

81-#3-#8872

PROSPECTING REPORT

ON THE

HATTIE MINERAL CLAIM

TRAIL CREEK MINING DIVISION

Nature of Report: Prospecting
Claims Involved: Hattie (L1054) Rec. No. 474
Mining Division: Trail Creek
NTS Location: 82F/4W
Latitude: 49°05'N
Longitude: 117°49'W
Registered Owner: Guy Allen
Operator: Guy Allen
Author of Report: Guy Allen, P. Eng.
Date: January 12, 1981

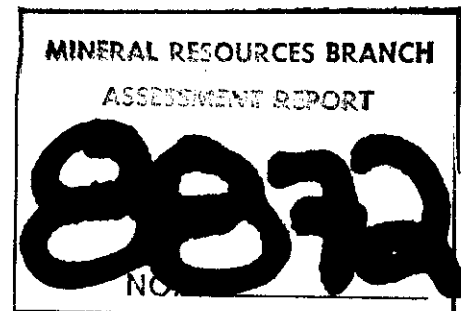


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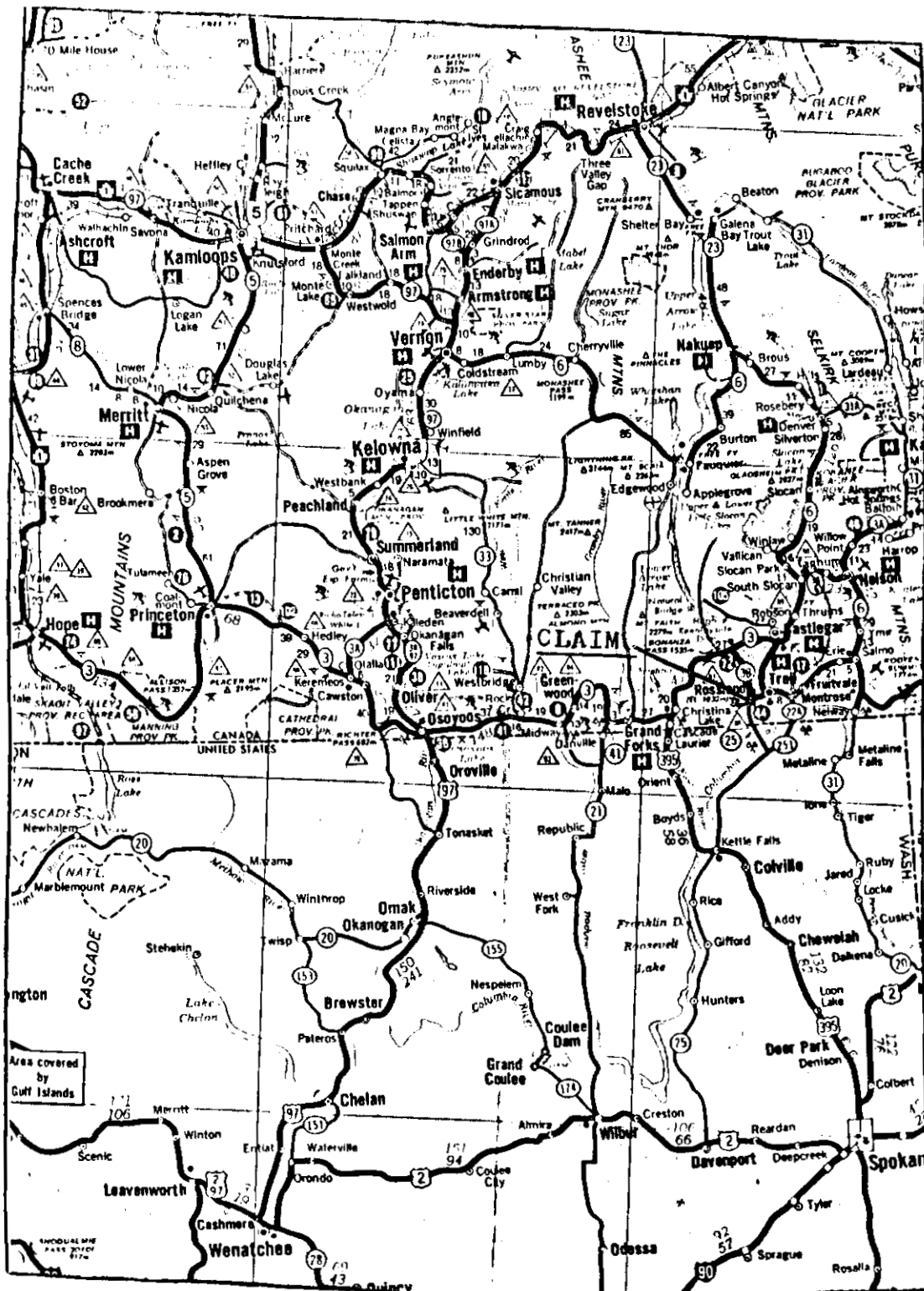


