# AVALANCHE ATLAS

ON MAN AND THE BIOSPHERE



# SAN JUAN COUNTY, COLORADO

Len Miller, Betsy R. Armstrong, Richard L. Armstrong



Occasional Paper No. 17, 1976

# **Avalanche Atlas San Juan County**

bу

Leonard Miller, Betsy R. Armstrong and Richard L. Armstrong

San Juan Avalanche Project

INSTITUTE OF ARCTIC AND ALPINE RESEARCH

University of Colorado

Silverton, Colorado

January 1976

Prepared for San Juan County Commissioners and in Cooperation with the San Juan County

Land Use Planner

University of Colorado

Institute of Arctic and Alpine Research
Occasional Paper 17

ISSN 0069-6145

<sup>©</sup> Copyright 1976, The Regents of the University of Colorado All rights reserved.

#### TABLE OF CONTENTS

|  | page |
|--|------|
| PREFACE  | 3    |
| INTRODUCTION   | 6    |
| SECTION I. Town of Silverton   | 10   |
| SECTION II. Silverton to Red Mountain Pass, east side of U.S. Highway 550  | 30   |
| SECTION III. Red Mountain Pass to Silverton, west side of U.S. Highway 550 | 72   |
| SECTION IV. Silverton to Molas Pass, U.S.<br>Highway 550                   | 122  |
| SECTION V. Molas Pass to Coal Bank Pass,<br>U.S. Highway 550               | 137  |
| SECTION VI. Cement Creek, Colorado Highway 110                             | 163  |

#### PREFACE

Avalanche phenomena have been known, appreciated, and feared for hundreds of years in all those areas of the world where people, initially agriculturalists, have lived in high mountain lands subject to heavy snow accumulation. Only a small fraction of the total human experience with avalanches has been recorded and handed down to us and the completeness of the record is highly variable from place to place, with Switzerland, France and Austria accounting for a large share of it. Yet even here, detailed, accurate observations adequate for the provision of a sound basis for late-twentieth century development of mountain lands, is frequently lacking. Even so, the mountain systems of western North America, by comparison, are virtual unknowns.

The growth of serious tourist and recreational use of the Alps at the turn of the century, with an enormous acceleration after 1950, have witnessed such an increase in man-made structures and total number of summer and winter visitors, that the avalanche hazard has grown at an alarming rate. The Alpine countries, and especially Switzerland, have pioneered the areas of avalanche and snow mechanics research and the application of the ensuing expertise to development of mountain land-zoning policies. The great burst of developmental activities in the mountains of the North American West, dependent upon acceleration of recreational interests, lagged some 15 years behind the European experience, and is still far from comparable in terms of intensity of land use. Nevertheless, the avalanche hazard problem and the thorny questions of land-use planning are primary issues of the 1970's and 1980's forced by the mushroom growth of ski resorts, increasing interest in winter back-country experience, and expansion of mountain living and transportation across mountainous areas in general. It was within this latter-day context that the Institute of Arctic and Alpine Research (INSTAAR) of the University of Colorado, became very much involved in avalanche research and in natural hazards in mountains in general.

In 1971 a four-year task was commissioned by the Bureau of Reclamation (United States Department of the Interior) whereby INSTAAR became responsible for an attempt to develop an avalanche forecast system for the northern San Juan Mountains (Bureau of Reclamation Contract No. 14-06-D-7155).

This resulted in establishment of a base in Silverton for both winter and summer field operations. As our experience increased many other facets were added to the original program. These included studies in snow mechanics and temperature gradient metamorphism, supported by United States Army Research Office, Durham (ARO DAHCO4-75-G-0028), experimentation with alternate methods to explosives for avalanche release, funded by the Colorado State Highways Department, the Washington State Highways Department and the Federal Department of Transportation, and many studies in snow hydrology, climatology and geomorphology that were identified as graduate student dissertation topics. A major additional step was initiation of a continuing research grant from the Office of University Affairs, NASA, for application of remote sensing techniques to the solution of land-use problems in mountainous terrain. A large element of this effort has so far been devoted to identification of areas subject to avalanche and other natural hazards in specific areas such as Vail and adjacent land along Gore Creek, Crested Butte, Telluride and Ophir. More recently special attention has been given to county-wide mapping at a scale of 1:24,000 in San Juan, San Miguel and Ouray counties. This has been linked to the requirements of Colorado State House Bill 1041 and has been initiated by county request and conducted in collaboration with the Colorado Geological Survey. Finally, observations on avalanche events, obtained on a daily basis through four winters, have been reported to staff of the National Forest Service Avalanche Warning Center, Rocky Mountain Forest and Range Experiment Station, Fort Collins, and incorporated into the generalized State avalanche warning system.

This Avalanche Atlas for highways 550 and 110 within San Juan County, derives support from all of these activities as well as the County authorities themselves. Actual financial support was provided by the San Juan County Commissioners and the Bureau of Reclamation (Contract 14-06-D-7155). A special acknowledgment is accorded to Mr. Allen Nossaman, County Land Use Planner, for without his foresight and encouragement this atlas would not have been compiled. Many numbers of the INSTAAR San Juan Avalanche Project have contributed: in particular Len Miller provided the photography, maps, summary sheet technical data and final collation and editing; Richard and Betsy Armstrong compiled the terrain and vegetation data and Betsy the historical data; additional vital assistance was provided by Tom Carroll, Bill McClelland and Rod Newcomb. Finally the hand of Ed LaChapelle lies

upon all of our avalanche activities as consultant, investigator, colleague and Research Associate of INSTAAR.

In conclusion a word must be added concerning the context of the Atlas. It is an atlas, albeit highly specialized, and nothing more. The intention is to provide data in various forms, maps, photographs, and avalanche summary sheets. It is being complemented by other forms of publication: a compilation of historical data by Betsy Armstrong, to be published as INSTAAR Occasional Paper No. 18; a scientific report on the four-year avalanche study by Richard Armstrong, Edward LaChapelle, Michael Bovis and Jack D. Ives, to appear as INSTAAR Occasional Paper No. 19; county-wide natural hazard mapping by Michael Bovis and Rebecca Summer, and numerous technical papers and reports. The entire collection is identified as a vital segment of INSTAAR's overall research operation and is designated a part of the United States contribution to the Unesco\* Man and the Biosphere Program (MAB): Project 6 - study of the impact of human activities on mountain and tundra ecosystems. The Atlas is dedicated to the people of San Juan County, both past and present, whose keen observational faculties, and fortitude in living with the avalanche hazard have so frequently provided us with scientific insights and invaluable historical data.

Jack D. Ives

Director, INSTAAR

Jail D. Fres

Chairman, United States MAB Project 6A

Directorate

26 January, 1976

<sup>\*</sup> Unesco: United Nations Educational, Scientific and Cultural Organization

#### INTRODUCTION

The San Juan Avalanche Atlas was developed for the San Juan Planning Commission and the San Juan County Commissioners. It is intended to aid those in need of information concerning avalanche hazards related to land use planning.

The idea of an avalanche atlas is not a new one; the Swiss were interested in compiling a register of avalanches in the 1800's. In North America, the first avalanche atlas was produced by the U. S. Forest Service for use by the Colorado Department of Highways in 1964 and is still being used for avalanche control, highway design, and highway maintenance. Similar atlases were developed in Washington State. The Washington State Department of Highways avalanche atlases are more detailed than the original Colorado atlas and include all avalanche paths affecting the highways.

The San Juan Avalanche Atlas attempts to take the next step in the evolution of the avalanche atlas in North America by providing more detailed information on the summary sheet than has been attempted in the past. Detailed technical data are supplied for each path and may be helpful to those interested in designing defensive structures for buildings, highways, etc. The information is not intended for critical engineering purposes, but rather as a guide for subsequent data gathering where necessary.

The atlas is a catalog of avalanche activity which has been observed from the late 1870's through 1975 along highways 550 and 110 in San Juan County, Colorado. However, all known avalanche paths visible from these highways are not included; only paths for which data are readily available are cataloged.

Additional information may be added to the atlas without difficulty since a separate sheet is devoted to each path. It is also emphasized that references may bracket avalanche events that have a return period ranging from once every significant snowfall to once in a hundred years or more. To assist with the continued improvement of our historical record, would atlas users in the San Juans please inform INSTAAR of any avalanche event they are able to observe. Time of day, date, and size of event should be noted and information mailed to: Director, Institute of Arctic and Alpine Research, University of Colorado, Boulder, Colorado 80309.

An explanation of the terms used follows:

#### MAPS:

All maps are  $7\frac{1}{2}$ ' USGS topographic reproductions with a scale of 1" = 2000'. Each avalanche path is outlined and numbered. Arrows within a path indicate observed directions of flow of avalanche material. The outlines are only a rough boundary of the path and do not indicate absolute limits for land use planning purposes. These limits can only be established by a detailed ground study of the path in question.

#### PHOTOGRAPHS:

Photographs were taken with a 35 mm camera from a light aircraft. Only low level oblique photographs were taken. Each path is outlined on the photograph and numbered.

#### AVALANCHE SUMMARY SHEETS:

Zone:

Area:

Map number:

Path name(s): The common name or names currently used are given.

Where more than one name is currently used, all are included.

Path reference number: All paths have been cataloged with a reference number which allows it to be placed in a computer for easy retrieval.

The first three digits signify the station. The remaining three refer to the avalanche path. (A station number is a National Forest Service classification number for a highway, mine, or a town. A single station may include more than one zone).

A zone is a region of geographic similarity; for example the deep valley from Silverton to Gladstone (Cement Creek) is considered a single zone.

This category groups paths with similar release characteristics.

Each map in the atlas is numbered. This number appears on all avalanche summary

sheets to which it applies.

Photograph number: Each photograph is numbered. This

number appears on all avalanche summary

sheets to which it applies.

Specifications:

<u>Elevations and vertical fall</u>: Elevations and vertical fall are

taken directly from 1:24,000 scale maps.

Path lengths: Path lengths are computed as the sum of

the individually calculated lengths for

each of the three segments of the avalanche  $\,$ 

path.

Number of starting zones: The number of starting zones are ob-

tained from maps and field observations.

In cases where the number of starting zones is difficult to obtain due to the complexity

of terrain the term multiple is used.

Starting zone: The starting zone is the section of the

path where the initial rupture of the snow-

pack occurs and the avalanche begins its

downward course.

Track: The track is that section of the path that

funnels or guides the mass of falling snow

from the starting zone to the runout zone.

Runout zone: The runout zone is the section of the path

where an avalanche comes to rest. This is

the hazard zone principally because it is

frequently characterized by valley bottom

slopes which provide some of the few

areas in mountains that have slopes gentle

enough for construction purposes.

Slope, track, and runout angles: The angles for the starting, track,

and runout zones were all calculated from map data and measurements taken from the

maps by a scaled ruler.

Acreages: Acreages were calculated from data taken

from maps by ruler.

Mean widths: Mean widths were measured on the maps.

Tree line:

The tree line data were obtained from maps and field observations. The letter (B) indicates below timberline; (A) indicates above timberline.

<u>Terrain and vegetation cover</u>: Subjective descriptions of the terrain and vegetation of the paths are given including topographic features, vegetation cover and location.

#### **HISTORY:**

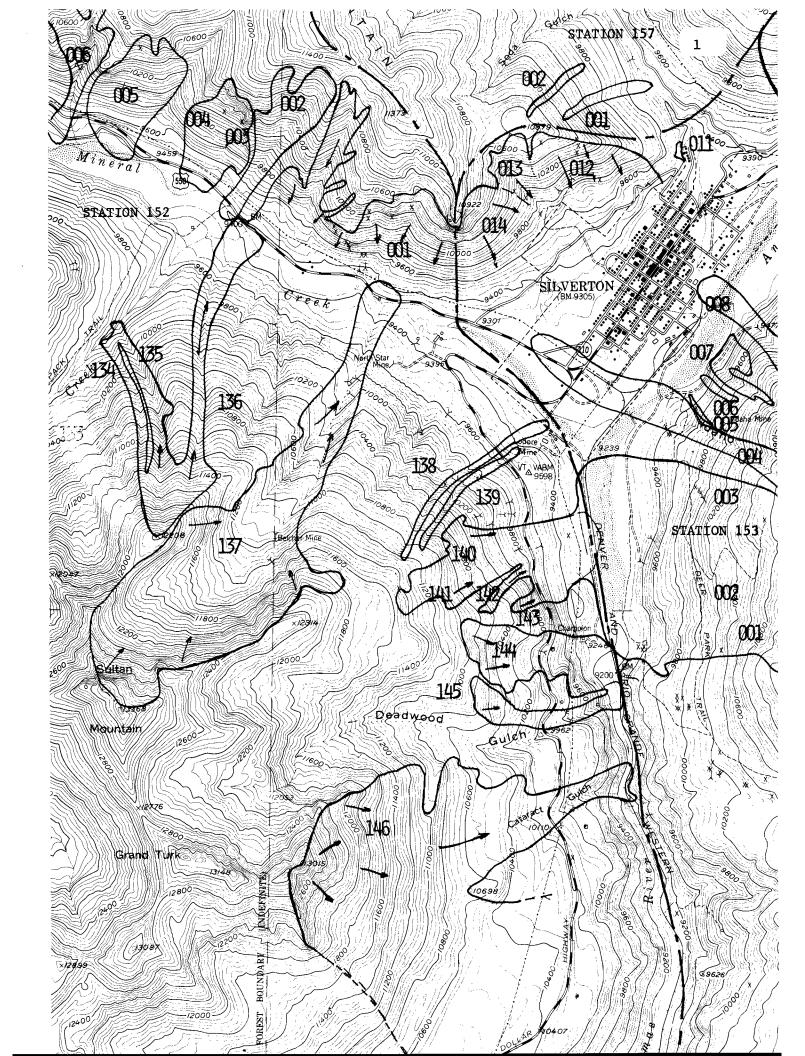
The history of each avalanche path is described in the following three categories:

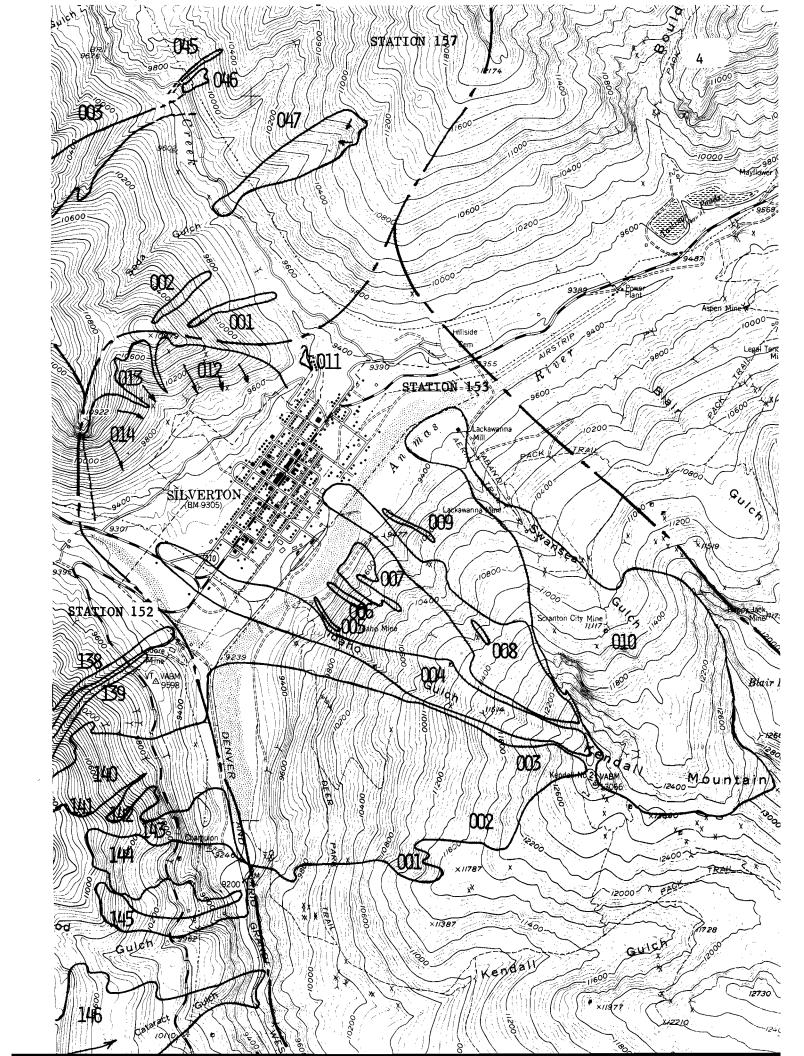
- I. Historical data for the period 1879-1938(B. Armstrong, 1976, Century of Struggle Against Snow - A History of Avalanche Hazard in San Juan County, Colorado.)
- II. Data collected by the Colorado Highway Department for period 1951-1971 Data obtained from personal communications with Louis Dalla, Durango, Colorado; Herman Dalla, Silverton, Colorado; and James Bell, Silverton, Colorado, for period 1938-1971.
- III. Data collected by the San Juan Avalanche Project, INSTITUTE OF ARCTIC AND ALPINE RESEARCH, University of Colorado, for period 1971-1975.

#### SECTION I

Town of Silverton

Avalanche paths: 153001 - 153014





|                        | 1 x v uiu  | nene su          |         | i y Diii      |         |          |             |
|------------------------|------------|------------------|---------|---------------|---------|----------|-------------|
| PATH NAME ('s):        | Denver     |                  |         |               | ***     |          |             |
| Path Reference         | Number: _  | 153001           | Z.c     | one:          | III     | Area: _  | 3           |
| Map Number: 1,         | <u>4</u> I | Photograp!       | ı Numbe | er: <u>40</u> | ,41     |          |             |
| SPECIFICATIONS:        |            |                  |         |               |         |          |             |
| Top Elev.: 11600       | l Bot      | tom Elev.        | .: _920 | 00' V         | ertica  | l Fall:  | 2400'       |
| Length of Path:        | 4925'      | Number           | of Sta  | irting Z      | ones: _ | Multip1  | <u>Le</u>   |
| St                     | tarting 7  | Zone             |         | Track         |         | Runc     | out Zone    |
| Slope Angle            | _34°       |                  |         | _31°          |         |          | 16°         |
| Area Acres             | 6          | Mean             | Width   | 1000'         | Area    | Acres_   | 17          |
|                        |            | ${ m L}\epsilon$ | ength   | 3138'         |         |          |             |
| Tree Line              | B          |                  |         | B             |         |          | <u>B</u>    |
| TERRAIN AND VEGI       | ETATION (  | COVER:           |         |               |         |          |             |
| Starting Zone:         | Open slo   | pe with ro       | ock out | crops a       | nd talu | ıs       |             |
|                        |            |                  |         |               |         |          |             |
| Track: Narrow<br>grass | shallow o  | depression       | n, ligh | nt small      | conife  | erous, w | villows and |
|                        |            |                  |         |               |         |          |             |
| Runout Zone: Op        | en slope   | , rock out       | tcrops, | , willow      | s and g | grass    |             |
|                        |            |                  |         |               |         |          |             |
| HISTORY: III.          | events:    | : 0              |         |               |         |          |             |

| PATH NAME ('s):  | Rio Grande                                |               |               |              |  |  |  |  |
|--|---|---------------|---------------|--------------|--|--|--|--|
| Path Reference Number: 153002 Zone: III Area: 3  |   |               |               |              |  |  |  |  |
| Map Number: 1,4  | Map Number: 1,4 Photograph Number: 40,41  |               |               |              |  |  |  |  |
| -  | 0' Bottom Elev.: 92<br>7965' Number of St |               |               | 300 <u>'</u> |  |  |  |  |
| St   | arting Zone                               | Track         | Runout        | Zone         |  |  |  |  |
| Slope Angle  | 39°                                       | 27°           | 16°           | opera.       |  |  |  |  |
| Area Acres   | 7 Mean Width                              | 1000' Arc     | ea Acres 25   | -            |  |  |  |  |
|  | Length                                    | 5367'         |               |              |  |  |  |  |
| Tree Line  | A   | <u>B</u>      | B             |              |  |  |  |  |
| TERRAIN AND VEGE   | TATION COVER:                             |               |               |              |  |  |  |  |
| Starting Zone: I<br>talus and grass  | Broad shallow depression                  | on, large smo | oth rock outc | rops,        |  |  |  |  |
| Track: Shallow depression, small rock outcrops, light to moderate small coniferous, aspen, willows and grass |   |               |               |              |  |  |  |  |
| Runout Zone: Broad open slope, cliff bands, light coniferous and grass with talus slope below                |   |               |               |              |  |  |  |  |
| HISTORY: III.  | events: 5 highway: 0 full-track: 1        |               |               |              |  |  |  |  |

| PATH NAME ('s):  | Western, Sorge S,  | washington           |   |  |  |  |
|--|--|----------------------|---|--|--|--|
| Path Reference N   | umber: <u>153003</u>   | Zone: <u>III</u>     | Area:3  |  |  |  |
| Map Number:1   | Photograph   | Number: <u>40,41</u> |   |  |  |  |
| SPECIFICATIONS:  |  |                      |   |  |  |  |
| Top Elev.: 13000   | Bottom Elev.:  | <u>9200'</u> Verti   | cal Fall: 3800'                               |  |  |  |
| Length of Path:  | 8407' Number o   | f Starting Zones     | :3  |  |  |  |
| St   | arting Zone  | Track                | Runout Zone                                   |  |  |  |
| Slope Angle  | _39°   | 32°                  | 17°   |  |  |  |
| Area Acres   | 7 Mean W   | idth <u>1000'</u> Ar | ea Acres <u>48</u>                            |  |  |  |
|  | Ler  | gth <u>4579</u> '    |   |  |  |  |
| Tree Line  | A  | B                    | В   |  |  |  |
| TERRAIN AND VEGETATION COVER:  Starting Zone: Broad open slope with 2 shallow depressions, large rock outcrops, talus, with willows, grass and small rock outcrops below  Track: Upper portion: broad open slope, divided by strip of moderate to heavy coniferous, small rock outcrops, willows, light small coniferous and grass. Lower portion: separated from upper portion by large smooth rock outcrop, broad open slope, large rock outcrops, moderate coniferous |  |                      |   |  |  |  |
| and aspen, talus<br>Runout Zone: Br  | road open slope, ta  | lus and willows      |   |  |  |  |
| HISTORY: I.  | March 1906 debri   | a denosited at b     | ase of Sultan Mountain                        |  |  |  |
| 1.   |  |                      |   |  |  |  |
| , II.  | mid 1940's, remove<br>January, 1952, obs<br>winter of 1961-196 | erved to have ru     | heavy coniferous trees<br>n<br>stand of aspen |  |  |  |
| III.   | events: 4 highway: 0 full-track: 0                             |                      |   |  |  |  |

| PATH NAME ('s   | s): Idaho                     | Gu1ch          |                              |             |              |
|---|-------------------------------|----------------|------------------------------|-------------|--------------|
| Path Reference  | e Number:                     | 153004         | Zone: III                    | Area: _     | 3            |
| Map Number:   | 1,4                           | Photograph Nu  | mber: 40,41                  | _           |              |
| SPECIFICATION   | is:                           |                |                              | ı           |              |
| Top Elev.: 13   | Во                            | ottom Elev.: _ | 9240' Vert                   | ical Fall:  | 3760'        |
| Length of Pat   | h: 9754'                      | Number of      | Starting Zone                | s: <u>1</u> | _            |
|   | Starting                      | Zone           | Track                        | Runo        | out Zone     |
| Slope Angle   | 49°                           |                | 27°                          |             | 11°          |
| Area Acres  | 3                             | Mean Wid       | th 400' A                    | rea Acres_  | 55           |
|   |                               | Lengt          | h 6083'                      |             |              |
| Tree Line   | A                             |                | B                            | _           | В            |
| TERRAIN AND V   | EGETATION                     | COVER:         |                              |             |              |
|   |                               |                | with large rootlus and grass |             | outcrops and |
| Track: Upper portion: broad open slope, small rock outcrops, talus, light small coniferous, willows and grass; lower portion: narrowing to open slope containing narrow steep-sided gully, talus, small rock outcrops, light small coniferous, aspen, willows and grass |                               |                |                              |             |              |
| Runout Zone:  | Broad ope                     | n fan, willows | , grass and 1                | ight small  | boulders     |
|   |                               |                |                              |             |              |
| HISTORY: I. 1879, ran to the level with Blair Street February, 1891, ran to the level with Blair Street January, 1914, ran to main railroad track 1913-1914, destroyed the bleachers at the ballpark by the highway   |                               |                |                              |             |              |
| II.   | observed :                    | running Januar | y, 1952                      |             |              |
| III.  | events: 6 highway: full-track | 6<br>0<br>k: 2 |                              |             | -            |



| PATH NAME ('s):  | 8th Stree                              | t       |         |         |        |          |         |    |
|--|--|---------|---------|---------|--------|----------|---------|----|
| Path Reference   | Number: 15                             | 3005    | Zo      | ne:     | III    | Λrea:    | 2       |    |
| Map Number: 1,4 Photograph Number: 40,41                 |  |         |         |         |        |          |         |    |
| SPECIFICATIONS:  |  |         |         |         |        |          |         |    |
| Top Elev.: 9800  | )' Botto                               | m Elev  | .: 930  | 0' V    | ertica | 1 Fall:  | 50      | 0' |
| Length of Path:  | 962'                                   | Number  | of Sta  | rting Z | ones:  | 1        |         |    |
| <u>S</u> 1   | ta <b>rti</b> ng Zon                   | ie.     |         | Track   |        | Rune     | out Zoi | ne |
| Slope Angle  | 39°                                    |         |         | 45°     | -      |          | 22°     |    |
| Area Acres   | .25                                    | Mean    | Width   | 50'     | Area   | Acres_   | .3      |    |
|  |  | Le      | ength   | 424'    | -      |          |         |    |
| Tree Line  | B                                      |         |         | B       | -      |          | В       |    |
| TERRAIN AND VEGI   | ETATION COV                            | ER:     |         |         |        |          |         |    |
| Starting Zone:   | Open slope                             | , talus | , moder | ate con | iferou | s and gr | rass    |    |
| Track: Shallow depression, talus, light small coniferous |  |         |         |         |        |          |         |    |
| Runout Zone: Br  | oad open sl                            | Lope, t | alus an | d willo | ws     |          |         |    |
|  | events: 1<br>highway: (<br>full-track: |         |         |         |        |          |         |    |

| PATH NAME ('s): 9th Street  |
|---|
| Path Reference Number: 153006 Zone: III Area: 2   |
| Map Number: 1,4 Photograph Number: 40,41  |
| SPECIFICATIONS:   |
| Top Elev.: 9900' Bottom Elev.: 9300' Vertical Fall: 600'  |
| Length of Path: 994' Number of Starting Zones: 1  |
| Starting Zone Track Runout Zone   |
| Slope Angle 39° 41° 22°   |
| Area Acres .25 Mean Width 100' Area Acres .6  |
| Length 461'   |
| Tree Line B B B   |
| TERRAIN AND VEGETATION COVER:   |
| Starting Zone: Narrow shallow depression, moderate coniferous                                       |
|   |
| Track: Broadening shallow depression, light to moderate coniferous and aspen, grass and bare ground |
| Runout Zone: Broad depression, grass, bare ground and willows below                                 |
| HISTORY: III. events: 1   |

highway: 0 full-track: 1

| PATH NAME ('s): Steeple  |                               |
|--|-------------------------------|
| Path Reference Number: 153007 Zone:                                | III Area: 2                   |
| Map Number: 1,4 Photograph Number: 4                               | 0,41                          |
| SPECIFICATIONS:  |                               |
| Top Elev.: 10300' Bottom Elev.: 9300'                              | Vertical Fall: 1000'          |
| Length of Path: 1707' Number of Starting                           | g Zones: 2                    |
| Starting Zone Trac   | ck Runout Zone                |
| Slope Angle 39° 41   |                               |
| Area Acres 2 Mean Width 70   | 0' Area Acres 5               |
| Length 922   | 1                             |
| Tree Line B  | <u>B</u> <u>B</u>             |
| TERRAIN AND VEGETATION COVER:                                      |                               |
| Starting Zone: Broad open slope, light to me grass and bare ground | oderate coniferous and aspen, |
| Track: Broad open slope, light to moderate and bare ground         | coniferous and aspen, grass   |
| Runout Zone: Broad open slope, bare ground willows below           | , small rock outcrops and     |
| UI CTODY.  |                               |

| PATH NAME ('s             | s): Arcade, Kendall Mtn., (                             | Green Ribbon, G  | reen Wave            |
|---------------------------|---|------------------|----------------------|
| Path Reference            | ce Number: 153008 Zo                                    | ne: <u>III</u> A | rea: <u>2</u>        |
| Map Number: _             | 1,4 Photograph Number                                   | r: 40,41         |                      |
| SPECIFICATION             | NS:   |                  |                      |
| Top Elev.: 12             | 2800' Bottom Elev.: 92                                  | 280' Vertical    | Fall: 3520'          |
| Length of Pat             | th: 7765' Number of Sta                                 | rting Zones:     | 2                    |
|                           | Starting Zone   | Track            | Runout Zone          |
| Slope Angle               | 39°   |                  | 11°                  |
| Area Acres                | 4 Mean Width  | 300' Area A      | cres_21              |
|                           | Length  | 5731'            |                      |
| Tree Line                 | A   | B                | B                    |
| TERRAIN AND V             | VEGETATION COVER:                                       |                  |                      |
| Starting Zone             | e:Broad open slope, large r                             | ock outcrops an  | d talus              |
|                           |   |                  |                      |
|                           | w shallow v-shaped depressi                             | on, moderate sm  | all coniferous       |
| and willows               | and bare ground   |                  |                      |
|                           |   |                  |                      |
| Runout Zone: willows, gra | Irregular hummocky terrai ss and bare ground            | n, light small   | coniferous and       |
|                           |   |                  |                      |
| HISTORY: I.               | March, 1906, ran to juncti                              | on of Animas Ri  | ver and Cement Creek |
|                           | and destroyed 3 unoccupie<br>April 1926, ran to railroa |                  |                      |
| II.                       | 1942, crossed Cement Creek fence on Cement Street, 1    |                  |                      |
|                           | January, 1952, ran to end of Cement Creek and Anima     |                  | ne between junction  |
| III.                      | events: 4   |                  |                      |
|                           | highway: 0 full-track: 1                                |                  |                      |

| PATH NAME ('s): Crystal Gulch   |
|---|
| Path Reference Number: 153009 Zone: III Area: 2                                     |
| Map Number: 4 Photograph Number: 40,41  |
| SPECIFICATIONS:   |
| Top Elev.: 10100' Bottom Elev.: 9300' Vertical Fall: 800'                           |
| Length of Path: 1482' Number of Starting Zones: 1                                   |
| Starting Zone Track Runout Zone   |
| Slope Angle 50° 41° 28°   |
| Area Acres .5 Mean Width 50' Area Acres .1  |
| Length 922'   |
| Tree Line B B B   |
| TERRAIN AND VEGETATION COVER:   |
| Starting Zone: Narrow depression in open slope, moderate coniferous and bare ground |
| Track: Shallow depression, light coniferous and bare ground                         |
| Runout Zone: Broad open to convex slope, grass and bare ground                      |
| HISTORY:  |

| PATH NAME ('s):                                 | Swansea Gulch, Lakaw                | vanna Slide         |                    |  |  |  |  |  |
|---|-------------------------------------|---------------------|--------------------|--|--|--|--|--|
| Path Reference Number: 153010 Zone: III Area: 2 |                                     |                     |                    |  |  |  |  |  |
| Map Number: 4                                   | Photograph Num                      | ber: 40,41          |                    |  |  |  |  |  |
| SPECIFICATIONS:                                 |                                     |                     |                    |  |  |  |  |  |
| Top Elev.: 1320                                 | 00' Bottom Elev.: 9                 | 300' Vertical Fa    | all: 3900'         |  |  |  |  |  |
| Length of Path:                                 | 11670' Number of S                  | tarting Zones: Mul  | ltiple             |  |  |  |  |  |
| St  | arting Zone                         | <u>Track</u>        | Runout Zone        |  |  |  |  |  |
| Slope Angle                                     | 45°                                 | 22°                 | 18°                |  |  |  |  |  |
| Area Acres                                      | 159 Mean Widt                       | h 500' Area Ac      | res_29             |  |  |  |  |  |
|   | Length                              | 4524'               |                    |  |  |  |  |  |
| Tree Line                                       | A                                   | B                   | В                  |  |  |  |  |  |
| TERRAIN AND VEGE                                | ETATION COVER:                      |                     |                    |  |  |  |  |  |
| Starting Zone: B talus and bould                | road cirque basin surn<br>er fields | counded by cliffs w | ith rock glaciers, |  |  |  |  |  |

Track: V-shaped depression, talus, rock outcrops; lower track: very light coniferous

Runout Zone: Broad open slope, talus, moderate coniferous and grass with aspen and willows below

HISTORY: I. "has run to valley floor twice since 1900, crossed the Animas River once" (L. Dalla)
1932, observed to have run

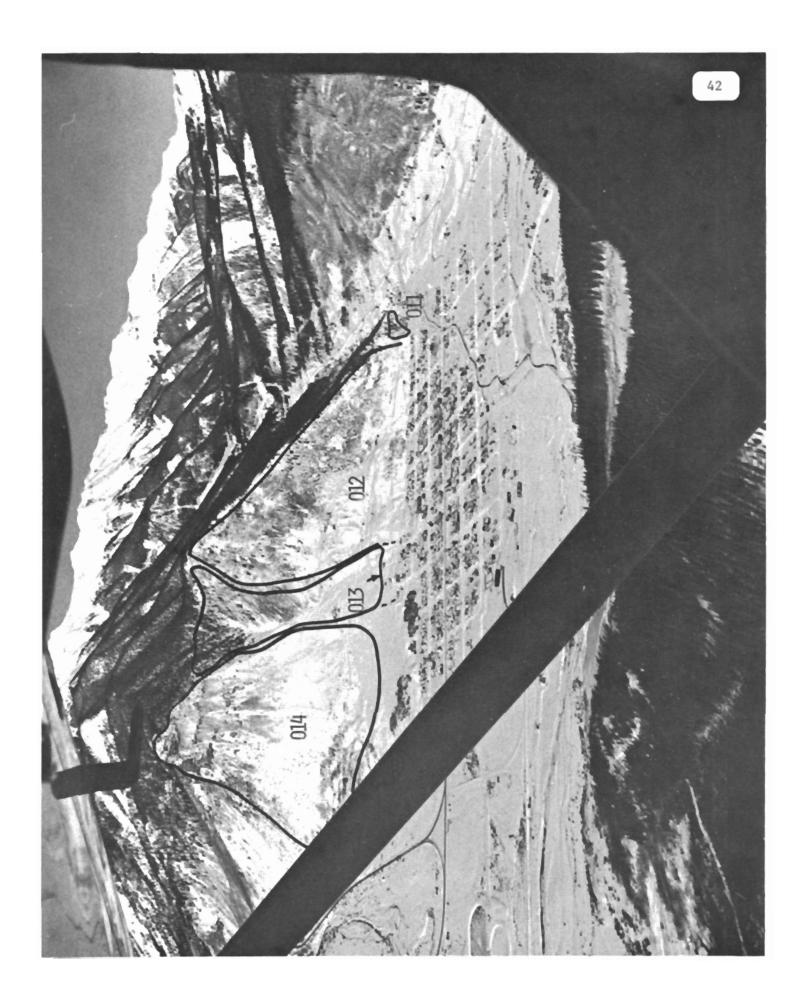


| PATH NAME ('s): Bertramsville  | e           |               |               |                        |
|--|-------------|---------------|---------------|------------------------|
| Path Reference Number: 1530  | 11 Zo       | one:I         | II Ar         | ea: <u>1</u>           |
| Map Number: 1,4 Photog   | graph Numbe | er: <u>42</u> |               |                        |
| SPECIFICATIONS: Top Elev.: 9600' Bottom F  | Elev.:94    | 400' Vo       | rtical F      | al1: <u>200'</u>       |
| Length of Path: 169 Num  | nber of Sta | arting Zo     | nes: <u>1</u> |                        |
| Starting Zone           Slope Angle         34°           Area Acres         .25 | Mean Width  | Track 400'    | Area Ac       | Runout Zone  0 res .25 |
| •  | Length      |               |               |                        |
| Tree Line B  |             | В             |               | B                      |
| TERRAIN AND VEGETATION COVER:  | :           |               |               |                        |
| Starting Zone: Open slope, g   | rass and ta | alus.         |               |                        |
| Track: broad open slope with   | grass.      |               |               |                        |
| Runout Zone: Flat open grou  | nd with gra | ass.          |               |                        |
| HISTORY: II. January, 1952<br>to run before                                      |             | heds, had     | never b       | een observed           |
| <pre>III. events: 1</pre>  |             |               |               |                        |

| PATH NAME ('s): Pabst  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Path Reference Number: 153012 Zone: III Area: 1  |  |  |  |  |  |  |
| Map Number: 1,4 Photograph Number: 42  |  |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |  |
| Top Elev.: 10100' Bottom Elev.: 9300' Vertical Fall: 800'  |  |  |  |  |  |  |
| Length of Path: 3105' Number of Starting Zones: Multiple   |  |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |  |
| Slope Angle 36° 37° 17°  |  |  |  |  |  |  |
| Area Acres 8 Mean Width 1800' Area Acres 46  |  |  |  |  |  |  |
| Length 1000'   |  |  |  |  |  |  |
| Tree Line <u>B</u> <u>B</u> B  |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |  |
| Starting Zone: Open slope with shallow depression, small rock outcrops very light coniferous and aspen and grass |  |  |  |  |  |  |
| Track: Open slope with broad shallow depression, rock outcrops, talus, grass, light coniferous and aspen         |  |  |  |  |  |  |
| Runout Zone: Broad open slope, small grassy hummocks, light boulders   |  |  |  |  |  |  |
| HISTORY:   |  |  |  |  |  |  |

| PATH NAME ('s): Shrine   |  |  |  |  |  |
|--|--|--|--|--|--|
| Path Reference Number: 153013 Zone: III Area: 1                                    |  |  |  |  |  |
| Map Number: 1,4 Photograph Number: 42  |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |
| Top Elev.: 10800' Bottom Elev.: 9300' Vertical Fall: 1500'                         |  |  |  |  |  |
| Length of Path: 3808' Number of Starting Zones: 2                                  |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |
| Slope Angle $39^{\circ}$ $37^{\circ}$ $17^{\circ}$                                 |  |  |  |  |  |
| Area Acres 6 Mean Width 300' Area Acres 31   |  |  |  |  |  |
| Length <u>1000'</u>  |  |  |  |  |  |
| Tree Line B B  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |
| Starting Zone: Broad v-shaped depression, grass, talus, light aspen and coniferous |  |  |  |  |  |
| Track: V-shaped, talus, grass and bare ground                                      |  |  |  |  |  |
| Runout Zone: Broad open slope, small grassy hummocks, light boulders               |  |  |  |  |  |
| HISTORY:   |  |  |  |  |  |

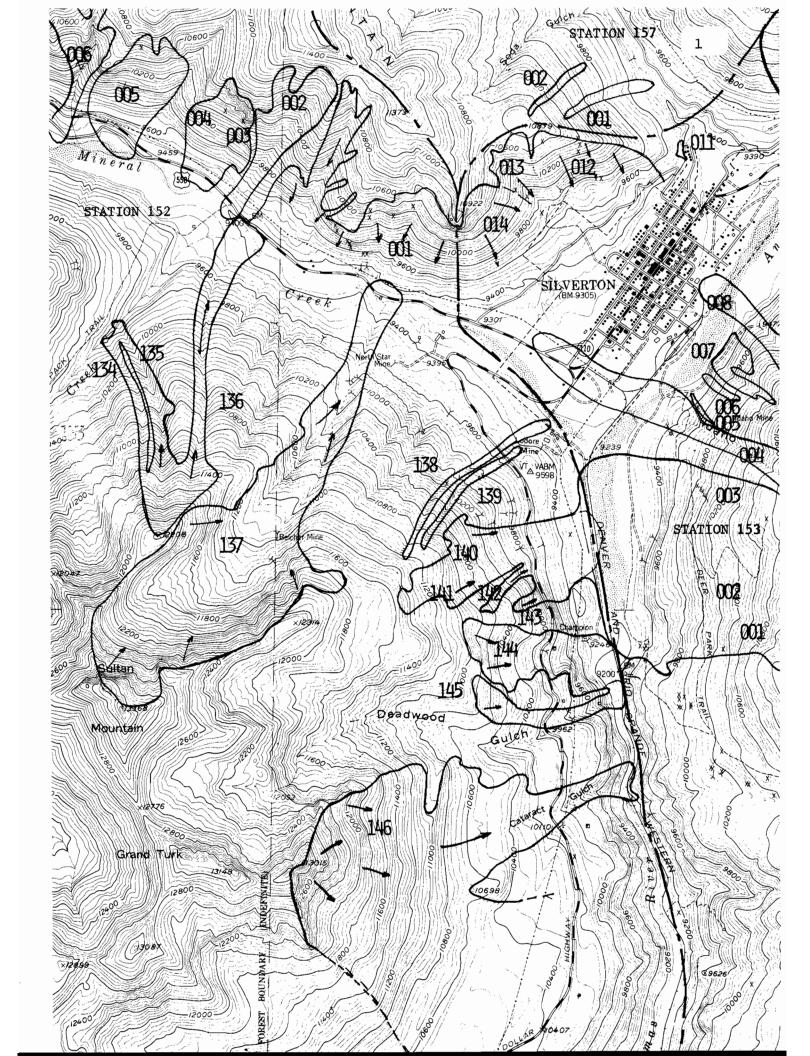
| PATH NAME ('s): Blue Ribbon   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Path Reference Number: 153014 Zonc: III Area: 1   |  |  |  |  |  |  |
| Map Number: 1,4 Photograph Number: 42   |  |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |  |
| Top Elev.: 10800' Bottom Elev.: 9300' Vertical Fall: 1500'  |  |  |  |  |  |  |
| Length of Path: 3534' Number of Starting Zones: multiple  |  |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |  |
| Slope Angle 42° 37° 22°   |  |  |  |  |  |  |
| Area Acres 9 Mean Width 2000' Area Acres 40   |  |  |  |  |  |  |
| Length 1000'  |  |  |  |  |  |  |
| Tree Line B B B   |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |  |
| Starting Zone: Broad convex slope, bands of rugged rock outcrops interspersed with shallow gullies, moderate to heavy aspen and bare ground |  |  |  |  |  |  |
| Track: Broad convex slope, grass, talus, moderate aspen and bare ground   |  |  |  |  |  |  |
| Runout Zone: Broad convex slope, grassy hummocks, light aspen and light boulders  |  |  |  |  |  |  |
| HISTORY:  |  |  |  |  |  |  |

