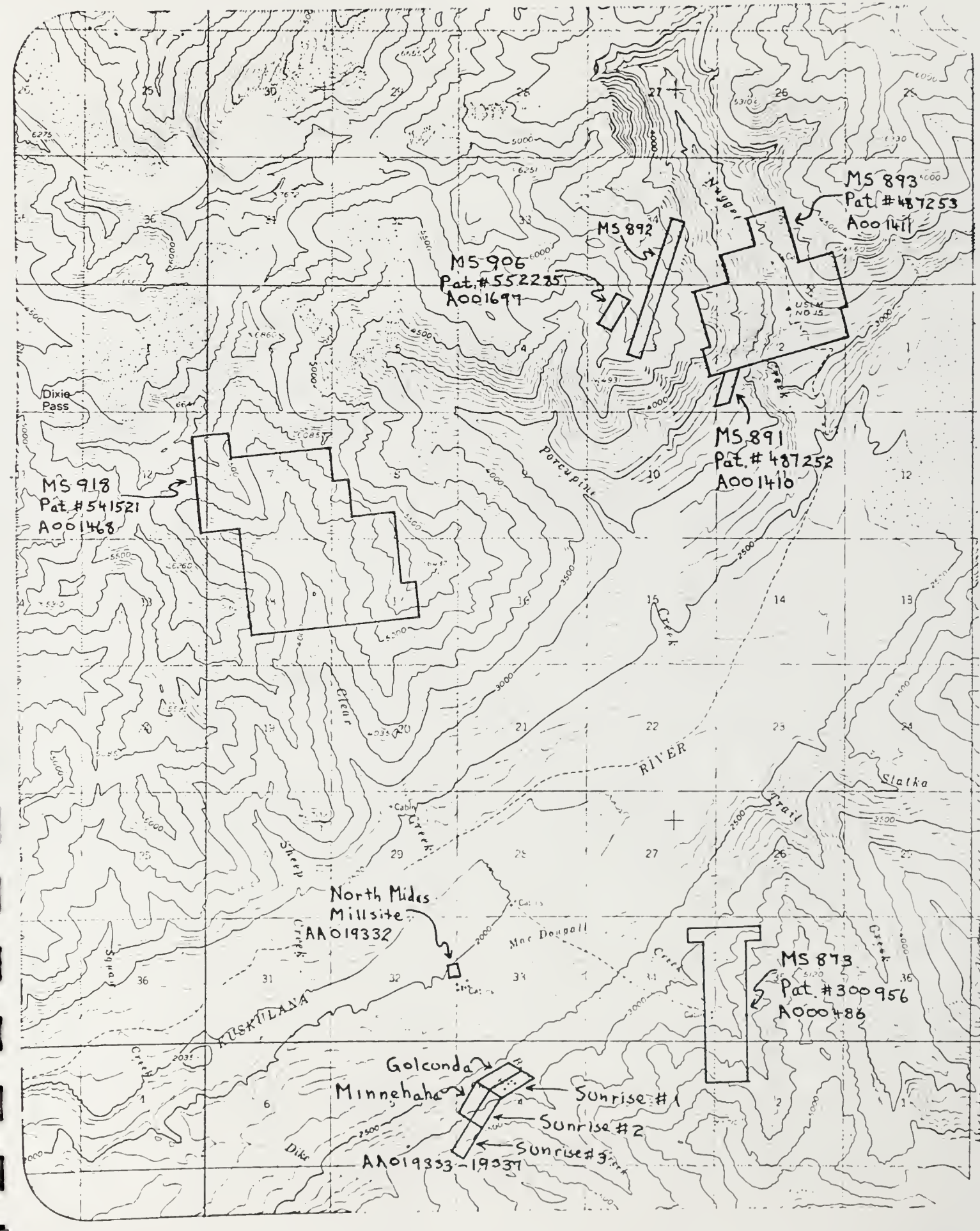

MS1455
Pat. # 974037
AA 06028
KUSKULANA
GLACIER
Crevasses
Crevasses
Crevasses
T 2 S
T 3 S
McCARTHY C-8)