PLATE NO. 1

HATTIE MINERAL CLAIM
LOCATION MAP

Scale: 1 in. = 38 mi.

Introduction

The Hattie (L1054) claim, Record Number 474 is located in the Trail Creek Mining Division, just over a mile south of the town of Rossland, B.C. Access to the claim is by the secondary road extension from Davis Street in Rossland, south to a junction road running west just north of the Drakes Farm. The road runs through the claim.

The claim is owned 100% by Guy Allen, P. Eng., 303 Wildwood Drive S.W., Calgary, Alberta.

The history of the claim dates back to 1913, when five veins, all cropping within a width of 250 feet were reported on the Richmond and Hattie claims. These two claims were reported on in detail in the 1921 Minister of Mines Annual Report. The country rock is described as fine-grained monzonite, cut by numerous basic dykes. A series of small veins had been exposed by open cuts and shafts. General strike of the veins was east-west, and dip at about 75° . Mineralization was reported as being irregular. Sampling at that time returned: Gold - 2.01 oz/ton, Silver - 1.7 oz/ton across 26 inches of a pocket of oxidized ore; Gold - 0.33 oz/ton, Silver - 5.3 oz/ton across one foot of the same vein at the bottom of a shallow open cut. A sample taken of decomposed vein matter from one of the other parallel veins ran: Gold - 1.10 oz/ton, Silver - 2.8 oz/ton. The sulphide ore is described as being a mixture of arsenopyrite, pyrite, and chalcopyrite. In 1934 the Hattie shipped some gold-silver ore, and followed this by another nine ton shipment in 1935, and a five ton shipment in 1936. In 1949, nine tons of ore were mined.

The purpose of this year's program was to locate the veins and old workings, and sample for assay.

The area was prospected on July 13, 1980 by the author. These efforts resulted in locating the described veins and the remnants of the old workings. Samples were taken for assay.

Technical Data and Interpretation

Using the Lily May (L1050) workings as reference, the Hattie workings were located as follows.

Traversed from the Lily May workings 250 meters north, then 100 meters @ 240° to road, then 42.5 meters @ 315° along road, then 52 meters @ 355° along road to east end of trench at road. Identified

this trench as Trench No. 1. Trench No. 1 runs at 269° for 23 meters. The width varies from 2 feet to 3 feet, and the depth from 2 feet to 10 feet, with an average of 8 feet deep. There is no evidence of quartz on the dump. The country rock is a gabbro, fine to medium grained, that appears to strike at 346° and dip at 80° east. From the east end of Trench No. 1, it is 39 meters @ 320° to the east end of Shaft No. 2. Shaft No. 2 runs east-west for 5.5 meters and is 2.5 meters wide and approximately 6 meters deep. A vein 4 inches to 12 inches wide is exposed in the west wall. In the east wall the vein varies from a stringer to 6 inches wide. The vein strikes at 282° , and dips 75° north. Another small stringer is also exposed in the east wall. There appears to be the remnants of a short adit running west in the west wall, and the main vein appears to be widening near the bottom. A sample was taken for assay from the vein in the west wall (see Appendix). Trench No. 2 is 24 meters at 38° from Shaft No. 2. The trench strikes at 4° and measures 3 meters by 6 meters, and is completely caved. Trench No. 3 is 27 meters at 340° from Trench No. 2. The west end of Trench No. 3 is 8 feet deep and 4 feet wide, running east for 10 feet, and then extends as a shallow caved trench for another 15 feet. The vein as exposed varies from 2 inches to 6 inches wide, and is soft and gougy. There is no evidence of quartz, just fine-grained gabbro, crushed and sheared. The trench and the vein strike at 110° , and the vein dips at 80° north. From Trench No. 3, Pit No. 1 is 13 meters at 100° . Pit No. 1 is 15 feet by 7 feet, and is 6 feet deep and full of water. The long axis of the pit strikes at 100° . The vein was not observed.