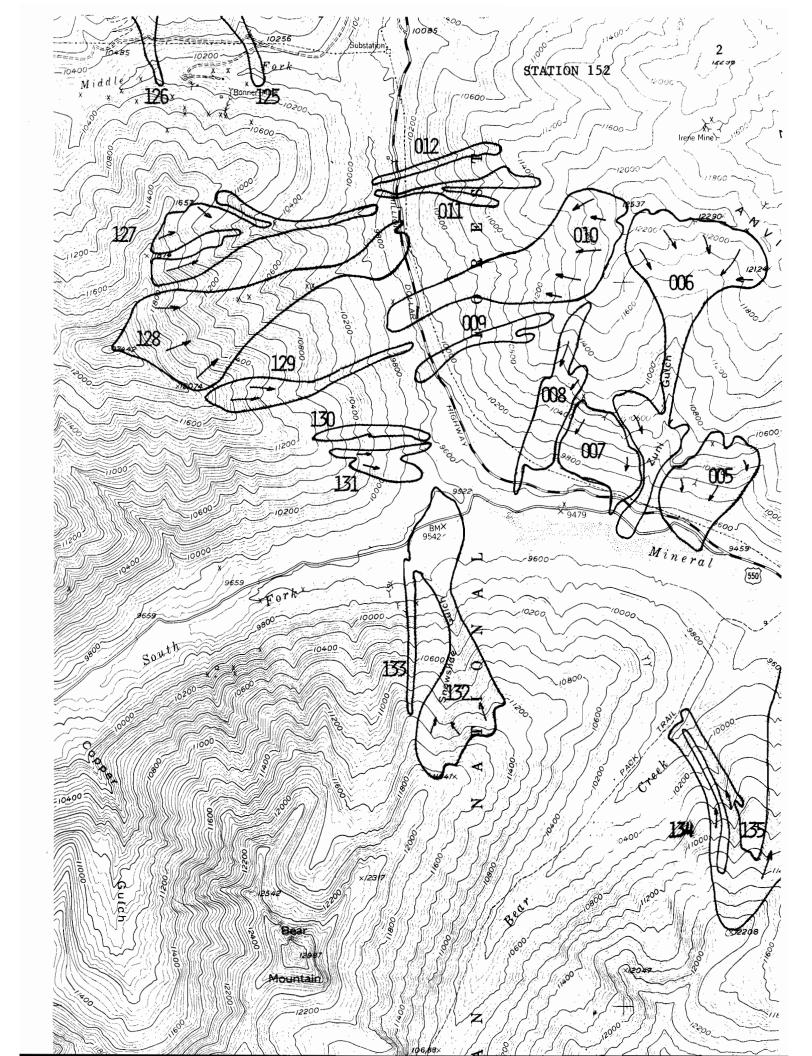


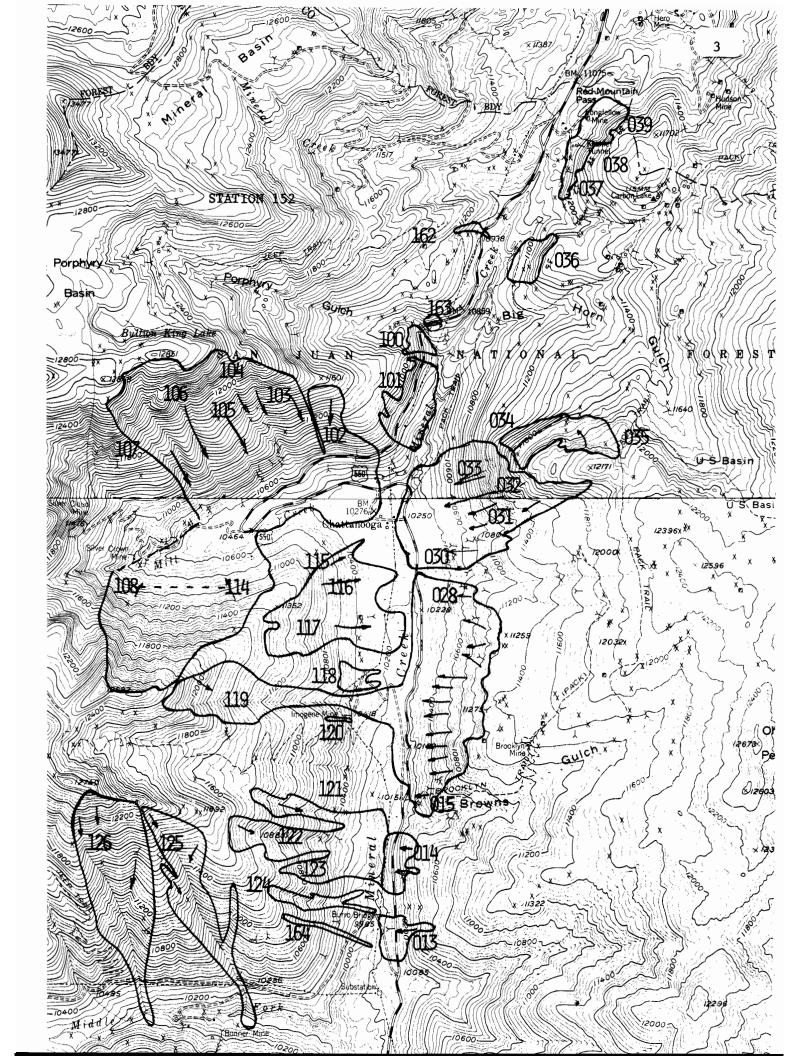
#### SECTION II

Silverton to Red Mountain Pass east side of U.S. Highway 550

Avalanche paths: 152001 - 152039



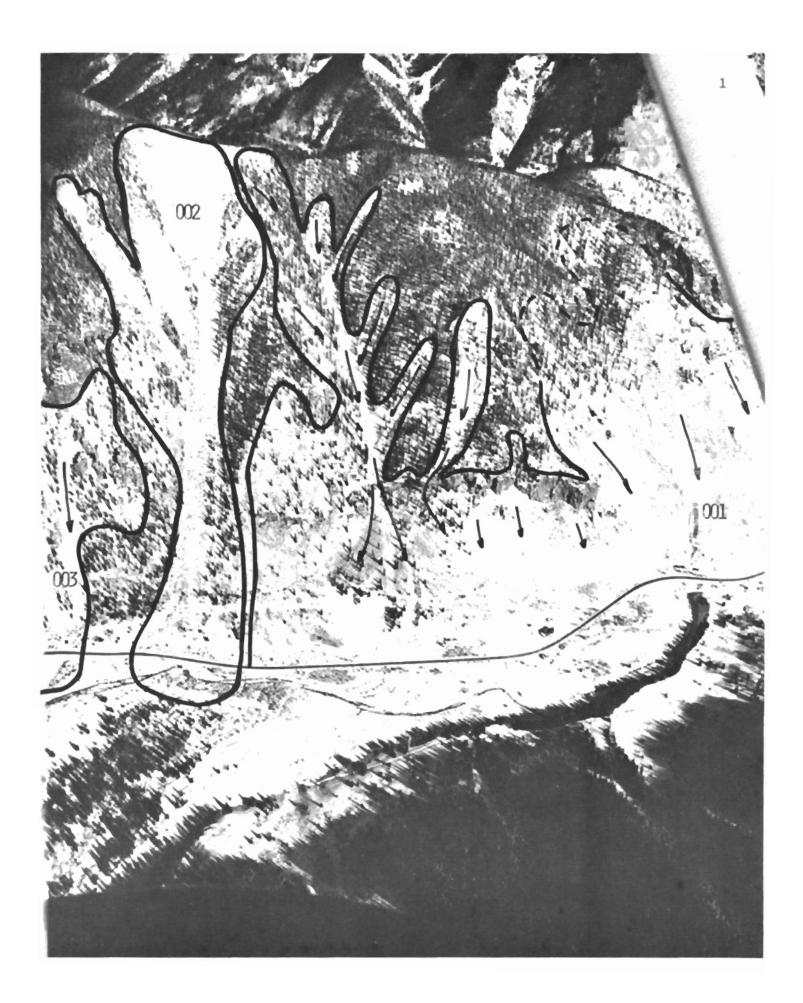




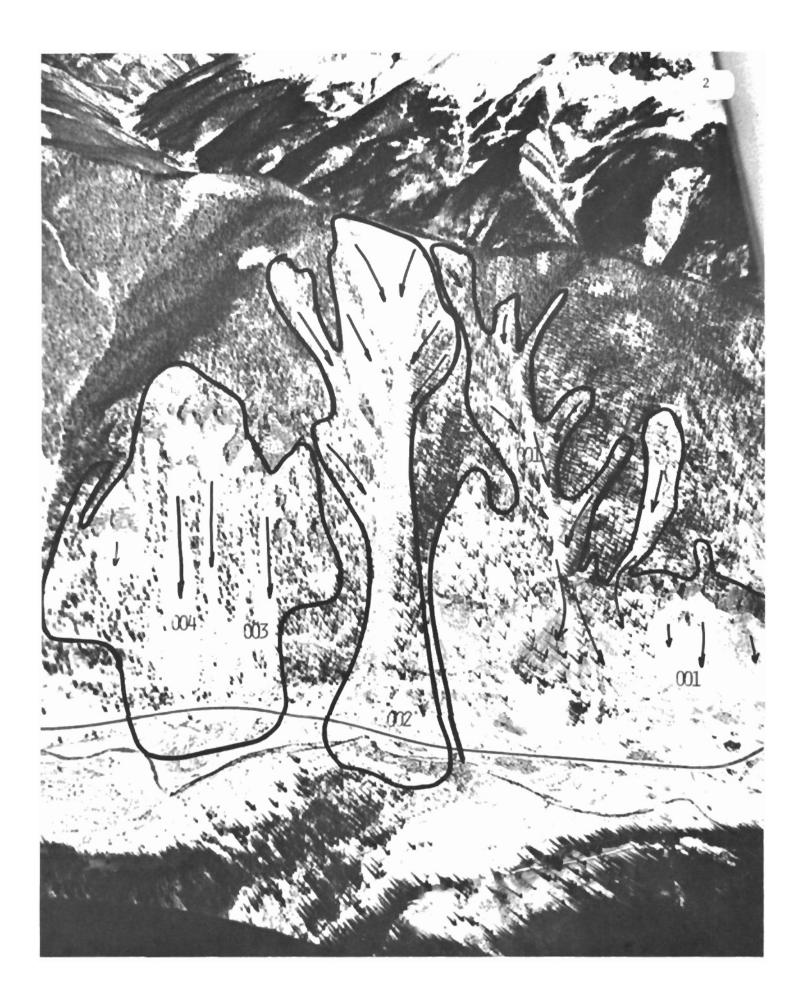
| PATH NAME ('s):  | Anvil                                   |            |         |             |          |  |  |
|--|---|------------|---------|-------------|----------|--|--|
| Path Reference N   | Number: 1520                            | 01 Zo      | one:IV  | Area:       | 15       |  |  |
| Map Number: 1 Photograph Number: 1,2                                       |   |            |         |             |          |  |  |
| SPECIFICATIONS:  |   |            |         |             |          |  |  |
| Top Elev.: 1080  | Bottom                                  | Elev.: 936 | 0' Vert | ical Fall:  | 1440'    |  |  |
| Length of Path: 2799' Number of Starting Zones: 4                          |   |            |         |             |          |  |  |
| St   | arting Zone                             |            | Track   | Run         | out Zone |  |  |
| Slope Angle  |   |            |         |             | 10-25°   |  |  |
| Area Acres   | 35                                      | Mean Width | 2000    | Area Acres_ | 36       |  |  |
|  |   | Length     | 1432'   |             |          |  |  |
| Tree Line  | B                                       |            | В       | _           | В        |  |  |
| TERRAIN AND VEGI   | ETATION COVE                            | ₹:         |         |             |          |  |  |
| Starting Zone: Open slope, scree and some large rock outcrops, light aspen |   |            |         |             |          |  |  |
| Track: Open slope, scree and grass   |   |            |         |             |          |  |  |
| Runout Zone: Open slope, medium vegetation, aspen                          |   |            |         |             |          |  |  |
|  | events: 11<br>highway: 0<br>full-track: | 4          |         |             |          |  |  |

| PATH NAME ('s):   | Water Gauge                               |                        |           |  |  |  |
|---|---|------------------------|-----------|--|--|--|
| Path Reference N  | umber: 152002 Zon                         | ne: <u>IV</u> Area:    | 15        |  |  |  |
| Map Number: 1 Photograph Number: 1,2  |   |                        |           |  |  |  |
| SPECIFICATIONS:   |   |                        |           |  |  |  |
| Top Elev.: 11400  | 0' Bottom Elev.: 9400                     | Vertical Fall          | : 2000'   |  |  |  |
| Length of Path:   | 4206' Number of Star                      | rting Zones: 2         |           |  |  |  |
| St  | arting Zone                               | <u>Track</u> <u>Ru</u> | nout Zone |  |  |  |
| Slope Angle   | 34°                                       | 31°                    | 17°       |  |  |  |
| Area Acres  | 25 Mean Width                             | 600 Area Acres         | 16        |  |  |  |
|   | Length                                    | 1972'                  |           |  |  |  |
| Tree Line   | В   | В                      | B         |  |  |  |
| TERRAIN AND VEGETATION COVER:   |   |                        |           |  |  |  |
| Starting Zone: Multiple starting zones: broad open slope, scree and small rock outcrops; moderate to heavy coniferous trees in northern portion |   |                        |           |  |  |  |
| Track: Gully changing to open slope, scree, small light to moderate aspen and coniferous  |   |                        |           |  |  |  |
|   |   |                        |           |  |  |  |
| Runout Zone: Open slope, moderate to heavy aspen and coniferous and heavy willows   |   |                        |           |  |  |  |
|   |   |                        |           |  |  |  |
| HISTORY: II. c  | crossed highway: 2                        |                        |           |  |  |  |
| ħ   | events: 10<br>nighway: 0<br>full-track: 1 |                        |           |  |  |  |

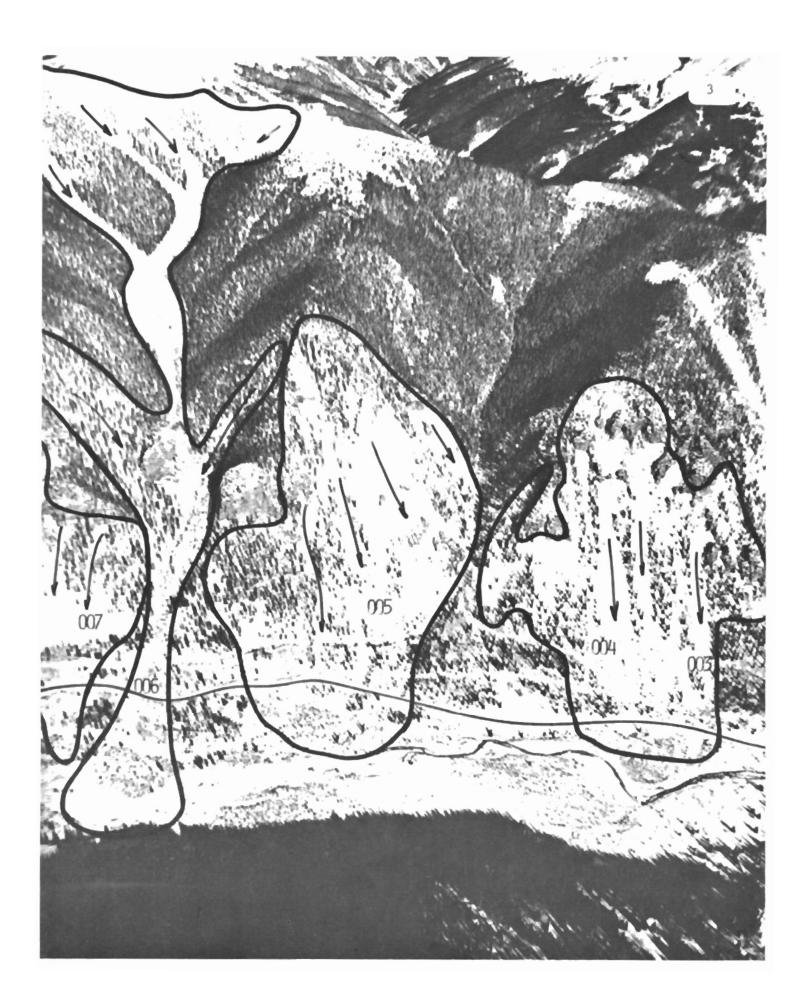
| PATH NAME ('s): | Old South Mineral Road                  |                     |                   |
|-----------------|---|---------------------|-------------------|
| Path Reference  | Number: 152003 Zo                       | ne: <u>IV</u> Area: | 15                |
| Map Number: 1   | Photograph Numbe                        | r: <u>1,2,3</u>     |                   |
|                 |   |                     |                   |
| SPECIFICATIONS: | :<br>00' Bottom Elev.: <u>944</u> 0     | )' Vertical Fall    | : 1160'           |
|                 |   |                     |                   |
|                 | Number of Sta                           |                     |                   |
| <u>S</u>        | Starting Zone                           |                     | nout Zone         |
| Slope Angle     | <u>41°</u>                              | <u>63°</u>          | 15°               |
| Area Acres      | 11 Mean Width                           | 500' Area Acres     | 8.5               |
|                 | Length                                  | 1118'               |                   |
| Tree Line       | В                                       | B                   | B                 |
| TERRAIN AND VEG | GETATION COVER:                         |                     |                   |
| Starting Zone:  | Cliff, large rock outcro                | p, talus            |                   |
|                 |   |                     |                   |
| Track: Open slo | ope, scree, light conifer               | ous                 |                   |
|                 | , |                     |                   |
|                 |   |                     |                   |
| Runout Zone: On | pen slope, scree, light c               | oniferous and asper | and heavy willows |
|                 |   |                     |                   |
|                 |   |                     |                   |
| HISTORY: II.    | crossed highway: 1                      |                     |                   |
|                 | events: 13                              |                     |                   |
|                 | highway: 0<br>full-track: 2             |                     |                   |
|                 |   |                     |                   |



| PATH NAME ('s):                                     | Pit                                       |              |          |        |         |             |  |
|---|---|--------------|----------|--------|---------|-------------|--|
| Path Reference N                                    | lumber: <u>1520</u>                       | 04 Zo        | ne:I     | V      | Area:   | 15          |  |
| Map Number: 1                                       | Map Number: 1 Photograph Number: 2,3      |              |          |        |         |             |  |
| SPECIFICATIONS:                                     |   |              |          |        |         |             |  |
| Top Elev.: 1080                                     | O' Bottom                                 | Elev.: 9440  | Ve       | rtical | Fall:   | 1360'       |  |
| Length of Path:                                     | 2672 Nt                                   | umber of Sta | rting Zo | nes: _ | 1       | <del></del> |  |
| St  | arting Zone                               |              | Track    |        | Run     | out Zone    |  |
| Slope Angle   | 40°                                       |              | 50°      |        | 1       | 5°          |  |
| Area Acres  |   | Mean Width   |          | Area   | Acres_  | 6           |  |
|   |   | Length       | 1562'    |        |         |             |  |
| Tree Line   | В   |              | В        |        | _       | В           |  |
| TERRAIN AND VEGE                                    | TATION COVE                               | R:           |          |        |         |             |  |
| Starting Zone: (                                    | Cliff, large                              | rock outcro  | p, talus |        |         |             |  |
| Track: Narrow, incised gully, bare ground and scree |   |              |          |        |         |             |  |
| Runout Zone: Br                                     | oad open slc:                             | ope, light c | oniferou | s and  | heavy v | villows     |  |
| HISTORY: II. c                                      | crossed highw                             | way: 11      |          |        |         |             |  |
| ŀ   | events: 11<br>nighway: 0<br>Full-track: 3 | 3            |          |        |         |             |  |



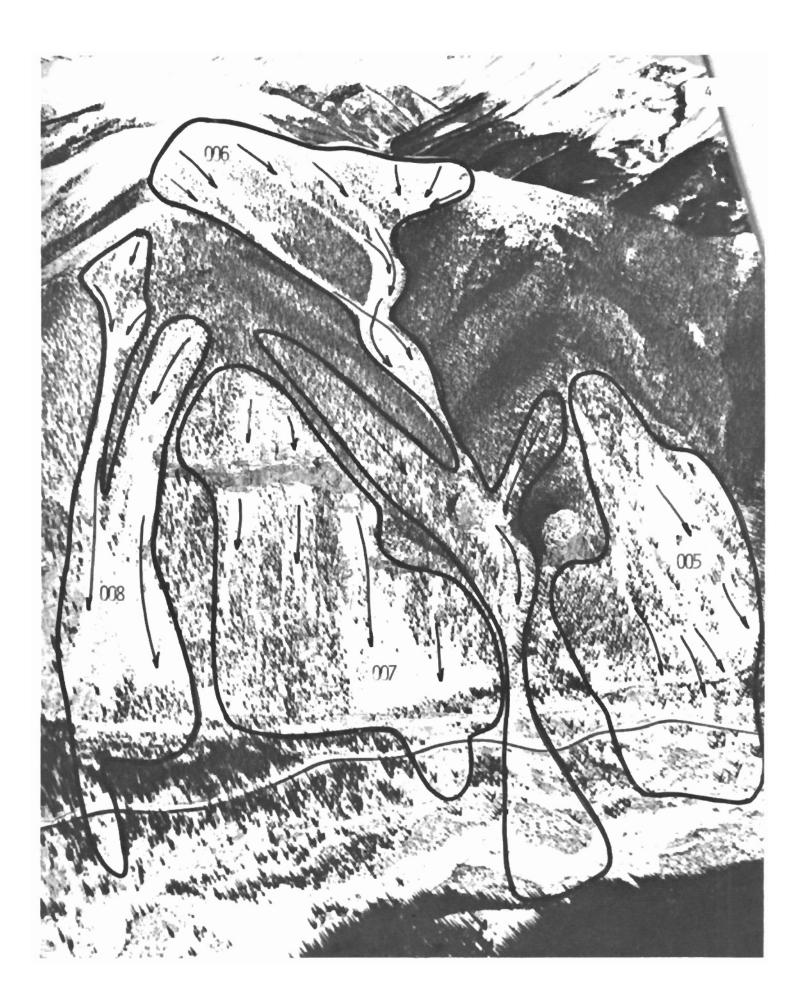
| PATH NAME ('s): Thirty  |
|---|
| Path Reference Number: 152005 Zone: IV Area: 15   |
| Map Number: 1,2 Photograph Number: 3,4  |
| SPECIFICATIONS:  Top Elev.: 10600' Bottom Elev.: 9480' Vertical Fall: 1120'   |
| Length of Path: 1953' Number of Starting Zones: 3   |
| Starting Zone Track Runout Zone   |
| Slope Angle 34° 40° 15°   |
| Area Acres 28 Mean Width 2000' Area Acres 37  |
| Length 781'   |
| Tree Line B B   |
| TERRAIN AND VEGETATION COVER: Starting Zone: Broad, v-shaped depression, cliffs, rock outcrops, talus and moderate coniferous |
| Track: Broad, v-shaped depression, talus, heavy aspen and light coniferous  |
| Runout Zone: Broad open slope, moderate aspen and coniferous  |
| HISTORY: III. events: 4 highway: 0 full-track: 0  |



| PATH NAME ('s):  | Zuni                                     |            |             |             |               |
|--|--|------------|-------------|-------------|---------------|
| Path Reference   | Number: 152 <b>00</b> 6                  | Zon        | ne:IV       | Area:       | 15            |
| Map Number:1   | Photogra                                 | ıph Number | :3,4        | _           |               |
| SPECIFICATIONS:  |  |            |             |             |               |
| Top Elev.: 1240  | 00' Bottom Ele                           | ev.: 9480  | Verti       | ical Fall:  | 2920 <b>'</b> |
| Length of Path:  | 7585' Numbe                              | er of Star | ting Zones  | s: <u>6</u> | _             |
| <u>St</u>  | arting Zone                              |            | Track       | Run         | out Zone      |
| Slope Angle  | 34°                                      |            | 22°         | _           | 12°           |
| Area Acres   | Mea                                      | ın Width   | 300' A1     | rea Acres_  | 11            |
|  |  | Length     | 5385'       |             |               |
| Tree Line  | A  |            | В           |             | В             |
| TERRAIN AND VEGI   | ETATION COVER:                           |            |             |             |               |
| Starting Zone:<br>small rock outc  | Broad shallow de<br>rops, grass and      |            |             |             | ridge line, f |
| Track: V-shaped depression, large rock outcrops, moderate aspen and coniferous |  |            |             |             |               |
| Runout Zone: Broad open slope, moderate to heavy aspen and coniferous          |  |            |             |             |               |
| HISTORY: I. V  | vinter, 1932, cr                         | ossed hig  | hway        |             |               |
| II.  | January, 1952, o<br>(Silverton Stand     |            | ighway 8-10 | O' deep, 2  | 00' length    |
| ·  | events: 2<br>highway: 0<br>full-track: 1 |            |             |             |               |

|                                    | 4                                |                     |               |               |              |
|------------------------------------|----------------------------------|---------------------|---------------|---------------|--------------|
| PATH NAME ('s):                    | Hopi                             |                     |               |               |              |
| Path Reference                     | Number: <u>1520</u>              | 07 Zo               | ne:IV         | Area:         | 15           |
| Map Number: 2                      | Phot                             | ograph Numbe        | r: <u>3,4</u> | ·             |              |
| SPECIFICATIONS:                    |                                  |                     |               |               |              |
| Top Elev.: 1040                    | 00' Bottom                       | Elev.: 9560         | Ve            | rtical Fall:  | 840'         |
| Length of Path:                    | 2169' N                          | umber of Sta        | rting Zo      | nes:          | _            |
| <u>s</u>                           | tarting Zone                     |                     | Track         | Run           | out Zone     |
| Slope Angle                        | 31°                              |                     | _37°          | _             | 22°          |
| Area Acres                         | 9                                | Mean Width          | 8001          | Area Acres_   | 12           |
|                                    |                                  | Length              | 5001          |               |              |
| Tree Line                          | В                                |                     | В             |               | В            |
| TERRAIN AND VEG                    | ETATION COVE                     | R:                  |               |               |              |
| Starting Zone:<br>with cliffs belo | Open slope,<br>ow                | large rock o        | outcrops      | , talus, ligh | nt coniferou |
| Track: Open slo                    | ope, rock out<br>rous and aspe   | ccrops, large<br>en | e boulder     | rs, talus, li | ight to      |
| Runout Zone: Braspen and willow    |                                  | ope, light co       | oniferous     | s, moderate t | co heavy     |
| HISTORY: III.                      | events: 6 highway: 0 full-track: | 2                   |               |               |              |

| PATH NAME ('s):              | Camp                               |            |                |                 |          |
|------------------------------|------------------------------------|------------|----------------|-----------------|----------|
| Path Reference               | Number: <u>152008</u>              | Zo         | ne: <u>IV</u>  | Area: <u>15</u> | _        |
| Map Number: 2                | Photogr                            | aph Numbe  | r: <u>4,5</u>  |                 |          |
| SPECIFICATIONS:              |                                    |            |                |                 |          |
| Top Elev.: 118               | 00' Bottom El                      | lev.: 9450 | )' Vertica     | 1 Fall: 2200'   |          |
| Length of Path:              | 5189' Numb                         | er of Sta  | rting Zones:   | 3               |          |
| <u>s</u>                     | Starting Zone                      |            | Track          | Runout Zon      | <u>e</u> |
| Slope Angle                  | 34 <sup>o</sup>                    |            | 30°            | _15°            |          |
| Area Acres                   | Mo                                 | an Width   | 500' Area      | Acres_40        |          |
|                              |                                    | Length     | 2778'          |                 |          |
| Tree Line                    | B                                  |            | В              | B               |          |
| TERRAIN AND VEG              | ETATION COVER:                     |            |                |                 |          |
| Starting Zone:<br>coniferous | Three broad de                     | pressions  | , rock outero  | os, talus and 1 | ight     |
| Track: North: South:         | shallow depres                     |            |                |                 |          |
| Runout Zone: 0               | pen slope, mode                    | rate to he | eavy coniferou | is, aspen and g | rass     |
| HISTORY: III.                | events: 6 highway: 0 full-track: 2 |            |                |                 |          |



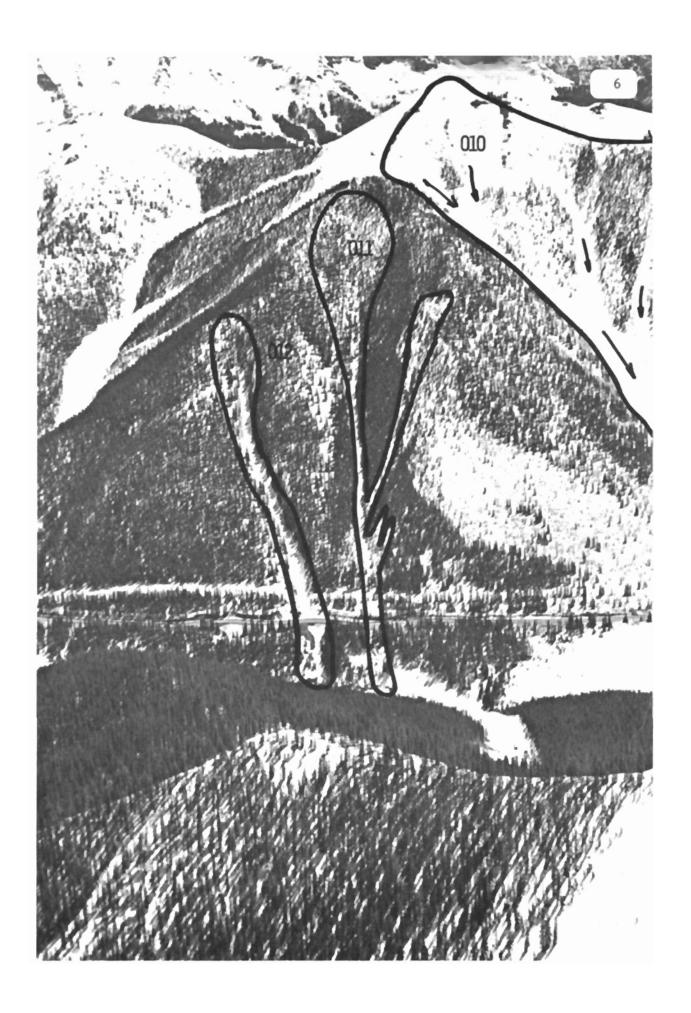
| PATH NAME ('s):                  | Lower Cement                           | Fill          |               |             |           |       |
|----------------------------------|--|---------------|---------------|-------------|-----------|-------|
| Path Reference N                 | umber: 152                             | 009 Zoi       | ne: <u>IV</u> | Area:       | 14        |       |
| Map Number: 2                    | Photo                                  | ograph Number | r: _5         | _           |           |       |
| SPECIFICATIONS: Top Elev.: 11400 | )' Bottom                              | Elev.: 960    | 0' Vert       | cical Fall: | 1800'     |       |
| Length of Path:                  | 3672' Nu                               | mber of Star  | rting Zone    | es:2        | _         |       |
| St                               | arting Zone                            |               | Track         | Runo        | out Zone  |       |
| Slope Angle                      | 34°                                    |               | 34°           |             | 25°       |       |
| Area Acres                       | 10                                     | Mean Width    | 300'          | Area Acres_ | 13        |       |
|                                  |  | Length        | 1803'         |             |           |       |
| Tree Line                        | В                                      |               | В             |             | В         |       |
| TERRAIN AND VEGE                 | TATION COVER                           | R:            |               |             |           |       |
| Starting Zone:                   | Open slope,                            | moderate com  | niferous      |             |           |       |
| Track: Broad gu                  | ılly, moderat                          | te coniferous | s and aspe    | en          |           |       |
| Runout Zone: Op                  | en slope, mo                           | oderate to he | eavy conif    | erous and a | aspen and | grass |
| HISTORY: II. c                   | crossed highw                          | vay: 2        |               |             |           |       |
| h                                | events: 6<br>lighway: 0<br>full-track: | 0             |               |             |           |       |

| PATH NAME ('s): | Cement Fill  |                     |                  |
|-----------------|--|---------------------|------------------|
| Path Reference  | Number: 152010 Zo:   | ne: Area:           | 14               |
| Map Number: 2   | Photograph Number  | r: 5,6,7            |                  |
| SPECIFICATIONS: |  |                     |                  |
| Top Elev.: 1240 | O' Bottom Elev.: 964   | O' Vertical Fall    | : 2760'          |
| Length of Path: | 6333' Number of Sta  | rting Zones:5       | an value out     |
| <u>S</u>        | tarting Zone   | Track Ru            | nout Zone        |
| Slope Angle     | 24°  | _28°                | 21°              |
| Area Acres      | 92 Mean Width  | 400' Area Acres     | 30               |
|                 | Length   | 2370'               |                  |
| Tree Line       | A  | B                   | В                |
| TERRAIN AND VEG | ETATION COVER:   |                     |                  |
| Upper portion:  | Broad open slope contain<br>talus, small rock outer<br>moderate coniferous and | ops                 | d v-shaped basin |
| Track: Broad op | en slope, small conifero   | ous and grass       |                  |
|                 |  |                     |                  |
| Runout Zone: na | rrowing gully, small con   | iferous, bare groun | d, light willows |
| HISTORY: II.    | crossed highway: 17  |                     |                  |
| III.            | events: 12<br>highway: 3<br>full-track: 4                                      |                     |                  |



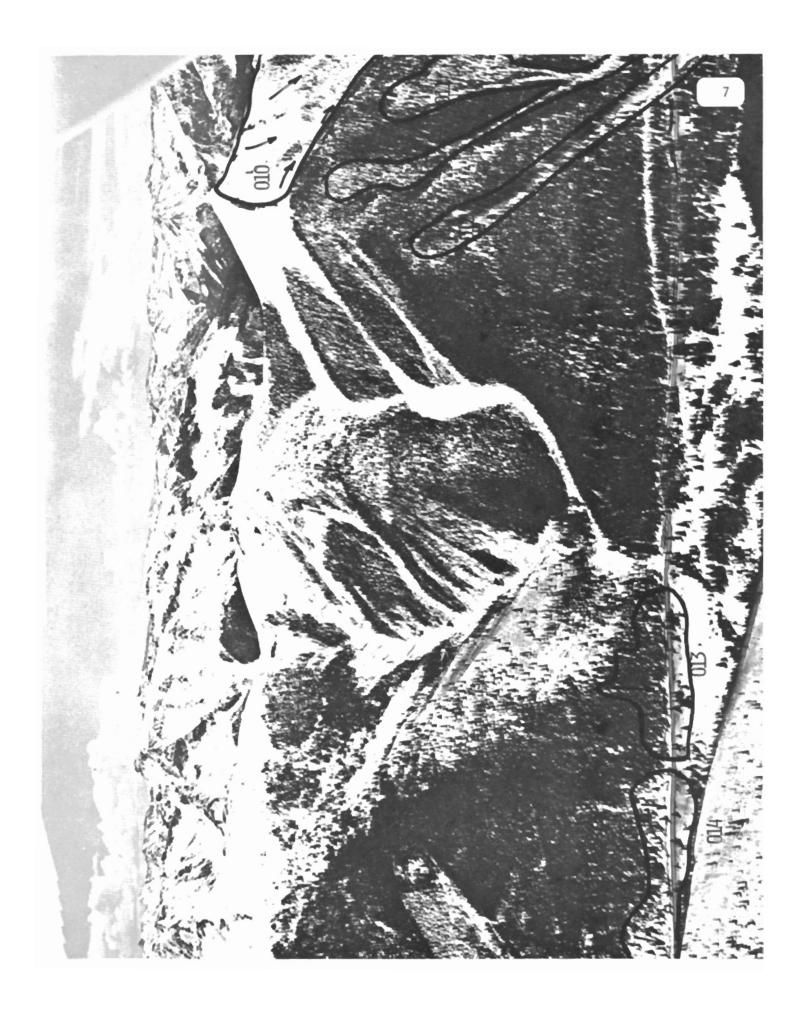
| PATH NAME ('s): Bar    | ton South        |          |           |            |             |
|------------------------|------------------|----------|-----------|------------|-------------|
| Path Reference Number  | r: 152011        | Zor      | ne:IV     | Are        | a:          |
| Map Number: 2          | Photograp        | h Number | c: _5,6,7 | 7          |             |
| SPECIFICATIONS:        |                  |          |           |            |             |
| Top Elev.: 11600'      | Bottom Elev      | .: 10000 | Ver       | rtical Fa  | 11: 1600'   |
| Length of Path: 357    | 8' Number        | of Star  | ting Zor  | nes:       | 2           |
| Starti                 | ng Zone          |          | Track     | ]          | Runout Zone |
| Slope Angle 2          | 7°               |          | 25°       |            | 8°          |
| Area Acres 8           | Mean             | Width    | 100'      | Area Acr   | es_1.6      |
|                        | $\mathbf{L}_{0}$ | ength    | 2102'     |            |             |
| Tree Line B            |                  |          | В         |            | В           |
| TERRAIN AND VEGETATION | ON COVER:        |          |           |            |             |
| Starting Zone: Two     |                  | ped gull | lies, mod | lerate com | niferous    |
|                        |                  |          |           |            |             |
| Track: Narrow v-sha    | ped gully, 1     | ight wil | lows      |            |             |
|                        | , , , , , ,      | -0       |           |            |             |
|                        |                  |          |           |            |             |
| Runout Zone: bed of 1  | Mineral Cree     | k, bare  | ground    |            |             |
|                        |                  |          |           |            |             |
| HISTORY: III. even     | te. 1            |          |           |            |             |
|                        | way: 0           |          |           |            |             |

| PATH NAME ('s):                | Barton North   |                    |                      |
|--------------------------------|--|--------------------|----------------------|
| Path Reference N               | Number: 152012                                       | Zone:IV            | Area: <u>14</u>      |
| Map Number: 2                  | Photograph Num                                       | ber:6,7            |                      |
| SPECIFICATIONS: Top Elev.: 112 | 00' Bottom Elev.: 98                                 | 300' Vertica       | 1 Fall: 1400'        |
| Length of Path:                | 2953' Number of S                                    | tarting Zones:     | 1                    |
| St                             | carting Zone   | Track              | Runout Zone          |
| Slope Angle                    | 34°  | 27 <sup>o</sup>    | 27°                  |
| Area Acres                     | Mean Widt  | h <u>100'</u> Area | Acres_1.5            |
|                                | Length   | 1565'              |                      |
| Tree Line                      | В  | B                  | В                    |
| TERRAIN AND VEGE               | ETATION COVER:                                       |                    |                      |
| Starting Zone:                 |  |                    |                      |
| Track: V-shape                 | d gully, small light a                               | aspen and conife   | rous, grass and bare |
| Runout Zone: Be                | d of Mineral Creek, gr                               | eass and bare gr   | ound                 |
| III.                           | crossed highway: 6 events: 2 highway: 0 full-track 0 |                    |                      |
|                                |  |                    |                      |

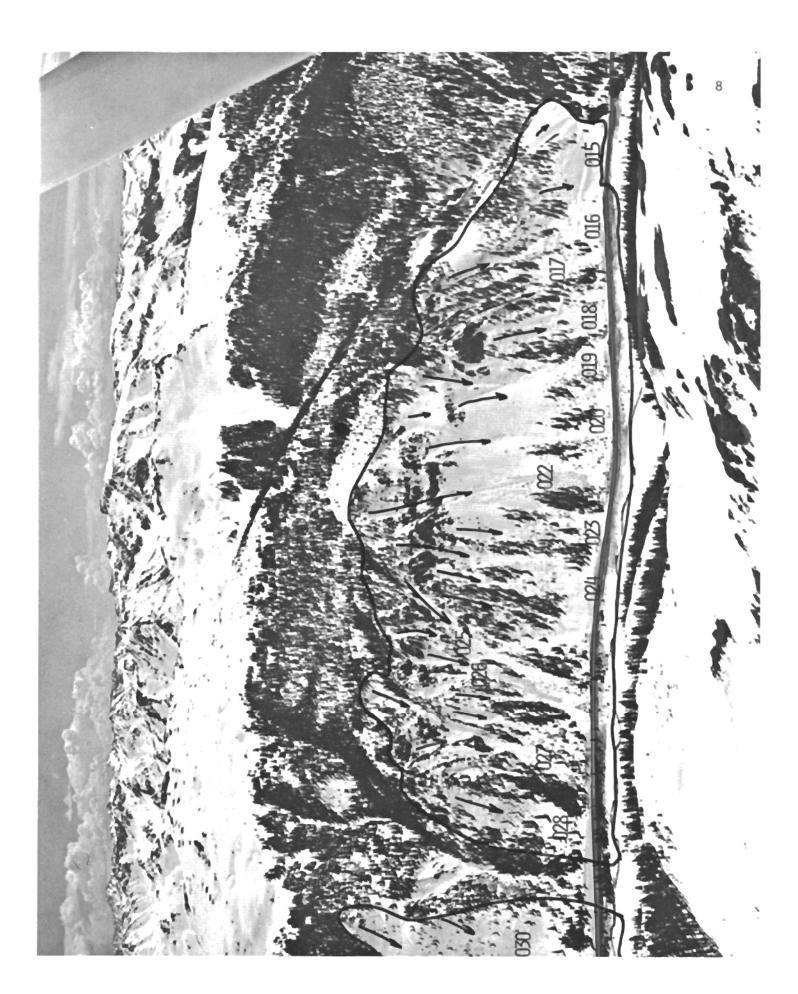


| PATH NAME ('s              | ): Blackb             | ourn                                  |                   |          |        |             |     |
|----------------------------|-----------------------|---------------------------------------|-------------------|----------|--------|-------------|-----|
| Path Referenc              | e Number:             | 152013 Zo                             | ne:I              | <u>V</u> | Area:  | 12          |     |
| Map Number: _              | 3                     | Photograph Numbe                      | r:                |          |        |             |     |
|                            |                       |                                       |                   |          |        |             |     |
| SPECIFICATION TOD Elev.: 1 |                       | ottom Elev.: 1000                     | 00' <sub>Ve</sub> | rtical   | Fall:  | 600'        |     |
|                            |                       | Number of Sta                         |                   |          |        |             |     |
| bengen of rac              | Starting              |                                       | Track             |          |        | nout Zone   |     |
| Slope Angle                |                       | Botte                                 | 34°               |          |        | 11°         |     |
|                            | 2                     | Mean Width                            |                   | A        | -      |             |     |
| Area Acres                 |                       |                                       |                   | Area A   | acres_ |             |     |
|                            | n                     | Length                                | В                 |          |        | В           |     |
| Tree Line                  | В                     |                                       |                   |          | _      | B           |     |
| TERRAIN AND V              | EGETATION             | COVER:                                |                   |          |        |             |     |
| Starting Zone              | : Open sl             | ope, heavy conife                     | rous              |          |        |             |     |
|                            |                       |                                       |                   |          |        |             |     |
| Track: Open s              | slope, hea            | vy coniferous                         |                   |          |        |             |     |
|                            |                       |                                       |                   |          |        |             |     |
|                            |                       |                                       |                   |          |        |             |     |
| Runout Zone:               | Open slo              | pe, light conifer                     | ous               |          |        |             |     |
|                            |                       |                                       |                   |          |        |             |     |
| HISTORY: I.                |                       | 930's, Bill Black<br>d off highway by |                   |          | ghway  | maintenance | cre |
| II.                        | crossed h             | ighway: 4                             |                   |          |        |             |     |
| III.                       |                       | 3                                     |                   |          |        |             |     |
|                            | highway:<br>full-trac |                                       |                   |          |        |             |     |