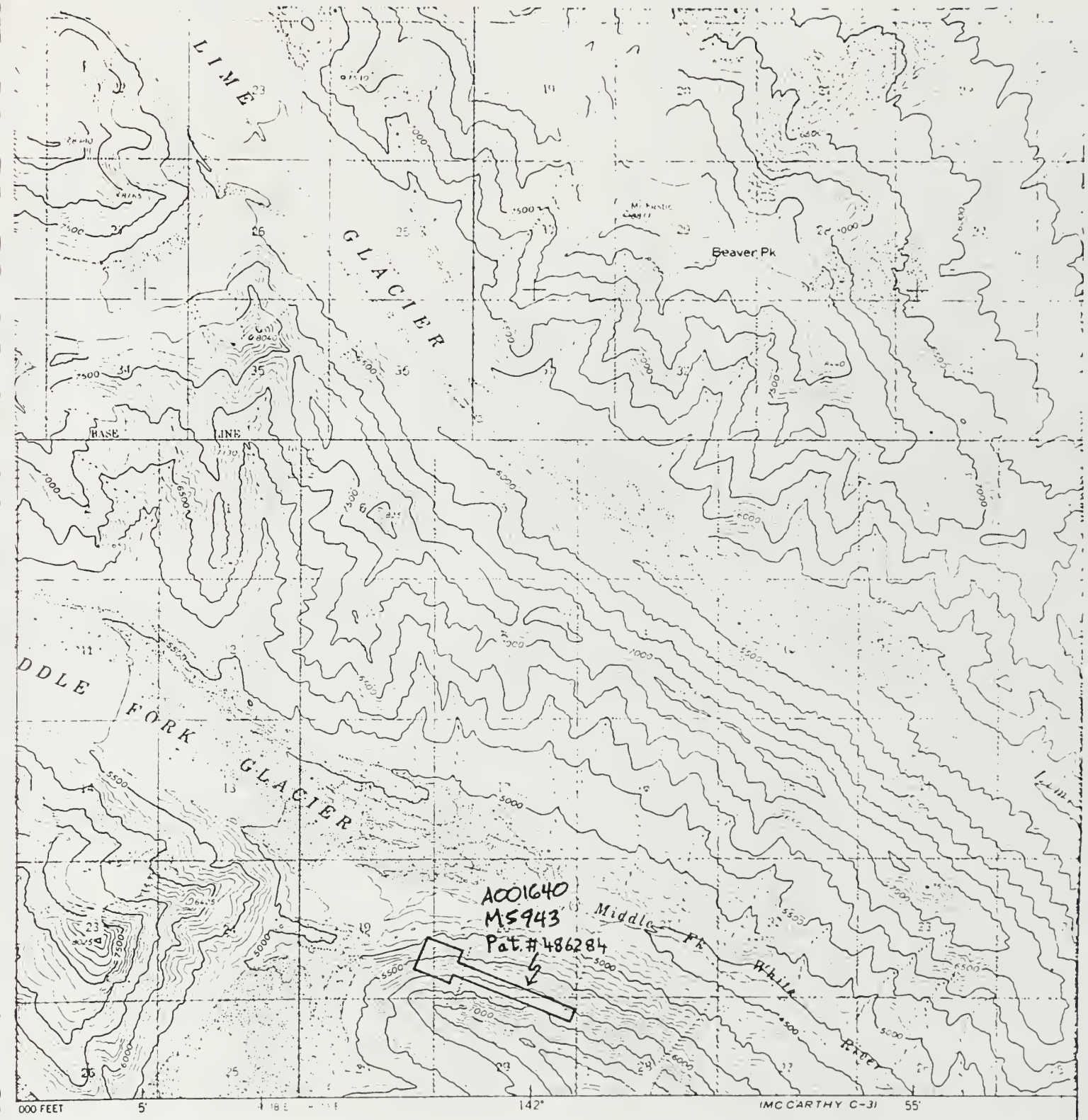
FOR SALE BY U S GEOLOGICAL SURVEY
FAIRBANKS, ALASKA 99701, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MC CA

MAP


MS 893
Pat. #487253
A001411
MS 892
MS 906
Pat. #552225
A001697
MS 891
Pat. #487252
A001410
MS 918
Pat. #541521
A001468
Dixie Pass
Porcupine
Creek
RIVER
Slatka
Trail
Cabin
Creek
North Mides
Millsite
AA019332
Sheep
Creek
Mac Dougall
Creek
MS 873
Pat. #300956
A000486
KUSKULANA
Golconda
Minnehaha
Sunrise #1
Sunrise #2
Sunrise #3
AA019333-19337
Dike

MAP 2



dited, and published by the Geological Survey
ISGS and USC&GS

by photogrammetric methods from aerial photographs
, field annotated 1959 Map not field checked

ansverse Mercator projection, 1927 North American datum
grid based on Alaska coordinate system, zone 2
Universal Transverse Mercator grid ticks.
wn in blue

epresent unsurveyed and unmarked locations
ed by the Bureau of Land Management
d CR 7, Copper River Meridian