Trench No. 4 is 29 meters at 14° from the east end of Trench No. 1. Trench No. 4 is cut into a side hill and is 6 feet deep, 4 feet long, and 3 feet wide. A vein 4 inches to 6 inches wide is exposed, which strikes at 280° and dips 80° north.

A number of additional pits and trenches lie to the east. Most are caved and filled in, with little evidence of vein material. Most of the vein material sampled was highly weathered and leached. There was a noticeable absence of mineralized material on the dumps, probably due to past shipments, breakdown by leaching, and the narrowness of the veins. There is considerable cover in the area, and a scarcity of outcrop except at the workings. The area is low and characterized by cedar swamps. There has been considerable bulldozer work and tree-cutting, probably not related to mineral exploration ventures.

One other Shaft was located on the claim, but was not tied into the other workings due to the lateness of the day. It lies to the east of the described workings, but the exact distance and compass bearing is not known. This was designated as Shaft No. 1. The country rock is andesite with a strike of 10° . The material is medium grey with uniform texture. At the shaft the material is highly weathered. A 2 inch vein of quartz and pyrite could be identified with a strike of 248° and a 70° north dip.

Five samples were taken for assay (see Appendix). These are not considered as truly representative of the vein material due to the high degree of leaching and weathering.

Conclusion

This year's prospecting venture was successful in locating and identifying the area of the old workings, but was not conclusive in evaluating the property. The veins as seen are generally quite narrow, but past sampling indicates may be quite rich in places.

Recommendations

To evaluate the potential of this claim it will be necessary to clean out the old workings, and blast fresh vein material for assay. Subsequent to this, tracing of the identified veins in covered

areas could be accomplished by bulldozing and/or blasting. Past production and reported assays justify this program.

Itemized Cost Statement

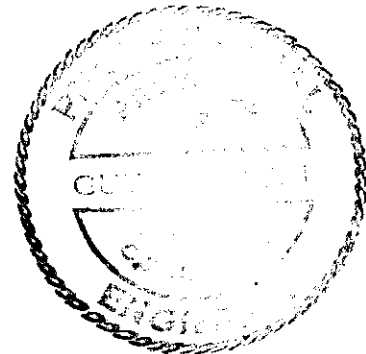
Personnel Services - Guy Allen, P. Eng.	
Prospecting: 1 day @ \$150.00	\$150.00
Report Preparation: 1 day @ \$150.00	\$150.00
Meals	\$14.75
Vehicle Mileage: Return trip from Rock Creek camp 280 miles @ 35¢	\$98.00
Assays	\$35.00
	<hr/>
Total	\$447.75

Author's Qualifications

I, Guy Allen declare that:

1. I am a consulting geologist, having practiced my profession for over 19 years;
2. I reside at 303 Wildwood Drive S.W., Calgary, Alberta;
3. I am a graduate of the University of Western Ontario, with the degree of Bachelor of Science (Honours Geology) in 1957;
4. I am a Professional Engineer, registered with the Association of Professional Engineers of the Province of British Columbia (non-resident status), and a Professional Geologist, registered with the Alberta Association of Professional Engineers, Geologists, and Geophysicists.

Guy Allen
Guy Allen, P. Eng.
Calgary, Alberta
January 12, 1981



Expiry Date April 22, 1981