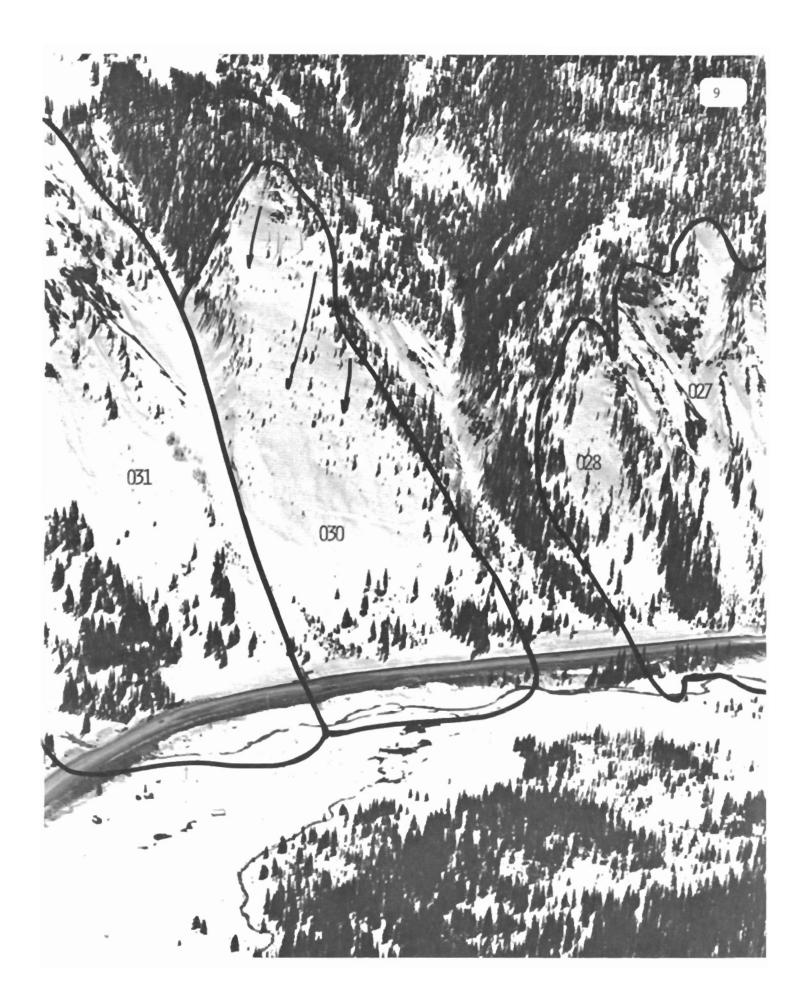
| PATH NAME ('s):                              | Benny Long                             |             |               |                    |         |
|--|--|-------------|---------------|--------------------|---------|
| Path Reference N                             | lumber: 15201                          | . Zo        | one:IV        | _ Area: _          | 12      |
| Map Number: 3                                | Photo                                  | graph Numbo | er:           |                    |         |
| SPECIFICATIONS: Top Elev.: 1060              | O' Bottom                              | Elev.:      | 000' Vertic   | cal Fall:          | 600'    |
| Length of Path:                              | 1342' Nu                               | mber of Sta | arting Zones: | 3                  | ,       |
| St   | arting Zone                            |             | Track         | Runo               | ut Zone |
| Slope Angle                                  | 31°                                    |             | 37°           |                    | 18°     |
| Area Acres                                   | 5                                      | Mean Width  | 1800' Are     | ea Acres <u>13</u> |         |
|  |  | Length      | 500'          |                    |         |
| Tree Line                                    | B                                      |             | В             |                    | B       |
| TERRAIN AND VEGE                             | TATIÓN COVER                           | :           |               |                    |         |
| Starting Zone: B                             | road open slo                          | pe, light   | to moderate o | coniferous         |         |
| Track: Broad open slope, light coniferous    |  |             |               |                    |         |
| Runout Zone: Broad open slope, heavy willows |  |             |               |                    |         |
| HISTORY: II.                                 | crossed highw                          | vay: 6      |               |                    |         |
| 1  | events: 2<br>highway: 2<br>full-track: | 2           |               |                    |         |



| PATH NAME ('s):              | Brooklyns                                 |                 |              |                                       |
|------------------------------|---|-----------------|--------------|---------------------------------------|
| Path Reference               | Number: 15201                             | 5-02 <b>8</b> Z | one:IV       | Area:11                               |
| Map Number: 3                | Phot                                      | ograph Numb     | er: <u>8</u> | -                                     |
| SPECIFICATIONS:              |   | 101             | 50'          | 1250'                                 |
| -                            |   |                 |              | ical Fall: 1250'                      |
| Length of Path:              | 2200 N                                    | umber of Sta    | arting Zones | : Multiple                            |
| <u>5</u>                     | Starting Zone                             |                 | Track        | Runout Zone                           |
| Slope Angle                  |   |                 | <del></del>  |                                       |
| Area Acres                   | .25                                       | Mean Width      | 300' A1      | cea Acres 2.5-9.5                     |
|                              |   | Length          | 500'         |                                       |
| Tree Line                    | В   |                 | В            | В                                     |
| TERRAIN AND VEG              | ETATION COVE                              | R:              |              |                                       |
| Starting Zone:<br>and talus. | Steep open s                              | slopes and g    | ullies with  | rock outcrops                         |
| Track: Open slo<br>talus.    | pes and shall                             | ow gullies      | with light   | coniferous and                        |
| Runout Zone: B               | road open mea                             | dow with li     | ght conifer  | ous, willows and                      |
| HISTORY: I.                  | February 193                              |                 |              | dug out alive<br>ghway, driver jumped |
| II.                          | crossed high                              | way: 106        |              |                                       |
| III.                         | events: 321<br>highway: 49<br>full-track: |                 |              |                                       |



| PATH NAME ('s):   | Cemetery                           |                 |                      |  |  |
|---|------------------------------------|-----------------|----------------------|--|--|
| Path Reference  | Number: <u>152030</u>              | Zone: <u>IV</u> | Area: <u>11</u>      |  |  |
| Map Number: 3   | Photograph Num                     | ber: _8,9,10    | <u>)</u>             |  |  |
| SPECIFICATIONS: Top Elev.: 1120                                     | 00' Bottom Elev.: 10               | 0200' Vert      | ical Fall:1000'      |  |  |
| Length of Path:   | 2417' Number of S                  | tarting Zone    | s:3                  |  |  |
| <u>s</u>  | tarting Zone                       | Track           | Runout Zone          |  |  |
| Slope Angle   |                                    | 34°             | 14°                  |  |  |
| Area Acres  | Mean Widt                          | h 900' A        | rea Acres_13         |  |  |
|   | Length                             | 721'            |                      |  |  |
| Tree Line   | B                                  | В               | В                    |  |  |
| TERRAIN AND VEG   | ETATION COVER:                     |                 |                      |  |  |
| Starting Zone: coniferous and                                       | Narrow open slope, roograss        | ek outerop an   | d small cliffs, ligh |  |  |
| Track: Broadening open slope, very light small coniferous and grass |                                    |                 |                      |  |  |
| Runout Zone: E  | Broad open slope. Uppe<br>willows  | er portion:     | moderate coniferous; |  |  |
| HISTORY: II.  | crossed highway: 6                 |                 |                      |  |  |
| III.  | events: 7 highway: 0 full-track: 3 |                 |                      |  |  |



| PATH NAME ('s):                                     | First Twin  | Crossing      |          |         |         |         |
|---|---|---------------|----------|---------|---------|---------|
| Path Reference N                                    | Number: 1520  | 031 Zo        | ne:      | IV      | Λrea: _ | 11      |
| Map Number: 3                                       | Photo   | ograph Numbe  | r:9,1    | .0      |         |         |
| SPECIFICATIONS: Top Elev.: 1210                     | 00' Bottom  | Elev.: 102    | 00' Vo   | ertical | Fall:   | 1900'   |
| Length of Fath:                                     | 2983' N   | umber of Sta  | rting Zo | ones: _ | 3       |         |
| St  | arting Zone   |               | Track    |         | Runos   | it Zone |
| Slope Angle   | 38°   |               | 28°      |         |         | 11°     |
| Area Acres  | 15  | Mean Width    | 800'     | Area    | Λcres_7 |         |
|   |   | Length        | 2945'    |         |         |         |
| Tree Line   | <u>A</u>  |               | В        |         | B       |         |
| TERRAIN AND VEGE                                    | ETATIÓN COVE  | R:            |          |         |         |         |
| Starting Zone:<br>coniferous and                    | Open slope w<br>grass                                   | rith slight d | lepressi | ons and | lcliffs | , light |
| Track: Broad open slope, light coniferous and grass |   |               |          |         |         |         |
| Runout Zone: B                                      | road open sl  | ope, willows  | 3        |         |         |         |
| III. (  | crossed high<br>events: 20<br>highway: 0<br>full-track: | way: 4        |          |         |         |         |

| PATH NAME ('s):                                  | Second Tw                  | in Crossin | g      |          |          |         |             |
|--|----------------------------|------------|--------|----------|----------|---------|-------------|
| Path Reference N                                 |                            |            |        | e:       | IV       | Area: _ | 11          |
| Map Number: 3                                    | Pho                        | otograph N | umber  | : 10     | <u>-</u> |         |             |
| SPECIFICATIONS: Top Elev.: 12000 Length of Path: |                            |            |        |          |          |         | 1800'       |
|  |                            |            |        |          | mes: _   |         | -<br>-<br>- |
| St   | carting Zor                | <u>ie</u>  |        | Track    |          | Kund    | out Zone    |
| Slope Angle                                      |                            |            |        | 32°      |          |         | 11°         |
| Area Acres                                       | 12                         | Mean Wi    | dth    | 200'     | Area     | Acres_1 | .2          |
|  |                            | Leng       | th     | 1533'    |          |         |             |
| Tree Line  | A                          |            |        | В        |          |         | В           |
| TERRAIN AND VEGI                                 | ETATION COV                | ER:        |        |          |          |         |             |
| Starting Zone: O                                 |                            | with sligh | nt dep | pression | ns and   | cliffs  | , light     |
| Track: Broad op                                  | en slope,                  | light con: | iferou | is and   | grass    |         |             |
| Runout Zone: B                                   | road open                  | slope, wil | llows  |          |          |         |             |
| HISTORY: III.                                    | events: highway: full-trac |            |        |          |          |         |             |

| PATH NAME ('s):                  | North Mineral                              | l Bridge    |              |             |                 |
|----------------------------------|--|-------------|--------------|-------------|-----------------|
| Path Reference                   | Number: <u>15203</u>                       | 3 Zo        | ne: I        | V Area      | :11             |
| Map Number: 3                    | Photog                                     | raph Numbe  | r: <u>10</u> |             |                 |
| SPECIFICATIONS:                  |  |             |              |             |                 |
| Top Elev.: 1200                  | 00' Bottom E                               | lev.: 103   | 300' Vei     | rtical Fall | l: <u>1700'</u> |
| Length of Path:                  | 3276' Num                                  | ber of Sta  | rting Zoi    | nes: 2      |                 |
| <u>S</u>                         | tarting Zone                               |             | Track        | Ru          | mout Zone       |
| Slope Angle                      | 38°  |             |              |             | 9°              |
| Area Acres                       |  | ean Width   | 700'         | Area Acres  | s               |
|                                  |  | Length      | 1347'        |             |                 |
| Tree Line                        | A  |             | В            |             | В               |
| TERRAIN AND VEG                  | ETATION COVER:                             |             |              |             |                 |
| Starting Zone:<br>coniferous and |  | ith slight  | depressi     | ons and cl  | iffs, light     |
| Track: Broad op                  | oen slope, ligh                            | nt conifero | ous and g    | rass        |                 |
| Runout Zone: Bi                  | coad open slope                            | e, moderate | e conifer    | ous         |                 |
| HISTORY: II.                     | crossed highway                            | y: 5        |              |             |                 |
| h                                | events: 53<br>nighway: 0<br>Full-track: 14 | 4           |              |             |                 |

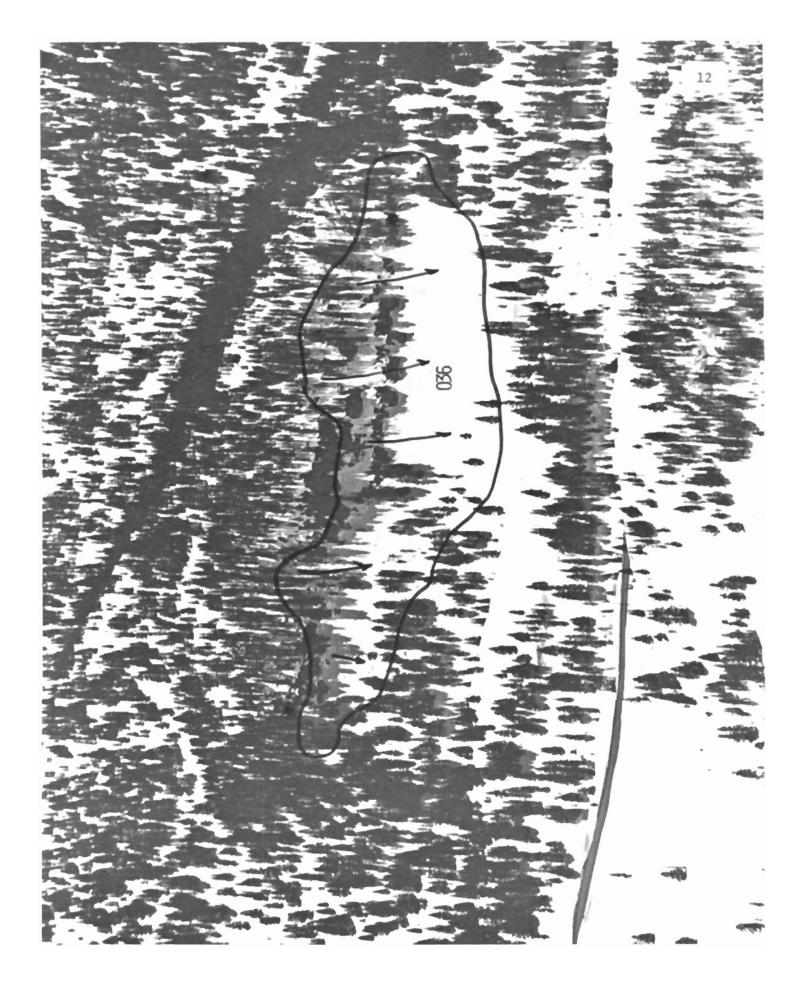


| PATH NAME ('s): Archie   |   |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
| Path Reference Number: 152034 Zo   | one:IV Area:10                              |  |  |  |  |  |  |
| Map Number: 3 Photograph Number  | er: 10,11                                   |  |  |  |  |  |  |
| SPECIFICATIONS: Top Elev.: 11600' Bottom Elev.: 113 Length of Path: 583' Number of Sta                       |   |  |  |  |  |  |  |
| Starting Zone  | Track Runout Zone                           |  |  |  |  |  |  |
| Slope Angle 40°  | $\frac{31}{}^{\circ}$ $\frac{27}{}^{\circ}$ |  |  |  |  |  |  |
| Area Acres 2 Mean Width  | 800' Area Acres 1.5                         |  |  |  |  |  |  |
| Length   | 233'  |  |  |  |  |  |  |
| Tree Line B  | BB  |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER: Starting Zone: Broad, slightly rolling convex-concave slope, talus and willows |   |  |  |  |  |  |  |
| Track: Broad open slope, rock outcrops, cliffs, talus, light coniferous                                      |   |  |  |  |  |  |  |
| Runout Zone: Broad open slope, rock out  | tcrops, cliffs, talus, light coniferous     |  |  |  |  |  |  |
| HISTORY: III. events: 4 highway: 0 full-track: 4   |   |  |  |  |  |  |  |

| PATH NAME ('s):                                  | U S Basin                         |            |          |         |          |         |
|--|-----------------------------------|------------|----------|---------|----------|---------|
| Path Reference N                                 | umber: 152                        | 035        | Zone: _  | IV      | Area: _  | 10      |
| Map Number:                                      | Phot                              | ograph Nu  | mber:    | 10,11   |          |         |
| SPECIFICATIONS: Top Elev.: 12000 Length of Path: |                                   |            |          |         |          | 400'    |
|  |                                   |            |          |         |          |         |
| Slope Angle                                      | arting Zone 42° 9                 | -          | 17 2000  | 0       |          | complex |
| Area Acres                                       |                                   |            | 104      |         | a Acres  |         |
|  |                                   | Lengt      | h 104    |         |          | _       |
| Tree Line  |                                   |            |          | A<br>   |          | В       |
| TERRAIN AND VEGE                                 | TATION COVE                       | CR:        |          |         |          |         |
| Starting Zone: E                                 | Broad open s                      | slope, cli | .ffs     |         |          |         |
| Track: Broad op                                  | en slope, g                       | grass      |          |         |          |         |
| Runout Zone: Bro                                 | oad open slo                      | ppe, moder | ate to h | eavy co | niferous |         |
| HISTORY: III.                                    | events: 13 highway: ( full-track: | )          |          |         |          |         |



| PATH NAME ('s): Big Horn                                     |                                   |  |  |  |  |  |
|--|-----------------------------------|--|--|--|--|--|
| Path Reference Number: 152036                                | Zone: Vrea: 9                     |  |  |  |  |  |
| Map Number: 3 Photograph Numb                                | ber: <u>12</u>                    |  |  |  |  |  |
| SPECIFICATIONS:  Top Elev.: 11200' Bottom Elev.: 11          | 1000' Vertical Fall: 200'         |  |  |  |  |  |
| Length of Path: 360' Number of St                            | tarting Zones:                    |  |  |  |  |  |
| Starting Zone  | Track Runout Zone                 |  |  |  |  |  |
| Slope Angle 38°  | 22°                               |  |  |  |  |  |
| Area Acres 2 Mean Widtl                                      | h 1100' Area Acres 3              |  |  |  |  |  |
| Length   | 300'                              |  |  |  |  |  |
| Tree Line B  | BB                                |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                                |                                   |  |  |  |  |  |
| Starting Zone: Broad open slope, cli                         | ffs topped by moderate coniferous |  |  |  |  |  |
| Track: Broad open slope, cliffs and talus                    |                                   |  |  |  |  |  |
| Runout Zone: Broad open slope, moderate coniferous and grass |                                   |  |  |  |  |  |
| HISTORY: III. events: 4 highway: 0 full-track: 2             |                                   |  |  |  |  |  |



| PATH NAME ('s): Study Plot  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Path Reference Number: 152037 Zone: IV Area: 9  |  |  |  |  |  |  |
| Map Number: 3 Photograph Number: 13   |  |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |  |
| Top Elev.:11400' Bottom Elev.: 11200' Vertical Fall: 200'                                       |  |  |  |  |  |  |
| Length of Path: 539' Number of Starting Zones: 1  |  |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |  |
| Slope Angle 27° 23° 10°   |  |  |  |  |  |  |
| Area Acres .25 Mean Width 200' Area Acres 1   |  |  |  |  |  |  |
| Length 100'   |  |  |  |  |  |  |
| Tree Line B B B   |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |  |
| Starting Zone: Broad open slope with slight depressions, light to moderate coniferous and grass |  |  |  |  |  |  |
| Track: Broad open slope with slight depressions, light to moderate coniferous and grass         |  |  |  |  |  |  |
| Runout Zone: Broad open slope with slight depressions, light to moderate coniferous and grass   |  |  |  |  |  |  |
| HISTORY: III. events: 2 highway: 0 full-track: 1  |  |  |  |  |  |  |

| PATH NAME ('s):                 | Marmot T                      | own          |                |              |          |
|---------------------------------|-------------------------------|--------------|----------------|--------------|----------|
| Path Reference N                | lumber: 152                   | 038 Z        | one: <u>IV</u> | Area:        | 9        |
| Map Number: 3                   | Pho                           | tograph Numb | er: <u>13</u>  |              |          |
| SPECIFICATIONS: Top Elev.: 1140 |                               |              |                |              | 200'     |
| Length of Path:                 | 447'                          | Number of St | arting Zone    | s:4          |          |
| St                              | arting Zone                   | <u>e</u>     | <u>Track</u>   | Runou        | t Zone   |
| Slope Angle                     | _55°                          |              | _45°           |              | 0        |
| Area Acres                      | 2                             | Mean Width   | 1000' A        | rea Acres2   | <u> </u> |
|                                 |                               | Length       | 280'           |              |          |
| Tree Line                       | B                             |              | В              |              | В        |
| TERRAIN AND VEGE                | ETATION COV                   | ER:          |                |              |          |
| Starting Zone:                  | Broad open                    | slope, near  | vertical cl    | iff and talu | ıs       |
| Track: Broad op                 | en slope, t                   | alus         |                |              |          |
| Runout Zone: Br                 | oad open sl                   | ope, grasș a | and willows    |              |          |
| HISTORY: III.                   | events: 8 highway: full-track | 0            |                |              |          |

| PATH NAME ('s):                  | Longfellow                                 |                 |                      |    |
|----------------------------------|--|-----------------|----------------------|----|
| Path Reference N                 | umber: 152039                              | Zone:IV         | Area:9               |    |
| Map Number: 3                    | Photograph Nu                              | mber: <u>13</u> |                      |    |
| SPECIFICATIONS: Top Elev.: 11600 | O' Bottom Elev.: 1                         | 1200' Verti     | cal Fall: 400'       |    |
|                                  | 721' Number of                             |                 |                      |    |
| <u>St</u>                        | arting Zone                                | Track           | Runout Zone          |    |
| Slope Angle                      | 40°  | _40°            | 0 <u>-5°</u>         |    |
| Area Acres                       | 5 Mean Wid                                 | th 1400' Ar     | ea Acres3            |    |
|                                  | Lengt                                      | h 400'          |                      |    |
| Tree Line                        | B  | B               | B                    |    |
| TERRAIN AND VEGE                 | TATION COVER:                              |                 |                      |    |
|                                  | Several broad gullies<br>iferous and grass | s, cliffs, larg | e rock outcrops, lig | ht |
| Track: Narrowing                 | g open slope, grass a                      | and bare ground |                      |    |
| Runout Zone: Bo                  | owl-shaped slope, tai                      | lus, boulders a | nd bare ground       |    |
| HISTORY: III.                    | events: 19 highway: 0 full-track: 9        |                 |                      |    |

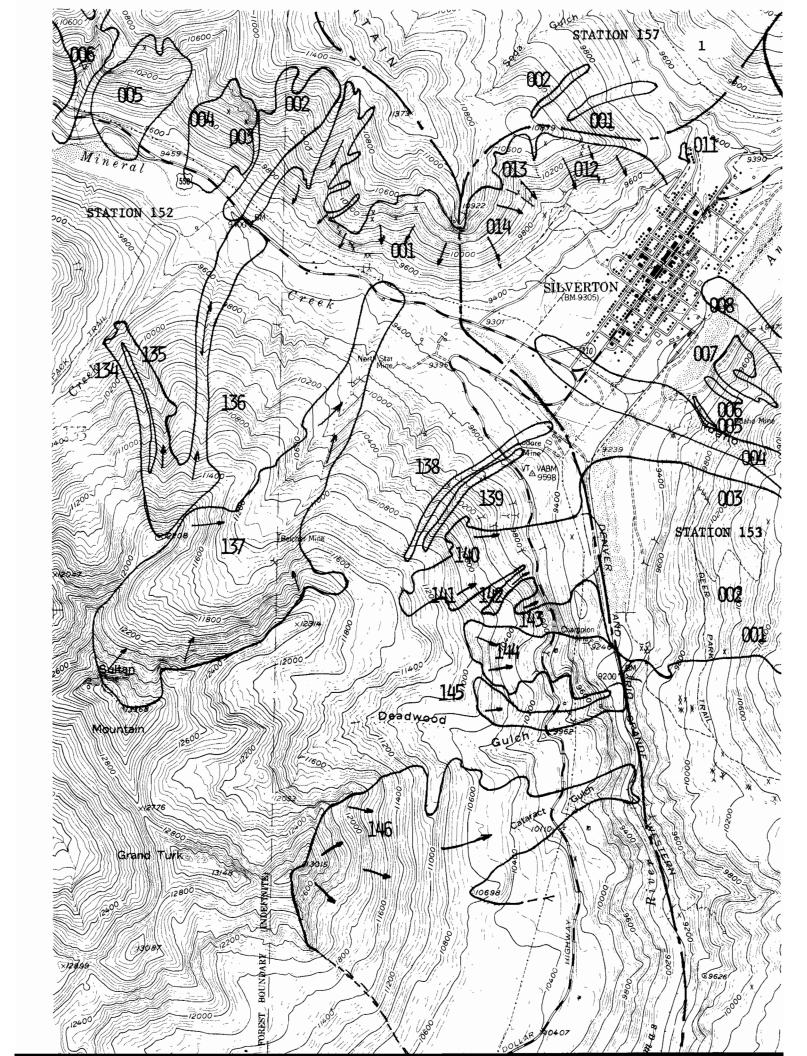


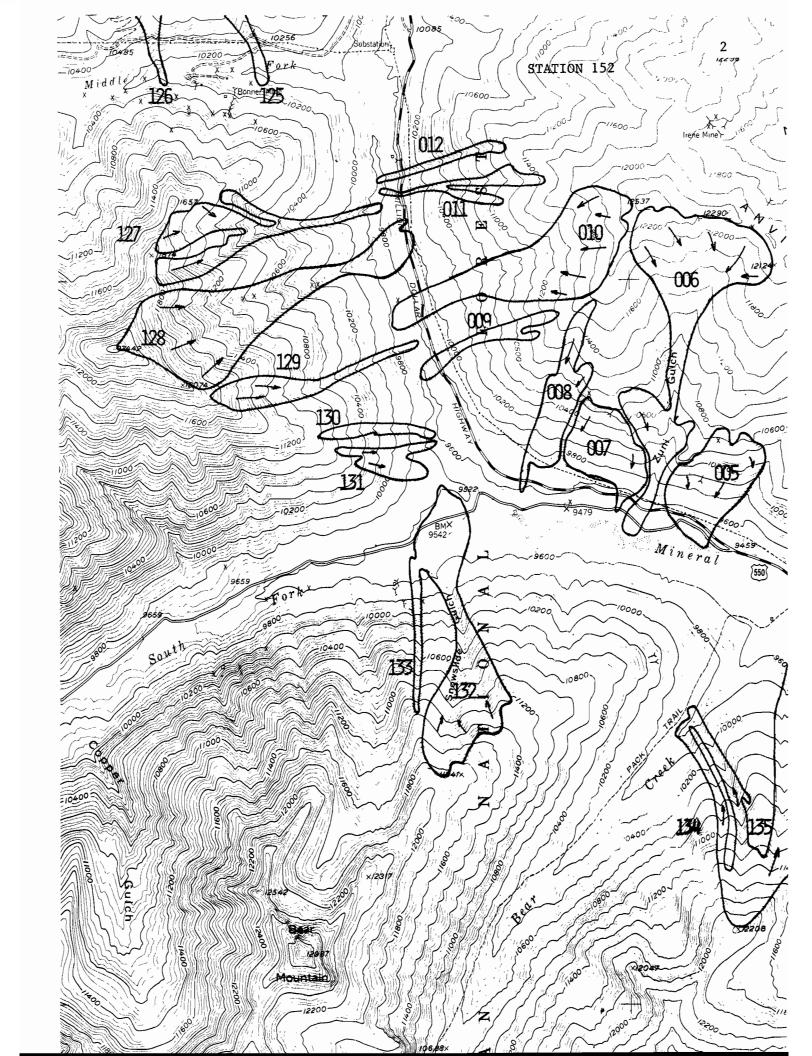
#### SECTION III

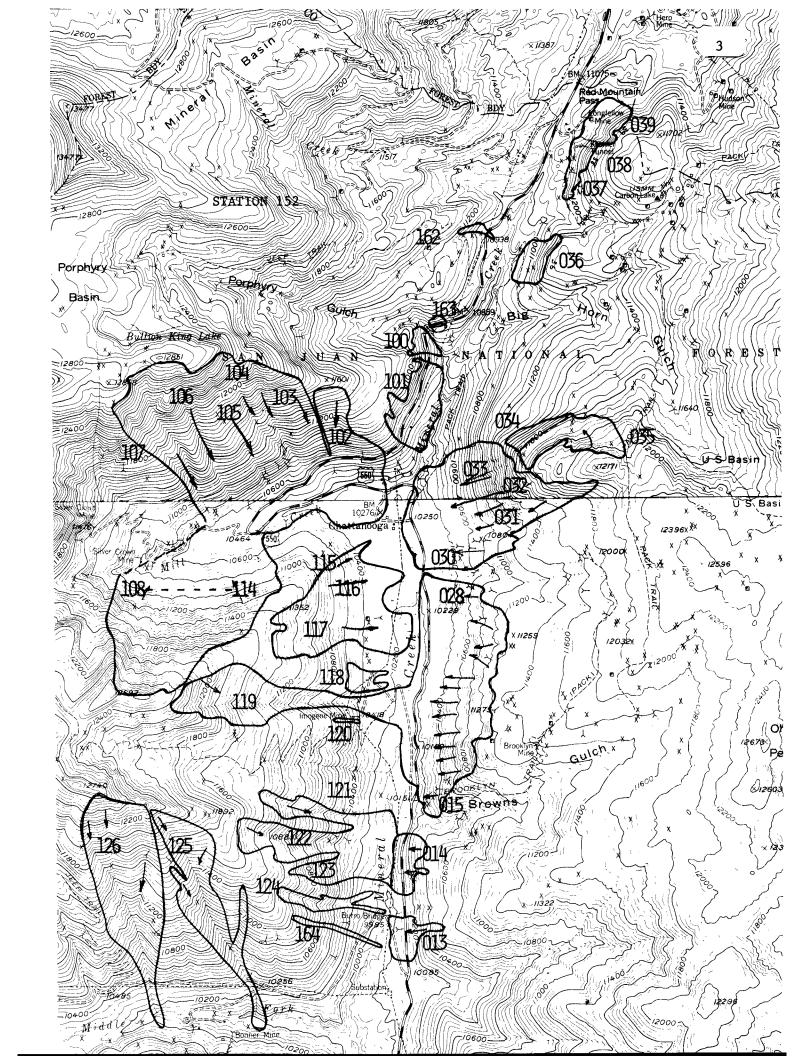
Red Mountain Pass to Silverton west side of U.S. Highway 550

Avalanche paths: 152100 - 152137,

152162 - 152164







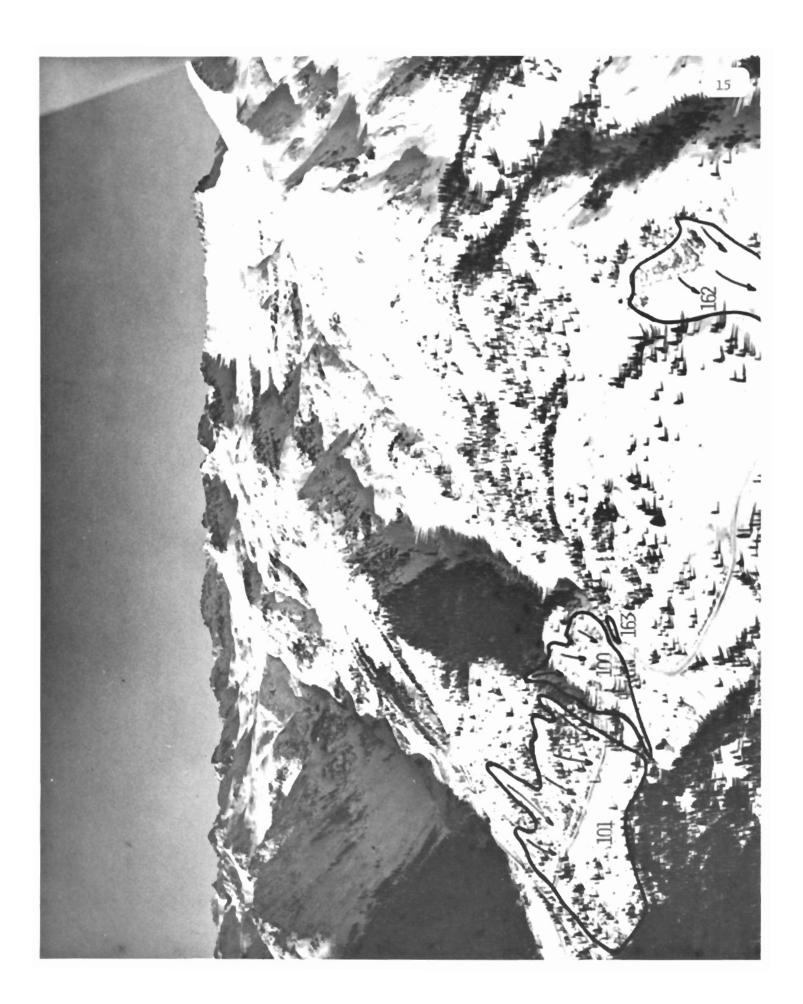
| PATH NAME ('s): Runoff                                     |  |  |  |  |
|--|--|--|--|--|
| Path Reference Number: 152162 Zone: IV Area: 8             |  |  |  |  |
| Map Number: 3 Photograph Number: 14,15                     |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |
| Top Elev.: 11200' Bottom Elev.: 11000' Vertical Fall: 200' |  |  |  |  |
| Length of Path: 538' Number of Starting Zones: 1           |  |  |  |  |
| Starting Zone Track Runout Zone                            |  |  |  |  |
| Slope Angle 39° 31° 11°                                    |  |  |  |  |
| Area Acres 2.4 Mean Width 200' Area Acres 2                |  |  |  |  |
| Length 233'  |  |  |  |  |
| Tree Line B B  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                              |  |  |  |  |
| Starting Zone: Vertical cliffs with open grass slope below |  |  |  |  |
| Track: Open grass slope and talus                          |  |  |  |  |
| Runout Zone: Broad depression, talus and grass             |  |  |  |  |
| HISTORY:   |  |  |  |  |



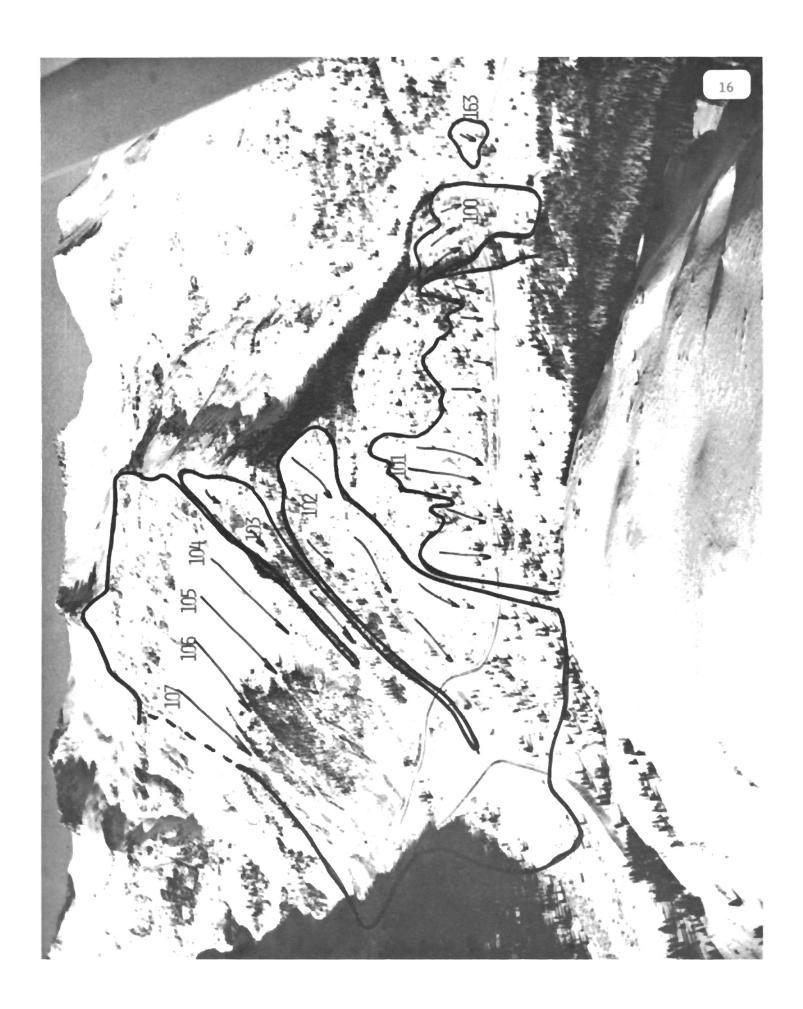
| PATH NAME ('s): Sil                | ver Ledge Mine North | 1            |             |  |
|------------------------------------|----------------------|--------------|-------------|--|
| Path Reference Number              | er: <u>152163</u> Zo | ne:IV        | Area:6      |  |
| Map Number: 3                      | _ Photograph Numbe   | r: 14,15     |             |  |
| SPECIFICATIONS:                    |                      |              |             |  |
| Top Elev.: 11000'                  | Bottom Elev.: 1080   | 00' Vertica  | 1 Fall:     |  |
| Length of Path: 417                | Number of Sta        | rting Zones: | 2           |  |
| Start                              | ing Zone             | Track        | Runout Zone |  |
| Slope Angle 27                     | ,0                   | 39°          | 11°         |  |
| Area Acres 1.2                     | Mean Width           | 600' Area    | Acres 2.3   |  |
|                                    | Length               | 128'         |             |  |
| Tree Line B                        |                      | В            | B           |  |
| TERRAIN AND VEGETAT                | ION COVER:           |              |             |  |
| Starting Zone: Open                | grassy talus slope   |              |             |  |
|                                    |                      |              |             |  |
| Track: Open grassy talus slope     |                      |              |             |  |
|                                    |                      |              |             |  |
| Runout Zone: Broad open fill slope |                      |              |             |  |
|                                    |                      |              |             |  |
|                                    |                      |              |             |  |
| HISTORY:                           |                      |              |             |  |

| PATH NAME ('s):  | Silver Ledge Mine  |           |                          |  |
|--|--|-----------|--------------------------|--|
| Path Reference N   | Number: 152100 Z   | Zone:IV   | Area:6                   |  |
| Map Number: 3  | Photograph Numb  | er: 15,16 | -                        |  |
|  | Bottom Elev.: 10 583' Number of St                           |           |                          |  |
| St   | carting Zone   | Track     | Runout Zone              |  |
| Slope Angle  |  | 31°       |                          |  |
| Area Acres   | Mean Width   | 500' A    | rea Acres1               |  |
|  | Length   | 580'      |                          |  |
| Tree Line  | В  | B         | В                        |  |
| TERRAIN AND VEGE   | ETATION COVER:   |           |                          |  |
|  | Two broad open depress:<br>rops, light coniferous            |           | ed by large rock outcrop |  |
| Track: Narrowing gully, light coniferous, rock outcrops                |  |           |                          |  |
| Runout Zone: Broadening gully, light coniferous, grass and bare ground |  |           |                          |  |
| III. e   | rossed highway: 15<br>vents: 20<br>ighway: 8<br>ull-track: 5 |           |                          |  |

| PATH NAME ('s):               | Rockwall                                 |                  |                         |
|-------------------------------|--|------------------|-------------------------|
| Path Reference 1              | Number: 152101 Zo                        | one:IV           | Area:6_                 |
| Map Number: 3                 | Photograph Number                        | er: <u>15,16</u> |                         |
| SPECIFICATIONS:               |  |                  |                         |
| Top Elev.: 11100              | 0' Bottom Elev.: 1050                    | 00' Vertica      | 1 Fall: 600'            |
| Length of Path:               | 1342' Number of Sta                      | arting Zones:    |                         |
| St                            | tarting Zone                             | Track            | Runout Zone             |
| Slope Angle                   |  | 34°              | 31°                     |
| Area Acres                    | 1.8 Mean Width                           | 1600' Area       | Acres 19                |
|                               | Length                                   | 720'             |                         |
| Tree Line                     | <u>B</u>                                 | В                | В ,                     |
| TERRAIN AND VEGE              | ETATION COVER:                           |                  |                         |
| Starting Zone: coniferous and | Broad open slope with segrass            | everal v-shape   | d drainages, light      |
| Track: Broad op               | en slope with several v                  | -shaped draina   | ges, light coniferous   |
| Runout Zone: Ope              | en slope, boulders, ligi                 | nt to moderate   | coniferous and grass    |
| HISTORY: I. S                 | ilver Ledge Mine tramway                 | •                | nuary 1910<br>arch 1912 |
| II. e                         | rossed highway: 19                       |                  |                         |
| h                             | vents: 45<br>ighway: 22<br>ull-track: 16 |                  |                         |



| PATH NAME ('s      | ): Silver Ledge Mill               | L                   |                         |
|--------------------|------------------------------------|---------------------|-------------------------|
| Path Referenc      | e Number: 152102                   | Zone:IV             | Area: 6                 |
| Map Number: _3     | Photograph                         | Number: 16,17       |                         |
| 07707777           | _                                  |                     |                         |
| SPECIFICATION      |                                    |                     |                         |
| Top Elev.: 116     | Bottom Elev.                       | : 10400' Vertic     | al Fall: 1200'          |
| Length of Pat      | h: <u>2773'</u> Number             | of Starting Zones:  | 2                       |
|                    | Starting Zone                      | Track               | Runout Zone             |
| Slope Angle        | 39°                                | 38°                 | 25°                     |
| Area Acres         | 3 Mean                             | Width 800' Are      | a Acres_6               |
|                    | Le                                 | ength 1650'         |                         |
| Tree Line          | В                                  | B                   | В                       |
| TERRAIN AND V      | EGETATION COVER:                   |                     |                         |
| Starting Zone      | : Broad open slope,                | light coniferous a  | and grass               |
|                    |                                    |                     |                         |
| Track: Broad talus | open slope. Upper p                | portion: grass; lo  | ower portion, grass and |
| Runout Zone:       | Broad open slope, li               | ight willows and gr | ass                     |
| HISTORY: II.       | crossed highway: 4                 |                     |                         |
| III.               | events: 5 highway: 3 full-track: 4 | •                   |                         |



