

**AVENUE (#69)**  
**MINFILE# 105M 053**

**1. LOCATION AND ACCESS**

The Avenue site is accessible by helicopter. It is located about 10 km northeast of Keno City on a plateau midway between the Caribou Hill and Beauvette Hill summits. The elevation of the site is about 1525 m. It lies at the edge of a slope that drops steeply to the north towards Keno Ladue Creek. There are two series of trenches at this site. A rough trail leading up the southeastern slope of Keno Hill can be seen from the air. This trail leads to a series of trenches at the western side of the site. The UTM coordinates for the western trenches are 7091700 m N 493500 m E. The UTM coordinates for the eastern trenches are 7091900 m N 493940 m E.

**2. SITE PHYSIOGRAPHY**

The Avenue site lies on a plateau between Caribou Hill and Beauvette Hill above the tree line (photo 69-2). Permafrost lies under the entire site. Most of the site slopes gently to the southeast and drains down the slope towards Faith Creek. A series of trenches at the eastern side of the site slope to the north at the edge of a cliff. These trenches drain off the cliff towards Keno Ladue Creek.

**3. GEOLOGY AND MINERALIZATION**

Greenstone boulders predominated in the overburden at the Avenue site. The major rock types observed at the site included greenstone sills and green and grey non-calcareous phyllite. The greenstone in areas was weathered to a dun brown color. The mineralization observed at the site included quartz with limonitic alteration and minor sphalerite, galena and possibly siderite. Minor occurrences of the sulphide sphalerite were observed in gossanous limonitic material. The minfile reports the presence of a narrow vein with argentiferous galena over a strike length of 1220 m in quartzite and phyllite and a 10 cm pyrrhotite vein. The carbonate siderite may also be present. There were minor occurrences of calcite observed in vein material.

**4. SITE HISTORY**

The minfile for the site reports that bulldozer trenching occurred at Avenue beginning in 1953 and continued intermittently until 1979.

## 5. MINE DEVELOPMENT

### 5.1 Mine Openings And Excavations

There were 8 trenches observed at the Avenue site. Five are located on western side of the site at the end of a trail leading up the southeast slope of Keno Hill (photo 69-1). They lie at the base of a small hill. Three more trenches lie about 200 m to the east. Two are at the edge of a cliff sloping to the north. The other lies on the plateau about 75 m further east. A pit is located among the western series of trenches. Trenches 1 to 8 and Pit 1 are described below in order from the west to east.

#### Trench 1

Shallow trench

Location: westernmost trench at the Avenue site lying about 30 m west of Trench 2

Dimensions (L x W x H): 60 m x 2.5 m x 0.5 m - longitudinal bearing AZ 300

Condition: stable - 90% revegetated

#### Trench 2

Shallow trench with a small pit at the NW end (photo 69-3)

Location: about 30 m east of Trench 1 and about 30 m west of Pit 1

Dimensions (L x W x H): 78 m x 4 m x 1 m – longitudinal bearing AZ 330

Condition: stable - 30% revegetated

#### Pit 1 (photo 69-4)

Narrow pit

Location: at the SW end of Trench 3 about 30 m east of Trench 2

Dimensions (L x W x H): 6 m x 3 m x 3 m – longitudinal bearing AZ 260

Condition: stable – gentle slopes are 30% revegetated

#### Trench 3 (photo 69-5)

Shallow trench

Location: runs between Pit 1 and Trench 4

Dimensions (L x W x H): 30 m x 6 m x 1 m – longitudinal bearing AZ 219

Condition: stable - 20% revegetated

Trench 4

Narrow trench

Location: runs perpendicular to Trench 3

Dimensions (L x W x H): 30 m x 3 m x 2 m – longitudinal bearing AZ 309

Condition: stable - 5% revegetated

Trench 5

Trench

Location: about 10 m east of Trench 4

Dimensions (L x W x H): 20 m x 5 m x 2 m – longitudinal bearing AZ 51

Condition: stable - 5% revegetated

Trench 6 (photo 69-6)

Trench

Location: about 200 m east of Trench 5 and parallel to Trench 7 - longitudinal bearing is approximately NNW

Dimensions (L x W x H): 30 m x 3 m x 1.5 m

Condition: stable - 70% revegetated

Trench 7

Shallow trench

Location: parallel to Trench 6 about 10m to east - longitudinal bearing is approximately NNW

Dimensions (L x W x H): 30 m x 3 m x 0.5 m

Condition: stable - 70% revegetated

Trench 8 (photo 69-7)

Trench

Location: 75 m east of Trench 7

Dimensions (L x W x H): 30 m x 2.5 m x 1 m – longitudinal bearing AZ 33

Condition: stable - 70% revegetated

## **5.2 Waste Rock Disposal Areas**

There were piles of overburden observed at each trench at the Avenue site. The size of the piles varied with the size of the trenches. Three piles of overburden totaling about 750 tonnes of material are associated with Pit 1 and Trenches 1 and 2. There were no waste rock piles containing major mineralization observed at the site.

