

EUREAKA CLAIM
PHYSIOGRAPHIC SURVEY, PHYSICAL WORK
and PROSPECTING REPORT

N.T.S. 82/K4
Slocan Mining Division
Long. $117^{\circ} 40'$ Lat. $50^{\circ} 02'$
Owner/Operator: R. Allen

Ralph E. Allen
January 15th, 1981

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EUREAKA CLAIM

I INTRODUCTION

a) General Geology

The claim is underlined by Valhalla plutonic rocks and would probably be termed a micro-granodiorite. Some rocks of the Slocan series are known to occur in this region and, in fact, border it on the east. The western boundary is granites of the Nelson batholith. Some lead, zinc, silver, and gold mineralization is known of in the area.

b) History of Property

Under the name of Eureka old reports are quite inconsequential. Reports by work of mouth from a local prospector were that reasonable assays can be achieved and that the property deserved a closer look. This prompted its staking. Old workings make the structure somewhat obvious and will be viewed closed in the Geology of Claims portion of **this** report.

c) Topography

The claim covers a densely grown in and very steep north slope on the south side of Caribou Creek. Elevations are from 4000 feet at creek level to 6000 feet at the L.C.P. or a difference of 2000 feet. The contours are continuous and uniform from the foot to the peak.

II PROPERTY DESCRIPTION

a) Location and Access

The Eureka claim is situated on the south side of Caribou Creek approximately 12 km. from Burton, B.C. (N.T.S. 82K/4)

Access is from Hills Siding via Shannon Creek forest access road over the height of land into the Caribou Creek watershed, by four wheel drive to the switchback to the switchback on the south side of Caribou Creek 300 metres before the second bridge crossing of the main Caribou Creek. From this point a well flagged foot access route for 1500 metres leads to the middle showing which is very near dead centre of the claim. The property is 53 km. by road from Nakusp.

b) Claim Inventory

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Staking Date</u>	<u>Assessment Date</u>
Eureka	1781	6 Units modified grid		

III WORK PROGRAMME DESCRIPTION

a) Introduction

Work was carried out on the Eureka claim from the 20th of January, 1980, to the 21st of October, 1980. Work consisting of 12 field trips to the property whereby the following was done: Physiographic survey in conjunction with reconnaissance prospecting, some surface blasting was done in the immediate vicinity of the middle showing.