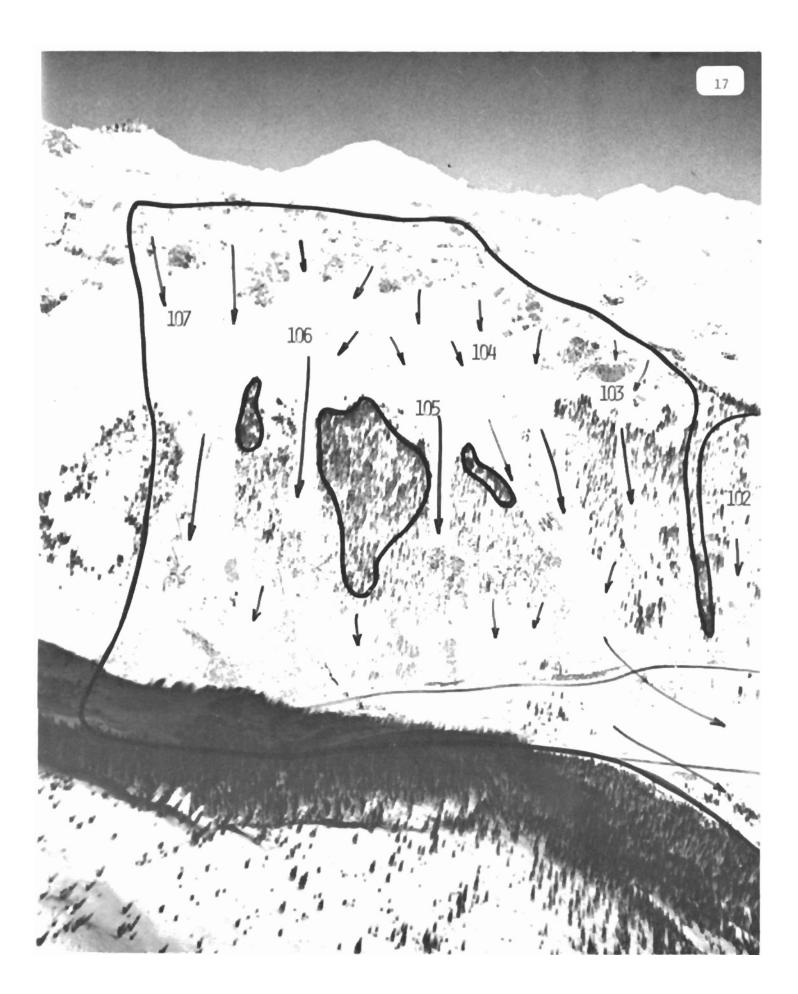
| PATH NAME ('s): | Porcupine   |                 |             |
|-----------------|---|-----------------|-------------|
| Path Reference  | Number: 152103 Zo   | ne:IV           | Area:6      |
| Map Number:3    | Photograph Numbe  | r: 16,17        |             |
| SPECIFICATIONS: |   |                 |             |
| Top Elev.: 1200 | Bottom Elev.: 104   | 00' Vertical    | Fall: 1600' |
| Length of Path: | 3400' Number of Sta   | rting Zones: _  | 2           |
| <u>s</u>        | tarting Zone  | Track           | Runout Zone |
| Slope Angle     |   | 32°             | 140         |
| Area Acres      | 7 Mean Width  | 400' Area       | Acres7.5    |
|                 | Length  | 1887'           |             |
| Tree Line       | A   | B               | B           |
| TERRAIN AND VEG | ETATION COVER:  |                 |             |
| Starting Zone:  | Broad open basin, light   | to moderate co  | oniferous   |
|                 |   |                 |             |
| Track: Broad    | v-shaped gully, light cor   | niferous and as | spen, grass |
|                 |   |                 |             |
|                 |   |                 |             |
| Runout Zone: Br | road open slope, light wi   | lllows and gras | SS          |
|                 |   |                 |             |
| HISTORY: I.     | 1939, ran simultaneously<br>limbs as far as cabins a<br>highway buried with 11' | at Chattanooga  |             |
| II.             | crossed highway: 7  |                 |             |
| III.            | events: 8 highway: 5 full-track: 6  |                 |             |

| PATH NAME ('s): | Eagle  |                 |                     |
|-----------------|--|-----------------|---------------------|
| Path Reference  | Number: 152104 Zo  | ne: <u>IV</u>   | Area:6              |
| Map Number: 3   | Photograph Numbe   | r: <u>16,17</u> |                     |
| SPECIFICATIONS: |  | Ol Venticel     | E-11. 2200!         |
|                 | 00' Bottom Elev.: 1040   |                 |                     |
| Length of Path: | Number of Sta  | rting Zones: _3 | 3                   |
| <u> </u>        | Starting Zone  | Track           | Runout Zone         |
| Slope Angle     | 41°  | <u>31°</u>      | 14°                 |
| Area Acres      | 11 Mean Width  | 500' Area A     | Acres_35            |
|                 | Length   | 2332'           |                     |
| Tree Line       | A  | B               | ВВ                  |
| TERRAIN AND VEO | GETATION COVER:  |                 |                     |
| Starting Zone:  | Broad open slope, smooth   | cliffs          |                     |
|                 |  |                 |                     |
|                 | ortion: broad open slope<br>drainages narrow to sin<br>ground                                      |                 |                     |
| Runout Zone:    | Broadening fan, light con  | iferous, willow | ws and grass        |
| HISTORY: I.     | In March, 1884, the town avalanche from Independe destroyed four buildings is located in the Eagle | nce Mt., north  | west of town, which |
| II.             | crossed highway: 35 during the winter of 195   | 1-1952, the Eas | gle ran 6 times     |
| III.            | events: 99 highway: 27 full-track: 38  |                 |                     |

| PATH NAME ('s)                 | Telescope                            |   |                             |              |  |
|--------------------------------|--------------------------------------|---|-----------------------------|--------------|--|
| Path Reference                 | Number: 15210                        | 5 Zo:                                     | ne:I                        | V Area:      | 6  |
| Map Number:                    | 3 Photog                             | graph Numbe                               | r: <u>16,17</u>             |              |  |
| SPECIFICATIONS:                | :                                    |   |                             |              |  |
| Top Elev.: 126                 | 00' Bottom E                         | Elev.: 104                                | 00' Ve                      | rtical Fall: | 2200'  |
| Length of Path:                | 4391' Num                            | ber of Sta                                | rting Zor                   | nes:2        |  |
| <u>s</u>                       | Starting Zone                        |   | Track                       | Rur          | nout Zone  |
| Slope Angle                    | 31°                                  |   | 34°                         | _            | 22°  |
| Area Acres                     | 16                                   | lean Width                                | 500'                        | Area Acres_  | 12   |
|                                |                                      | Length                                    | 2163'                       |              |  |
| Tree Line                      | A                                    |   | B                           | _            | В  |
| TERRAIN AND VEG                | ETATION COVER:                       |   |                             |              |  |
| Starting Zone:                 | Open basin, cl                       | liffs and 1                               | arge rocl                   | k outcrops   |  |
|                                |                                      |   |                             |              |  |
| Track: Upper pogully, rock out |                                      | wing basin,                               | grass;                      | lower port   | ion: incised                                     |
| Runout Zone: 1                 | broadening fan                       | , talus, li                               | ght coni                    | ferous and v | willows  |
| HISTORY: I.                    | removed by thi                       | is avalanch<br>ıltaneously<br>as cabins a | e.<br>with Por<br>t Chattar | rcupine (103 | cope Mt. Mine  3) throwing tree  5 switchback of |
| II.                            | crossed highwa                       | ay: 26                                    |                             |              |  |
| III.                           | events: 44 highway: 10 full-track: 1 | L8  |                             |              |  |

| PATH NAME ('s):                | Muleshoe                   |                    |               |            |
|--------------------------------|----------------------------|--------------------|---------------|------------|
| Path Reference N               | Number: 152106             | Zone:IV            | Area:         | 6          |
| Map Number: 3                  | Photograph                 | Number: 16,17      |               |            |
| SPECIFICATIONS:                |                            |                    |               |            |
|                                | Bottom Elev.               | : 10500' Ver       | tical Fall:   | 2200'      |
|                                | 4565' Number               |                    |               |            |
|                                | arting Zone                | Track              |               | t Zone     |
| Slope Angle                    | 38°                        | 31°                | 1             | .7°        |
| Area Acres                     | 20 Mean                    | Width 400'         | Area Acres_12 | <u>:</u>   |
|                                | Le                         | ength <u>2332'</u> |               |            |
| Tree Line                      | A                          | B                  | E             | 3          |
| TERRAIN AND VEGI               | TATION COVER:              |                    |               |            |
| Starting Zone:                 | Open basin, cliff          | s and large rocl   | k outcrops    |            |
|                                |                            |                    |               |            |
| Track: Upper p gully, rock out | ortion: narrowin           | g basin, grass;    | lower portio  | n: incised |
|                                |                            |                    |               |            |
| Runout Zone: br                | oadening fan, lig          | ht coniferous a    | nd willows    |            |
|                                |                            |                    |               |            |
| HISTORY: II. c                 | rossed highway:            | 15                 |               |            |
| III. e                         | vents: 39                  |                    |               |            |
| h                              | ighway: 3<br>ull-track: 17 |                    |               |            |
|                                |                            |                    |               |            |

| PATH NAME ('s):                | Bullion KIng, Pro  | ecious Metals       | , Silver  | Crown  |           |
|--------------------------------|--|---------------------|-----------|--|-----------|
| Path Reference N               | umber: <u>152107</u>   | Zone:               | Ar        | ea:6   |           |
| Map Number: 3                  | Photograph   | Number: <u>16,1</u> | .7        |  |           |
| SPECIFICATIONS:                |  |                     |           |  |           |
| Top Elev.: 1280                | O' Bottom Elev.  | : 10500' V          | ertical F | all:2300                                     | <u>)'</u> |
| Length of Path:                | 5400' Number   | of Starting Z       | ones:5    | <u>.                                    </u> |           |
| St                             | arting Zone  | Track               |           | Runout Zor                                   | <u>ie</u> |
| Slope Angle                    | 32°  | 31°                 |           | _15°   |           |
| Area Acres                     |  | Width 600'          | Area Ac   | res <u>13</u>                                |           |
|                                | Le   | ngth <u>2332</u> '  | -         |  |           |
| Tree Line                      | A  | В                   | -         | <u> </u>                                     |           |
| TERRAIN AND VEGE               | TATION COVER:  |                     |           |  |           |
| Starting Zone: (               | Open basin, cliffs   | and large ro        | ck outcro | ps   |           |
| Track: Upper pogully, rock out | ortion: narrowing<br>crops                                     | g basin, grass      | ; lower   | portion: i                                   | incised   |
| Runout Zone: b                 | roadening fan, tal   | us, light con       | iferous a | nd willows                                   |           |
| 1                              | December 1883, 3 m<br>near the mine, one<br>December 1908, out | killed, two         | survived. |  | ıt very   |
| 1                              | events: 21<br>nighway: 0<br>Full-track: 12                     |                     |           |  |           |



| PATH NAME ('s): Mill Creek Cirque  |  |  |  |  |  |
|--|--|--|--|--|--|
| Path Reference Number: 152108-114 Zone: IV Area: 5   |  |  |  |  |  |
| Map Number: 3 Photograph Number: 18  |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |
| Top Elev.: 12700' Bottom Elev.: 10600' Vertical Fall: 2100'  |  |  |  |  |  |
| Length of Path: 3610' Number of Starting Zones: multiple   |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |
| Slope Angle 40° 24°  |  |  |  |  |  |
| Area Acres 120 Mean Width 2000 Area Acres 8  |  |  |  |  |  |
| Length   |  |  |  |  |  |
| Tree Line A B B  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |
| Starting Zone: Broad open steep slopes and cliffs incised with numerous shallow gullies                            |  |  |  |  |  |
| Track: Broad open slopes with numerous incised shallow gullies, rock outcrops, light coniferous, talus and willows |  |  |  |  |  |
| Runout Zone: Broad open slope, talus and willows   |  |  |  |  |  |
| HISTORY: III. events: 90 highway: 0 full-track: 53   |  |  |  |  |  |



| PATH NAME ('s): Ernest, Julio,   | Sam         |             |                     |  |
|--|-------------|-------------|---------------------|--|
| Path Reference Number: 152115-   | 117 Zone    | : <u>IV</u> | Area:               |  |
| Map Number: 3 Photogra   | ph Number:  | 19,20       |                     |  |
| SPECIFICATIONS:  Top Elev.: 11600' Bottom Ele  Length of Path: 3311' Number  |             |             |                     |  |
| -  |             | _           |                     |  |
| Starting Zone  |             | rack        | Runout Zone         |  |
| Slope Angle 27°  | _3          | 32°         | 15°                 |  |
| Area Acres 25 Mea  | n Width _   | 1500' Area  | Acres 27            |  |
|  | Length [    | 1526'       |                     |  |
| Tree Line B  |             | В           | В                   |  |
| TERRAIN AND VEGETATION COVER:  |             | ,           |                     |  |
| Starting Zone: 115 & 116: open and grass   | n knoll, sm | nall rocks, | light coniferous    |  |
| 117: broad open slope with v-s   | shaped depr | essions. li | ht small coniferous |  |
| Track: 115 & 116: broadening slope, small rock outcrops, light coniferou and grass. 117: 2 v-shaped depressions, light small coniferous and gras |             |             |                     |  |
| Runout Zone: 115 & 116: broad open slope, moderate coniferous, grass 117: broad open cone, light small coniferous and grass                      |             |             |                     |  |
| HISTORY: III.  | 115         | 116         | 117                 |  |
|  | Ernest      | Julio       | Sam                 |  |
| event:   | 8           | 4           | 14                  |  |
| highway:<br>full-track:  | 0<br>7      | 0<br>4      | 0<br>7              |  |

| PATH NAME ('s): OOtah                  |                  |                 |                 |
|--|------------------|-----------------|-----------------|
| Path Reference Number: _               | 152118 Zo        | ne: <u>IV</u>   | Area:4          |
| Map Number: 3 P                        | hotograph Numbe  | r: <u>19,20</u> |                 |
| SPECIFICATIONS:                        |                  |                 |                 |
| Top Elev.: 10600' Bot                  | tom Elev.: 1020  | 00' Vertica     | 1 Fall: _400'   |
| Length of Path: 721'                   | Number of Sta    | rting Zones:    | 3               |
| Starting Z                             | one              | Track           | Runout Zone     |
| Slope Angle 34°                        |                  | 34°             | 16°             |
| Area Acres 2                           | Mean Width       | 400' Area       | Acres_2.5       |
|  | Length           | 360'            |                 |
| Tree Line B                            |                  | <u>B</u>        | В               |
| TERRAIN AND VEGETATION C               | OVER:            |                 |                 |
| Starting Zone: Broad ope               | en slope, small  | light to mode   | rate coniferous |
| Track: Broad open slope                | , light conifero | ous, grass and  | bare ground     |
| Runout Zone: Broad open                | slope, grass an  | nd willows      |                 |
| HISTORY: III. events: highway full-tra | : 0              |                 |                 |



| PATH NAME ('s): Imogene, Riley Boy |  |                |                  |  |  |
|------------------------------------|--|----------------|------------------|--|--|
| Path Reference                     | Number: 152119   | Zone:IV        | Area:4           |  |  |
| Map Number:                        | 3 Photograph Num   | per: 19,20     |                  |  |  |
| SPECIFICATIONS:                    |  |                |                  |  |  |
| Top Elev.: 1240                    | 0' Bottom Elev.: $1$   | 0100' Vertic   | al Fall: 2300'   |  |  |
| Length of Path:                    | 5686' Number of S  | tarting Zones: | 6                |  |  |
| St                                 | carting Zone   | Track          | Runout Zone      |  |  |
| Slope Angle                        | 39°  |                | 15°              |  |  |
| Area Acres                         | 50 Mean Width  | 300' Are       | a Acres_24       |  |  |
|                                    | Length   | 3231'          |                  |  |  |
| Tree Line                          | A  | B              | <u>B</u>         |  |  |
| TERRAIN AND VEGI                   | ETATION COVER:   |                |                  |  |  |
| Starting Zone: small rock outc     | Broad basin with large<br>rops and grass                         | rock outcrops  | ; lower portion: |  |  |
| Track: Narrowin                    | g v-shaped depression,   | grass and wil  | lows             |  |  |
| Runout Zone: Br                    | oad fan, grass and wil   | lows           |                  |  |  |
| III.                               | crossed highway: 1<br>events: 20<br>highway: 1<br>full-track: 10 |                |                  |  |  |

| PATH NAME ('s): Portal   |
|--|
| Path Reference Number: 152120 Zone: IV Area: 4   |
| Map Number:3 Photograph Number:20  |
| SPECIFICATIONS:  |
| Top Elev.: 11000' Bottom Elev.: 10100' Vertical Fall: 900'   |
| Length of Path: 2846' Number of Starting Zones: 1  |
| Starting Zone Track Runout Zone  |
| Slope Angle 45° 19° 15°  |
| Area Acres Mean Width Area Acres 1   |
| Length <u>1265</u>   |
| Tree Line B B  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Narrow open slope with slight depressions, light to moderate coniferous and bare ground |
| Track: Open slope, light to moderate coniferous  |
| Runout Zone: Broad slope, moderate to heavy coniferous   |
| HISTORY: III. events: 3 highway: 0 full-track: 2   |



| PATH NAME ('s): Outlaw  |
|---|
| Path Reference Number: 152121 Zone: IV Area: 4  |
| Map Number: 3 Photograph Number: 21   |
| SPECIFICATIONS: Top Elev.: 11400' Bottom Elev.: 10100' Vertical Fall: 1300' Length of Path: 3087' Number of Starting Zones: 2 |
| Starting Zone Track Runout Zone   |
| Slope Angle 34° 30° 17°   |
| Area Acres 1.5 Mean Width 200' Area Acres 7   |
| Length 1617'  |
| Tree Line B B B   |
| TERRAIN AND VEGETATION COVER: Starting Zone: Narrow depression, moderate coniferous and grass                                 |
| Track: Narrow v-shaped depression, light small coniferous and willows   |
| Runout Zone: Broad open slope, grass  |
| HISTORY: III. events: 4 highway: 0 full-track: 4  |

| PATH NAME ('s):                | San Juan                               |               |           |              |          |
|--------------------------------|--|---------------|-----------|--------------|----------|
| Path Reference N               | Number: <u>152</u>                     | 122 Zo        | one:IV    | Area:        | 4        |
| Map Number: 3                  | Phot                                   | ograph Numbe  | er:21     |              |          |
| SPECIFICATIONS:                | N                                      | 73 101        | 001 11    |              | 17001    |
| Top Elev.: 11800               |  |               |           |              |          |
| Length of Path:                | 3891' N                                | umber of Sta  | rting Zor | nes: 3       |          |
| St                             | arting Zone                            |               | Track     | Run          | out Zone |
| Slope Angle                    | _34°                                   |               | _32°      | _            | 14°      |
| Area Acres                     |  | Mean Width    | 300'      | Area Acres_  | 11       |
|                                |  | Length        | 1887'     |              |          |
| Tree Line                      | В                                      |               | B         | _            | В        |
| TERRAIN AND VEGE               | ETATION COVE                           | R:            |           |              |          |
| Starting Zone:                 | Narrow depre                           | ession, moder | rate coni | ferous and g | rass     |
| Track: Narrow s coniferous and | light depres                           |               |           |              |          |
| Runout Zone: Br                | oad open slo                           | ope, grass    |           |              |          |
|                                | events: 8<br>highway: 0<br>full-track: |               |           |              |          |

| PATH NAME ('s):  | Tavern                   |                 |                |             |                 |
|------------------|--------------------------|-----------------|----------------|-------------|-----------------|
| Path Reference   | Number: <u>152123</u>    | Zo              | one: <u>IV</u> | Area        | :4              |
| Map Number: 3    | Photogra                 | aph Numbe       | er:            |             |                 |
| SPECIFICATIONS:  |                          |                 |                |             |                 |
| Top Elev.: 11200 | O' Bottom Ele            | ev.: <u>101</u> | 00' Ver        | ctical Fall | L: <u>1100'</u> |
| Length of Path:  | 2460' Number             | er of Sta       | rting Zor      | nes:        | 2               |
| <u>s</u>         | tarting Zone             |                 | Track          | Ru          | unout Zone      |
| Slope Angle      | 40°                      |                 | _32°           |             | 15°             |
| Area Acres       | Mea                      | an Width        | 200'           | Area Acres  | 3_10            |
|                  |                          | Length          | 943'           |             |                 |
| Tree Line        | B                        |                 | B              |             | <u>B</u>        |
| TERRAIN AND VEG  | ETATION COVER:           |                 |                |             |                 |
| Starting Zone:   | Narrow depressi          | on, mode        | rate coni      | ferous and  | grass           |
|                  |                          |                 |                |             |                 |
| Track: Narrow sl | light depression         | , small :       | light con      | iferous     |                 |
|                  |                          |                 |                |             |                 |
|                  |                          |                 |                |             |                 |
| Runout Zone: Br  | road open slope,         | grass           |                |             |                 |
|                  |                          |                 |                |             |                 |
| HISTORY: III.    | events: 7                |                 |                |             |                 |
|                  | highway: 0 full-track: 5 |                 |                |             |                 |

| PATH NAME ('s):                 | Burro Bridge                             |                         |            |
|---------------------------------|--|-------------------------|------------|
| Path Reference 1                | Number: 152124 Zon                       | ne:IV Area:             | 4          |
| Map Number: 3                   | Photograph Number                        | r: <u>21</u>            |            |
| SPECIFICATIONS: Top Elev.: 1120 | 00' Bottom Elev.: 1000                   | OO' Vertical Fall:      | : 1200'    |
| Length of Path:                 | 2955' Number of Star                     | rting Zones:2           | _          |
| <u>S</u> 1                      | tarting Zone                             | <u>Track</u> <u>Rur</u> | nout Zone  |
| Slope Angle                     | <u>28°</u>                               | 34 <sup>o</sup>         | 12         |
| Area Acres                      | Mean Width                               | 100' Area Acres         | 11         |
|                                 | Length                                   | 1447'                   |            |
| Tree Line                       | В  | B                       | В          |
| TERRAIN AND VEG                 | ETATION COVER:                           |                         |            |
| Starting Zone:                  | Rounded depression, talu                 | is and moderate coni    | ferous     |
| Track: Narrow s                 | slight depression, talus                 | and light small con     | iferous    |
| Runout Zone: Opportion: grass   | een slope. Upper portions and willows    | : heavy coniferous      | ; lower    |
| HISTORY: I.                     | spring, 1886, 1 man and                  | 16 horses killed by     | this slide |
| III.                            | events: 2<br>highway: 0<br>full-track: 1 |                         |            |

| PATH NAME ('s):                  | January            |           |      |                 |             |          |                 |
|----------------------------------|--------------------|-----------|------|-----------------|-------------|----------|-----------------|
| Path Reference Nu                | mber: <u>15216</u> | 54        | Zon  | e: <u>I</u>     | <u>v</u>    | Area: _  | 4               |
| Map Number: 3                    | Photo              | ograph Nu | mber | :               | <del></del> |          |                 |
| SPECIFICATIONS: Top Elev.: 11000 |                    |           |      |                 |             |          |                 |
| Length of Path: _                | 2110 Nt            | mber of   | Star | ting Zo         | nes: _      | <u> </u> | _               |
|                                  | arting Zone        |           | _    | <u>Track</u>    |             | Runo     | out Zone        |
| Slope Angle                      | 39°                |           | _    | 34 <sup>0</sup> |             |          | 15 <sup>0</sup> |
| Area Acres                       | .25                | Mean Wid  | th - | 50'             | Area        | Acres:   | 1               |
|                                  |                    | Lengt     | h    | 1447'           |             |          |                 |
| Tree Line                        | В                  |           |      | В               |             |          | В               |
| TERRAIN AND VEGET                | CATION COVER       | R:        |      |                 |             |          |                 |
| Starting Zone: M                 | oderate sha        | llow depr | essi | on, mod         | lerate      | conife   | rous            |
|                                  |                    |           |      | ,               |             |          |                 |
| Track: Moderate                  | shallow de         | pression, | mod  | erate c         | onife       | rous     |                 |
|                                  |                    |           |      |                 |             |          |                 |
| Runout Zone: Br                  | oad open fi        | ll slope, | gra  | ss, to          | bed of      | Minera   | al Creek        |
| HISTORY:                         |                    |           |      |                 |             |          |                 |

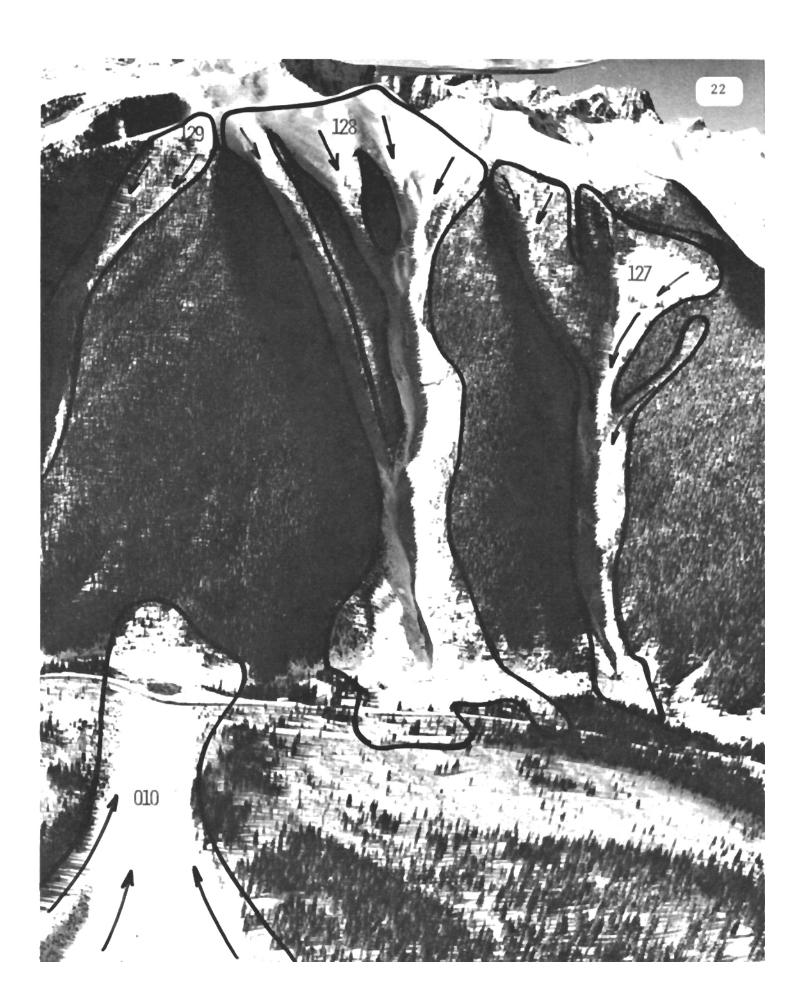
| PATH NAME ('s):             | Ophir Road                              | l East       |          |              |           |
|-----------------------------|---|--------------|----------|--------------|-----------|
| Path Reference N            | Number: 152                             | 2125 Z       | one: I   | V Area:      | 3         |
| Map Number:                 | Pho:                                    | tograph Numb | er:2     | 1            |           |
| SPECIFICATIONS:             |   |              |          |              |           |
| Top Elev.: 1260             | O' Botton                               | n Elev.: 10  | 0000' V  | ertical Fall | : 2600'   |
| Length of Path:             | 5636'                                   | Number of St | arting Z | ones: 5      |           |
| St                          | arting Zone                             | <u>e</u>     | Track    | Ru           | nout Zone |
| Slope Angle                 | 34°                                     |              | _25°     |              |           |
| Area Acres                  | 10                                      | Mean Width   | 300'     | Area Acres   | 7         |
|                             |   | Length       | 3310'    |              |           |
| Tree Line                   | В                                       |              | В        |              | B         |
| TERRAIN AND VEGE            | ETATION COVI                            | ER:          |          |              |           |
| Starting Zone:              | Broad open                              | basin, grass | 3        |              |           |
| Track: Narrowing coniferous | g to less o                             | pen, depress | ions, gr | ass and smal | 1 light   |
| Runout Zone: Na             | rrow creek                              | bottom, and  | adverse  | slope.       |           |
| :                           | events: 12<br>highway: 0<br>full-track: |              |          |              |           |

| PATH NAME ('s)               | Ophir Road                       | d West       |           |              |               |
|------------------------------|----------------------------------|--------------|-----------|--------------|---------------|
| Path Reference               | Number: 152                      | 126 Zo       | one:      | IV Area:     | 3             |
| Map Number:                  | 3 Photo                          | ograph Numbe | er:       |              |               |
| SPECIFICATIONS:              | :                                |              |           |              |               |
| Top Elev.: 1260              | 00' Bottom                       | Elev.: 1010  | 0' Ve     | rtical Fall: | 2500 <b>'</b> |
| Length of Path:              | 5590' N                          | umber of Sta | rting Zo  | nes:5        | _             |
| <u> </u>                     | Starting Zone                    |              | Track     | Rung         | out Zone      |
| Slope Angle                  | 34°                              |              | 28°       |              | 17°           |
| Area Acres                   | 11                               | Mean Width   | 400'      | Area Acres 5 |               |
|                              |                                  | Length       | 3851'     |              |               |
| Tree Line                    | A                                |              | A         | _            | <u>B</u>      |
| TERRAIN AND VEO              | ETATION COVE                     | R:           |           |              |               |
| Starting Zone:               | Broad open b                     | asin, grass  |           |              |               |
| Track: Narrowi<br>coniferous | ng to less op                    | en, depress  | ions, gra | ss and small | light         |
| Runout Zone:                 |                                  |              |           |              |               |
| HISTORY: III.                | events: 8 highway: 0 full-track: | 3            |           |              |               |



| PATH NAME ('s): Bismark, South American                    |          |  |  |  |  |  |
|--|----------|--|--|--|--|--|
| Path Reference Number: 152127 Zone: IV Area: 2             |          |  |  |  |  |  |
| Map Number: 2 Photograph Number: 22                        |          |  |  |  |  |  |
| SPECIFICATIONS:  |          |  |  |  |  |  |
| Top Elev.: 11800' Bottom Elev.: 9800' Vertical Fall: 2000' |          |  |  |  |  |  |
| Length of Path: 5385' Number of Starting Zones:5           |          |  |  |  |  |  |
| Starting Zone Track Runout Zon                             | <u>e</u> |  |  |  |  |  |
| Slope Angle 39° 23° 6°                                     |          |  |  |  |  |  |
| Area Acres 23 Mean Width 150' Area Acres 3                 |          |  |  |  |  |  |
| Length 4662'   |          |  |  |  |  |  |
| Tree Line B B  |          |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                              |          |  |  |  |  |  |
| Starting Zone: Broad open slope, grass                     |          |  |  |  |  |  |
|  |          |  |  |  |  |  |
| Track: Narrowing to v-shaped depression, grass             |          |  |  |  |  |  |
|  |          |  |  |  |  |  |
| Punout 7onot Pad of Minamal Curat                          |          |  |  |  |  |  |
| Runout Zone: Bed of Mineral Creek                          |          |  |  |  |  |  |
|  |          |  |  |  |  |  |
| HISTORY: III. events: 14                                   |          |  |  |  |  |  |
| highway: 0 full-track: 6                                   |          |  |  |  |  |  |

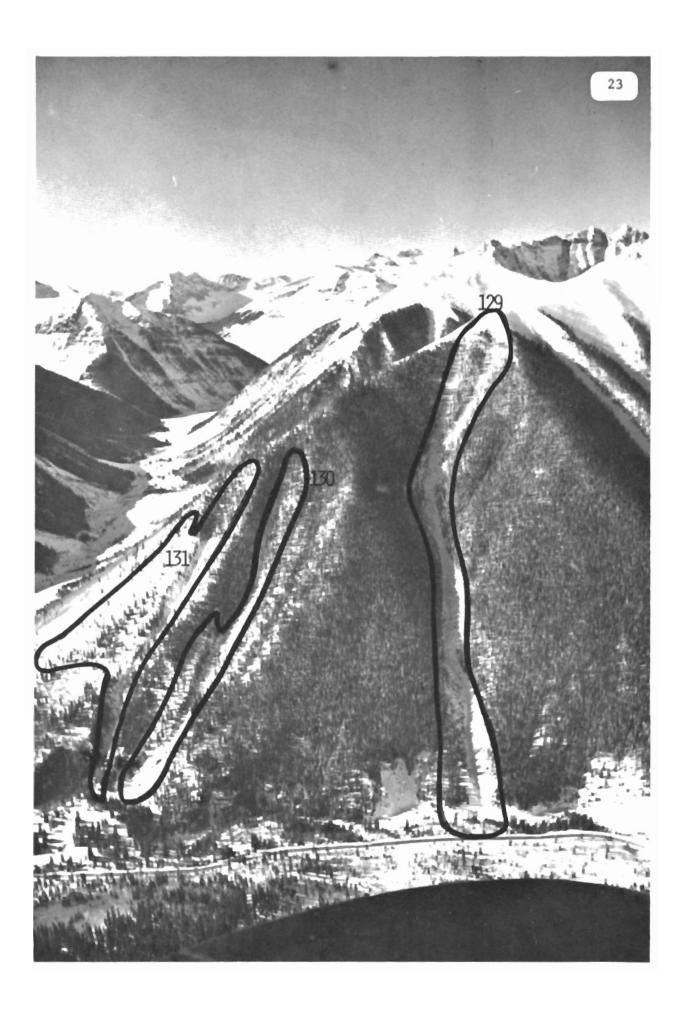
| PATH NAME ('s):  | Battleship  | , Arnold     |              |             |                 |  |
|--|---|--------------|--------------|-------------|-----------------|--|
| Path Reference   | Number: <u>15212</u>                                  | 28 Zo        | ne: <u>I</u> | y Area:     | 2               |  |
| Map Number: 2 Photograph Number: 22  |   |              |              |             |                 |  |
| SPECIFICATIONS:  |   |              |              |             |                 |  |
| Top Elev.: 124   | 00' Bottom  | Elev.:970    | 00' Ver      | tical Fall  | 2700'           |  |
| Length of Path:  | 7038' No  | imber of Sta | rting Zor    | nes:3       | <del></del>     |  |
| <u>s</u>   | tarting Zone  |              | Track        | Ru          | nout Zone       |  |
| Slope Angle  | 34°   |              | _23°         |             | 27°_adv.        |  |
| Area Acres   |   | Mean Width   | 300'         | Area Acres  | 18              |  |
|  |   | Length       | <u>4754</u>  |             |                 |  |
| Tree Line  | <u>A</u>  |              | В            |             | <u> </u>        |  |
| TERRAIN AND VEG<br>Starting Zone:<br>and grass   |   |              | ns, scre     | e, small li | ight coniferous |  |
| Track: Narrowing to v-shaped depression, rock outcrops, small light coniferous and bare ground |   |              |              |             |                 |  |
| Runout Zone: be  | ed of Mineral   | Creek        |              |             |                 |  |
| HISTORY: I.  | 1932, 2 big :<br>1943, hit hi<br>March 1948,<br>lines | ghway, 2' in | deepest      | place       | and telephone   |  |
| II.  | crossed high<br>winter of 19                          |              | ed 4-5' o    | of snow on  | highway         |  |
| III.   | events: 36 highway: 0 full-track:                     | 13           |              |             | ·               |  |



| PATH NAME ('s): Destroyer                                 |                                       |            |        |          |         |        |          |
|---|---------------------------------------|------------|--------|----------|---------|--------|----------|
| Path Reference  | Number: 1                             | 52129      | Zon    | ie:      | IV      | Area:  | 2        |
| Map Number:2  | Pho                                   | otograph N | Number | :        | ,23     |        |          |
| SPECIFICATIONS: Top Elev.: 11800                          | )' Botto                              | om Elev.:  | 9640   | . Ve     | ertical | Fall:  | 2160'    |
| Length of Path:   | 4902                                  | Number of  | Star   | ting Zo  | ones: _ | 2      | -        |
| <u>s</u>  | tarting Zon                           | <u>ie</u>  |        | Track    |         | Rune   | out Zone |
| Slope Angle   | 31°                                   |            |        | 27°      |         | 1      | 3        |
| Area Acres  | 10                                    | Mean Wi    | ldth   | 250'     | Area    | Acres_ | 4        |
|   |                                       | Leng       | gth    | 3936'    |         |        |          |
| Tree Line   | _A                                    |            |        | В        |         |        | В        |
| TERRAIN AND VEG   | ETATIÓN COV                           | ER:        |        |          |         |        |          |
| Starting Zone:  | Narrow dep                            | ression,   | light  | conife   | rous    |        |          |
| Track: Narrow v-shaped depression, light small coniferous |                                       |            |        |          |         |        |          |
| Runout Zone: bed of Mineral Creek                         |                                       |            |        |          |         |        |          |
| HISTORY: I.   | 1943, three                           | w tree li  | mbs on | n highwa | ay      |        |          |
|   | events: 3<br>highway: 6<br>full-track |            |        |          |         |        |          |

| PATH NAME ('s):  | G I                                      |                   |                     |  |  |  |
|--|--|-------------------|---------------------|--|--|--|
| Path Reference N   | umber: 152130                            | Zone:IV           | Area:               |  |  |  |
| Map Number: 2  | Photograph 1                             | Number:23         |                     |  |  |  |
| SPECIFICATIONS:  |  |                   |                     |  |  |  |
| Top Elev.: 11200   | Bottom Elev.:                            | 9600' Vertica     | 11 Fall: 1600'      |  |  |  |
| Length of Path:  | 3053' Number of                          | f Starting Zones: | 1                   |  |  |  |
| St   | arting Zone                              | Track             | Runout Zone         |  |  |  |
| Slope Angle  | 45°                                      |                   |                     |  |  |  |
| Area Acres   | 2.6 Mean W                               | idth 250' Area    | Acres_2             |  |  |  |
|  | Len                                      | gth <u>2332'</u>  |                     |  |  |  |
| Tree Line  | В  | B                 | B                   |  |  |  |
| TERRAIN AND VEGE   | TATION COVER:                            |                   |                     |  |  |  |
| Starting Zone: 7   | Very narrow depress                      | ion, light small  | coniferous and gras |  |  |  |
| Track: Widening slight depression, light small coniferous, grass and bare ground |  |                   |                     |  |  |  |
| Runout Zone: Open slope, with grass, aspen and light coniferous.                 |  |                   |                     |  |  |  |
| 1  | events: 3<br>nighway: 0<br>full-track: 1 |                   |                     |  |  |  |

| PATH NAME ('s):  | Pickle I                        | Barrel          |       |          |         |        |                 |
|--|---------------------------------|-----------------|-------|----------|---------|--------|-----------------|
| Path Reference   | Number: _                       | 52131           | _ Zoi | ne:I     | V       | Area:  | 2               |
| Map Number:2   | . P                             | hotograph       | Numbe | r:       |         |        |                 |
| SPECIFICATIONS:  |                                 |                 |       |          |         |        |                 |
| Top Elev.: <u>1080</u>   | 0' Bot                          | tom Elev.:      | 954   | .0' V    | ertical | Fall:  | 1260'           |
| Length of Path:  | 25351                           | Number o        | f Sta | rting Zo | ones: _ | 2      | _               |
| <u>s</u>   | tarting Z                       | one             |       | Track    |         | Run    | out Zone        |
| Slope Angle  | 39°                             |                 |       | 25°      |         |        | 15 <sup>0</sup> |
| Area Acres   | 2                               | Mean W          | idth  | 300'     | Area    | Acres_ | 3.5             |
|  |                                 | Len             | gth   | 1432'    |         |        |                 |
| Tree Line  | В                               |                 |       | В        |         | _      | В               |
| TERRAIN AND VEG  | ETATIÓN C                       | OVER:           |       |          |         |        |                 |
| Starting Zone:<br>moderate conife  | _                               | -               |       | _        | depress | ion, 1 | ight to         |
| Track: V-shaped depression, light to moderate coniferous, grass and bare ground                                    |                                 |                 |       |          |         |        |                 |
| Runout Zone: Northnarrow gulley with light coniferous and grass. Southbroad slope with light coniferous and aspen. |                                 |                 |       |          |         |        |                 |
| HISTORY: III.  | events:<br>highway:<br>full-tra | 5<br>0<br>ck: 2 |       |          |         |        |                 |



| PATH NAME ('s):  | Snowslide Gulch                     |                       |             |  |  |  |  |
|--|-------------------------------------|-----------------------|-------------|--|--|--|--|
| Path Reference   | Number: <u>152132</u> Zo            | one:IV Area           | n:1         |  |  |  |  |
| Map Number: 2  | Photograph Numbe                    | er:24                 |             |  |  |  |  |
| SPECIFICATIONS:  Top Elev.: 11800' Bottom Elev.: 9540' Vertical Fall: 2260'                                  |                                     |                       |             |  |  |  |  |
| Length of Path:  | Number of Sta                       | erting Zones: 7       |             |  |  |  |  |
| <u>s</u>   | tarting Zone                        | <u>Track</u> <u>F</u> | Runout Zone |  |  |  |  |
| Slope Angle  | 40°                                 | 28°                   | 18°         |  |  |  |  |
| Area Acres   | Mean Width                          | 200' Area Acre        | 283         |  |  |  |  |
|  | Length                              | 3400'                 |             |  |  |  |  |
| Tree Line  | A                                   | В                     | B           |  |  |  |  |
| TERRAIN AND VEG  | ETATION COVER:                      |                       |             |  |  |  |  |
| Starting Zone:<br>light coniferou  | Broad basin with severa             | 1 depressions, roc    | k outcrops, |  |  |  |  |
| Track: Narrows to gully with rock outcrops, willows and bare ground  |                                     |                       |             |  |  |  |  |
| Runout Zone: Broad cone-shaped grassy truncated fan, moderate coniferous and willows in drainage beneath fan |                                     |                       |             |  |  |  |  |
| HISTORY: II.   | March 1958, covered cour            | nty road with 20' o   | of snow     |  |  |  |  |
| III.   | events: 11 highway: 0 full-track: 7 |                       |             |  |  |  |  |

| PATH NAME ('s): String Along  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Path Reference Number: 152133 Zone: IV Area: 1                        |  |  |  |  |  |  |
| Map Number: 2 Photograph Number: 24                                   |  |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |  |
| Top Elev.: 11300' Bottom Elev.: 9600' Vertical Fall: 1700'            |  |  |  |  |  |  |
| Length of Path: 3448' Number of Starting Zones: 1                     |  |  |  |  |  |  |
| Starting Zone Track Runout Zone                                       |  |  |  |  |  |  |
| Slope Angle 37° 18°   |  |  |  |  |  |  |
| Area Acres6 Mean Width100' Area Acres3                                |  |  |  |  |  |  |
| Length 2693'  |  |  |  |  |  |  |
| Tree Line B B   |  |  |  |  |  |  |
| TERRAIN AND VEGETATIÓN COVER:   |  |  |  |  |  |  |
| Starting Zone: Narrow depression, light small coniferous              |  |  |  |  |  |  |
| Track: Narrow depression, small rock outcrops, light small coniferous |  |  |  |  |  |  |
| Runout Zone: Broad open slope, willows                                |  |  |  |  |  |  |
| HISTORY: III. events: 1 highway: 0 full-track: 1                      |  |  |  |  |  |  |