## **5.3 Tailings Impoundments**

No tailings were observed at the Avenue site.

## **5.4 Minesite Water Treatment**

No water treatment occurs at the Avenue site.

## **6. MINE SITE INFRASTRUCTURE**

No infrastructure was observed at the Avenue site.

## **7. SOLID WASTE DUMPS**

No solid waste dumps were observed at the Avenue site.

## **8. POTENTIAL CONTAMINANTS OF CONCERN**

No potential contaminants of concern were observed at the Avenue site.

## **9. WATER QUALITY**

No surface water was observed at the Avenue site. Surface water drainage from the area drains toward Faith Creek and Keno Ladue Creek. No water quality samples were taken at this site.

## **10. RECLAMATION**

The disturbed areas of the Avenue site have largely been reclaimed by natural vegetation. The extent of revegetation varies from 15 to 90 percent depending on the suitability of the soils.

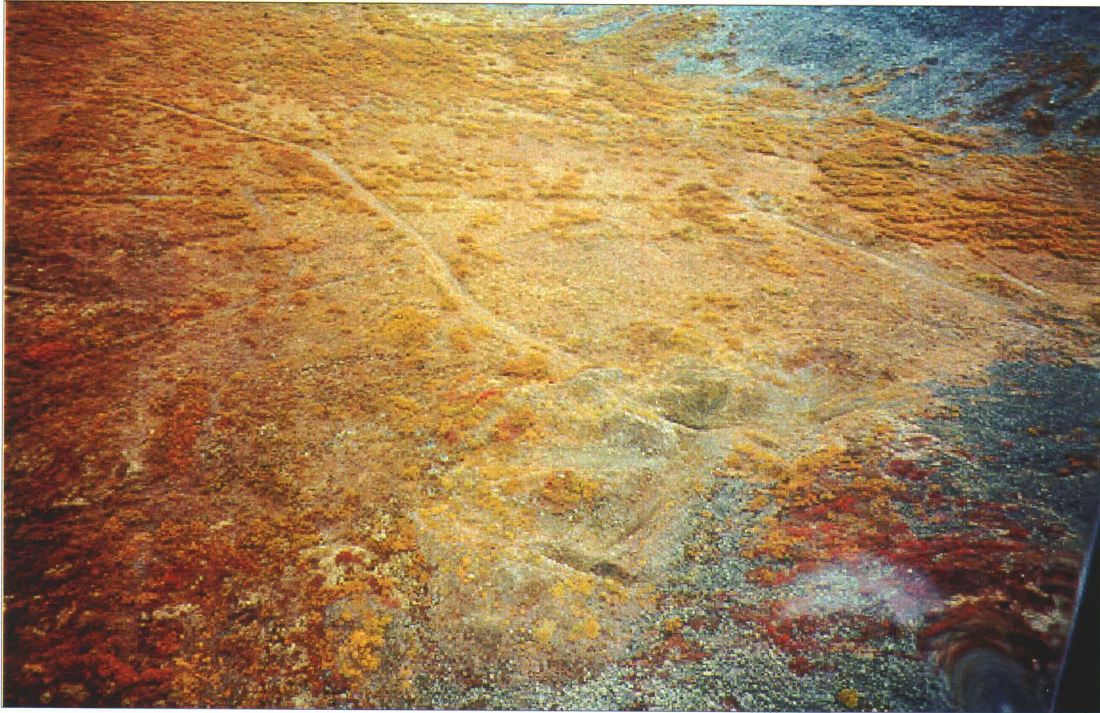


Photo 69-1: Aerial photograph of Avenue site showing western trenches. Pit 1 and Trench 4 are clearly visible just below centre of photograph. Trench 2 can be seen in upper righthand corner. Trail leading up southeastern slope of Keno Hill enters photograph from upper lefthand corner.