TRUE NORTH
MAGNETIC NORTH
30°
APPROXIMATE MEAN DECLINATION 1959

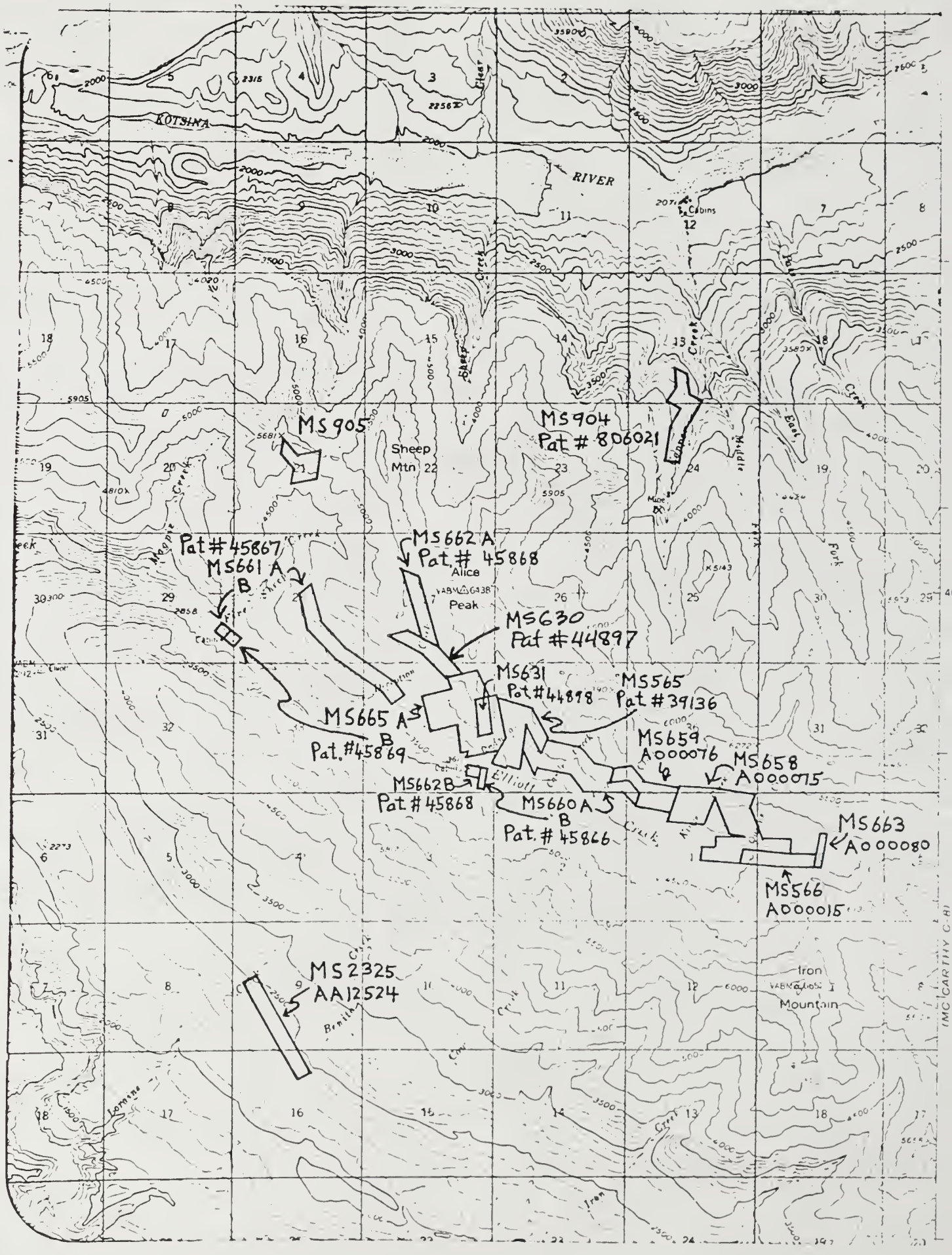
SCALE 1:63360

CONTOUR INTERVAL 100 FEET
DOTTED LINES REPRESENT 50 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

FOR SALE BY U. S. GEOLOGICAL SURVEY
FAIRBANKS, ALASKA DENVER 25, COLORADO WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUE

MAP 2


GLACIER
KLUVESNA
Creek
Fall
Crevasses
BASE LINE
Scotty Peak
River
MS 908
Pat. # 545933
A001698
Kluvesna
MAP


KOTSINA
RIVER
MS905
Sheep
Mtn
MS904
Pat # 806021
Pat #45867
MS661 A
B
MS662 A
Pat.# 45868
Alice
Peak
MS630
Pat #44897
MS631
Pat #44898
MS565
Pat #39136
MS665 A
B
Pat.#45869
MS659
A000076
MS658
A000015
MS662B
Pat # 45868
MS660A
B
Pat. # 45866
MS663
A000080
MS566
A000015
MS2325
AA12524
Iron
Mountain

MAP 3