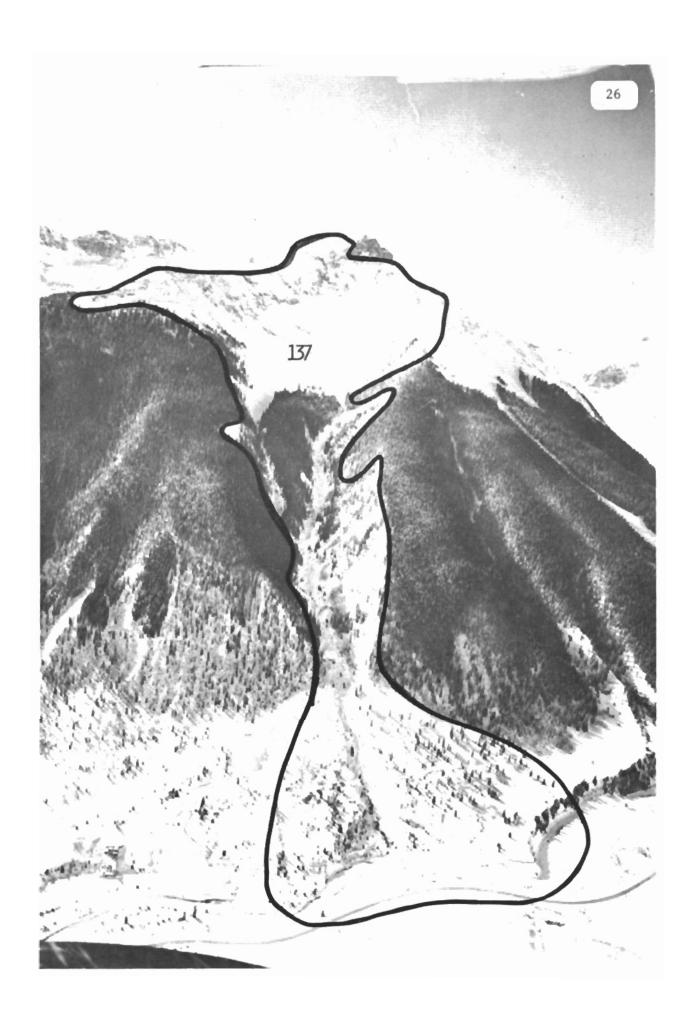
| PATH NAME ('s): Bear Creek West  |
|--|
| Path Reference Number: 152134 Zone: II Area: 1   |
| Map Number: Photograph Number: 25  |
| SPECIFICATIONS:  |
| Top Elev.: 12200' Bottom Elev.: 9800' Vertical Fall: 2400'                                     |
| Length of Path: 4495' Number of Starting Zones: 1  |
| Starting Zone Track Runout Zone  |
| Slope Angle 34° 28° 22°  |
| Area Acres 1 Mean Width 200' Area Acres 4  |
| Length   |
| Tree Line <u>B</u> <u>B</u>  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Open talus slope with rock outcrops   |
| Track: Narrows to well-defined track with flat cross section, light small coniferous and grass |
| Runout Zone: Narrow adverse gully and creek bottom.  |
| HISTORY: III. events: 1 highway: 0 full-track: 1   |

| PATH NAME ('s): Bear Creek East                                      |
|--|
| Path Reference Number: 152135 Zone: II Area: 1                       |
| Map Number:1 Photograph Number:25                                    |
| SPECIFICATIONS:  |
| Top Elev.: 12200' Bottom Elev.: 9700' Vertical Fall: 2500'           |
| Length of Path: 5148' Number of Starting Zones: 2                    |
| Starting Zone Track Runout Zone                                      |
| Slope Angle 45° 29° 20°  |
| Area Acres 3 Mean Width 300' Area Acres 3                            |
| Length 3672'   |
| Tree Line A B B  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Broad basin with incised gullies, large rock outcrops |
| Track: Narrows to rounded gully, talus, grass and bare ground        |
| Runout Zone: Broad open flat, creek, with grass willows and aspen.   |
| HISTORY: III. events: 1 highway: 0 full-track: 0                     |

| PATH NAME ('s):                   | Pumphouse                              |              |          |            |             |
|-----------------------------------|--|--------------|----------|------------|-------------|
| Path Reference                    | Number: 15213                          | 36 Zoi       | ne:I     | I Area     | : _1        |
| Map Number:                       | 1 Photo                                | graph Numbe  | r:25     |            |             |
| SPECIFICATIONS: Top Elev.: 11800  | O' Bottom                              | Elev.: 9400  | )' Vei   | rtical Fal | 1: 2400'    |
| Length of Path:                   |  |              |          |            |             |
| <u>s</u>                          | tarting Zone                           |              | Track    | R          | unout Zone  |
| Slope Angle                       | 23°                                    |              | 23°      |            | 9°          |
| Area Acres                        | 25                                     | Mean Width   | 150'     | Area Acres | s21         |
|                                   |  | Length       | 4123'    |            |             |
| Tree Line                         | A                                      |              | В        |            | B           |
| TERRAIN AND VEG                   | ETATION COVER                          | :            |          |            |             |
| Starting Zone:<br>small rock outo |  | ope with sl  | ight dep | ression, t | alus and    |
| Track: Narrows                    | to depression                          | n with small | light c  | oniferous  | and willows |
| Runout Zone: Br                   | coad open slop                         | oe, light co | niferous | and willo  | ws          |
| HISTORY: III.                     | events: 2<br>highway: 0<br>full-track: | 2            |          |            |             |



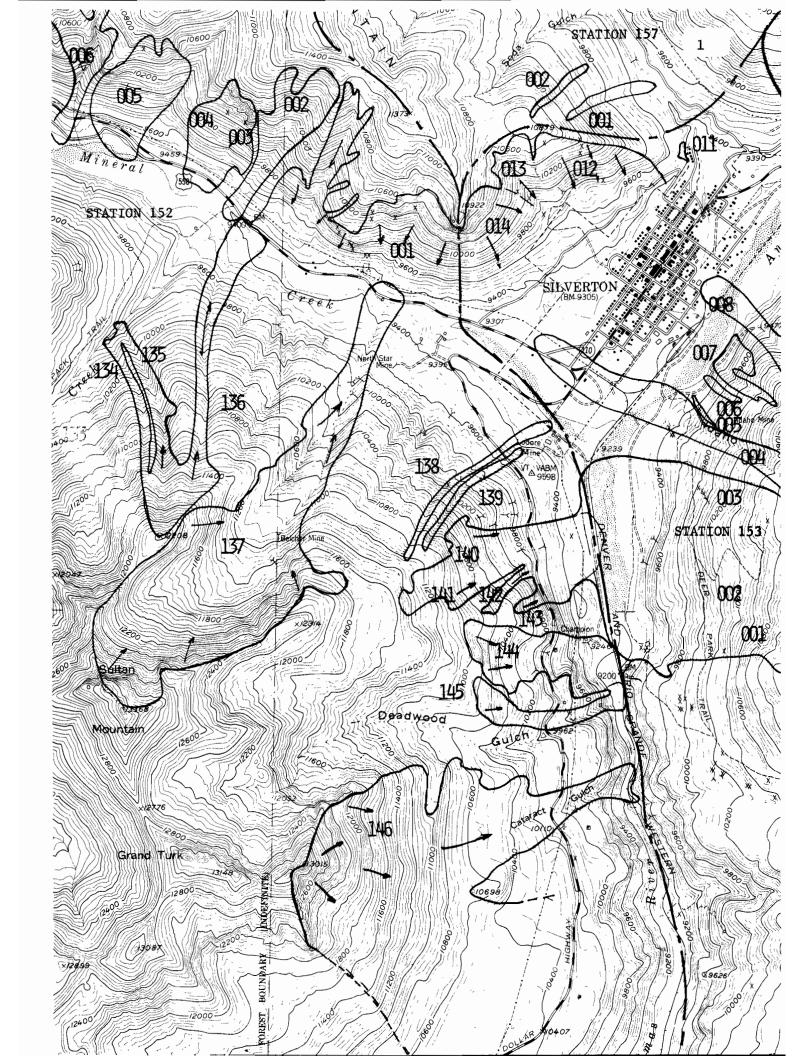
| PATH NAME ('s):   | North Star                         |                        |                |  |  |  |  |
|---|------------------------------------|------------------------|----------------|--|--|--|--|
| Path Reference Number: 152137 Zone: II Area: 2  |                                    |                        |                |  |  |  |  |
| Map Number:   | Photograph Number                  | r: <u>26</u>           |                |  |  |  |  |
| SPECIFICATIONS:   |                                    |                        |                |  |  |  |  |
| Top Elev.: 1300   | 00' Bottom Elev.: <u>9300</u>      | Vertical Fall          | : <u>3700'</u> |  |  |  |  |
| Length of Path:   | 11132' Number of Star              | rting Zones: mult      | <u>ipl</u> e   |  |  |  |  |
| <u>s</u>  | tarting Zone                       | <u>Track</u> <u>Ru</u> | nout Zone      |  |  |  |  |
| Slope Angle   | 32°                                | _18°                   | 13°            |  |  |  |  |
| Area Acres  | 175 Mean Width                     | 200' Area Acres        | 31             |  |  |  |  |
|   | Length                             | 8412'                  |                |  |  |  |  |
| Tree Line   | A                                  | ВВ                     | В              |  |  |  |  |
| TERRAIN AND VEG   | ETATION COVER:                     |                        |                |  |  |  |  |
| Starting Zone: gullies, talus   | Broad basin, numerous la           | rge rock outcrops      | and incised    |  |  |  |  |
| Track: Narrows to v-shaped gully with rock outcrops, small light coniferous and aspen and willows   |                                    |                        |                |  |  |  |  |
| Runout Zone: Narrow fan, light coniferous talus and willows   |                                    |                        |                |  |  |  |  |
| HISTORY: I. January 1886, 1 man carried down entire length of path, survived February 1891, 3 men killed by slide in Belcher Basin (North Star Basin) March 1906, slide starting in Belcher Basin crossed Mineral Creek and stopped on Anvil Mt., destroying a stone powder house |                                    |                        |                |  |  |  |  |
| III.  | events: 2 highway: 0 full-track: 0 |                        |                |  |  |  |  |



#### SECTION IV

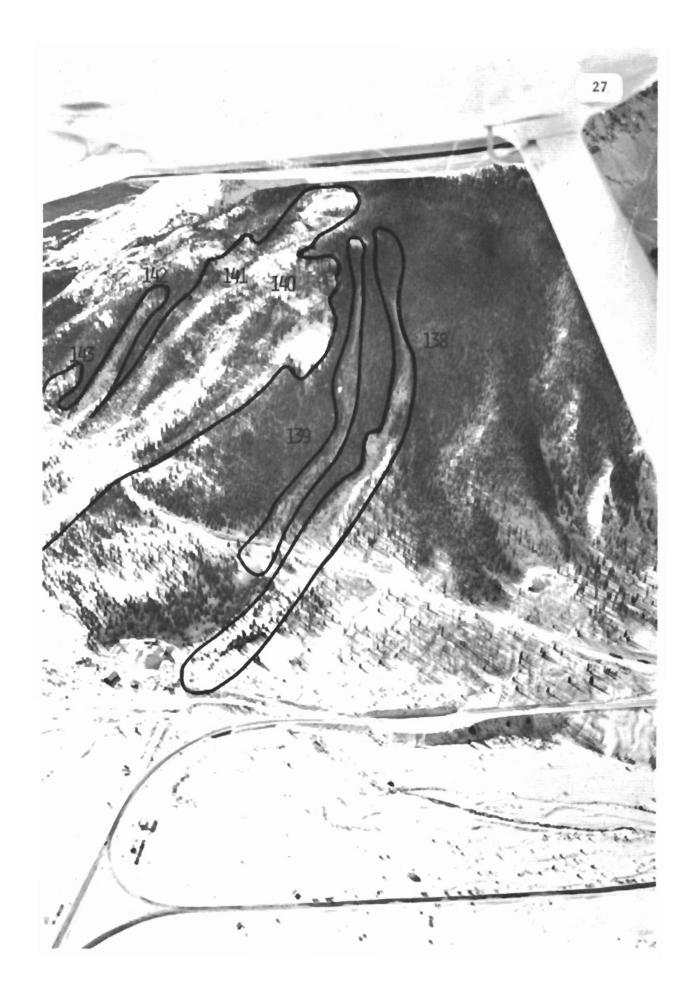
Silverton to Molas Pass U.S. Highway 550

Avalanche paths: 152138 - 152146



| PATH NAME ('s): Gladstone North, Dora Slide, Twin Slide                                    |                             |  |  |  |  |  |
|--|-----------------------------|--|--|--|--|--|
| Path Reference Number: 152138 Zone:  | II Area:3                   |  |  |  |  |  |
| Map Number: Photograph Number:   | 27                          |  |  |  |  |  |
| SPECIFICATIONS:  |                             |  |  |  |  |  |
| Top Elev.: 11400' Bottom Elev.: 9240'  | Vertical Fall:2160'         |  |  |  |  |  |
| Length of Path: 4992' Number of Startin  | ng Zones: 2                 |  |  |  |  |  |
| Starting Zone Tra  | ack Runout Zone             |  |  |  |  |  |
| Slope Angle 34° 2  | 26° 9°                      |  |  |  |  |  |
| Area Acres Mean Width  | 00' Area Acres 10           |  |  |  |  |  |
| Length 2   | 22361                       |  |  |  |  |  |
| Tree LineB   | <u>B</u> B                  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |                             |  |  |  |  |  |
| Starting Zone: Very narrow shallow depress grass and bare ground                           | ion, light small coniferous |  |  |  |  |  |
| Track: Narrow shallow depression, light to moderate small coniferous grass and bare ground |                             |  |  |  |  |  |
| Runout Zone: Open slope, light coniferous, moderate aspen and grass                        |                             |  |  |  |  |  |
| HISTORY: I. May 10, 1941, deposited num III. events: 1 highway: 0 full-track: 1            | merous trees on highway     |  |  |  |  |  |

| PATH NAME ('s                  | ): Gladstone                     | South, Dora   | Slide, Twi    | n Slide           |          |
|--------------------------------|----------------------------------|---------------|---------------|-------------------|----------|
| Path Reference                 | e Number: 152                    | 2139 Zo       | ne: <u>II</u> | Area:3            | -        |
| Map Number: _                  | 1 Pho                            | tograph Numbe | r: <u>27</u>  |                   |          |
| SPECIFICATION                  | S:                               |               |               |                   |          |
| Top Elev.: <u>11</u>           | 000' Bottor                      | m Elev.: 902  | 4' Verti      | cal Fall: 1760'   | _        |
| Length of Pat                  | h: 3652'                         | Number of Sta | rting Zones   | :1                |          |
|                                | Starting Zone                    | <u>2</u>      | Track         | Runout Zone       | <u> </u> |
| Slope Angle                    | 39°                              |               | 30°           | 9°                |          |
| Area Acres                     | 3                                | Mean Width    | 100' Ar       | ea Acres_10       |          |
|                                |                                  | Length        | 2419'         |                   |          |
| Tree Line                      | B                                |               | <u> </u>      | B                 |          |
| TERRAIN AND V                  | EGETATION COVE                   | ER:           |               |                   |          |
| Starting Zone<br>grass and bar | _                                | shallow depr  | ession, lig   | ht small coniferd | ous,     |
|                                | w shallow depr<br>lower track:   |               |               | ferous and grass  | in       |
| Runout Zone:<br>mine dump      | Open slope, 1                    | ight to moder | ate conifer   | ous, aspen and gr | ass;     |
| HISTORY: I.                    | March 1878, 4<br>just below H    |               | en slide hit  | cabin at Ajax sh  | naft     |
| III.                           | events: 0 highway: 0 full-track: | 0             |               |                   |          |

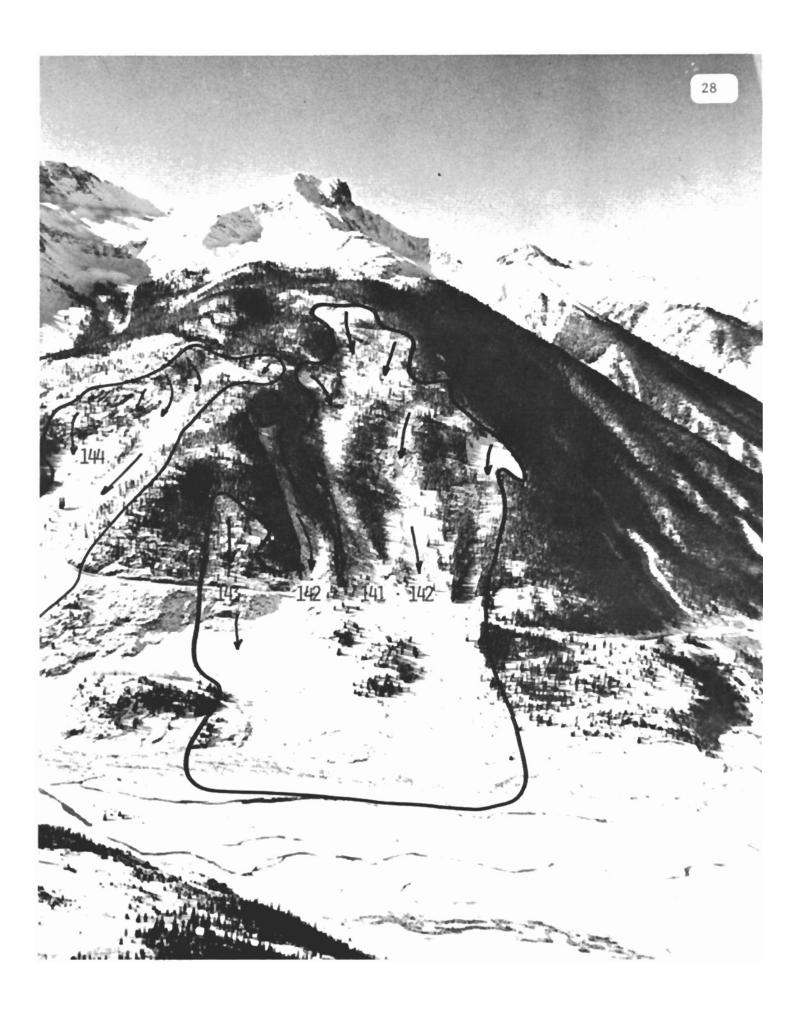


| PATH NAME ('s  | ): Jennie Parker North  |                    |             |
|----------------|---|--------------------|-------------|
| Path Reference | e Number: 152140  | Zone:II            | Area: _4    |
| Map Number:    | 1 Photograph Num  | ber: <u>27</u>     |             |
| SPECIFICATION  | S:  |                    |             |
| Top Elev.: 11  | 300' Bottom Elev.: 92   | 200' Vertica       | 1 Fall:     |
| Length of Pat  | h: 4696' Number of S  | tarting Zones:     | 2           |
|                | Starting Zone   | Track              | Runout Zone |
| Slope Angle    |   | 22°                | 20°         |
| Area Acres     | 9<br>———— Mean Widt   | h <u>300'</u> Area | Acres 13    |
|                | Length  | 1616'              |             |
| Tree Line      | B   | <u>B</u>           | B           |
| TERRAIN AND V  | EGETATION COVER:  |                    |             |
|                | : Broad shallow depressiernating with bands of mo   | _                  | _           |
| small conifer  | open slope. Upper porti<br>rous; lower portion: ta<br>oniferous, willows and gr               | lus slope above    |             |
| Runout Zone:   | Broad open slope, grass   | and willows        |             |
|                | (for 140 and 141) February 1884, ore house January 1886, all buildi February 27, 1927, debris | ngs on claim de    | emolished   |
|                | (for 140 and 141) crossed highway: 15   |                    |             |
| III.           | events: 8 highway: 2 full-track: 1  |                    |             |

| PATH NAME ('s): Jennie Parker South   |
|---|
| Path Reference Number: 152141 Zone: II Area: 4  |
| Map Number: 1 Photograph Number: 27   |
| SPECIFICATIONS:  Top Elev.: 11400' Bottom Elev.: 9200' Vertical Fall: 2200'   |
| Length of Path: 4741 Number of Starting Zones: 2  |
| Starting Zone Track Runout Zone   |
| Slope Angle 30° 22° 20°   |
| Area Acres 11 Mean Width 300' Area Acres 13   |
| Length 2608'  |
| Tree Line B B B   |
| TERRAIN AND VEGETATION COVER:   |
| Starting Zone: Broad shallow depressions, cliffs and large rock outcrops alternating with bands of moderate coniferous  |
| Track: Broad open slope. Upper portion: smooth rock outcrops, light small coniferous; lower portion; light smooth rocky outcrops, moderate small to medium coniferous and aspen |
| Runout Zone: Broad open slope. Upper portion: moderate coniferous and aspen; lower portion: light boulders, grass and willows   |
| HISTORY: I. see Jennie Parker North, #140   |
| II. see Jennie Parker North, #140   |
| <pre>III. events: 8     highway: 2     full-track: 1</pre>  |

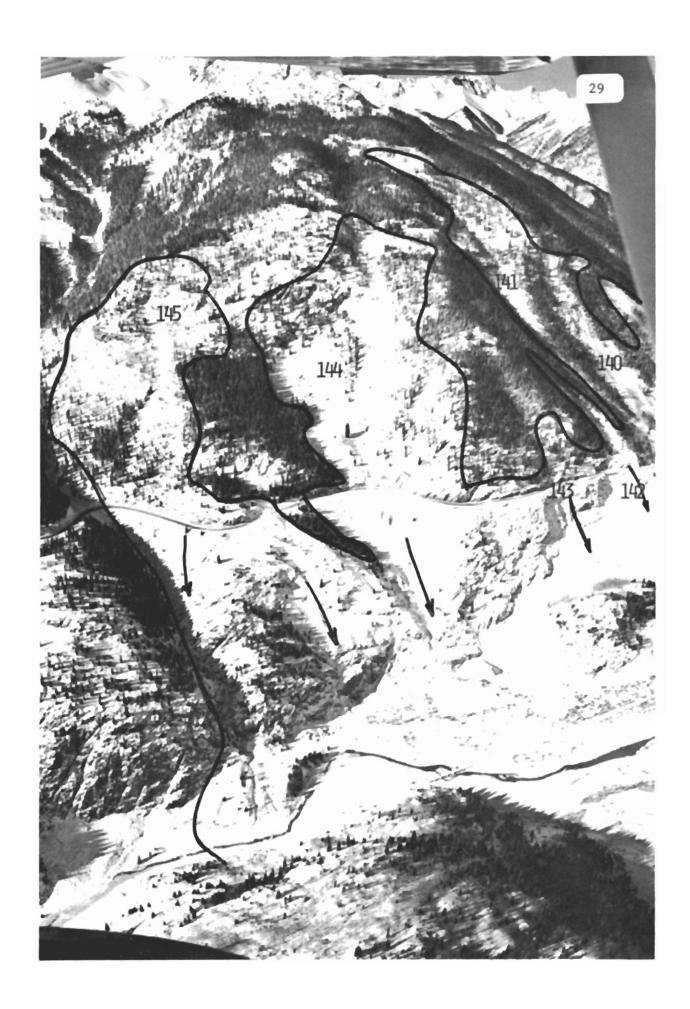
| PATH NAME ('s): Peacock  |
|--|
| Path Reference Number: 152142 Zone: II Area: 4                                     |
| Map Number:1 Photograph Number:27  |
| SPECIFICATIONS:  Top Elev.: 10800' Bottom Elev.: 9200' Vertical Fall: 1600'        |
| Length of Path: 3225' Number of Starting Zones: 1                                  |
| Starting Zone Track Runout Zone  |
| Slope Angle 40° 33° 6°   |
| Area Acres Mean Width Area Acres 7   |
| Length 2025'   |
| Tree Line B B  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Open talus slope  |
| Track: Open slope, large rock outcrops, light to medium small coniferous and aspen |
| Runout Zone: Broad open slope, grass, willows, light boulders and light aspen      |
| HISTORY: II. crossed highway: 7  III. events: 5 highway: 5                         |
| full-track: 4  |

| PATH NAME ('s):                   | Harley Shor                      | t                     |               |                   |
|-----------------------------------|----------------------------------|-----------------------|---------------|-------------------|
| Path Reference                    | Number: <u>1521</u>              | 43 Zon                | ne: <u>II</u> | Area:4            |
| Map Number:                       | 1 Photo                          | ograph Number         | 27,28         |                   |
| SPECIFICATIONS:                   |                                  |                       |               |                   |
| Top Elev.: 104                    | 00' Bottom                       | Elev.: 920            | 0' Vertica    | 1 Fall: 1200'     |
| Length of Path:                   | 2332' Nu                         | mber of Star          | cting Zones:  | 1                 |
| <u>s</u>                          | Starting Zone                    |                       | Track         | Runout Zone       |
| Slope Angle                       | 45°                              |                       | _41°          | 39°               |
| Area Acres                        | .5                               | Mean Width            | Area          | Acres 4.5         |
|                                   |                                  | Length                | 922           |                   |
| Tree Line                         | B                                |                       | B             | <u>B</u>          |
| TERRAIN AND VEG                   | ETATION COVER                    | ₹:                    |               |                   |
| Starting Zone:<br>with medium con | Broad open s                     | lope, cliffs<br>aspen | and rock out  | crops alternating |
| Track: Broad on medium conifero   | pen slope, cla<br>ous and aspen  | iffs and roc          | k outcrops al | ternating with    |
| Runout Zone: Ro                   | ocky cliff wi                    | th talus slo          | pe and willow | s below           |
| HISTORY: II.                      | crossed high                     | way: 6                |               |                   |
| III.                              | events: 3 highway: 3 full-track: | 2                     |               |                   |

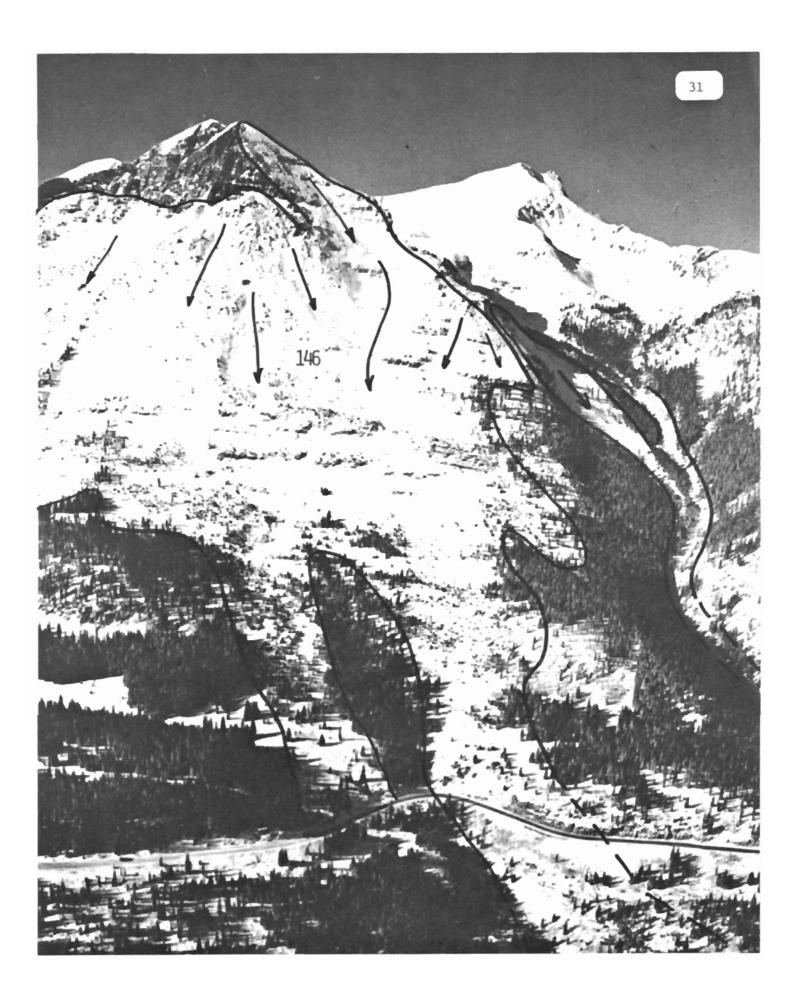


| PATH NAME ('s)   | : Champion  |                      |                |  |  |  |
|--|---|----------------------|----------------|--|--|--|
| Path Reference   | Number: 152144 Zo   | one: <u>II</u> Area: | 4              |  |  |  |
| Map Number:  | 1 Photograph Number   | er: <u>28</u>        |                |  |  |  |
| SPECIFICATIONS   |   |                      | 10001          |  |  |  |
| Top Elev.: 110   | 000' Bottom Elev.: 9  | Vertical Fall        | :              |  |  |  |
| Length of Path   | : 3936' Number of Sta   | arting Zones: 2      |                |  |  |  |
| <u>!</u>   | Starting Zone   | Track Ru             | nout Zone      |  |  |  |
| Slope Angle  | 40°   | 29°                  | 7°             |  |  |  |
| Area Acres   | 25 Mean Width   | 600 Area Acres       | 14             |  |  |  |
|  | Length  | _2283'               |                |  |  |  |
| Tree Line  | B   | В                    | В              |  |  |  |
| TERRAIN AND VE   | GETATION COVER:   |                      |                |  |  |  |
| Starting Zone: cliffs, light   | Broad v-shaped depressi<br>coniferous   | on, talus, small roo | k outcrops and |  |  |  |
| Track: Broad depression, talus, rock outcrops, light coniferous, aspen and grass               |   |                      |                |  |  |  |
| Runout Zone: Broad open fan, large boulders, grass. Flat flood plain, grass and willows below. |   |                      |                |  |  |  |
| HISTORY: I.  | February, 1915, 1 man kee<br>February, 1932, railroad<br>and moved 30 feet<br>crossed highway: 30 |                      |                |  |  |  |
| III.   | events: 28 highway: 18 full-track: 6  |                      |                |  |  |  |

| PATH NAME ('s):                                | Deadwood                               | d             |               |              |                |
|--|--|---------------|---------------|--------------|----------------|
| Path Reference N                               | lumber: 15                             | 2145 Zo       | one:I         | I Area       | :5             |
| Map Number: 1                                  | Pho                                    | tograph Numbe | er: <u>29</u> |              |                |
| SPECIFICATIONS: Top Elev.: 1080                | 00' Botton                             | m Elev.: 920  | 0' Ve         | ertical Fall | L: 1600'       |
| Length of Path:                                | 3578'                                  | Number of Sta | rting Zo      | ones:2       | <del></del>    |
| St   | arting Zon                             | <u>e</u>      | Track         | Ru           | ınout Zone     |
| Slope Angle                                    | 30°                                    |               |               |              |                |
| Area Acres                                     | 11                                     | Mean Width    | 300'          | Area Acres   | 3              |
| Tree Line                                      | В                                      | Length        | 2506'<br>B    |              | В              |
| TERRAIN AND VEGE                               | TATION COV                             | ER:           |               |              |                |
| Starting Zone:                                 | Two large                              | basins, cliff | s, rock       | outcrops wi  | ith talus belo |
| Track: Upper pograss and bare gosmooth bedrock |  |               |               |              |                |
| Runout Zone: Bro                               | oad open fl                            | at and river  | bottom.       |              |                |
| HISTORY: II. I                                 | ecember 19                             | 51, ran from  | main gul      | lly and cove | ered highway   |
| l  | events: 1<br>nighway: 1<br>full-track: |               |               |              |                |



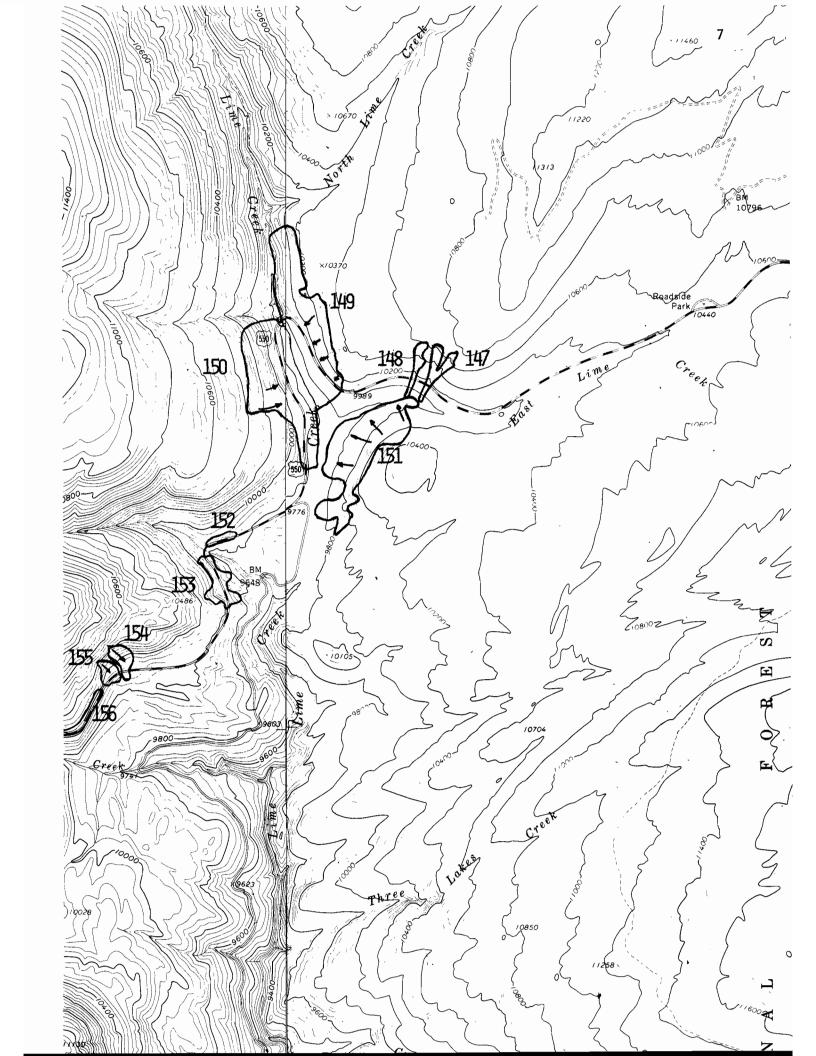
| PATH NAME ('s)                   | : King Mine   |                       |                      |
|----------------------------------|---|-----------------------|----------------------|
| Path Reference                   | Number: <u>152146</u>   | Zone: <u>II</u>       | Λrea:5_              |
| Map Number:                      | Photograph 1  | Number:               |                      |
| SPECIFICATIONS                   | :   |                       |                      |
| Top Elev.: 130                   | 00' Bottom Elev.:   | 9200' Vertica         | 1 Fall: <u>4800'</u> |
| Length of Path                   | : 8323' Number o  | f Starting Zones:     | multiple             |
| <u>1</u>                         | Starting Zone   | Track                 | Runout Zone          |
| Slope Angle                      | 41°   | 26°                   |                      |
| Area Acres                       | 64 Mean W   | idth <u>800'</u> Area | Acres 4              |
|                                  | Len   | gth <u>5903'</u>      |                      |
| Tree Line                        | A   | <u>B</u>              | B                    |
| TERRAIN AND VE                   | GETATION COVER:   |                       |                      |
| Starting Zone:<br>large rock out | Broad open cliffs crops   | with broad open sl    | ope below, talus,    |
|                                  | broad open slopes,<br>broad open slope,<br>aspen                  |                       |                      |
| Runout Zone:<br>drainage below   | Broad open cliffs, 1  | ight coniferous, c    | rosses Animas        |
| HISTORY: I.                      | 1932, covered railre<br>January 1935, cover<br>Grande Railroad 15 | ed the tracks of t    |                      |
| II.                              | crossed highway: 2  |                       |                      |
| III.                             | events: 0 highway: 0 full-track: 0                                |                       |                      |

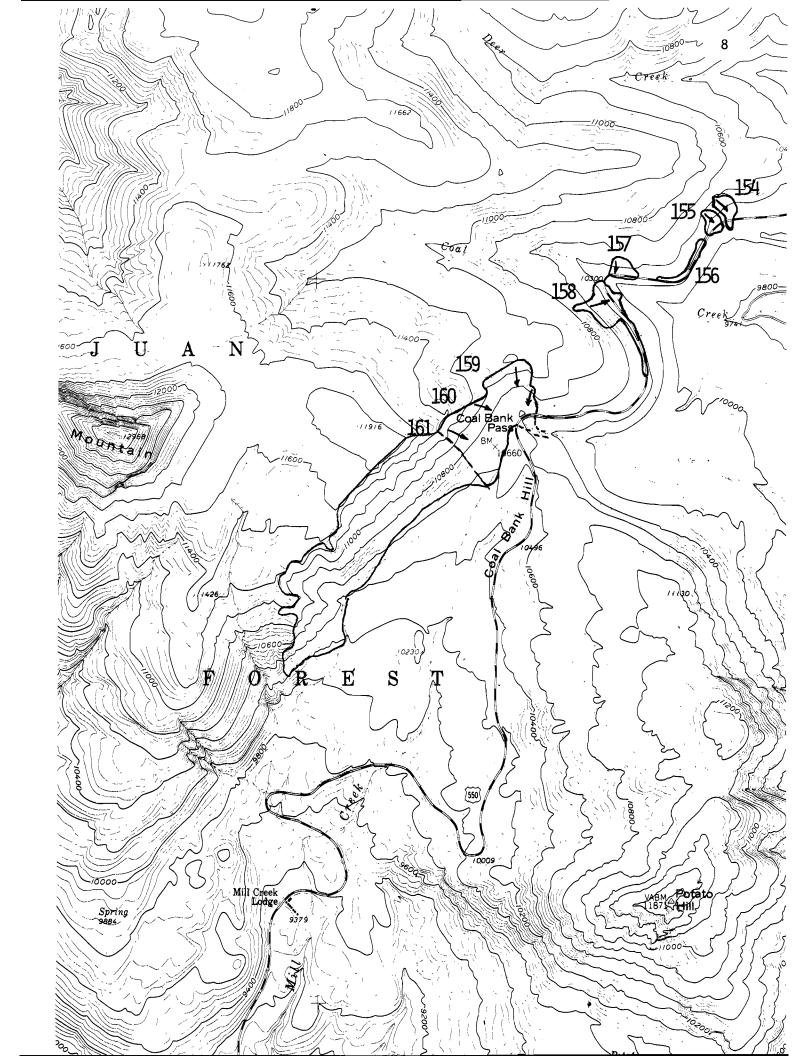


#### SECTION V

Molas Pass to Coal Bank Pass
U.S. Highway 550

Avalanche paths: 152147 - 152161





| PATH NAME ('s):                  | Waterfall   |            |      |          |        |        | •        |
|----------------------------------|---|------------|------|----------|--------|--------|----------|
| Path Reference N                 | umber: 15   | 2147       | Zon  | ne:I     |        | Area:  | 5        |
| Map Number:                      | 7 Photo   | ograph Nu  | mber | 32,3     | 3,35   |        |          |
| SPECIFICATIONS: Top Elev.: 10800 | Bottom  | Elev.: _   | 990  | 00' Ve   | rtical | Fall:  | 900'     |
| Length of Path:                  | 1581' Nu  | umber of   | Star | ting Zo  | nes: _ | 2      |          |
|                                  | arting Zone   |            |      | Track    |        | Rune   | out Zone |
| Slope Angle                      | 47°   |            |      | 30°      |        |        | 0        |
| Area Acres                       |   | Mean Wid   | th   | 50'      | Area   | Acres_ | .25      |
|                                  |   | Lengt      | h    | 1389'    |        |        |          |
| Tree Line                        | В   |            |      | В        |        | _      | В        |
| TERRAIN AND VEGE                 | TATION COVER  | \ <b>:</b> |      |          |        |        |          |
| Starting Zone:                   | Open slope,   | brush, ta  | 11 ; | grass an | d tal  | us     |          |
| Track: Shallow of portion: talus | _   |            | orti | on: mod  | erate  | aspen; | lower    |
| Runout Zone: Bro                 | oad open slo  | pe, talus  | 3    |          |        |        |          |
| III. e                           | rossed highw<br>vents: 3<br>ighway: 3<br>ull-track: | ay: 2<br>2 |      |          |        |        |          |