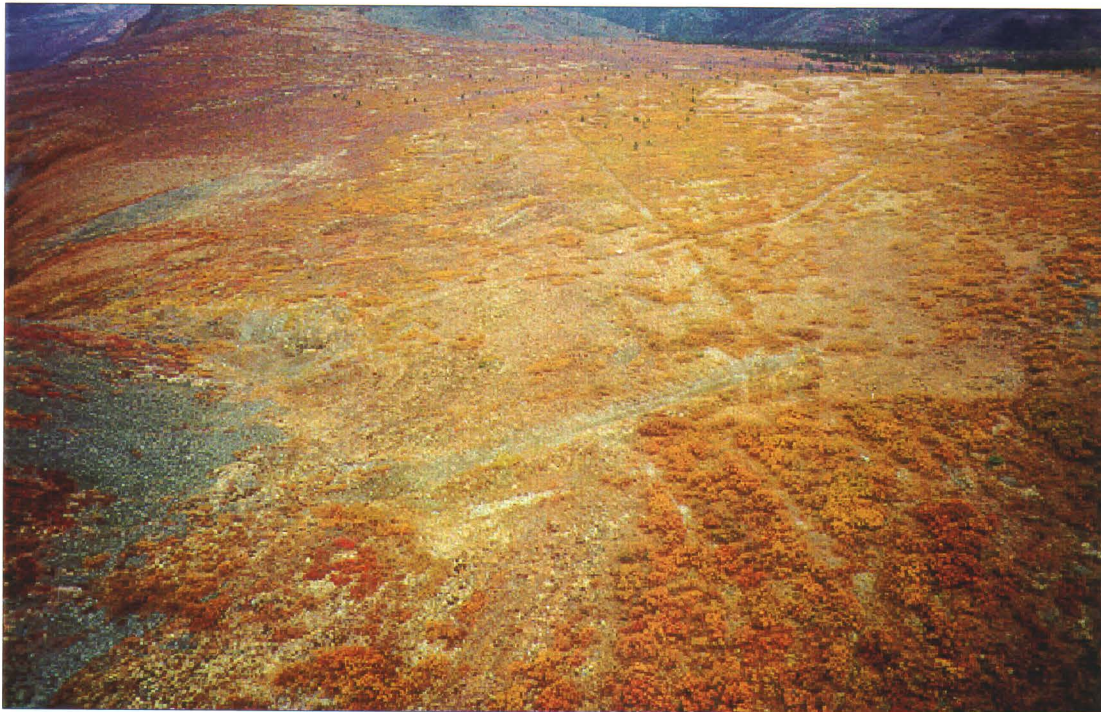


Photo 69-2: Aerial photograph of Avenue site with a good view of plateau. Trench 2 is visible just below centre of photograph.



Photo 69-3: View along length of Trench 2 with small pit in foreground. (AZ 149)



Photo 69-4: View of Pit 1 at Avenue site. (AZ 266)

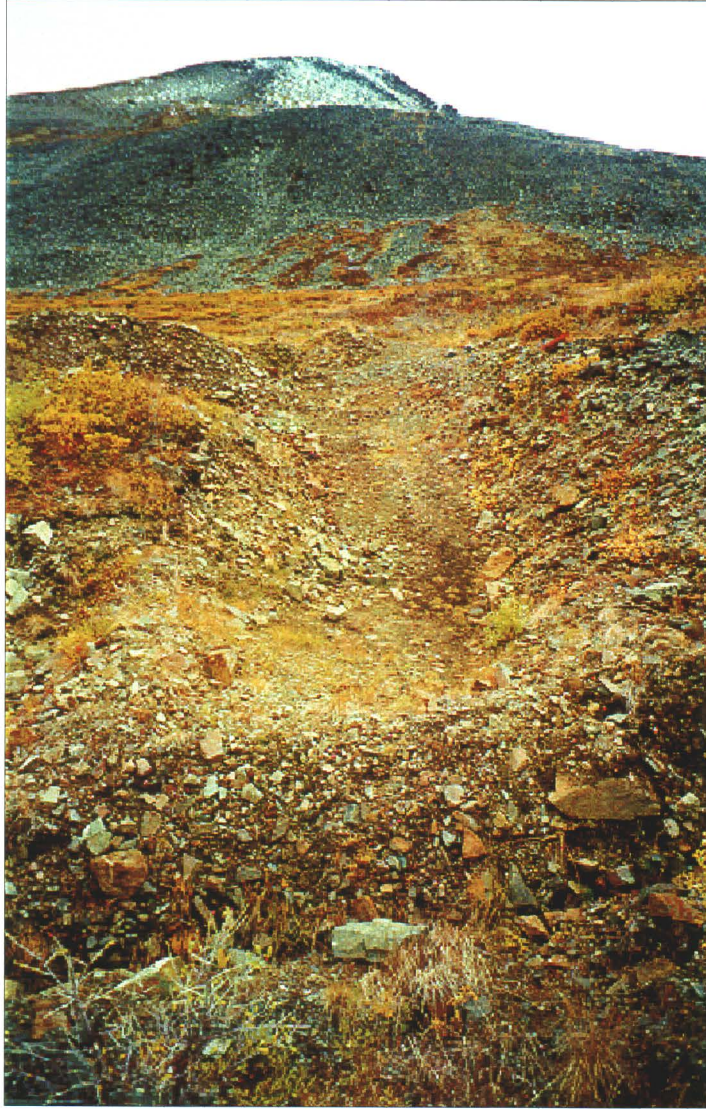


Photo 69-5: View along length of Trench 3 with Trench 4 crossing it in foreground. (AZ 219)



Photo 69-6: View about NNW along length of Trench 6.



Photo 69-7: View along length of Trench 8. (AZ 033)