

APEX (#48)
MINFILE# 105M 009

1. LOCATION AND ACCESS

Access to the Apex site is from Signpost Road. A small cabin (Building 48A) is located approximately 250 m south of the 4th switchback past the intersection of Signpost Road and Keno 700 Road. The coordinates of the cabin are approximately 60° 55' 18" N by 135° 18' 22" W. Six trenches are located to the west of the cabin. The UTM coordinates of the site are approximately 7088920 m N 488640 m E. The elevation of the site is approximately 1465 m.

2. SITE PHYSIOGRAPHY

The Apex site is located on a flattened ridge on the south slope of Keno Hill, west of Charity Gulch. The site lies above the tree line in an area dominated by typical alpine vegetation. The surface water in the area drains toward Lightening Creek.

3. GEOLOGY AND MINERALIZATION

The major rock type observed at Apex was thin to medium bedded quartzite. Minor occurrences of carbonaceous phyllite were also observed. Weak narrow (<10 cm) quartzite breccia was observed with quartz and minor black manganiferous siderite. There was very little quartz noted in the quartzite. The minfile reports that the vein at the site is composed mostly of manganese oxide and siderite with localized calcite and sphalerite.

4. SITE HISTORY

Only 1 shaft was observed at the site. The minfile reports that 2 shafts, a 10.6 m adit and a 5.5 m winze were developed at the Apex site between 1925 and 1936, however, the second shaft could not be located.

5. MINE DEVELOPMENT

5.1 Mine Openings And Excavations

There were 6 trenches observed at the Apex site running parallel to each other. They are located to the west of Building 48A. A shaft was observed in Trench 3. Trenches 1 to 6 and Shaft 1 are described below in order from the east to west.

Trench 1 (photo 48-1)

Location: easternmost trench at the Apex site lying about 40 m west of Building 48A

Dimensions (L x W x H): 67 m x 4 m x 2 m - longitudinal bearing AZ 320

Condition: stable

Trench 2

Location: about 83 m west of Building 48A and 43 m west of Trench 1

Dimensions (L x W x H): 67 m x 5 m x 2.5 m – longitudinal bearing AZ 304

Condition: stable

Trench 3

Long trench with shaft (Shaft 1) in the bottom

Location: about 30 m from Trench 2

Dimensions (L x W x H): 113 m x 4-8 m x 1-3 m – longitudinal bearing AZ 320

Condition: stable

Shaft 1 (photo 48-2)

Old shaft filled in to within 5 m of surface

Location: in the bottom of Trench 3 (see description of Trench 3 below), 58 m from the waste rock dump at the south end of the trench

Dimensions (L x W): 2 m x 1.5 m

Condition: poor - caved in 5 m below surface

Accessibility: open

Trench 4

Location: approximately 80 m west of Trench 3

Dimensions (L x W x H): 37 m x 3 m x 1-3 m – longitudinal bearing AZ 356

Condition: stable

Trench 5

Location: approximately 10 m west of Trench 4

Dimensions (L x W x H): 35 m x 5 m x 2 m – longitudinal bearing AZ 288

Condition: stable

Trench 6

Trench (photo 69-6)

Location: about 20 m west of Trench 5

Dimensions (L x W x H): 50 m x 4 m x 2 m - longitudinal bearing AZ 314

Condition: stable

5.2 Waste Rock Disposal Areas

Each trench at the Apex site has a small waste rock disposal pile at the south end of it. These piles consist mostly of overburden. No waste rock samples were taken at this site.

5.3 Tailings Impoundments

No tailings were observed at the Apex site.

5.4 Minesite Water Treatment

No water treatment occurs at the Apex site.

6. MINE SITE INFRASTRUCTURE

6.1 Buildings

Building 48A (photo 48-3)

One level, single room freestanding wood cabin

Location: 250 m south of Signpost Road – approximately 60° 55' 18" N by 135° 18' 22" W

Dimensions (L x W x H): 3.5 m x 2.5 m x 2.5 m

Construction: wood

Paint: none observed

Asbestos: none observed

Foundation: none

Non-Hazardous Contents: 2 beds, utensils, firewood, and blankets are located inside. A fire pit, gas range (no fuel tank observed) and scattered debris (steel piping, cans) are located outside.

Hazardous Contents: none observed

6.2 Fuel Storage

There was no storage of fuel observed at the Apex site.

6.3 Rail and Trestle

There was no evidence of rail and trestle at the Apex site.

6.4 Milling and Processing Infrastructure

There was no evidence or record of milling or processing activities occurring at the Apex site.

6.5 Electrical Equipment

There was no electrical equipment observed at the Apex site.

7. SOLID WASTE DUMPS

No solid waste dumps were observed at the Apex site.

8. POTENTIAL CONTAMINANTS OF CONCERN

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

9. WATER QUALITY

No surface water was observed at the Apex site. Surface water drainage from the area is received by Lightning Creek. No water quality samples were taken at this site.

10. RECLAMATION

The disturbed areas of the Apex site have largely been reclaimed by natural vegetation. There have been no known reclamation measures carried out by past or present operators of the site.



Photo 48-1: View of Trench 1 at Apex site. (AZ 142)



Photo 48-2: View of Shaft 1 in Trench 3 at Apex site. (AZ 132)



Photo48-3: View of abandoned wood cabin located at Apex site. (AZ 200)