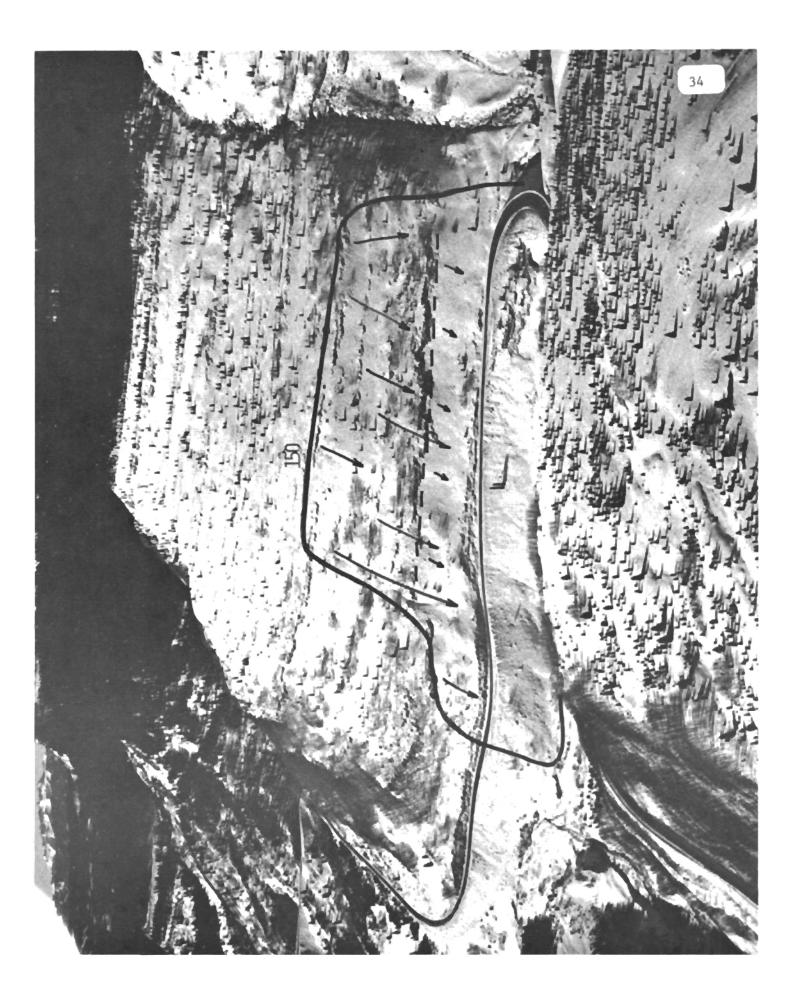
| PATH NAME ('s):   | Springs                                |               |                 |          |         |          |
|---|--|---------------|-----------------|----------|---------|----------|
| Path Reference N  | umber: <u>1521</u>                     | 48 Zoi        | ne:I            | <u> </u> | Area: _ | 5        |
| Map Number: 7   | Photo                                  | ograph Number | r: <u>32,33</u> | 3,35     |         |          |
| SPECIFICATIONS:   |  |               |                 |          |         |          |
| Top Elev.: 1060   | 0' Bottom                              | Elev.: 9900   | Ven             | rtical   | Fall:   | 700'     |
| Length of Path:   | 1389' Nt                               | mber of Sta   | rting Zor       | nes: _   | 1       | -        |
| St  | arting Zone                            |               | Track           |          | Runo    | out Zone |
| Slope Angle   | 39°                                    |               |                 |          | _       | 0        |
| Area Acres  | 1                                      | Mean Width    | 50'             | Area     | Acres_  | .25      |
|   |  | Length        | 1253'           |          |         |          |
| Tree Line   | В                                      |               | <u>B</u>        |          | _       | В        |
| TERRAIN AND VEGE  | TATION COVE                            | R:            |                 |          |         |          |
| Starting Zone: 0  | pen bow1-sha                           | ped depressi  | on, talu        | s and    | grass   |          |
| Track: Shallow depression, moderate small aspen and grass |  |               |                 |          |         |          |
| Runout Zone: Broad open slope, talus                      |  |               |                 |          |         |          |
| HISTORY: II. crossed highway: 1                           |  |               |                 |          |         |          |
| 1   | events: 5<br>highway: 2<br>full-track: | 3             |                 |          |         |          |



| PATH NAME ('s):     | ast Lime Creek                                 |                    |              |
|---------------------|--|--------------------|--------------|
| Path Reference Numb | er: <u>152149</u> Zo                           | ne: I Area         | :5           |
| Map Number: 7       | _ Photograph Numbe                             | r: <u>32,33,35</u> |              |
| SPECIFICATIONS:     |  |                    |              |
| Top Elev.:          | Bottom Elev.: 970                              | 00' Vertical Fal   | 1:600'       |
| Length of Path: 11  | 66' Number of Sta                              | rting Zones: Multi | ple          |
| Start               | ing Zone                                       | <u>Track</u> R     | inout Zone   |
| Slope Angle 5       | 0°   | 34°                | 45°          |
| Area Acres 1        | 4 Mean Width                                   | 1600' Area Acres   | 5            |
|                     | Length   | 361                |              |
| Tree Line B         |  | В                  | В            |
| TERRAIN AND VEGETAT | TION COVER:                                    |                    |              |
|                     | oad open slope, bench<br>ight aspen, talus and |                    | w rock bands |
| _                   | slope, benches inclu<br>alus, moderate aspen,  |                    |              |
| Runout Zone: Broad  | open slope, talus                              |                    |              |
| III. eve<br>hig     | ssed highway: 8<br>nts: 15<br>hway: 8          |                    |              |
| ful:                | l-track: 4                                     |                    |              |



| PATH NAME ('s): West Lime Creek      |                          |                    |               |  |  |
|--------------------------------------|--------------------------|--------------------|---------------|--|--|
| Path Reference N                     | umber:152150Zo           | ne:I               | Area:5        |  |  |
| Map Number:7                         | Photograph Numbe         | r: <u>33,34,35</u> |               |  |  |
|                                      |                          |                    |               |  |  |
| SPECIFICATIONS:                      | 001                      | 201                | 7001          |  |  |
| Top Elev.:                           | 00' Bottom Elev.: 970    | 00' Vertica        | 1 Fall:       |  |  |
| Length of Path:                      | 1389' Number of Sta      | rting Zones:       | 2             |  |  |
| St                                   | arting Zone              | Track              | Runout Zone   |  |  |
| Slope Angle                          | 31°                      | 30°                |               |  |  |
| Area Acres                           | 16 Mean Width            | 2200' Area         | Acres11       |  |  |
|                                      | Length                   | 943'               |               |  |  |
| Tree Line                            | В                        | <u>B</u>           | В             |  |  |
| TERRAIN AND VEGE                     | TATION COVER:            |                    |               |  |  |
|                                      | Broad open slope, benche | _                  |               |  |  |
| and cliffs, ver                      | y light aspen, coniferou | is, talus and      | grass         |  |  |
| Track: Broad op                      | en slope, benches includ | ling narrow r      | ock bands and |  |  |
| cliffs, very li                      | ght aspen, coniferous    | talus and gra      | ass           |  |  |
|                                      |                          |                    |               |  |  |
| Runout Zone: Broad open slope, talus |                          |                    |               |  |  |
|                                      |                          |                    |               |  |  |
| DIETODY. II o                        | rossed highway: 11       |                    |               |  |  |
|                                      | - ,                      |                    |               |  |  |
|                                      | vents: 23<br>ighway: 5   |                    |               |  |  |
|                                      | ull-track: 6             |                    |               |  |  |
|                                      |                          |                    |               |  |  |



| PATH NAME ('s):                   | Gobblers Knob                       |               |                  |           |          |
|-----------------------------------|-------------------------------------|---------------|------------------|-----------|----------|
| Path Reference                    | Number: 152151                      | Zone: _       | 1                | Area:     | 5        |
| Map Number:                       | 7 Photogra                          | ph Number:    | 32,33,34         |           |          |
| SPECIFICATIONS:                   |                                     |               |                  |           |          |
| Top Elev.: 1030                   | Bottom Ele                          | v.: 9700'     | Vertica          | 1 Fall: _ | 6001     |
| Length of Path:                   | 1253' Number                        | r of Starting | Zones:           | Multipl   | e        |
| <u>S</u> :                        | tarting Zone                        | Trac          | <u>k</u>         | Runou     | it Zone  |
| Slope Angle                       | 45°                                 | 270           | )<br><del></del> | :         | 220      |
| Area Acres                        | 10 Mean                             | n Width 200   | 00' Area         | Acres_8   |          |
|                                   | 1                                   | Length 44     | ·7 <b>'</b>      |           |          |
| Tree Line                         | В                                   | В             | _                |           | В        |
| TERRAIN AND VEG                   | ETATION COVER:                      |               |                  |           |          |
| Starting Zone:<br>light aspen and | Broad open slope<br>coniferous      | topped by cl  | iff band         | with tal  | us below |
| Track: Broad op                   | en slope, talus                     |               |                  |           |          |
| Runout Zone: B<br>and willows bel | road open slope,<br>ow              | talus with m  | oderate          | coniferou | s, grass |
| HISTORY: III.                     | events: 24 highway: 0 full-track: 2 |               |                  |           |          |



| PATH NAME ('s): Deer Creek North   |  |  |  |  |  |
|--|--|--|--|--|--|
| Path Reference Number: 152152 Zone: I Area: 4  |  |  |  |  |  |
| Map Number: 7 Photograph Number: 36  |  |  |  |  |  |
| SPECIFICATIONS:  Top Elev.: 9920' Bottom Elev.: 9840' Vertical Fall: 80'  Length of Path: 128' Number of Starting Zones: 1 |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |
| Slope Angle 45° 0  |  |  |  |  |  |
| Area Acres 1.6 Mean Width 400' Area Acres .12  |  |  |  |  |  |
| Length 100'  |  |  |  |  |  |
| Tree Line B B  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER: Starting Zone: Broad open slope, exposed boulders, bedrock and bare ground                   |  |  |  |  |  |
| Track: Broad open slope, exposed boulders, bedrock and bare ground   |  |  |  |  |  |
| Runout Zone: Broad open slope, exposed boulders, bedrock and bare ground   |  |  |  |  |  |
| HISTORY: III. events: 2 highway: 0 full-track: 0   |  |  |  |  |  |

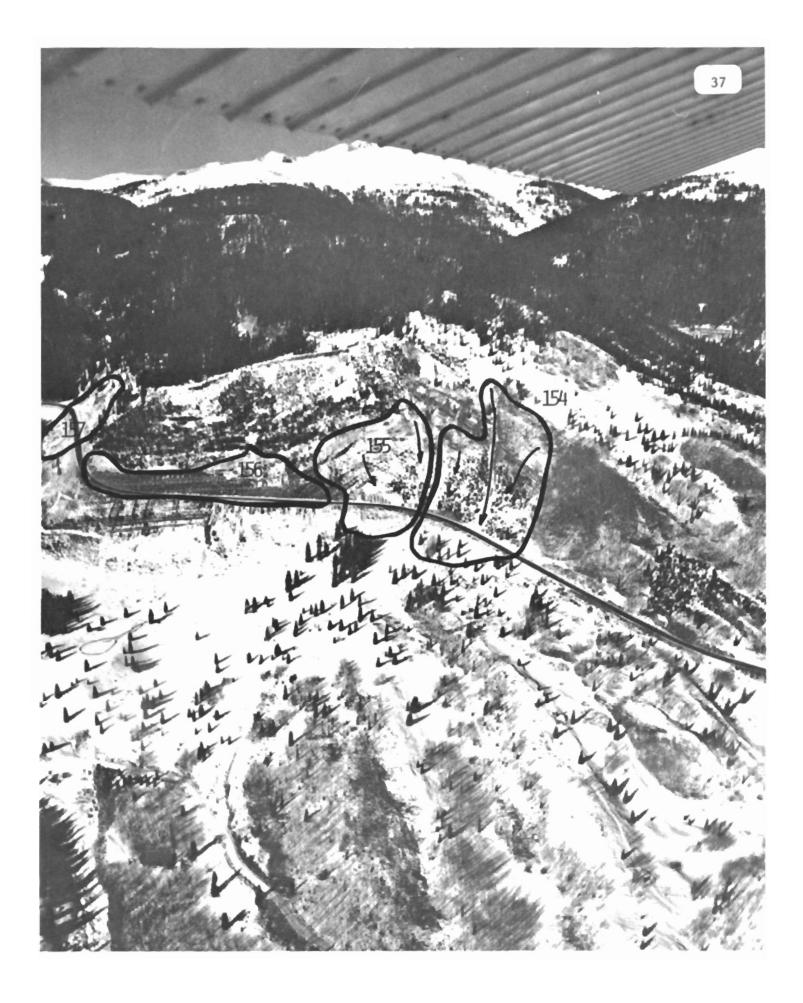
| PATH NAME ('s): Deer Creek South  |  |             |              |               |          |
|---|--|-------------|--------------|---------------|----------|
| Path Reference N  | umber: 15215                           | 53 Zo       | ne: <u>I</u> | Area: _       | 4        |
| Map Number: 7   | Photo                                  | graph Numbe | r: <u>36</u> |               |          |
| SPECIFICATIONS:   |  |             |              |               |          |
| Top Elev.: 10160  | Bottom                                 | Elev.: 9890 | Ver          | tical Fall:   | 270'     |
| Length of Path:   | 525' Nu                                | mber of Sta | rting Zor    | nes:2         |          |
| St  | arting Zone                            |             | Track        | Runo          | ut Zone  |
| Slope Angle   | _22°                                   |             | 34°          | _2            | 2°       |
| Area Acres  | 2.5                                    | Mean Width  | 1200         | Area Acres    | 6        |
|   |  | Length      | 361          |               |          |
| Tree Line   | В                                      |             | B            |               | <u>B</u> |
| TERRAIN AND VEGE<br>Starting Zone:<br>coniferous, ligh                          | Broad open b                           | ow1-shaped  | depressio    | on, talus, mo | derate   |
| Track: Broad open depression, talus, moderate coniferous, light aspen and grass |  |             |              |               |          |
| Runout Zone: B  | ed of Deer Cr                          | reek        |              |               |          |
|   | events: 8<br>highway: 2<br>full-track: | 2           |              |               |          |



| PATH NAME ('s)                                  | : Swamp                                 |                     |                 |               |          |
|---|---|---------------------|-----------------|---------------|----------|
| Path Reference                                  | Number: <u>152</u>                      | 154 Zoi             | ne: <u>I</u>    | Area:         | 3        |
| Map Number:                                     | 7,8 Photo                               | graph Numbe         | r: <u>36,37</u> | <u>7 ,</u> 38 |          |
| SPECIFICATIONS:                                 | :                                       |                     |                 |               |          |
| Top Elev.: 1060                                 | 00' Bottom                              | Elev.: <u>101</u> 0 | 00' Vert        | tical Fall:   | 500'     |
| Length of Path                                  | : <u>860'</u> Nu                        | mber of Star        | rting Zone      | es: <u>3</u>  |          |
| <u> </u>  | Starting Zone                           |                     | Track           | Run           | out Zone |
| Slope Angle                                     | _39°                                    |                     | 39°             | _             | 9°       |
| Area Acres                                      | 3.5                                     | Mean Width          | 400             | Area Acres_   | 7        |
|   |   | Length              | 325             |               |          |
| Tree Line                                       | B                                       |                     | B               |               | В        |
| TERRAIN AND VEO                                 | GETATIÓN COVER                          | :                   |                 |               |          |
| Starting Zone:<br>center, modera                | -                                       | -                   |                 |               |          |
| Track: Broad o<br>midtrack rockb<br>bare ground |   |                     |                 |               |          |
| Runout Zone:                                    | Broad open slo                          | pe, moderat         | e small co      | oniferous a   | nd grass |
| HISTORY: II.                                    | crossed highw                           | yay: 17             |                 |               |          |
| III.  | events: 12<br>highway: 1<br>full-track: | 1                   |                 |               |          |

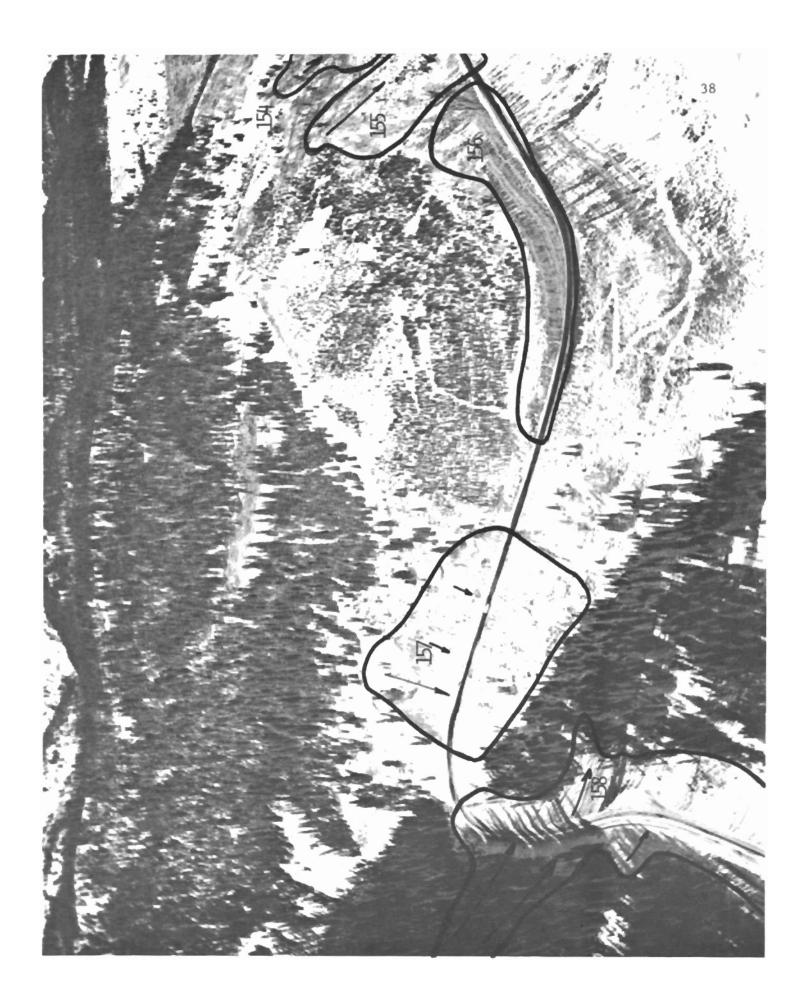
| PATH NAME ('s): Henry Brown   |   |                     |                  |  |  |
|---|---|---------------------|------------------|--|--|
| Path Reference N  | Number: 152155 Zo                           | one:I Area:         | 3                |  |  |
| Map Number:7  | ,8 Photograph Numbe                         | er: <u>36-38</u>    |                  |  |  |
| CRECTET CARTONS.  |   |                     |                  |  |  |
| SPECIFICATIONS:   | D' Bottom Elev.: 1010                       | 00' Vertical Fall   | . 300'           |  |  |
|   | 670' Number of Sta                          |                     |                  |  |  |
|   |   |                     |                  |  |  |
|   | carting Zone                                |                     | mout Zone        |  |  |
| Slope Angle   | 270   |                     | 16°              |  |  |
| Area Acres  | 1 Mean Width                                | 200' Area Acres     | 34               |  |  |
|   | Length                                      | 621'                |                  |  |  |
| Tree Line   | В   | В                   | B                |  |  |
| TERRAIN AND VEGE  | TATION COVER:                               |                     |                  |  |  |
|   | road open slope with sha<br>aspen and grass | allow depression to | the north, light |  |  |
| Track: Broad open slope with shallow depression to the north, exposed bedrock and talus, light small coniferous and grass |   |                     |                  |  |  |
| Runout Zone: Broad open slope, talus, bare ground and grass   |   |                     |                  |  |  |
| HISTORY: II. crossed highway: 4  III. events: 24 highway: 10 full-track: 8  |   |                     |                  |  |  |

| PATH NAME ('s):   | Coal Bank   |                  |                   |  |  |
|---|---|------------------|-------------------|--|--|
| Path Reference N  | Number: <u>152156</u> Zo                          | ne: <u>I</u> A   | rea:3             |  |  |
| Map Number: _7,8  | Photograph Numbe                                  | r: <u>37,38</u>  |                   |  |  |
| SPECIFICATIONS:   |   |                  |                   |  |  |
| Top Elev.: 10280  | D' Bottom Elev.: 1020                             | O' Vertical      | Fa11:80'          |  |  |
| Length of Path:   | 128' Number of Sta                                | rting Zones:     | <u>Multipl</u> e  |  |  |
| St  | carting Zone                                      | Track            | Runout Zone       |  |  |
| Slope Angle   |   |                  | 0                 |  |  |
| Area Acres  | 4 Mean Width                                      | Area A           | cres_1            |  |  |
|   | Length  |                  |                   |  |  |
| Tree Line   | В   | B                | В                 |  |  |
| TERRAIN AND VEGE  | ETATION COVER:                                    |                  |                   |  |  |
|   | Broad bowl-shaped depres<br>grass and bare ground | ssion, exposed b | edrock and talus, |  |  |
| Track: Broad bowl-shaped depression, exposed bedrock bands, grass and bare ground |   |                  |                   |  |  |
| Runout Zone: Brobelow   | oad open slope, talus, b                          | eare ground with | willows and grass |  |  |
| HISTORY: II.  | crossed highway: 19                               |                  |                   |  |  |
| III.  | events: 1 highway: 0 full-track: 1                |                  |                   |  |  |



| PATH NAME ('s): Coal Creek East  |
|--|
| Path Reference Number: 152157 Zone: I Area: 2                                |
| Map Number: 8 Photograph Number: 37,38                                       |
| SPECIFICATIONS:  |
| Top Elev.: 10500' Bottom Elev.: 10300' Vertical Fall: 120'                   |
| Length of Path: 156' Number of Starting Zones: 4                             |
| Starting Zone Track Runout Zone  |
| Slope Angle 54° 0  |
| Area Acres 2 Mean Width Area Acres4  |
| Length   |
| Tree Line  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Shallow depression, light coniferous, grass and bare ground   |
|  |
| Track: Broad open slope, exposed bedrock, boulders, road cut and bare ground |
|  |
| Durant Zana . Proper open alone houldone brush and have around               |
| Runout Zone: Broad open slope, boulders, brush and bare ground               |
|  |
| HISTORY: II. (157 and 158) crossed highway: 11                               |
| <pre>III. events: 7   highway: 1   full-track: 1</pre>                       |

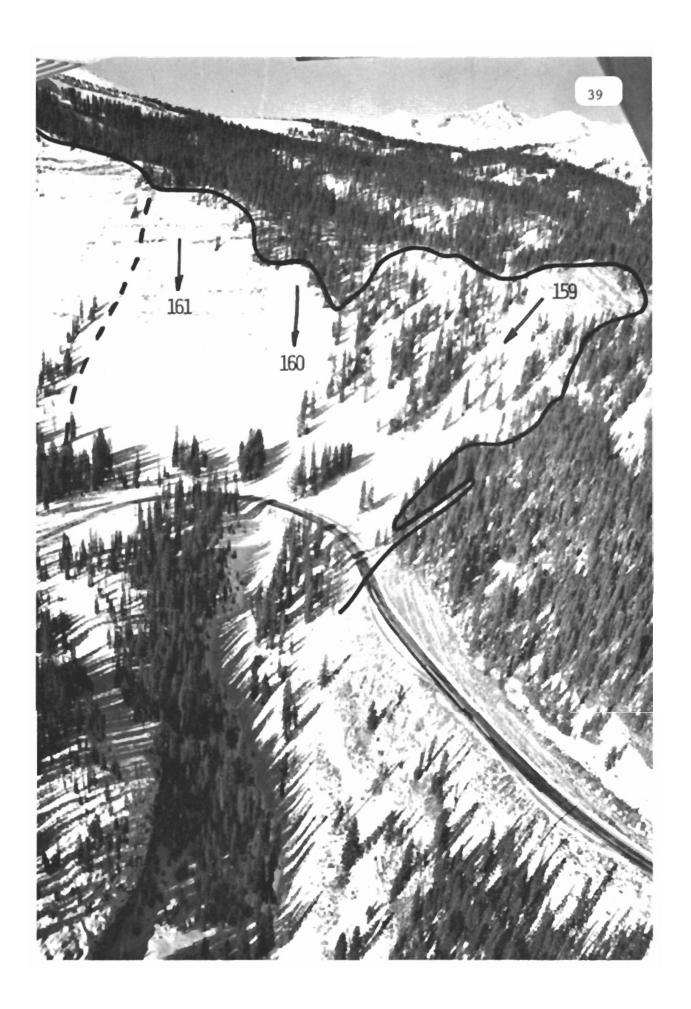
| PATH NAME ('s): Coal Creek West   |   |              |           |                     |          |
|---|---|--------------|-----------|---------------------|----------|
| Path Reference  | Number: <u>15215</u>                    | 8 Zor        | ne:       | <u> </u>            | 2_       |
| Map Number:   | 8 Photo                                 | graph Numbei | 38        |                     |          |
| SPECIFICATIONS:   |   |              |           |                     |          |
| Top Elev.: 1076   | O' Bottom                               | Elev.:1030   | 00' Ver   | tical Fall:         | 460'     |
| Length of Path:   | 1011' Nu                                | mber of Stan | rting Zon | es: <u>Multiple</u> |          |
| <u>s</u>  | tarting Zone                            |              | Track     | Runo                | ut Zone  |
| Slope Angle   |   |              |           | _                   | 39°      |
| Area Acres  |   | Mean Width   | 100'      | Area Acres          | 2        |
|   |   | Length       | 762'      |                     |          |
| Tree Line   | В                                       |              | В         |                     | В        |
| TERRAIN AND VEG   | ETATION COVER                           | :            |           |                     |          |
| Starting Zone:<br>moderate conife   | -                                       |              | ed verti  | cal bands of        | bedrock, |
| Track: Broad open slope, exposed vertical bands of bedrock, light coniferous, grass and bare ground |   |              |           |                     |          |
| Runout Zone: Broad open slope, heavy coniferous and grass   |   |              |           |                     |          |
| HISTORY: II.  | (157 and 158)<br>crossed highw          |              |           |                     |          |
| III.  | events: 10<br>highway: 2<br>full-track: | 5            |           |                     |          |



| PATH NAME ('s): Engineer Mtn. A  |
|--|
| Path Reference Number: 152159 Zone: I Area: 1                              |
| Map Number: 8 Photograph Number: 39  |
| SPECIFICATIONS:  |
| Top Elev.:11200' Bottom Elev.: _10600' Vertical Fall:600'                  |
| Length of Path: 1342' Number of Starting Zones: 5                          |
| Starting Zone Track Runout Zone  |
| Slope Angle 45° 34° 18°  |
| Area Acres 4.5 Mean Width 500' Area Acres 6                                |
| Length 361'  |
| Tree Line <u>B</u> <u>B</u> <u>B</u>                                       |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Broad open slope, exposed rock bands, grass and bare ground |
|  |
| Track: Broad open slope, few exposed boulders, light coniferous and grass  |
|  |
|  |
| Runout Zone: Broad v-shaped depression, light boulders and grass           |
|  |
| HISTORY: II. (Engineer Mt.) crossed highway: 7                             |
| III. events: 24  |
| highway: 0 full-track: 6   |

| PATH NAME ('s): Engineer Mtn. B                         |   |               |              |           |              |
|---|---|---------------|--------------|-----------|--------------|
| Path Reference  | Number: <u>1521</u>                     | 60 Zor        | ne: <u>I</u> | _ Area:   | 1            |
| Map Number:8  | Photo                                   | ograph Number | : _39        |           |              |
| SPECIFICATIONS:   |   |               |              |           |              |
| Top Elev.: 1120   | 00' Bottom                              | Elev.:10      | 600' Verti   | cal Fall: | 600'         |
| Length of Path:   |   | umber of Stan | ting Zones   | :2        |              |
| <u>s</u>  | tarting Zone                            |               | Track        | Run       | out Zone     |
| Slope Angle   | 53°                                     |               | 5°           | _         | 14°          |
| Area Acres  | 1                                       | Mean Width    | _100' Ar     | ea Acres_ | 2            |
|   |   | Length        | 283'         |           |              |
| Tree Line   | B                                       |               | В            | _         | B            |
| TERRAIN AND VEG<br>Starting Zone:<br>bands, cliffs,     | Broad open s                            |               | allow depre  | ssions, e | exposed rock |
| Track: Broad open slope with shallow depressions, grass |   |               |              |           |              |
| Runout Zone: Br   | oad open slo                            | pe, light bo  | ulders, gra  | ss with m | oderate      |
| HISTORY: II.  | (Engineer Mt crossed high               |               |              |           |              |
| III.  | events: 32<br>highway: 0<br>full-track: | 11            |              |           |              |

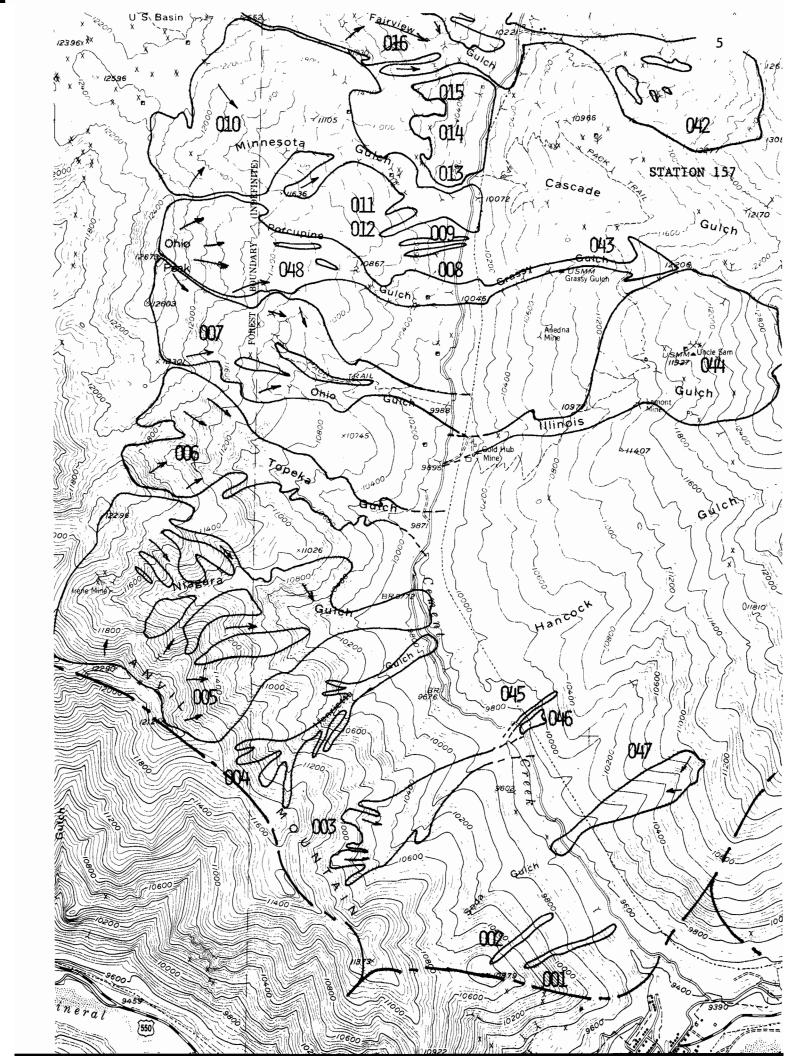
| PATH NAME ('s):                  | Engineer Mtn. C                      |                   |                         |
|----------------------------------|--------------------------------------|-------------------|-------------------------|
| Path Reference                   | Number: <u>152161</u>                | Zone:             | <u>I</u> Area: <u>1</u> |
| Map Number:                      | 8 Photograph Numb                    | er: <u>39</u>     |                         |
| SPECIFICATIONS:                  |                                      |                   |                         |
| Top Elev.: 1140                  | 00' Bottom Elev.:                    | <u>10600'</u> Ver | tical Fall: <u>800'</u> |
| Length of Path:                  | 1878' Number of St                   | tarting Zon       | nes:2                   |
| <u>s</u>                         | tarting Zone                         | Track             | Runout Zone             |
| Slope Angle                      | 53°                                  | _58°              | 27°                     |
| Area Acres                       | 1.5 Mean Width                       | 100'              | Area Acres 1            |
|                                  | Length                               | 472'              |                         |
| Tree Line                        | B                                    | B                 | В                       |
| TERRAIN AND VEG                  | ETATION COVER:                       |                   |                         |
| Starting Zone:<br>bands, cliffs, | Broad open slope with grass          | shallow dep       | pressions, exposed rock |
| Track: Broad of bands and grass  | open slope with shallow<br>s         | depression        | ns, exposed rock        |
| Runout Zone: Br                  | road open slope, light o             | boulders, g       | grass with moderate     |
| HISTORY: II.                     | (Engineer Mt.) crossed highway: 7    |                   |                         |
| III.                             | events: 24 highway: 0 full-track: 10 |                   |                         |



#### SECTION VI

Cement Creek Colorado Highway 110

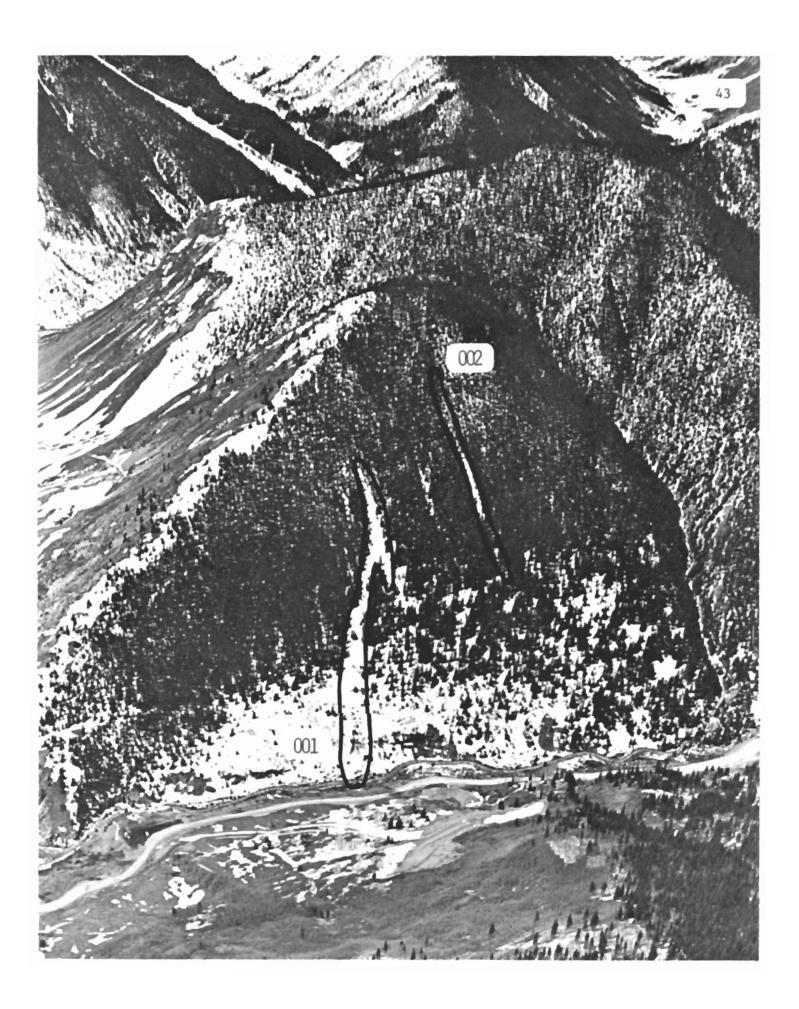
Avalanche paths: 157001 - 157049





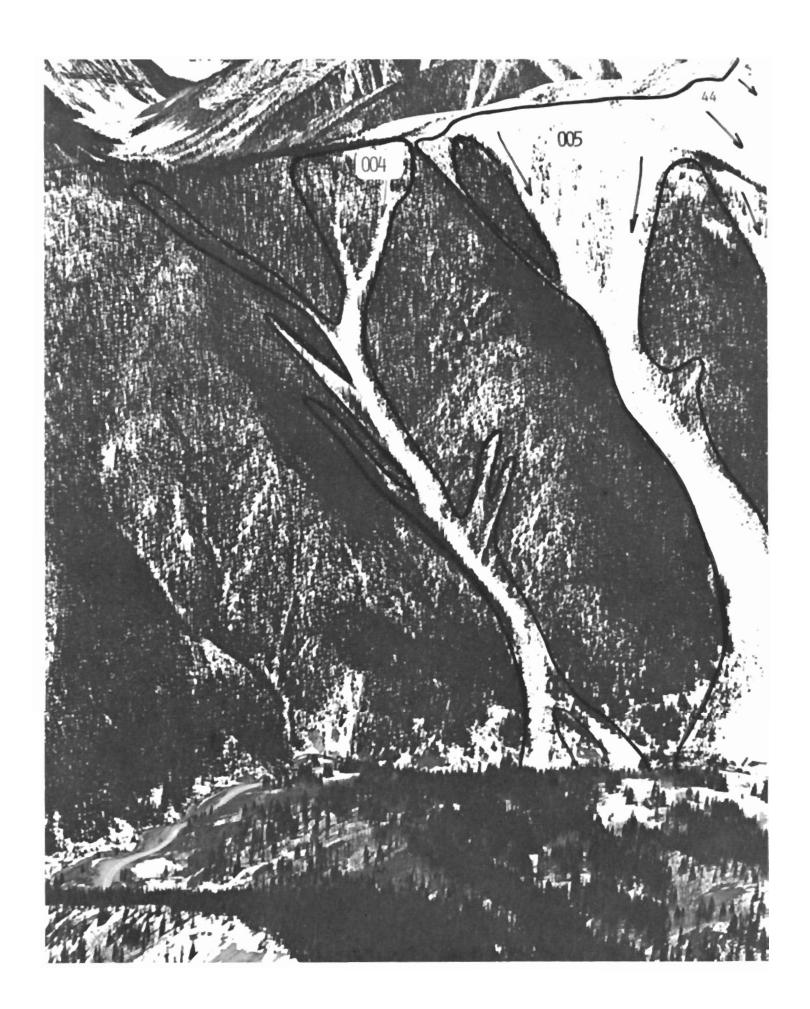
| PATH NAME ('s): Pt. 10899   |  |  |  |  |  |
|---|--|--|--|--|--|
| Path Reference Number: 157001 Zone: V Area: 1                       |  |  |  |  |  |
| Map Number:5 Photograph Number:43                                   |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |
| Top Elev.: 10400 Bottom Elev.: 9440 Vertical Fall: 9439             |  |  |  |  |  |
| Length of Path: 2178 Number of Starting Zones: 1                    |  |  |  |  |  |
| Starting Zone Track Runout Zone                                     |  |  |  |  |  |
| Slope Angle 45° 31° 16°   |  |  |  |  |  |
| Area Acres 1 Mean Width 100° Area Acres 3                           |  |  |  |  |  |
| Length 1167°  |  |  |  |  |  |
| Tree Line B B B   |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                                       |  |  |  |  |  |
| Starting Zone: Narrow depression, small rock outcrops and grass     |  |  |  |  |  |
|   |  |  |  |  |  |
| Track: Narrow shallow depression, light aspen and grass             |  |  |  |  |  |
|   |  |  |  |  |  |
| Runout Zone: Broad open slope, light coniferous and aspen and grass |  |  |  |  |  |
|   |  |  |  |  |  |
| HISTORY:  |  |  |  |  |  |

| PATH NAME ('s):   | Scotch   |          |        |              |          |             |  |
|---|--|----------|--------|--------------|----------|-------------|--|
| Path Reference N  | lumber: 157  | 7002     | Zon    | ne: V        | Are      | a: <u>1</u> |  |
| Map Number: 5   | Pho  | tograph  | Numbe  | r: <u>43</u> |          |             |  |
| SPECIFICATIONS: Top Elev.: 108  | SPECIFICATIONS:  Top Elev.: 10800' Bottom Elev.: 9840' Vertical Fall: 960' |          |        |              |          |             |  |
| Length of Path:   | 1739°  | Number   | of Sta | rting Zo     | nes: 1   |             |  |
| St  | arting Zon   | <u>e</u> |        | Track        |          | Runout Zone |  |
| Slope Angle   | 45°  |          |        | 31°          |          | 22°         |  |
| Area Acres  |  | Mean     | Width  | 100          | Area Acr | es3         |  |
|   |  | Le       | ngth   | 1167         |          |             |  |
| Tree Line   | B  |          |        | B            |          | B           |  |
| TERRAIN AND VEGE  | TATION COV   | ER:      |        |              |          |             |  |
| Starting Zone: Narrow shallow gulley with medium to heavy coniferous and grass. |  |          |        |              |          |             |  |
| Track: narrow shallow gulley with grass.  |  |          |        |              |          |             |  |
| Runout Zone: Medium to heavy timber.  |  |          |        |              |          |             |  |
| HISTORY:  |  |          |        |              |          |             |  |

