

J.C. STEPHEN
EXPLORATIONS LTD.

672383

WEEKLY CAMP REPORT

PROJECT Target (Bron Prospecting) CAMP NAME Charlie

NTS MAP SHEET 93F/14E DATES May 16 - May 31, 1981

AIR PHOTOS BC-5427 #184 LAT. & LONG. _____

SILT SAMPLE SERIES 81-TAX-1 to 81-TAX-3, 81-TAX-201 to 81-TAX-223

SOIL SAMPLE SERIES 81-TAC-1 to 81-TAC-7, 81-TAC-101 to 81-TAC-108,

ROCK SPECIMEN NUMBERS		Ag	As	Au	
<u>27651 C</u>	<u>1.7</u>			<u>20</u>	81-TAC-120 to 81-TAC 201 to 81-TAC-299,
27652 C	2.1	17	<10		81-TAC 301 to 81-TAC-344
27653 C	0.7	39	<10		81-TAC-120 to 81-TAC-152
27654 C	0.3	7	10		81-TAC-180 to 81-TAC-191
27655 C	0.1	6	10		
27656 C	0.1	14	10		
27657 C	0.1	10	<10		
27658 C	0.1	7	<10		

Bran Prospecting Report

Charlie Camp

May 16 - May 31, 1981

Crew : Glen Prior

Eleanor Soley

Norm Silins

During the later two weeks of May the members of camp Charlie conducted a prospecting program which extended from the Bran claim group southeastward to the Cabin Lake property. Previous work including geologic mapping, stream sampling, and rock sampling was conducted performed by B. Fraser and D. Guglielmin during the summer of 1980. Their base map provided a framework to which this survey added.

Interest in this area is caused by north-west trending fracture ^{systems.} ~~zones~~ which appear in both the Cabin Lake and Bran properties.

The north-west trending, ~~creek~~ mineralized creek in the Bran property is the major linear structure on that claim group, and this lineation can be observed ~~traced~~ on aerial photographs to extend to near the Cabin Lake property border although the lineation is offset to the north by approximately 600 m just ~~at~~ south-east of the Bran group. This

linear feature was extensively soil sampled. Rocks in the prospected area consist of mafic extrusives and (andesites and basalts) and granodiorites and monzonites of the Topley intrusion. The Topley rocks intrude the andesite in a north-west trending block approximately 900 m wide. This intermediate intrusion ends about 500 m south-east of the Bran property. It extends well into the Cabin Lake property where granodiorite is the host rock of the ~~west~~ ~~show~~ west showing where rock geochem values of 5.9 oz/ton Ag and .25 oz/ton Au have been obtained. To the west of this showing just ~~over~~ off the property ~~the~~ ~~is~~ considerable pyrite mineralization occurs over a fairly broad area. The sulfide is concentrated in altered zones bordering fractures. Several of these samples will be sent for rock geochemistry. ~~The~~ The host rock for this pyrite is a medium grained granodiorite which is ~~the~~ characteristic of the Topley intrusive. A small area of monzonite occurs within the granodiorite ~~to~~ at the south-east corner of the study area.

The Topley intrusion is bordered to the north-east and south-west by andesitic flows and tuffs. These and the basaltic flows and tuffs located further north ~~and~~ are of marine origin.

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according to Tipper (Memoir 324 - Nechako River Map Area). He indicates that these volcanic units dip 15° to 20° to the west in this area. However, contacts between separate flows are difficult to locate and measure in the field area so this report can neither support nor contradict that observation.

Nearly all the rocks checked were somewhat magnetic but the rocks of the Topley intrusion appear to be most magnetic with visible magnetite crystals often being occurring frequently. By observing an aeromagnetic map of the region a high is observed to occur over the granodiorite and monzonite in the project area. The border of this high (approximately the 6000 gamma line) coincides reasonably well with the known contacts between the Topley intrusion and the andesites. It may be reasonable to use the aeromagnetic pattern to plot the contact where field evidence is unavailable.

Areas of interest on unclaimed ground in the area are 1) the mineralized (pyrite) granodiorite west of the "west showing" on the Cabin Lake property and 2) the area surrounding

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The creeks flowing northward into the
Nithi River which give anomalously high
arsenic values in stream silt samples.

Legend For Air Photo Enlargement

- 1a Basalt
- 1b Basaltic Tuff
- 1c Olivine Basalt
- 1d Olivine Basalt Tuff
- 2a Andesite
- 2b Andesite Tuff
- 2c Dacite
- 3 Rhyolite
- 4 Granodiorite
- 5a Monzonite
- 5b Quartz Monzonite