419

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 419 MAP

92L/3W

CLAIMS

The four claims covered by the geological, geophysical and geochemical report, are situated in the Alberni Mining Division of British Columbia, about 1-1/2 miles northwest of the head of Kashutl Inlet.

Individual claims are as follows:

CLAIM	RECORD NO.	TAG NO.	RECORDED DATE
Alfons #1	6097	406718	April 7, 1961
Alfons #2	6098	406719	April 7, 1961
Alfons #3	6099	406720	April 7, 1961
Caledonia #4	4090	203474	May 7, 1956

(See Maps A and B)

EXPENDITURES:

Geological Mapping

L.B. Gatenby, P. Eng.,

June 8th and 9th @ \$35./day = \$70.00

M. Nichol, Geologist

June 7th to 15th @ \$15./day = 135.00

B.Cs. Geological Engineering 1958 University of Saskatchewan 3 years geological experience

Magnetometer Survey

E. Cox

June 7th to 15th @ \$12./day = 108.00

University student

Geochemical Survey

E. Hansen

Prospector

June 7th to 15th @ \$12./day = 108,00

Total Expenditures

\$ 421.00

Signed	<u>Z.</u>	B. Litul) .}~{
	T., B.	GATENBY P. Eng.	1

his solution are considentiously believing it to be true, and knowing that

same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the

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vince of British Columbia, this

ncouver

L. B. Sali

Affidavits within British Columbia or

A Commissioner for taki A-Notary Public in put for the Province of British Columbia Commissioner

GEOLOGICAL SURVEY:

The area is composed mainly of monzonite and basalt. The monzonite lies under the basalt and is found only along the river banks. It is massive and medium grained. Long wide joints striking N 70° E and dipping steeply are common along the river. The basalt is widespread and has been altered in many places by epidote veins. Above the showings a wide horizontal band has been hematized and contains disseminated calcite and sometimes appears to be a hematized limestone. Above 1000 feet in elevation, the basalt contains many angular rock fragments.

A six foot wide band of limestone occurs in the basalt. It dips to the north at about 5 to 15 degrees. Magnetite and chalcopyrite have replaced part of the limestone near an almost vertical fault striking east, to only about 3 feet from the fault. Malachite and azurite are also abundant near the fault. One of the trenches contains only specularite. Copper stains are noticeably absent from outcrops other than those at the workings. Geochmeical and magnetic surveys failed to indicate any extension laterally of the mineralization.

The creek on the east boundary of the property is underlain by many bands of dolomite in the basalt. Small calcite and quartz stringers about one inch wide cut across the dolomite. An isolated outcrop of "arkose" was found containing rounded quartz grains and euhedral filagioclase grains; possibly an altered arkose.

(see Map B)

Signed "M. Nichol"

MAGNETOMETER SURVEY

The instrument used was a "Radar" Torsion Magnetometer reading the intensity of the vertical magnetic field with a sensitivity of about 25 gammas per scale division. It is manufactured by Eastern Geophysics Ltd., of 69 Kipling Ave., S. Toronto 18, Canada. In this survey the known strike length of magnetite in the limestone bed is about 150° and the area covered is about 3500° by 1000° wide. A base line was cut, chained and picketted along the river bank and cross lines up the hillside at 500° spacing were run for about 1000°. Magnetometer readings were taken on these lines at 100° spacings. For orientation purposes some detailed work was done over and around the old showings but failed to show any local extensions of the zone. This survey did not show any additional magnetic activity in the area.

(see Maps C and D)

GEOCHEMICAL SURVEY

A dithizone sampling technique with a sensitivity for heavy metals of about 50 P.P.M. was used to test the soils in the survey area. Soil samples were taken just under the humous layer on the cross lines at 100° intervals. Results are shown as back - ground, low, medium and high anomalous readings. The survey area has a relatively high percentage of outcrops and overburden is light. Under these physical conditions important concentrations of heavy metals in the rocks should show up as strong anomalous zones in the soil samples. Survey results showed a string of low intensity readings below the old mineral showings and only scattered anomalous readings elsewhere in the survey area which are not considered of ecohomic interest.

(See Maps C and D)

Signed a

L.B. GATENBY, P.Eng