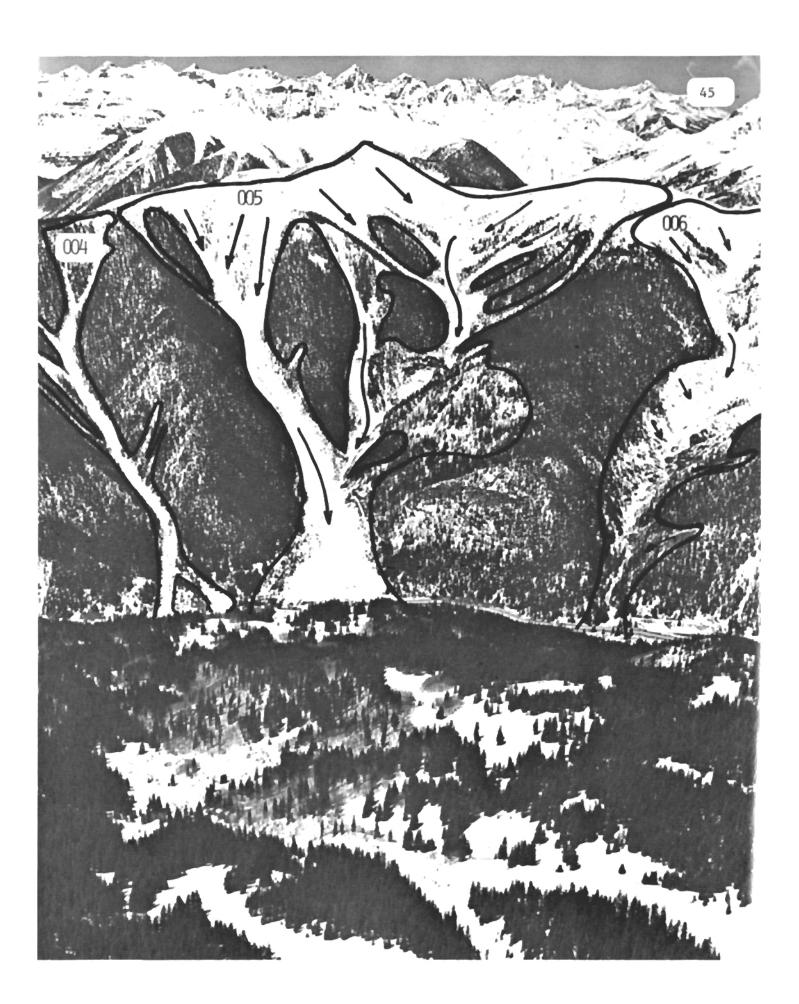


| PATH NAME ('s): Bend   |  |  |  |  |  |
|--|--|--|--|--|--|
| Path Reference Number: 157003 Zone: V Area: 1  |  |  |  |  |  |
| Map Number: 5 Photograph Number:   |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |
| Top Elev.: 11000° Bottom Elev.: 9600° Vertical Fall: 1400°   |  |  |  |  |  |
| Length of Path: 4546° Number of Starting Zones: 7  |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |
| Slope Angle 30° 20° 13°  |  |  |  |  |  |
| Area Acres 8 Mean Width 200 Area Acres 10  |  |  |  |  |  |
| Length <u>2660</u> °   |  |  |  |  |  |
| Tree Line <u>B</u> <u>B</u> <u>B</u>   |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |
| Starting Zone: Broad v-shaped basin, moderate to heavy coniferous, north portion: bare ground and rock |  |  |  |  |  |
| Track: V-shaped depression, moderate coniferous  |  |  |  |  |  |
| Runout Zone: Open slope, moderate coniferous and grass   |  |  |  |  |  |
| HISTORY:   |  |  |  |  |  |

| PATH NAME ('s): Henrietta Gulch   |  |                    |               |               |           |  |  |
|---|--|--------------------|---------------|---------------|-----------|--|--|
| Path Reference N  | lumber: <u>157</u>                     | 004 Zo             | ne:           | V Area        | 1         |  |  |
| Map Number: 5   | Map Number: 5 Photograph Number: 44,45 |                    |               |               |           |  |  |
| SPECIFICATIONS:   |  |                    |               |               |           |  |  |
| Top Elev.: 1160   | O Bottom                               | Elev.: <u>9700</u> | • Ver         | rtical Fall   | 1900°     |  |  |
| Length of Path:   | 4955° No                               | umber of Sta       | rting Zor     | nes: <u>8</u> |           |  |  |
| St  | arting Zone                            |                    | Track         | Ru            | nout Zone |  |  |
| Slope Angle   | _34°                                   |                    | 23°           |               | _13°      |  |  |
| Area Acres  | 8                                      | Mean Width         | 100           | Area Acres    | 10        |  |  |
|   |  | Length             | 3259 <b>'</b> |               |           |  |  |
| Tree Line   | B                                      |                    | B             |               | B         |  |  |
| TERRAIN AND VEGE  | TATIÓN COVER                           | ₹:                 |               |               |           |  |  |
| Starting Zone: Broad v-shaped basin, heavy coniferous; small light coniferous and grass in lightly vegetated side gullies |  |                    |               |               |           |  |  |
| Track: Narrows  | to v-shaped                            | gully, small       | light co      | oniferous a   | and grass |  |  |
| Runout Zone: Br<br>and grass  | oad open slo                           | pe, moderate       | to heav       | y coniferou   | is, aspen |  |  |
| HISTORY: III.   | events: 1<br>highway: 0<br>full-track: |                    |               |               |           |  |  |



| PATH NAME ('s): Irene   |                                     |                  |                    |                         |  |
|---|-------------------------------------|------------------|--------------------|-------------------------|--|
| Path Reference N  | Number:15                           | 700 <u>5</u> Zor | ne: V              | Area: 2                 |  |
| Map Number: 5   | Photo                               | ograph Number    | r: <u>44,45</u> ,4 | 6                       |  |
| SPECIFICATIONS:   |                                     |                  |                    |                         |  |
| Top Elev.: 1240   | O' Bottom                           | Elev.: 980       | O' Vertica         | 1 Fall:                 |  |
| Length of Path:   | 6641 Nu                             | mber of Star     | rting Zones:       | Multiple                |  |
| St  | tarting Zone                        |                  | Track              | Runout Zone             |  |
| Slope Angle   | _39°                                |                  | 25°                | 11°                     |  |
| Area Acres  | 50                                  | Mean Width       | 400 • Area         | Acres 45                |  |
|   |                                     | Length           | <u>3761 •</u>      |                         |  |
| Tree Line   | A                                   |                  | B                  | <u>B</u>                |  |
| TERRAIN AND VEGE  | ETATION COVER                       | R:               |                    |                         |  |
| Starting Zone: Broad basin with v-shaped depression, light to moderate large and small coniferous, rock outcrops, grass and bare ground |                                     |                  |                    |                         |  |
| Track: Narrows to v-shaped gully, light small coniferous, grass and bare ground   |                                     |                  |                    |                         |  |
| Runout Zone: Broad open slope, light coniferous and grass   |                                     |                  |                    |                         |  |
|   |                                     |                  | fatality by        | an avalanche in<br>Mine |  |
| h   | vents: 6<br>ighway: 0<br>ull-track: | 0                |                    |                         |  |

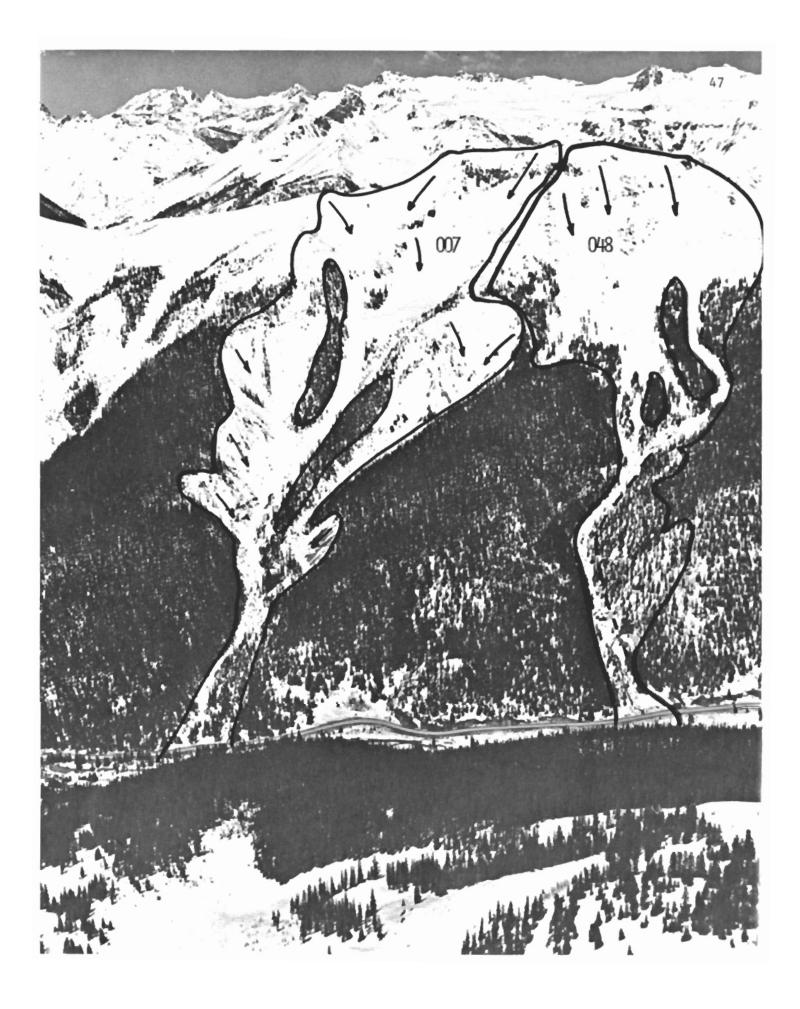


| PATH NAME ('s):  | PATH NAME ('s): Topeka Gulch |           |             |                 |            |         |
|--|------------------------------|-----------|-------------|-----------------|------------|---------|
| Path Reference N   | umber: 1570                  | 006       | Zone:       |                 | _ Area: _  | 2       |
| Map Number: 5  | Phot                         | ograph Nu | umber:      | 45,46           |            |         |
| SPECIFICATIONS:  |                              |           |             |                 |            |         |
| Top Elev.: 12000   | Bottom                       | Elev.:    | 9900*       | _ Vertic        | cal Fall:  | 2100    |
| Length of Path:  | 6638° N                      | umber of  | Starti      | ng Zones        | Multiple   | -       |
| St   | arting Zone                  |           | Tr          | ack             | Runo       | ut Zone |
| Slope Angle  | 39°                          |           |             | 17 <sup>0</sup> |            | 11°     |
| Area Acres   | 45<br>———                    | Mean Wi   | dth 2       | 00' Are         | ea Acres_2 | 4       |
|  |                              | Leng      | th <u>4</u> | 1 58 °          |            |         |
| Tree Line  | A                            |           |             | В               |            | В       |
| TERRAIN AND VEGE   | TATION COVE                  | R:        |             |                 |            |         |
| Starting Zone: E   | road open b                  | asin, ro  | ck outc     | rops and        | grass      |         |
|  |                              |           |             |                 |            |         |
| Track: Narrows to depression with small light coniferous, small rock outcrops, grass and bare ground |                              |           |             |                 |            |         |
| Runout Zone: Heavy coniferous and aspen  |                              |           |             |                 |            |         |
| HISTORY:   |                              |           |             |                 |            |         |



| PATH NAME ('s): Ohio Gulch  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Path Reference Number: 157007 Zone: V Area: 2   |  |  |  |  |  |  |
| Map Number: 5 Photograph Number: 46,47  |  |  |  |  |  |  |
| SPECIFICATIONS: Top Elev.: 12600° Bottom Elev.: 9980° Vertical Fall: 2620° Length of Path: 7762° Number of Starting Zones: Multiple |  |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |  |
| Slope Angle 43° 23° 9°  |  |  |  |  |  |  |
| Area Acres 48 Mean Width 200 Area Acres 36  |  |  |  |  |  |  |
| Length <u>4780</u>  |  |  |  |  |  |  |
| Tree Line A B B   |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |  |
| Starting Zone: Broad open knoll, large rock outcrops, light small coniferous  |  |  |  |  |  |  |
| Track: V-shaped gully, bare ground  |  |  |  |  |  |  |
| Runout Zone: Broad open slope, heavy coniferous   |  |  |  |  |  |  |
| HISTORY:  |  |  |  |  |  |  |

| PATH NAME ('s): Porcupine Gulch   |                      |               |              |                   |                 |  |  |
|---|----------------------|---------------|--------------|-------------------|-----------------|--|--|
| Path Reference N  | lumber: <u>157</u> 0 | 048 <b>zo</b> | ne:V         | Area:             | 2               |  |  |
| Map Number:5  | Photo                | graph Numbe   | r: <u>47</u> |                   |                 |  |  |
| SPECIFICATIONS:   | SPECIFICATIONS:      |               |              |                   |                 |  |  |
| Top Elev.: <u>1260</u>  | O' Bottom            | Elev.: 100    | 50 Ver       | tical Fall        | : <u>2550 •</u> |  |  |
| Length of Path:   | 6690' Nu             | mber of Sta   | rting Zon    | es: <u>Multir</u> | ole             |  |  |
| St  | arting Zone          |               | Track        | Rus               | nout Zone       |  |  |
| Slope Angle   | 45°                  |               | 20°          | -                 | 14°             |  |  |
| Area Acres  | 18                   | Mean Width    | 2001         | Area Acres        | 15              |  |  |
|   |                      | Length        | 4257°        |                   |                 |  |  |
| Tree Line   | A                    |               | В            |                   | B               |  |  |
| TERRAIN AND VEGE  | TATION COVER         | :             |              |                   |                 |  |  |
| Starting Zone: talus.   | Open slope,          | numerous gu   | llies, ro    | ck outcrop        | s, and          |  |  |
| Track: V-gulley, two bends with rock outcrops, light coniferous, willows and grass. |                      |               |              |                   |                 |  |  |
| Runout Zone: Nar<br>creek then up adv   |                      | us slope wi   | th grass.    | Crosses h         | ighway,         |  |  |
| HISTORY:  |                      |               |              |                   |                 |  |  |



| PATH NAME ('s): Red Point South                                       |                                 |                |             |  |  |
|---|---------------------------------|----------------|-------------|--|--|
| Path Reference Numb   | er: <u>157008</u> Zo            | ne:V A         | rea:3       |  |  |
| Map Number:5  | _ Photograph Numbe              | r: <u>48</u>   |             |  |  |
| SPECIFICATIONS:   |                                 |                |             |  |  |
| Top Elev.: 11000'   | Bottom Elev.: 1000              | 00' Vertical   | Fal1:1000*  |  |  |
| Length of Path: 1   | Number of Sta                   | rting Zones:1_ |             |  |  |
| Start   | ing Zone                        | Track          | Runout Zone |  |  |
| Slope Angle 39  | <del></del>                     | <u>34°</u>     | 11°         |  |  |
| Area Acres 1  | Mean Width                      | Area A         | cres_2      |  |  |
|   | Length                          | 724            |             |  |  |
| Tree Line B   |                                 | B              | В           |  |  |
| TERRAIN AND VEGETAT   | ION COVER:                      |                |             |  |  |
| Starting Zone: Narr   | ow path, light small            | coniferous and | grass       |  |  |
| Track: Narrow path, light small coniferous and grass                  |                                 |                |             |  |  |
| Runout Zone: Cone-shaped fan, light coniferous, grass and bare ground |                                 |                |             |  |  |
| _   | nts: 1<br>nway: 1<br>n-track: 1 |                |             |  |  |

| PATH NAME ('s):  | Red Pos                          | int North   |                   |             |          |
|--|----------------------------------|-------------|-------------------|-------------|----------|
| Path Reference M   | Number:1570                      | 009 Zo      | ne:V              | Area:       | 3        |
| Map Number:  | Photo                            | graph Numbe | r: <u>48</u>      |             |          |
| SPECIFICATIONS: Top Elev.: 1100 Length of Path:  |                                  | <del></del> |                   |             | 1000'    |
| St   | arting Zone                      |             | Track             | Run         | out Zone |
| Slope Angle  | 34°                              |             | 3 <sup>44</sup> ° | _           | 11°      |
| Area Acres   |                                  | Mean Width  | 50'               | Area Acres_ | 2        |
|  |                                  | Length      | 724°              |             |          |
| Tree Line  | B                                |             | B                 |             | B        |
| TERRAIN AND VEGETATION COVER: Starting Zone: Narrow path, light small coniferous and grass |                                  |             |                   |             |          |
| Track: Narrow path, light small coniferous and grass                                       |                                  |             |                   |             |          |
| Runout Zone: Broad open slope, grass and bare ground                                       |                                  |             |                   |             |          |
| HISTORY: III.  | events: 1 highway: 0 full-track: | 0           |                   |             |          |

| PATH NAME ('s):   | Minnesota Gulch                    |                         |             |  |
|---|------------------------------------|-------------------------|-------------|--|
| Path Reference N  | Tumber: 157010 Zon                 | ne: V Are               | a:3         |  |
| Map Number:   | 5, 6 Photograph Number             | r: <u>48</u>            |             |  |
| SPECIFICATIONS:   |                                    |                         |             |  |
| Top Elev.: 1240   | 00° Bottom Elev.: 100              | 000 Vertical Fa         | 11:2400 •   |  |
| Length of Path:   | 7434' Number of Star               | rting Zones: <u>Mul</u> | tiple       |  |
| St  | arting Zone                        | Track                   | Runout Zone |  |
| Slope Angle   | _34°                               | _19°                    | 18°         |  |
| Area Acres  | 80 Mean Width                      | 200 Area Acr            | es_40_      |  |
|   | Length                             | <u>4336'</u>            |             |  |
| Tree Line   | A                                  | <u>B</u>                | <u>B</u>    |  |
| TERRAIN AND VEGE  | TATION COVER:                      |                         |             |  |
| Starting Zone: Broad open basin with several depressions, rock outcrops and grass |                                    |                         |             |  |
| Track: V-shaped gully, rock, moderate coniferous and bare ground                  |                                    |                         |             |  |
| Runout Zone: Bro  | oad fan, light small con           | iferous and grass       |             |  |
| HISTORY: III.   | events: 3 highway: 0 full-track: 0 |                         |             |  |

| (1 ) Minneapolia   |  |  |  |  |
|--|--|--|--|--|
| PATH NAME ('s): Minneapolis                                  |  |  |  |  |
| Path Reference Number: 157011 Zone: V Area: 3                |  |  |  |  |
| Map Number: 5 Photograph Number: 48                          |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |
| Top Elev.: 11000' Bottom Elev.: 10000' Vertical Fall: 1000'  |  |  |  |  |
| Length of Path: 11700 Number of Starting Zones: 2            |  |  |  |  |
| Starting Zone Track Runout Zone                              |  |  |  |  |
| Slope Angle <u>45°</u> <u>34°</u> <u>18°</u>                 |  |  |  |  |
| Area Acres 1 Mean Width 50 Area Acres 2                      |  |  |  |  |
| Length <u>362</u>  |  |  |  |  |
| Tree Line <u>B</u> <u>B</u>                                  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                                |  |  |  |  |
| Starting Zone: Narrow depression, moderate coniferous        |  |  |  |  |
|  |  |  |  |  |
| Track: Narrow depression, moderate coniferous                |  |  |  |  |
|  |  |  |  |  |
| Runout Zone: Open slope, moderate small coniferous and grass |  |  |  |  |
|  |  |  |  |  |
| HISTORY:   |  |  |  |  |

| PATH NAME ('s): St                            | . Paul       |         |                |               |               |
|---|--------------|---------|----------------|---------------|---------------|
| Path Reference Number                         | : 157012     | Zoi     | ne: <u>V</u>   | Area:         | 3             |
| Map Number: 5                                 | Photograp    | h Numbe | r: <u>48</u>   |               |               |
| SPECIFICATIONS:                               |              |         |                |               |               |
| Top Elev.: 11200'                             | Bottom Elev  | .: 1000 | 00 <b>¹</b> Ve | rtical Fall:  | 1200 <b>'</b> |
| Length of Path: 1305                          | Number       | of Star | rting Zo       | nes: 2        |               |
| Starti  | ig Zone      |         | Track          | Run           | out Zone      |
| Slope Angle 39°                               | _            |         | _34°           | _             | 18°           |
| Area Acres 1                                  | Mean         | Width   | 50 •           | Area Acres_   | 2             |
|   | L            | ength   | 603'           |               |               |
| Tree Line B                                   | _            |         | B              | _             | В             |
| TERRAIN AND VEGETATIO                         | ON COVER:    |         |                |               |               |
| Starting Zone: Narro                          | w depression | , moder | ate coni       | ferous        |               |
|   |              |         |                |               |               |
| Track: Narrow depression, moderate coniferous |              |         |                |               |               |
|   |              |         |                |               |               |
|   |              |         |                |               |               |
| Runout Zone: Open sl                          | ope, moderat | e small | conifer        | ous and grass | S             |
|   |              |         |                |               |               |
| HISTORY:                                      |              |         |                |               |               |

| PATH NAME ('s): Bad Number   |  |  |  |  |
|--|--|--|--|--|
| Path Reference Number: 157013 Zone: V Area: 3                                  |  |  |  |  |
| Map Number: 5,6 Photograph Number: 48  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |
| Top Elev.: 10800° Bottom Elev.: 10000° Vertical Fall: 800°                     |  |  |  |  |
| Length of Path: 1242 Number of Starting Zones: 2                               |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |
| Slope Angle 45° 39° 18°  |  |  |  |  |
| Area Acres 1 Mean Width 200' Area Acres 5                                      |  |  |  |  |
| Length 643°  |  |  |  |  |
| Tree Line B B  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |
| Starting Zone: Open slope, cliffs, rock outcrops, light to moderate coniferous |  |  |  |  |
| Track: Open slope, light coniferous, talus and grass                           |  |  |  |  |
| Runout Zone: Broad open slope, light small coniferous                          |  |  |  |  |
| HISTORY: III. events: 1 highway: 0 full-track: 0                               |  |  |  |  |

| PATH NAME ('s): Eire  |   |
|---|---|
| Path Reference Number: 157014 Zone: V Area: 3   |   |
| Map Number: 5,6 Photograph Number: 48   |   |
| SPECIFICATIONS:  Top Elev.: 11400 Bottom Elev.: 10100 Vertical Fall: 1300 Length of Path: 1841 Number of Starting Zones: Multiple             | - |
|   |   |
| Starting Zone Track Runout Zone   |   |
| Slope Angle $45^{\circ}$ $41^{\circ}$ $18^{\circ}$  |   |
| Area Acres 2 Mean Width 200 Area Acres 10   |   |
| Length 928  |   |
| Tree Line B B   |   |
| TERRAIN AND VEGETATION COVER:   |   |
| Starting Zone: South portion: open slope with moderate coniferous a rock outcrops; north portion: broad gully, rock outcrops, willows a grass |   |
| Track: Broad depression, willows and grass  |   |
| Runout Zone: Broad fan, grass   |   |
| HISTORY: III. events: 2 highway: 1 full-track: 1  |   |

| PATH NAME ('s): Michigan  |  |  |  |  |
|---|--|--|--|--|
| Path Reference Number: 157015 Zone: V Area: 3   |  |  |  |  |
| Map Number: 6,7 Photograph Number: 48   |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |
| Top Elev.: 11200 Bottom Elev.: 10100 Vertical Fall: 1100  |  |  |  |  |
| Length of Path: 2041 Number of Starting Zones: Multiple   |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |
| Slope Angle <u>45°</u> <u>37°</u> <u>18°</u>  |  |  |  |  |
| Area Acres 2 Mean Width 300° Area Acres 15  |  |  |  |  |
| Length <u>1127</u>  |  |  |  |  |
| Tree Line B B B   |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |
| Starting Zone: Open slope broken by large rock outcrops and cliffs, light coniferous and grass $% \left( 1\right) =\left( 1\right) +\left( $ |  |  |  |  |
| Track: Shallow gully, rock outcrops and scree in upper portion; lower portion: willows, light small coniferous  |  |  |  |  |
| Runout Zone: Broad fan, light coniferous and bare ground  |  |  |  |  |
| HISTORY: III. events: 2 highway: 1 full-track: 1  |  |  |  |  |

| PATH NAME ('s   | ): Fairview                        |                        |                 |  |
|---|------------------------------------|------------------------|-----------------|--|
| Path Reference  | e Number: 157016                   | Zone: V                | Area:3          |  |
| Map Number:5,6 Photograph Number:48,49  |                                    |                        |                 |  |
| SPECIFICATION   | S:                                 |                        |                 |  |
| Top Elev.: <u>12</u>  | Bottom Elev                        | .: <u>10100</u> Vertic | cal Fall: 2500' |  |
| Length of Pat   | h: <u>5018</u> Number              | of Starting Zones:     | Multiple        |  |
|   | Starting Zone                      | Track                  | Runout Zone     |  |
| Slope Angle   | _39°                               | 25 <sup>o</sup>        | <u> 16°</u>     |  |
| Area Acres  | 42 Mean                            | Width 300 Are          | ea Acres 36     |  |
|   | L                                  | ength <u>2869</u>      |                 |  |
| Tree Line   | A                                  | B                      | B               |  |
| TERRAIN AND V   | EGETATION COVER:                   |                        |                 |  |
| Starting Zone: South portion: broad depression, small rock outcrops and grass; north portion: broad basin, large rock outcrops, cliffs, talus and grass                   |                                    |                        |                 |  |
| Track: South portion: broad shallow depression, small rock outcrops and grass; north portion: broad v-shaped gully, large rock outcrops, light small coniferous and grass |                                    |                        |                 |  |
| Runout Zone:  | Broad fan with seve                | eral depressions, gr   | rass            |  |
|   | 1929, took out power               | er poles across High   | nway 110        |  |
| 111.  | events: 5 highway: 0 full-track: 5 |                        |                 |  |



| PATH NAME ('s): Beatles  |
|--|
| Path Reference Number: 157017 Zone: V Area: 3                                  |
| Map Number: 6 Photograph Number: 49  |
| SPECIFICATIONS:  |
| Top Elev.: 11000 Bottom Elev.: 10100 Vertical Fall: 900                        |
| Length of Path: 1587' Number of Starting Zones: 6                              |
| Starting Zone Track Runout Zone  |
| Slope Angle 34° 31° 14°  |
| Area Acres 1 Mean Width 100° Area Acres 2                                      |
| Length 933   |
| Tree Line B B B  |
| TERRAIN AND VEGETATION COVER:  |
| Starting Zone: Broad open slope, large rock outcrops, cliffs, light coniferous |
| Track: Open slope with light small coniferous, scree and willows               |
| Runout Zone: Broad open slope with light small coniferous, scree and willows   |
| HISTORY: III. events: 3 highway: 0 full-track: 2                               |

| PATH NAME ('s): Stones  |
|---|
| Path Reference Number: 157018 Zone: V Area: 3                                     |
| Map Number: 6 Photograph Number: 49   |
| SPECIFICATIONS:   |
| Top Elev.: 11500' Bottom Elev.: 10100' Vertical Fall: 1400'                       |
| Length of Path: 1442 Number of Starting Zones: Multiple                           |
| Starting Zone Track Runout Zone   |
| Slope Angle 39° 14°   |
| Area Acres 2 Mean Width 200 Area Acres 5  |
| Length 901'   |
| Tree Line B B B   |
| TERRAIN AND VEGETATION COVER:   |
| Starting Zone: Broad open slope, large rock outcrops and cliffs, light coniferous |
| Track: Open slope with light small coniferous, scree and willows                  |
| Runout Zone: Broad open slope with light small coniferous, scree and willows      |
| HISTORY: III. events: 3 highway: 0 full-track: 2                                  |

| PATH NAME ('s): Who   |  |  |  |  |
|---|--|--|--|--|
| Path Reference Number: 157019 Zone: V Area: 3               |  |  |  |  |
| Map Number: 6 Photograph Number: 49                         |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |
| Top Elev.: 11500' Bottom Elev.: 10200' Vertical Fall: 1300' |  |  |  |  |
| Length of Path: 2704 Number of Starting Zones: Multiple     |  |  |  |  |
| Starting Zone Track Runout Zone                             |  |  |  |  |
| Slope Angle 34° 14°   |  |  |  |  |
| Area Acres 6 Mean Width 200° Area Acres 12                  |  |  |  |  |
| Length 1809   |  |  |  |  |
| Tree Line <u>B</u> <u>B</u>                                 |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                               |  |  |  |  |
| Starting Zone: Open slope, light coniferous and grass       |  |  |  |  |
| Track: Shallow depression, light small coniferous and grass |  |  |  |  |
| Runout Zone: Broad open slope, light grass and bare ground  |  |  |  |  |
| HISTORY: III. events: 2 highway: 0 full-track: 2            |  |  |  |  |

| PATH NAME ('s):   | Creme                                 |                       |                 |
|-------------------|---------------------------------------|-----------------------|-----------------|
| Path Reference Nu | umber: <u>157020</u> Zo               | one: V Area           | a: <u>3</u>     |
| Map Number:6      | Photograph Number                     | er: <u>49</u>         |                 |
| SPECIFICATIONS:   |                                       |                       |                 |
| Top Elev.: 11000  | Bottom Elev.: 102                     | 00° Vertical Fal      | l1: <u>800'</u> |
| Length of Path:   | 1080 Number of Sta                    | erting Zones: _3_     |                 |
| Sta               | arting Zone                           | <u>Track</u> <u>H</u> | Runout Zone     |
| Slope Angle       | 30°                                   | 27°                   | 14°             |
| Area Acres _      | 5 Mean Width                          | 200' Area Acre        | es <u>5</u>     |
|                   | Length                                | 449                   |                 |
| Tree Line _       | В                                     | B                     | <u>B</u>        |
| TERRAIN AND VEGET | TATION COVER:                         |                       |                 |
| Starting Zone: V  | -shaped depression, lig               | ght small coniferou   | s and grass     |
| Track: V-shaped   | shallow depression, sma               | all rocks and grass   | 3               |
| Runout Zone: Bro  | ad open slope, moderate               | e coniferous and gr   | ass             |
|                   | vents: 3<br>ighway: 0<br>ull-track: 2 |                       |                 |

| PATH NAME ('s): Georgia Gulch  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Path Reference Number: 157021 Zone: V Area: 3  |  |  |  |  |  |  |
| Map Number: 6 Photograph Number: 49  |  |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |  |
| Top Elev.: 12800 Bottom Elev.: 10200 Vertical Fall: 2600   |  |  |  |  |  |  |
| Length of Path: 6911 Number of Starting Zones: Multiple  |  |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |  |
| Slope Angle 39° 20° 14°  |  |  |  |  |  |  |
| Area Acres 75 Mean Width 200 Area Acres 25   |  |  |  |  |  |  |
| Length <u>3512</u>   |  |  |  |  |  |  |
| Tree Line B B  |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |  |
| Starting Zone: Broad shallow v-shaped depression, large rock outcrops and grass  |  |  |  |  |  |  |
| Track: Upper portion: broad open slope with incised gullies, rock outcrops and light coniferous; lower portion: broad v-shaped depression, grass and bare ground |  |  |  |  |  |  |
| Runout Zone: Broad open fan, grass   |  |  |  |  |  |  |
| HISTORY: I. February, 1886, nearly all cabins in Georgia Gulch destroyed   |  |  |  |  |  |  |
| <pre>III. events: 2    highway: 0    full-track: 0</pre>   |  |  |  |  |  |  |

| PATH NAME ('s): Stu | ımp                   |                   |                   |
|---------------------|-----------------------|-------------------|-------------------|
| Path Reference Numb | oer: <u>157022</u> Zo | ne: V Are         | a: <u>3</u>       |
| Map Number:6        | Photograph Numbe      | r: <u>49</u>      |                   |
|                     |                       |                   |                   |
| SPECIFICATIONS:     |                       | •                 |                   |
| Top Elev.: 11200'   | Bottom Elev.: 102     | 00' Vertical Fa   | .11: 1000'        |
| Length of Path: 114 | Number of Sta         | rting Zones: 2    |                   |
| Start               | ing Zone              | Track             | Runout Zone       |
| Slope Angle 3       | <u>, o</u>            | _30°              | 22°               |
| Area Acres          | Mean Width            | 300' Area Acr     | es_ <u>5</u>      |
|                     | Length                | 462               |                   |
| Tree Line           | В                     | B                 | B                 |
| TERRAIN AND VEGETAT | CIÓN COVER:           |                   |                   |
| Starting Zone: Sha  | llow v-shaped depress | ion, moderate con | iferous and grass |
|                     |                       |                   |                   |
| Track: Shallow v-si | haped depression, mod | lerate coniferous | and grass         |
|                     |                       |                   |                   |
|                     |                       |                   |                   |
| Runout Zone: Broad  | d cone-shaped fan, li | ght coniferous an | d grass           |
|                     |                       |                   |                   |
| HICTORY, TIT        | 1                     |                   |                   |
|                     | hway: 0               |                   |                   |
| ful:                | l-track: 0            |                   |                   |

| PATH NAME ('s): Prospect Gulch  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Path Reference Number: 157023 Zone: V Area: 3   |  |  |  |  |  |  |
| Map Number: 6 Photograph Number: 49   |  |  |  |  |  |  |
| SPECIFICATIONS:  Top Elev.: 11600' Bottom Elev.: 10600' Vertical Fall: 1000'  Length of Path: 2396' Number of Starting Zones: 2 |  |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |  |
| Slope Angle 45° 34° 9° adv.   |  |  |  |  |  |  |
| Area Acres 5 Mean Width 100° Area Acres 8   |  |  |  |  |  |  |
| Length 1689°  |  |  |  |  |  |  |
| Tree Line A B B   |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER: Starting Zone: Shallow depression, moderate to heavy coniferous                                   |  |  |  |  |  |  |
| Track: Narrow shallow depression, moderate small coniferous and grass   |  |  |  |  |  |  |
| Runout Zone: Open slope, light small coniferous and bare ground   |  |  |  |  |  |  |
| HISTORY: I. February 1884 and January 1886, Mineral King Mine damaged February 1893, Galena Queen Mine damaged                  |  |  |  |  |  |  |

| PATH NAME ('s): Black Jack   |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| Path Reference Number: 157024 Zone: y Area: 3                              |  |  |  |  |  |  |  |
| Map Number: 6 Photograph Number: 49  |  |  |  |  |  |  |  |
| SPECIFICATIONS:  |  |  |  |  |  |  |  |
| Top Elev.: 12200° Bottom Elev.: 10800° Vertical Fall: 1400°                |  |  |  |  |  |  |  |
| Length of Path: 2349 Number of Starting Zones: 4                           |  |  |  |  |  |  |  |
| Starting Zone Track Runout Zone  |  |  |  |  |  |  |  |
| Slope Angle 45° 24° 9° adv.  |  |  |  |  |  |  |  |
| Area Acres 12 Mean Width 150 Area Acres 6                                  |  |  |  |  |  |  |  |
| Length 1642°   |  |  |  |  |  |  |  |
| Tree Line <u>A</u> <u>B</u> <u>B</u>                                       |  |  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:  |  |  |  |  |  |  |  |
| Starting Zone: Open slope with shallow depression, rock outcrops and grass |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Track: Open slope with shallow depression, rock outcrops and grass         |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Runout Zone: Open slope, light small coniferous and bare ground            |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| HISTORY:   |  |  |  |  |  |  |  |



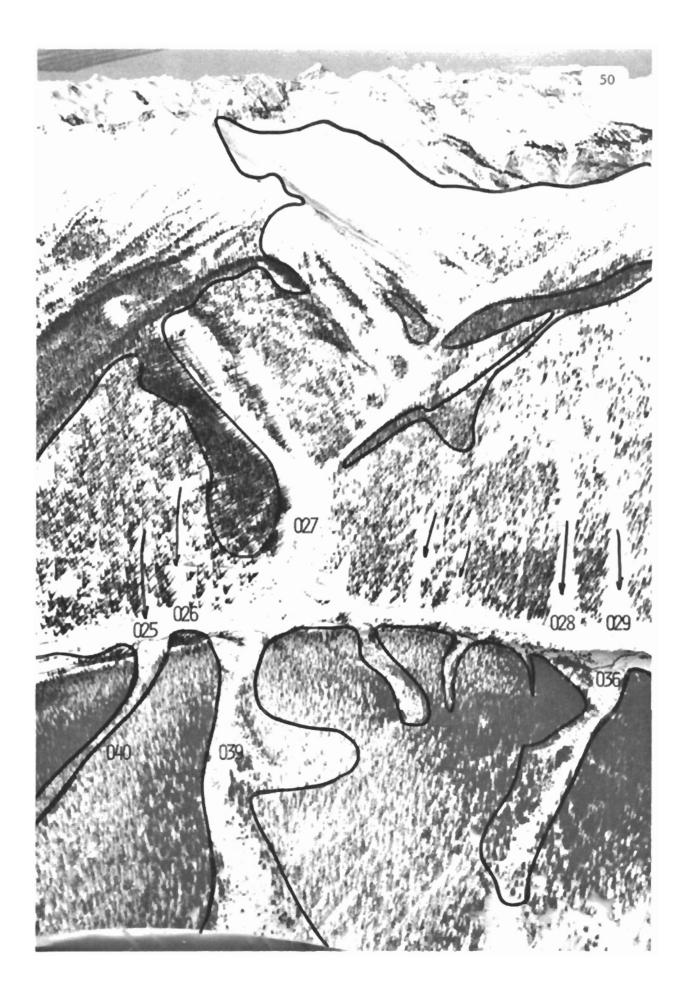
| PATH NAME ('s):        | Dump South     |                   |              |                      |
|------------------------|----------------|-------------------|--------------|----------------------|
| Path Reference         | Number: 15702  | 25 Zo             | ne:          | Area:4               |
| Map Number:6           | Photo          | graph Numbe       | r: <u>50</u> |                      |
| SPECIFICATIONS:        |                |                   |              |                      |
| Top Elev.: <u>11</u> 4 | 00 Bottom      | Elev.: <u>103</u> | 00' Vertic   | al Fall: <u>1100</u> |
| Length of Path:        | 1550 Nur       | mber of Sta       | rting Zones: | _3                   |
| <u>s</u>               | tarting Zone   |                   | Track        | Runout Zone          |
| Slope Angle            | _39°           |                   | _34°_        | _15°                 |
| Area Acres             | <u>.5</u> 1    | Mean Width        | 100° Are     | ea Acres_1           |
|                        |                | Length            | 1086         |                      |
| Tree Line              | B              |                   | B            | В                    |
| TERRAIN AND VEG        | ETATION COVER  | :                 |              |                      |
| Starting Zone:         | Shallow depre  | ession, mode      | erate conife | ous and grass        |
| Track: Shallo          | w depression,  | light small       | . coniferous | and grass            |
| Runout Zone: (         | Open fan, smal | 1 rocks and       | l grass      |                      |
| HISTORY: III.          | highway: 0     | 1                 |              |                      |

| PATH NAME ('s):               | Dump North                       |               |              |            |           |
|-------------------------------|----------------------------------|---------------|--------------|------------|-----------|
| Path Reference N              | Number: <u>157</u>               | 026 Zoi       | ne: <u>V</u> | Area: _    | 4         |
| Map Number: 6                 | Photo                            | ograph Number | r:50         |            |           |
| SPECIFICATIONS:               |                                  |               |              |            |           |
| Top Elev.: <u>11400</u>       | Bottom                           | Elev.: 1030   | 00' Vertica  | al Fall: _ | 1100      |
| Length of Path:               | 1533 Nu                          | mber of Sta   | rting Zones: |            |           |
| St                            | arting Zone                      |               | Track        | Runou      | it Zone   |
| Slope Angle                   | 39°                              |               | 34°          |            | 15°       |
| Area Acres                    | •5                               | Mean Width    | 200 Are      | a Acres    | 1         |
|                               |                                  | Length        | 965"         |            |           |
| Tree Line                     |                                  |               | <u>B</u>     |            | <u>B</u>  |
| TERRAIN AND VEGE              | ETATION COVER                    | R:            |              |            |           |
| Starting Zone: S              | hallow depre                     | ssion, moder  | ate small as | pen and gr | rass      |
|                               |                                  |               |              |            |           |
| Track: Shallow lower portion; |                                  |               |              |            | niferous; |
| Runout Zone: ta               | lus cone                         |               |              |            |           |
| HISTORY: III.                 | events: 1 highway: 0 full-track: |               |              |            |           |

| PATH NAME ('s):         | Dry Gulch North                                 |                   |                     |
|-------------------------|---|-------------------|---------------------|
| Path Reference          | Number: <u>157027</u> Z                         | one: V            | lrea:4              |
| Map Number:6            | Photograph Numb                                 | er: <u>50</u>     |                     |
|                         | 00' Bottom Elev.: 104                           |                   |                     |
| Length of Path:         | 7959 Number of St                               | arting Zones:     | 17                  |
| St                      | tarting Zone                                    | Track             | Runout Zone         |
| Slope Angle             | _34°  | _16°              | 11°                 |
| Area Acres              | Mean Width                                      | Area A            | cres 18             |
|                         | Length  | <u>5930 °</u>     |                     |
| Tree Line               | A   | B                 | B                   |
| TERRAIN AND VEG         | ETATIÓN COVER:                                  |                   |                     |
|                         | Broad open slopes above epressions with light o |                   |                     |
| Track: V-shaped         | gully, light small cor                          | aiferous, grass a | and bare ground     |
| Runout Zone: I<br>grass | ncised broad fan, light                         | small coniferou   | is, small rocks and |
|                         | events: 4<br>highway: 1<br>full-track: 3        |                   |                     |