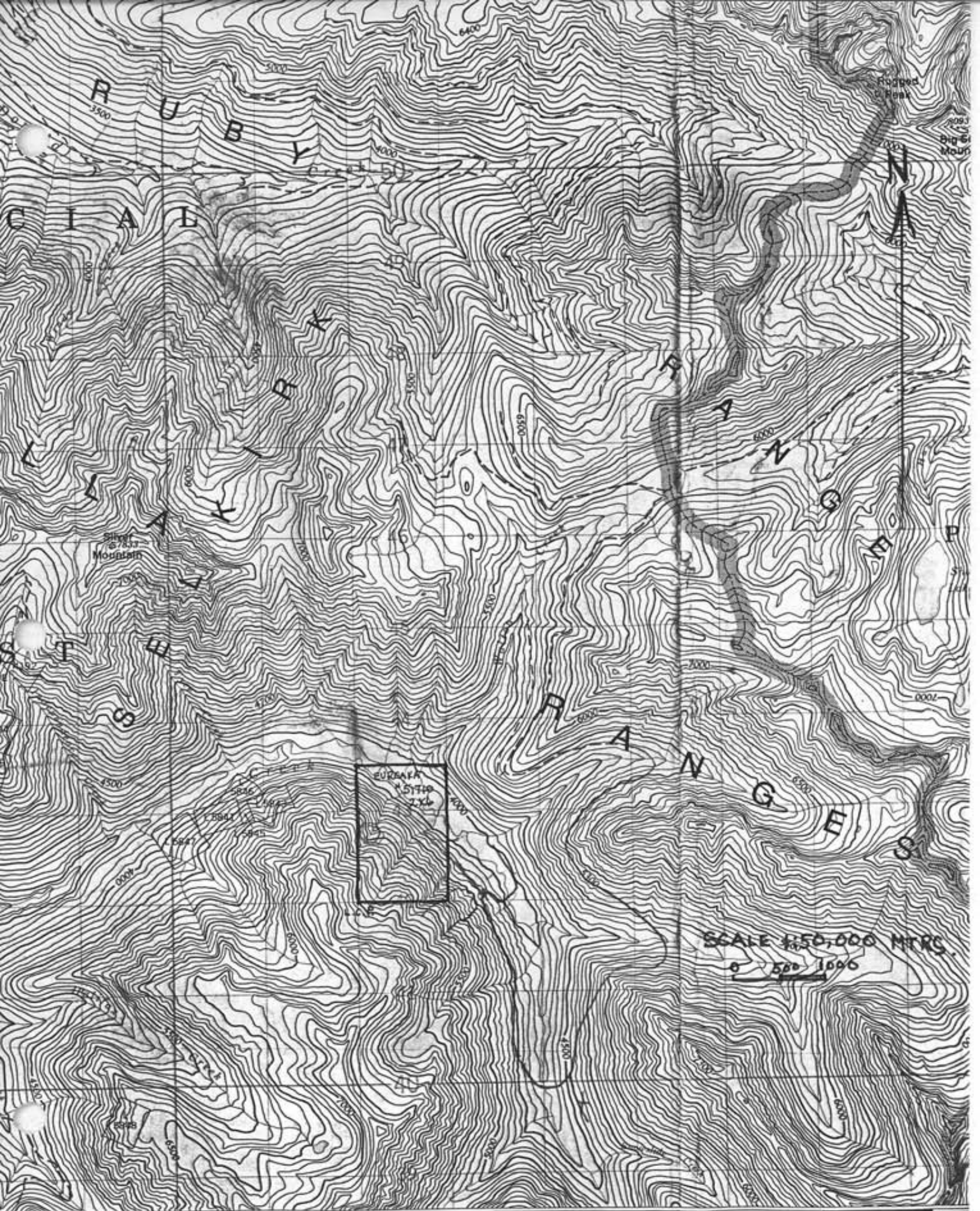
b) Geology of Claims

The Eureka claim being the area under consideration is underlain by a micro-granodiorite and part of the Valhalla intrusives. There are two prevalent sets of fractures:

Set #1 - North 60° west and dipping 15° southwest;

Set #2 - North 5° west and dipping 80° vertical easterly.

Small areas of a meta-sedimentary group, dominately argillites and it is probably that they are roof-pendants of the Slocan series. A shear zone approximately 6 metres in width striking north 30° east and dipping 70°



49 50 51 52 40' 53 54 55 56 57 58 35'

northwesterly is the dominant structure and also hosts the sulphide mineralization that the old workings were confined to.

c) Physiographic Survey

This claim has been traversed extensively both horizontally and vertically on the northern 4 units. The southern 2 units will undergo study in the following exploration field season as more intensive helicopter work is required to scale the near vertical nature of these units.

The physiographic study may be pending its own credibility although serious and contentious study of road access layout was undergone early in the season. The B.C.F.S. announce plans of extending logging roads down the southside of Caribou Creek and through the claim. This announcement of B.C.F.S. road access study was not made known until late in the field season.

d) Physical Work

Quartz-sulphie ore was found on the Eureka slide but not local to the old workings. Approximately 4 cubic yards of surface blasting and muck removal followed only to find that the showing was an accumulation of float rock. This rock was assayed prior to the blasting and is reported in the prospecting report portion of this report.

e) Prospecting Report

Due to steepness and dense undergrowth only the northern 4 units had been traversed before heavy snows on the southern 2 units put an end to the programme.

Rough grid consisting of 1000 metre lines approximately 200 metre spacing was traversed over the north 4 units. Entire lines were not flagged or blazed. Only specific points of interest were marked and referred to on a master map (enclosed).

I do theorize that this shear has had post mineral movement by the nature of the quartz sulphide lenses it contains. These lenses are two to three feet in width and ten to twelve feet in length and are quite uniform in their widths, not tapering or pinching as is more or less conventional of shear zone lenses. Although the geology as of yet does not give evidence as such, it is my belief that the possibility exists for a plutonically hosted fissure vein that intersects the shear at which point some cross-veining or lense formation occurred within the shear zone after which additional movement of this shear may have caused the angular and fragmental nature of the quartz-sulphide lenses inspected to date.

Assay of float quartz-sulphide containing pyrite, pyrrhotite, sphalarite and galena done by Mr. R. Fisher, Chief Assayer for Silvana Mines, at New Denver, B.C., show:

Ag	Pb%	Zn%	Au.
46.5	12.6	3.9	.14
oz. per ton			oz. per ton
1594.5g/t			4.8g/t

IV CONCLUSIONS

Conclusions for 1980 are in keeping with the 1981 exploration outline.

1981 Exploration Outline:

- a) Four 1000 metre lines, soil sampling at 50 metre intervals to test the theory of an igneous hosted fissure.
- b) Reconnaissance prospecting of the southern two units of the claim.
- c) An in-field follow-up on geo-chemical anomalies.
- d) The employ of a geological consultant to verify the above and make recommendations.

STATEMENT OF COSTS

12 trips from Nakusp by four wheel drive at 106 km. round trip @ 25¢ per km. (B.C.F.S. rates):	\$ 318.00
Surface blasting, 4 cubic yards @ ^{46.00?} \$27.50 per yard	110.00
Helicopter by Terr-Air Rotary Ltd.	415.00
Helicopter by Terr-Air Rotary Ltd.	547.50
Man hours - 122 hours @ \$8.00 per hour	976.00
Assays - one four metal @ \$7.00 per metal	28.00
	<hr/>
	\$ 2,394.50
Traversed 5 line kilometres @ per km.	

STATEMENT OF QUALIFICATIONS

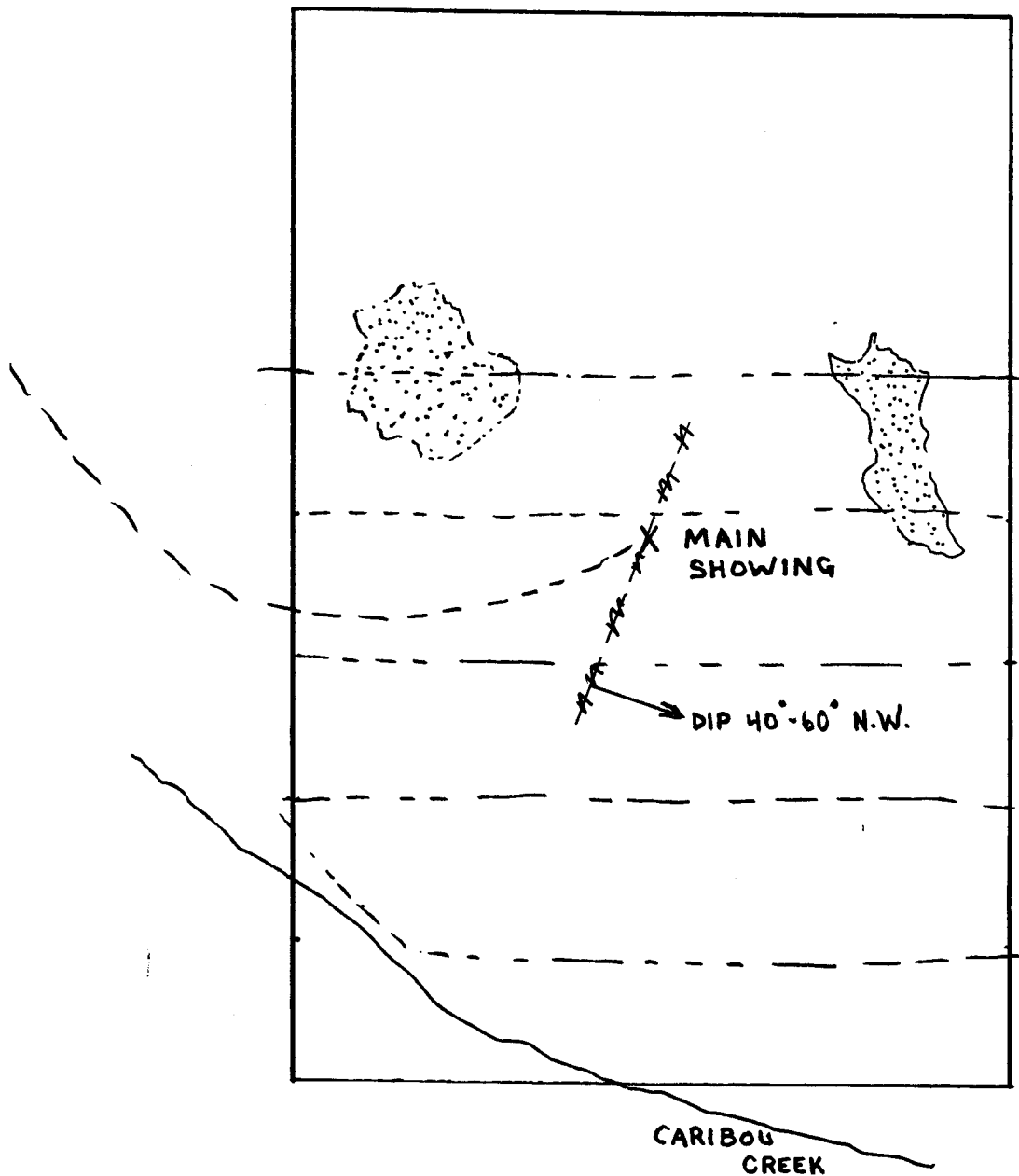
I, RALPH E. ALLEN, of Box 657, Nakusp, British Columbia, do
certify that:

- 1) I am presently active in the mining industry as a prospector.
- 2) In the 1979 field season I learned the fundamentals of geology while in the employ of BRENDA MINES LTD. My duties were:
 - 1) grid establishment and linecutting;
 - 2) geochem sampling;
 - 3) geological mapping;
 - 4) reconnaissance prospecting
- 3) In January 1981 I completed a rock and mineral identification course given by George Adie, Resident Government Geologist, from Nelson.





Ralph E. Allen
Prospector

EUREKA - MASTERMAP



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8951
NO. _____

LEDGEND

- FLAGGED FOOT ACCESS
- UNFLAGGED TRAVERSES
-  ROOF PENDANTS
-  SHEAR ZONE

SCALE 1:10,000 MTRS.



DRAWN BY: R ALLEN