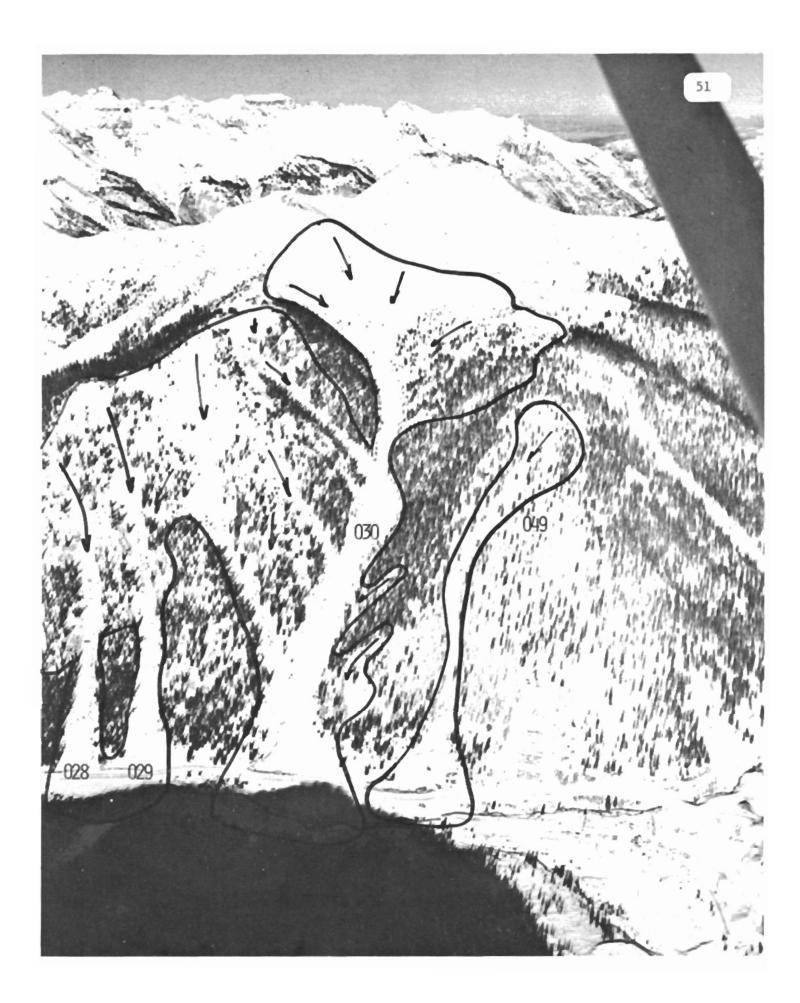
| PATH NAME ('s): West 3 | Jump A                   |               |                  |
|------------------------|--------------------------|---------------|------------------|
| Path Reference Number: | <u>157028</u> <b>z</b> o | ne: V         | Area:5           |
| Map Number: 6          | Photograph Numbe         | r: <u>50</u>  |                  |
|                        |                          |               |                  |
| SPECIFICATIONS:        |                          | O! Vontion    | 1 200            |
| Top Elev.: 11600 B     |                          |               |                  |
| Length of Path: 1976   | Number of Sta            | rting Zones:  | 4                |
| Starting               | Zone                     | <u>Track</u>  | Runout Zone      |
| Slope Angle 340        |                          | 34°           | 11°              |
| Area Acres 2           | Mean Width               | 100° Area     | Acres_3_         |
|                        | Length                   | <u>1206'</u>  |                  |
| Tree LineB             | -                        | B             | B                |
| TERRAIN AND VEGETATION | COVER:                   |               |                  |
| Starting Zone: Open sl | ope, moderate con        | iferous and g | rass             |
|                        |                          |               |                  |
| Track: Shallow depres  | ssion, grass, will       | ows and light | small coniferous |
|                        |                          |               |                  |
|                        |                          |               |                  |
| Runout Zone: Open far  | , small rocks and        | grass         |                  |
|                        |                          |               |                  |
| HISTORY: II. crossed   | l highway: 2             |               |                  |
| III. events:           | 2                        |               |                  |
| highway<br>full-tr     | <b>7:</b> 1              |               |                  |
| IdII-ti                | ack. Z                   |               |                  |

| PATH NAME ('s):   | West Jump B                        |                 |                        |            |          |                 |
|---|------------------------------------|-----------------|------------------------|------------|----------|-----------------|
| Path Reference 1  | Number: <u>15702</u>               | 9 Zo            | ne:                    | V          | Area:    | 5               |
| Map Number: 6   | Photogr                            | aph Numbe       | r:50                   | 0.51       |          |                 |
| SPECIFICATIONS:   |                                    |                 |                        |            |          |                 |
| Top Elev.: 1160   | O' Bóttom El                       | ev.: <u>104</u> | 100 V                  | ertical    | Fall:    | 1200            |
| Length of Path:   |                                    | er of Sta       | rting Z                | ones: _    | 3        |                 |
| St  | arting Zone                        |                 | <u>Track</u>           |            | Runo     | ut Zone         |
| Slope Angle   | _34°                               |                 | _34°                   | -          |          | 11 <sup>0</sup> |
| Area Acres  | Me                                 | an Width        | _1 <i>5</i> 0 <b>'</b> | Area       | Acres_3  |                 |
|   |                                    | Length          | 1568                   | <b>3</b> ' |          |                 |
| Tree Line   | B                                  |                 | <u>B</u>               | -          | В        |                 |
| TERRAIN AND VEGE  | ETATIÓN COVER:                     |                 |                        |            |          |                 |
| Starting Zone:  | Shallow depress                    | sion, mode      | rate co                | niferou    | is and g | rass            |
| Track: Shallow depression, light small coniferous and grass |                                    |                 |                        |            |          |                 |
| Runout Zone: Open fan, grass                                |                                    |                 |                        |            |          |                 |
| HISTORY: III.   | events: 1 highway: 1 full-track: 1 | L               |                        |            |          |                 |



| PATH NAME ('s):                                  | Mogul                              |                |                 |           |          |  |
|--|------------------------------------|----------------|-----------------|-----------|----------|--|
| Path Reference                                   | Number: 1570                       | 30 <b>Z</b> oi | ne:V            | Area: _   | 5        |  |
| Map Number:                                      | 6 Photog                           | raph Numbe:    | r: <u>50,51</u> |           |          |  |
| SPECIFICATIONS:                                  |                                    |                |                 |           |          |  |
| Top Elev.: 118                                   | 00° Bottom E                       | lev.: 1040     | O' Vertic       | al Fall:  | 1400     |  |
| Length of Path:                                  | 3873' Num                          | ber of Sta     | rting Zones:    | 15        |          |  |
| <u>s</u>   | Starting Zone                      |                | Track           | Runo      | ut Zone  |  |
| Slope Angle                                      | 34°                                |                | 22 <sup>0</sup> | _1        | 10       |  |
| Area Acres                                       | <u>14</u> M                        | ean Width      | 250' Are        | a Acres   | 9        |  |
|  |                                    | Length         | 2696 <b>'</b>   |           |          |  |
| Tree Line  | A                                  |                | В               | _         | <u>B</u> |  |
| TERRAIN AND VEG                                  | ETATION COVER:                     |                |                 |           |          |  |
| Starting Zone:<br>coniferous on lo               | Open slope, grower zones.          | ass and ta     | lus, some li    | ght small |          |  |
| Track: V-shaped depression, grass and small rock |                                    |                |                 |           |          |  |
| Runout Zone: B                                   | road open fan,                     | grass          |                 |           |          |  |
| HISTORY: III.                                    | events: 2 highway: 1 full-track: 1 |                |                 |           |          |  |

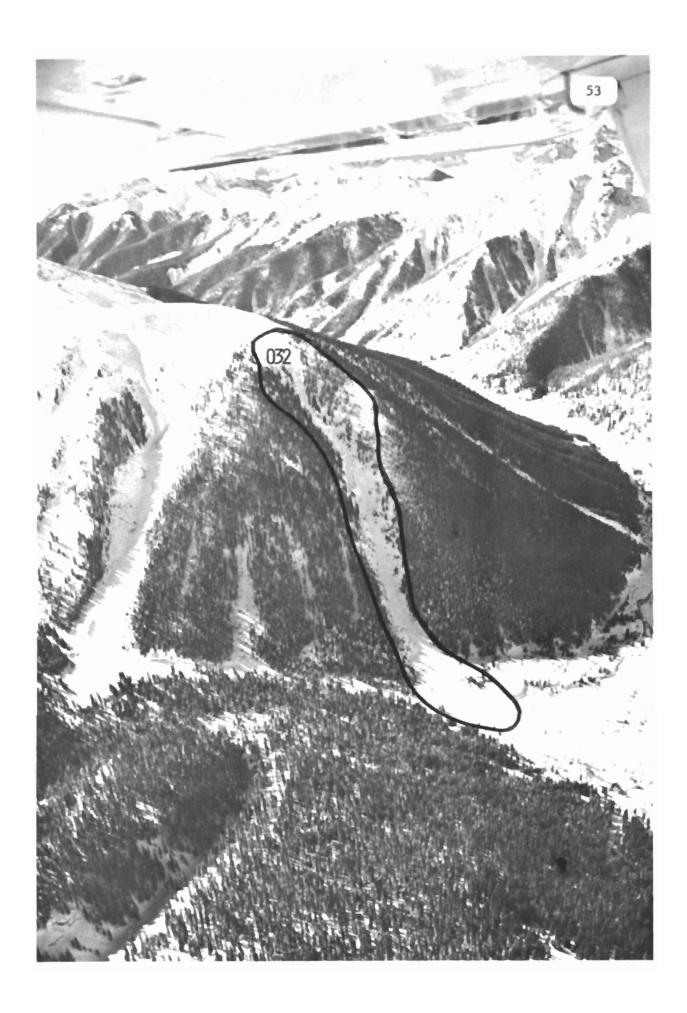
| PATH NAME ('s): I   | Florence     |                    |                |               |           |
|---|--------------|--------------------|----------------|---------------|-----------|
| Path Reference Nu   | mber: 1570   | 49 Zo              | ne:V           | Area:         | 5         |
| Map Number: 6   | Photog       | graph Numbe        | r: <u>51,5</u> | 2             |           |
| SPECIFICATIONS:   |              |                    |                |               |           |
| Top Elev.: 11500  | Bottom F     | Elev.: <u>1045</u> | 0' Ve          | rtical Fall   | : 1050'   |
| Length of Path: 2   | 2317 Num     | ber of Sta         | rting Zo       | nes: <u>1</u> |           |
| Sta   | rting Zone   |                    | Track          | Ru            | nout Zone |
| Slope Angle   | 39°          |                    | _27°           |               | 11°       |
| Area Acres  | <u>1</u>     | Mean Width         | 100'           | Area Acres    | 2         |
|   |              | Length             | 1459           |               |           |
| Tree Line   | В            |                    | _ <u>B</u>     |               | В         |
| TERRAIN AND VEGET   | ATION COVER: | :                  |                |               |           |
| Starting Zone: Brand grass.   | road slope w | ith light o        | coniferou      | s, willows,   | aspen,    |
| Track: Curving shallow gulley, with grass, aspen and willows.       |              |                    |                |               |           |
| Runout Zone: Broad open talus slope with grass, willows, and aspen. |              |                    |                |               |           |
| HTSTORY:  |              |                    |                |               |           |



| PATH NAME ('s):                               | Standard Mine            |                 |                   |  |  |
|---|--------------------------|-----------------|-------------------|--|--|
| Path Reference                                | Number: <u>157031</u> Zo | ne: <u> </u>    | rea:              |  |  |
| Map Number: 6                                 | Photograph Numbe         | r: <u>52</u>    |                   |  |  |
| SPECIFICATIONS:                               |                          |                 |                   |  |  |
| Top Elev.: 1100                               | 00° Bottom Elev.: 1050   | 00' Vertical    | Fall:500 <b>'</b> |  |  |
| Length of Path:                               | 896' Number of Sta       | rting Zones:    | 1                 |  |  |
| <u>s</u>                                      | tarting Zone             | Track           | Runout Zone       |  |  |
| Slope Angle                                   | 39°                      | 24°             | _22°              |  |  |
| Area Acres                                    | 25 Mean Width            | _50 Area A      | cres              |  |  |
|   | Length                   | <u>547°</u>     |                   |  |  |
| Tree Line                                     | <u>B</u>                 | В               | B                 |  |  |
| TERRAIN AND VEG                               | ETATION COVER:           |                 |                   |  |  |
| Starting Zone:                                | Small grassy openings in | medium to heav  | y coniferous.     |  |  |
|   |                          |                 |                   |  |  |
| Track: Shallow                                | depression in medium con | iferous, grassy | •                 |  |  |
|   |                          |                 |                   |  |  |
| Runout Zone: Mine buildings and service area. |                          |                 |                   |  |  |
|   |                          |                 |                   |  |  |
|   |                          |                 |                   |  |  |
| MILOIOICE.                                    | events: 1<br>highway: 0  |                 |                   |  |  |
|   | full-track: 1            |                 |                   |  |  |
| Damag   | ed mine buildings1972    |                 |                   |  |  |



| PATH NAME ('s): Colorado Slide  |                       |  |  |
|---|-----------------------|--|--|
| Path Reference Number: 157032 Zone:   | V Area: 8             |  |  |
| Map Number: 6 Photograph Number:  | 52,53                 |  |  |
| SPECIFICATIONS:   |                       |  |  |
| Top Elev.: 12000' Bottom Elev.: 10500'  | Vertical Fall: 1500'  |  |  |
| Length of Path: 3715 Number of Starting   | g Zones: 8            |  |  |
| Starting Zone Trac  | ck Runout Zone        |  |  |
| Slope Angle 34° 30  | <u>8°</u>             |  |  |
| Area Acres <u>4</u> Mean Width <u>2</u>   | 00' Area Acres 10     |  |  |
| Length 24   | 25 <b>'</b>           |  |  |
| Tree Line A B   | B                     |  |  |
| TERRAIN AND VEGETATION COVER:   |                       |  |  |
| Starting Zone: Open slope, light small coniferous and grass                         |                       |  |  |
| Track: Shallow depression, light small coniferous, grass, willows and rock outcrops |                       |  |  |
| Runout Zone: Broad open slope, grass and li   | ight small coniferous |  |  |
| HISTORY: III. events: 1 highway: 0 full-track: 1                                    |                       |  |  |



| PATH NAME ('s): Thread                                |                                     |                   |              |  |
|---|-------------------------------------|-------------------|--------------|--|
| Path Reference N                                      | Number: <u>157033</u> Zo            | one: <u>y</u> Are | a: 9         |  |
| Map Number: 6   | Map Number: 6 Photograph Number: 54 |                   |              |  |
| SPECIFICATIONS:                                       |                                     |                   |              |  |
| Top Elev.:109   | Bottom Elev.: 105                   | 00° Vertical Fa   | 11: 400      |  |
| Length of Path:                                       | 1667 Number of Sta                  | erting Zones:1    |              |  |
| St  | carting Zone                        | Track             | Runout Zone  |  |
| Slope Angle   | 39°                                 | _34°_             | _11°         |  |
| Area Acres  | •5 Mean Width                       | 100 Area Acr      | es <u>.5</u> |  |
|   | Length                              | 2 <u>895</u> '    |              |  |
| Tree Line   | B                                   | B                 | B            |  |
| TERRAIN AND VEGE                                      | TATION COVER:                       |                   |              |  |
| Starting Zone: Narrow depression, grass               |                                     |                   |              |  |
| Track: Narrow depression, grass                       |                                     |                   |              |  |
| Runout Zone: Open slope, moderate to heavy coniferous |                                     |                   |              |  |
|   | events: 1 highway: 0                |                   |              |  |

| PATH NAME ('s): String  |  |  |  |
|---|--|--|--|
| Path Reference Number: 157034 Zone: V Area: 9                                   |  |  |  |
| Map Number: 6 Photograph Number: 54   |  |  |  |
| SPECIFICATIONS:  Top Elev.: _11200* Bottom Elev.: _10400* Vertical Fall: _ 800* |  |  |  |
|   |  |  |  |
| Length of Path: 2010 Number of Starting Zones: 1                                |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |
| Slope Angle $39^{\circ}$ $34^{\circ}$ $11^{\circ}$                              |  |  |  |
| Area Acres 1 Mean Width 50° Area Acres 1  |  |  |  |
| Length 947°   |  |  |  |
| Tree Line B B   |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |
| Starting Zone: Narrow depression, grass   |  |  |  |
| Track: Narrow depression, grass   |  |  |  |
| Runout Zone: Open slope, grass  |  |  |  |
| HISTORY: III. events: 1 highway: 0 full-track: 1                                |  |  |  |

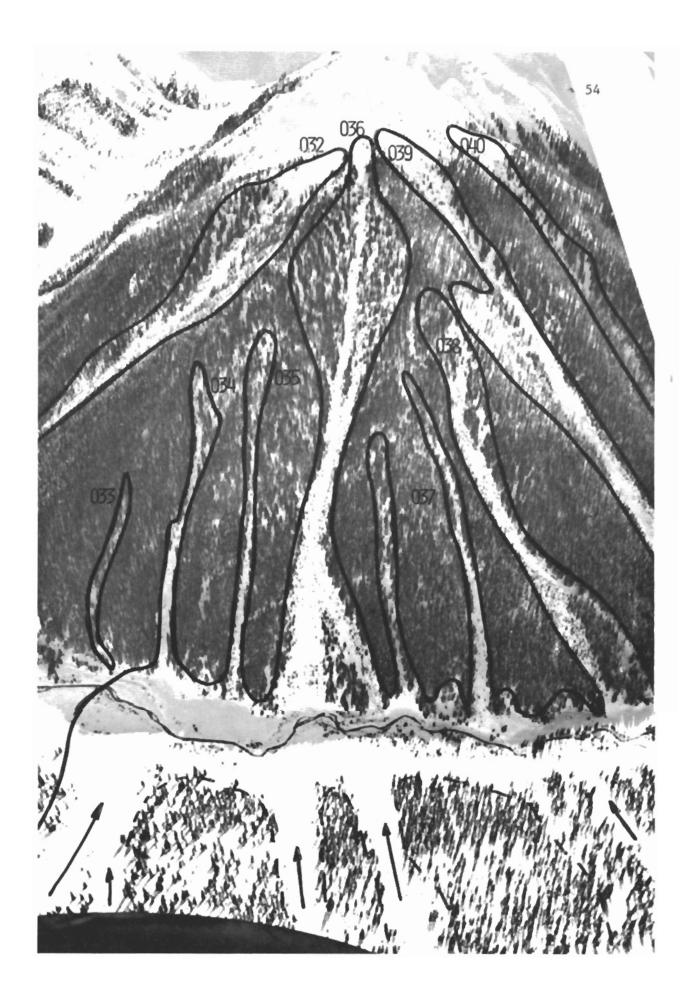
| PATH NAME ('s): Rope                    |                           |             |  |
|---|---------------------------|-------------|--|
| Path Reference Number: 157035 Zo        | one: Area                 | :9          |  |
| Map Number: 6 Photograph Number         | er: <u>54</u>             |             |  |
| SPECIFICATIONS:                         |                           |             |  |
| Top Elev.: 11500 Bottom Elev.: 104      | <u>∤00°</u> Vertical Fal: | 1: 1100'    |  |
| Length of Path: 2539 Number of Sta      | arting Zones:3            | <del></del> |  |
| Starting Zone                           | <u>Track</u> Ru           | inout Zone  |  |
| Slope Angle 39°                         | _30°                      | <u>11°</u>  |  |
| Area Acres 3 Mean Width                 | 150' Area Acres           | s4          |  |
| Length                                  | 1848 •                    |             |  |
| Tree Line B                             | _ <u>B</u>                | B           |  |
| TERRAIN AND VEGETATION COVER:           |                           |             |  |
| Starting Zone: Narrow depression, grass |                           |             |  |
|   |                           |             |  |
| Track: Narrow depression, grass         |                           |             |  |
|   |                           |             |  |
| Runout Zone: Open slope, grass          |                           |             |  |
| and a second stope, glass               |                           |             |  |
|   |                           |             |  |
| HISTORY: III. events: 1                 |                           |             |  |
| highway: 0 full-track: 1                |                           |             |  |

| PATH NAME ('s): East Jump   |                                  |              |               |                   |
|---|----------------------------------|--------------|---------------|-------------------|
| Path Reference M  | Number: <u>1570</u>              | 36 Zoı       | ne: <u>y</u>  | Area:9            |
| Map Number: 6   | Photo                            | graph Number | r: <u>54</u>  | _                 |
| SPECIFICATIONS:   |                                  |              |               |                   |
| Top Elev.: <u>11900</u>   | Bottom                           | Elev.: 104   | 00' Vert      | ical Fall: 1500'  |
| Length of Path:   | 2539' Nur                        | mber of Star | rting Zone    | s: <u>3</u>       |
| St  | arting Zone                      |              | Track         | Runout Zone       |
| Slope Angle   | 39°                              |              | _30°          | _11°              |
| Area Acres  | 3                                | Mean Width   | <u>150°</u> A | rea Acres4        |
|   |                                  | Length       | 1848          |                   |
| Tree Line   | A                                |              | B             | B                 |
| TERRAIN AND VEGE  | ETATION COVER                    | :            |               |                   |
| Starting Zone: Narrow open slope, light small coniferous and grass                        |                                  |              |               |                   |
| Track: Shallow v-shaped depression, small rock outcrops, light small coniferous and grass |                                  |              |               |                   |
| Runout Zone: Tr   | uncated open                     | fan, light   | small coni    | iferous and grass |
|   | events: 1 highway: 1 full-track: | 1            |               |                   |

| PATH NAME ('s): South-east Jump   |                                     |                  |            |  |
|---|-------------------------------------|------------------|------------|--|
| Path Reference Nu   | umber: 157037 Zon                   | ne:V Area        | :9         |  |
| Map Number: 6   | Map Number: 6 Photograph Number: 54 |                  |            |  |
| SPECIFICATIONS:   |                                     |                  |            |  |
| Top Elev.:1110  | 00 Bottom Elev.: 1040               | 00 Vertical Fal  | 1: 700'    |  |
| Length of Path: _   | 1248 Number of Star                 | rting Zones: 1   |            |  |
| Sta   | arting Zone                         | <u>Track</u> R   | unout Zone |  |
| Slope Angle   | 34°                                 | _30°             | 11°        |  |
| Area Acres  | 2.5 Mean Width                      | 100 Area Acre    | s_1.5_     |  |
|   | Length                              | 924              |            |  |
| Tree Line _   | В                                   | <u>B</u>         | B          |  |
| TERRAIN AND VEGET   | TATION COVER:                       |                  |            |  |
| Starting Zone: No   | arrow open slope, light             | small coniferous | and grass  |  |
| Track: Shallow v-shaped depression, small rock outcrops, light small coniferous and grass |                                     |                  |            |  |
| Runout Zone: Tro  | uncated open fan, light             | small coniferous | and grass  |  |
| HISTORY: III.   | events: 1 highway: 0 full-track: 1  |                  |            |  |

| PATH NAME ('s): Halftrack  |                                    |                 |               |  |  |
|--|------------------------------------|-----------------|---------------|--|--|
| Path Reference Number: 157038 Zone: V Area: 9                              |                                    |                 |               |  |  |
| Map Number: 6  | Photograph Numbe                   | r: <u>5</u> 4   |               |  |  |
| SPECIFICATIONS: Top Elev.: 1120  | 0 Bottom Elev.: <u>1040</u>        | 00° Vertical Fa | all: 800'     |  |  |
|  | 1949' Number of Sta                |                 |               |  |  |
| St   | carting Zone                       | Track           | Runout Zone   |  |  |
| Slope Angle  | 39°                                | _30°            | 11°           |  |  |
| Area Acres   | .25 Mean Width                     | 100' Area Act   | res <u>.5</u> |  |  |
|  | Length                             | <u>1386'</u>    |               |  |  |
| Tree Line  | B                                  | <u>B</u>        | <u>B</u>      |  |  |
| TERRAIN AND VEGE   | ETATION COVER:                     |                 |               |  |  |
| Starting Zone: Narrow shallow depression, light small coniferous and grass |                                    |                 |               |  |  |
| Track: Shallow depression, light small coniferous and grass                |                                    |                 |               |  |  |
| Runout Zone: Open slope, grass   |                                    |                 |               |  |  |
| HISTORY: III.  | events: 1 highway: 0 full-track: 1 |                 |               |  |  |

| PATH NAME ('s): Dry Gulch South                               |                      |  |  |  |  |
|---|----------------------|--|--|--|--|
| Path Reference Number: 157039 Zone: V Area: 9                 |                      |  |  |  |  |
| Map Number: 6 Photograph Number                               | :54                  |  |  |  |  |
| SPECIFICATIONS:   |                      |  |  |  |  |
| Top Elev.: 12000' Bottom Elev.: 10400                         | Vertical Fall: 1600' |  |  |  |  |
| Length of Path: 3715 Number of Star                           | ting Zones: 2        |  |  |  |  |
| Starting Zone   | Track Runout Zone    |  |  |  |  |
| Slope Angle 30°   |                      |  |  |  |  |
| Area Acres <u>5</u> Mean Width                                | 200° Area Acres 5    |  |  |  |  |
| Length  | 2846*                |  |  |  |  |
| Tree Line A   |                      |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                                 |                      |  |  |  |  |
| Starting Zone: Open slope, light small co                     | oniferous and grass  |  |  |  |  |
| Track: Narrow depression, moderate small coniferous and grass |                      |  |  |  |  |
| Runout Zone: Open fan, grass and scree                        |                      |  |  |  |  |
| HISTORY: II. crossed highway: 1                               |                      |  |  |  |  |
| <pre>III. events: 1     highway: 0     full-track: 1</pre>    |                      |  |  |  |  |

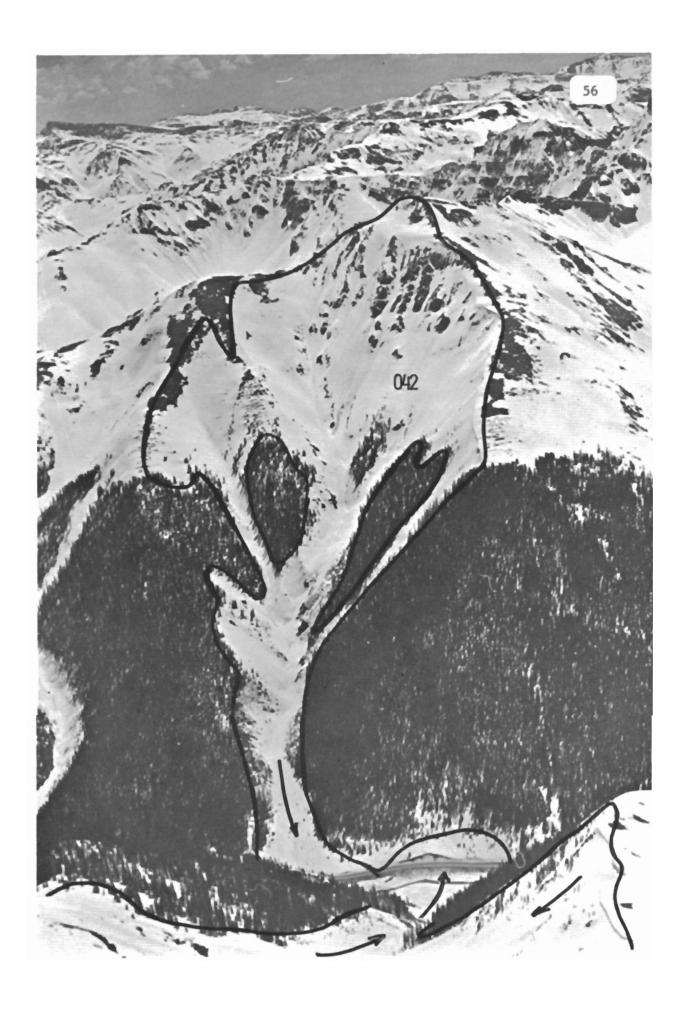


| PATH NAME ('s):  | RMYF                               |                       |                  |  |
|--|------------------------------------|-----------------------|------------------|--|
| Path Reference N   | lumber: 157040                     | Zone: V               | Area: 9          |  |
| Map Number:6   | Photograph No                      | umber: <u>54,55</u> , | _                |  |
| SPECIFICATIONS:  |                                    |                       |                  |  |
| Top Elev.: <u>11900</u>  | Bottom Elev.:                      | 10400' Vert           | ical Fall: 1500' |  |
| Length of Path:  |                                    | Starting Zone         | s: <u>1</u>      |  |
| St   | arting Zone                        | Track                 | Runout Zone      |  |
| Slope Angle  | _34°                               | _24°                  | _15°             |  |
| Area Acres   | Mean Wie                           | dth 100° A            | rea Acres5_      |  |
|  | Leng                               | th <u>3065</u>        |                  |  |
| Tree Line  | A                                  | B                     | <u>B</u>         |  |
| TERRAIN AND VEGE   | TATION COVER:                      |                       |                  |  |
| Starting Zone:   | Open slope, light sm               | all coniferous        | and grass        |  |
| Track: Narrow v-shaped gully, light small coniferous and grass |                                    |                       |                  |  |
| Runout Zone: Open incised truncated fan, grass                 |                                    |                       |                  |  |
| HISTORY: III.  | events: 1 highway: 0 full-track: 1 |                       |                  |  |

| PATH NAME ('s): Tiger gulch   |  |  |  |  |
|---|--|--|--|--|
| Path Reference Number: 157041 Zone: V Area: 9   |  |  |  |  |
| Map Number: 6 Photograph Number: 55,56  |  |  |  |  |
| SPECIFICATIONS: Top Elev.: 12200' Bottom Elev.: 10200' Vertical Fall: 2000'                   |  |  |  |  |
| Length of Path: 4995 Number of Starting Zones: 12   |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |
| Slope Angle 45° 20° 14° adv.  |  |  |  |  |
| Area Acres 20 Mean Width 150' Area Acres 12   |  |  |  |  |
| Length <u>3193</u>  |  |  |  |  |
| Tree Line A B B   |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |
| Starting Zone: Broad basin, large rock outcrops, talus and grass                              |  |  |  |  |
| Track: V-shaped gully, light small coniferous, grass and bare ground                          |  |  |  |  |
| Runout Zone: Broadening v-shaped depression ending in open fan, grass willows and bare ground |  |  |  |  |
| HISTORY.  |  |  |  |  |



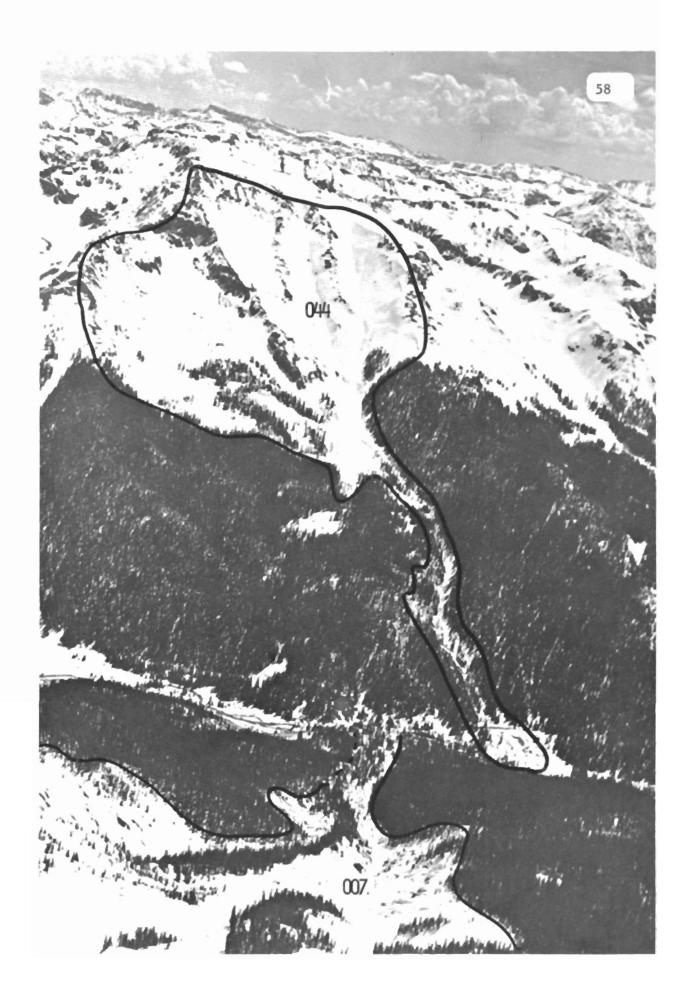
| PATH NAME ('s): Billboard   |  |  |  |  |  |
|---|--|--|--|--|--|
| Path Reference Number: 157042 Zone: V Area: 9   |  |  |  |  |  |
| Map Number:5,6 Photograph Number:55,56  |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |
| Top Elev.: 12800' Bottom Elev.: 10200' Vertical Fall: 2600'                           |  |  |  |  |  |
| Length of Path: 6023' Number of Starting Zones: Multiple                              |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |
| Slope Angle <u>45°</u> <u>20°</u> <u>14°</u>  |  |  |  |  |  |
| Area Acres 45 Mean Width 200' Area Acres 8  |  |  |  |  |  |
| Length <u>3937</u>  |  |  |  |  |  |
| Tree Line A B B   |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |
| Starting Zone: Broad open basin with numerous incised gullies and large rock outcrops |  |  |  |  |  |
| Track: V-shaped gully, large rock outcrops and bare ground                            |  |  |  |  |  |
| Runout Zone: Broad open fan, light small coniferous and grass                         |  |  |  |  |  |
| HISTORY: III. events: 3 highway: 1 full-track: 1                                      |  |  |  |  |  |



| PATH NAME ('s):              | Grassy Gulch                       |                        |                  |
|------------------------------|------------------------------------|------------------------|------------------|
| Path Reference N             | umber: 157043 Zo                   | one: V Ar              | ea: <u>10</u>    |
| Map Number: 5                | Photograph Number                  | er: <u>57</u>          |                  |
| SPECIFICATIONS:              |                                    |                        |                  |
| Top Elev.: 12000             | Bottom Elev.: 1000                 | 00 Vertical F          | all: 2000        |
| Length of Path:              | 4623 Number of Sta                 | arting Zones: <u>4</u> |                  |
| St                           | arting Zone                        | Track                  | Runout Zone      |
| Slope Angle                  | 39°                                | 24°                    | 14 <sup>0</sup>  |
| Area Acres                   | 5 Mean Width                       | Area Ac                | res <u>6</u>     |
|                              | Length                             | 3284*                  |                  |
| Tree Line                    | A                                  | <u>B</u>               | B                |
| TERRAIN AND VEGE             | TATION COVER:                      |                        |                  |
| Starting Zone: I             | Broad open slope, grass            | and talus              |                  |
| Track: V-shaped<br>and grass | d depression, small rocl           | k outcrops, light      | small coniferous |
| Runout Zone: Op              | pen slope, grass and wi            | llows                  |                  |
| HISTORY: III.                | events: 1 highway: 0 full-track: 0 |                        |                  |



| PATH NAME ('s): Illinois Gulch  |  |  |  |  |  |
|---|--|--|--|--|--|
| Path Reference Number: 157044 Zone: V Area: 10  |  |  |  |  |  |
| Map Number: 5 Photograph Number: 58   |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |
| Top Elev.: 13000' Bottom Elev.: 9900' Vertical Fall: 3100'  |  |  |  |  |  |
| Length of Path: 6784 Number of Starting Zones: 10   |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |
| Slope Angle 39° 24° 9°  |  |  |  |  |  |
| Area Acres 55 Mean Width 200 Area Acres 15  |  |  |  |  |  |
| Length <u>4926</u>  |  |  |  |  |  |
| Tree Line <u>A</u> <u>B</u> <u>B</u>  |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |
| Starting Zone: Broad shallow v-shaped basin, large rock outcrops, talus and grass                                 |  |  |  |  |  |
| Track: V-shaped depression, moderate aspen and coniferous. Lower portion: v-shaped incised gully with bare ground |  |  |  |  |  |
| Runout Zone: Broad open slope, moderate coniferous, willows and mine dump   |  |  |  |  |  |
| HISTORY: III. events: 1 highway: 0 full-track: 0  |  |  |  |  |  |

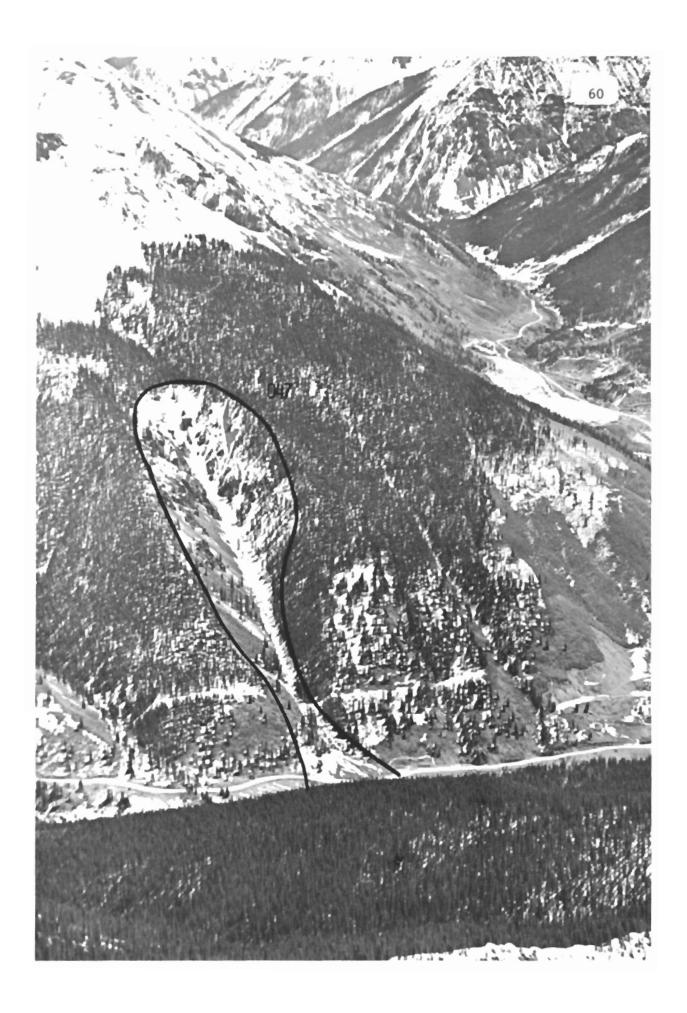


| PATH NAME ('s): Maybe So                                  |  |  |  |  |  |
|---|--|--|--|--|--|
| Path Reference Number: 157045 Zone: V Area: 11            |  |  |  |  |  |
| Map Number: 5 Photograph Number: 59                       |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |
| Top Elev.: 10200' Bottom Elev.: 9700' Vertical Fall: 500' |  |  |  |  |  |
| Length of Path: 1005 Number of Starting Zones: 1          |  |  |  |  |  |
| Starting Zone Track Runout Zone                           |  |  |  |  |  |
| Slope Angle 30° 27° 22°                                   |  |  |  |  |  |
| Area Acres25 Mean Width50 * Area Acres25                  |  |  |  |  |  |
| Length 673°   |  |  |  |  |  |
| Tree Line B B B   |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:                             |  |  |  |  |  |
| Starting Zone: Light coniferous and grass.                |  |  |  |  |  |
| Track: Shallow gulley with grass and light willows.       |  |  |  |  |  |
| Runout Zone: Small open slope grass and willows.          |  |  |  |  |  |
| HISTORY:  |  |  |  |  |  |

| PATH NAME ('s): Maybe Not   |                                  |               |              |              |          |
|---|----------------------------------|---------------|--------------|--------------|----------|
| Path Reference  | Number:1570                      | 046 Zor       | ne: V        | Area:        | 11       |
| Map Number:   | 5 Photo                          | ograph Numbei | r: <u>59</u> | _            |          |
| SPECIFICATIONS:   |                                  |               |              |              |          |
| Top Elev.: 1000   | 00' Bottom                       | Elev.: 9700   | ' Ver        | rtical Fall: | 300'     |
| Length of Path:   | 674' Nu                          | mber of Star  | rting Zor    | nes:2        | _        |
| <u>s</u>  | tarting Zone                     |               | Track        | Run          | out Zone |
| Slope Angle   | 30°                              |               | 34°          |              | 39°      |
| Area Acres  | .5                               | Mean Width    | 100'         | Area Acres_  | .5       |
|   |                                  | Length        | 302'         |              |          |
| Tree Line   | B                                |               | В            | _            | В        |
| TERRAIN AND VEGETATION COVER:   |                                  |               |              |              |          |
| Starting Zone: Shallow depression, light coniferous and grass.  Track: Shallow gulley and small slope with grass. |                                  |               |              |              |          |
| Runout Zone: 0  | pen slope and                    | creek, gras   | s and wi     | llows.       |          |
| HISTORY: III.   | events: 1 highway: 1 full-track: | 0             |              |              |          |



| PATH NAME ('s): Vikik   |  |  |  |  |  |
|---|--|--|--|--|--|
| Path Reference Number: 157047 Zone: V Area: 11                          |  |  |  |  |  |
| Map Number: 5 Photograph Number: 60                                     |  |  |  |  |  |
| SPECIFICATIONS:   |  |  |  |  |  |
| Top Elev.: 11000 * Bottom Elev.: 9520 * Vertical Fall: 580 *            |  |  |  |  |  |
| Length of Path: 3435 Number of Starting Zones: Multiple                 |  |  |  |  |  |
| Starting Zone Track Runout Zone   |  |  |  |  |  |
| Slope Angle 42° 22° 16°   |  |  |  |  |  |
| Area Acres 6 Mean Width 200° Area Acres 8                               |  |  |  |  |  |
| Length <u>1618*</u>   |  |  |  |  |  |
| Tree Line   |  |  |  |  |  |
| TERRAIN AND VEGETATION COVER:   |  |  |  |  |  |
| Starting Zone: Open talus, rock and light coniferous.                   |  |  |  |  |  |
|   |  |  |  |  |  |
| Track: Deeply cut v-gulley with rock and talus. Some grass and willows. |  |  |  |  |  |
| Runout Zone: Broad open talus slope with grass, creek.                  |  |  |  |  |  |
| HISTORY:  |  |  |  |  |  |



### INSTITUTE OF ARCTIC AND ALPINE RESEARCH OCCASIONAL PAPERS

Numbers 1 through 5 are out of print. A second edition of Number 1 is available from the author. Numbers 2, 4, and 5 are available from National Technical Information Service, U.S. Department of Commerce. For details, please write to INSTAAR.

- 6. Guide to the Mosses of Colorado. By W.A. Weber. 1973. 48 pp. Order from the author, University of Colorado Museum, Boulder, Colorado 80309. \$2.50.
- 7. A Climatological Study of Strong Downslope Winds in the Boulder Area. By W.A.R. Brinkmann. 1973. 228 pp. Order from the author, Institute for Environmental Studies, University of Wisconsin, 1225 West Dayton Street, Madison, Wisconsin 53706.
- †8. Environmental Inventory and Land Use Recommendations for Boulder County, Colorado. Edited by R.F. Madole. 1973. 228 pp. 7 plates. \$6.00.
- †9. Studies of Climate and Ice Conditions in Eastern Baffin Island. 1971-73. By J.D. Jacobs, R.G. Barry, R.S. Bradley, and R.L. Weaver. 1974. 77 pp. \$3.00.
- †10. Simulation of the Atmospheric Circulation Using the NCAR Global Circulation Model With Present Day and Glacial Period Boundary Conditions. By J.H. Williams. 1974. 328 pp. \$4.75.
- 11. Solar and Atmospheric Radiation Data for Broughton Island, Eastern Baffin Island, Canada, 1971-73. By J.D. Jacobs. 1974. 54 pp. (Out of print.)
- 12. Deglacial Chronology and Uplift History: Northeastern Sector, Laurentide Ice Sheet. By A.S. Dyke. 1974. 113 pp. (Out of print.)
- †13. Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountains of Southwestern Colorado. By R.L. Armstrong, E.R. LaChapelle, M.J. Bovis, and J.D. Ives. 1975. 141 pp. \$4.75.
- †14. Quality Skiing at Aspen, Colorado: A Study in Recreational Carrying Capacity. By C. Crum London. 1975. 134 pp. 3 plates. \$5.50.
- †15. Palynological and Paleoclimatic Study of the Late Quaternary Displacements of the Boreal Forest-Tundra Ecotone in Keewatin and Mackenzie, N.W.T., Canada. By H. Nichols. 1975. x + 87 pp. \$4.00.
- †16. Computer Techniques for the Presentation of Palynological and Paleoenvironmental Data. By M. Nichols, M. Eccles, and H. Nichols. 1976 (in press).
- †17. Avalanche Atlas: San Juan County, Colorado. By L. Miller, B.R. Armstrong, and R.L. Armstrong. 1976. 260 pp. 60 plates. \$4.25.
- †18. Century of Struggle Against Snow: A History of Avalanche Hazard in San Juan County, Colorado. By B.R. Armstrong. 1976 (in press).
- †19. Avalanche Release and Snow Characteristics, San Juan Mountains, Colorado. Edited by R.L. Armstrong and J.D. Ives. 1976 (in press).
- †20. Landslides Near Aspen, Colorado. C.P. Harden. 1976 (in press).

†Order from INSTAAR, University of Colorado, Boulder, Colorado 80309. Orders by mail add 65 cents.

Occasional Papers are a miscellaneous collection of reports and papers on work performed by INSTAAR personnel and associates. Generally, these papers are too long for publication as journal articles, or they contain large amounts of supporting data that are normally difficult to publish in the standard literature.