

1091

GEOLOGICAL REPORT

on the

CLAIMS OVP #49-60

located at

SW END OF TROITSA LAKE, 53°127° NE

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NAME OF HOLDER OF CLAIMS:	Silver Standard Mines Ltd.
DATES BETWEEN WHICH WORK WAS DONE:	15-31 August 1967

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Vancouver, B.C.
26 October 1967

INTRODUCTION

The work performed on the claims OVP #49-60, is part of a larger program of work which was executed during the 1967 field season.

The OVP #49-60 were visited daily from the base camp at Sweeney Lake. Transportation was by helicopter.

LOCATION

The OVP #49-60 are located 1/2 mile SW of the SW end of Troitsa Lake, 53°127' NE. The distance by helicopter, from base camp at Sweeney Lake to the helicopter pad at the SW corner of Troitsa Lake, is 16 miles.

WORK DONE

The OVP #49-60 were studied by one geologist and an assistant for ten working days between the 15th and 31st of August 1967. A geologist was required for the job to distinguish and study the interrelation of rock assemblages on these claims and to correlate them with contiguous areas. An assistant was required to take rock samples, geochemical samples, run compass lines, and generally be of assistance.

The following is a breakdown of the costs incurred on the OVP #49-60 for the ten day period:

G3 B1 Helicopter	@ \$ 100/hr for 4 hrs.	\$ 400
One Geologist	@ \$35/day for 10 days	350
One Assistant	@ \$20/day for 10 days	200
Camp & Accommodations	@ \$5/day for 20 man days	100
Base Map Preparation		<u>150</u>
		<u>\$ 1,200</u>

GEOLOGY

The rocks which underlie the claims OVP #49-60 belong to the Middle Jurassic Hazelton Group. The rocks are andesites,

basalts, rhyolite, tuffs; also, one exposure of argillite was noted.

The andesite and basalt outcrops were differentiated in the field on the basis of color. The andesites are grey, green gray, while the basalts are a dark brown to black. Both are fine to medium-grained. Basalts are often brecciated and fragments are angular to subangular.

Rhyolites are common to the east of the claims; one outcrop of rhyolite was observed on OVP #60. The rock is very white, fine-grained, and speckled with anhedral quartz phenocrysts which are up to 1/4" in diameter. Fine-grained disseminated pyrite is common.

One exposure of tuff was noted west of OVP #51. The rock is green, fine-grained and consists of lithic material.

Argillite in the area is uncommon. The exposure east of OVP #58 is heavily rust stained, the rock is very black and in places irregular layers and lenses of more silty material is discernible.

Structural features are limited to a well defined fault and a few attitudes of volcanic flows. A NNE trending fault is noted on OVP #60 and can be traced on the ground and on aerial photographs to Troitsa Lake. The general trend of volcanic flows is NW with vertical to steep southwesterly dips.

GEOCHEMISTRY

In the process of preparing an outcrop map of the area, reconnaissance geochemical soil sampling was performed. The stations and values have been noted on the geological map. Since this is a geological report, these samples will not be discussed here.

MINERALIZATION

No important mineralization was noted on the Claims OVP #49-60. Two pyrite gossans were noted, one on OVP #60 in the basalts along a small fault, and another one east of claim OVP #58 in the argillite outcrop.

CONCLUSIONS AND RECOMMENDATIONS

No valid conclusions and interpretation can be made without considering the OVP #49-60 claims as part of a larger program. One half mile to the east, granitic dikes and andesites are mineralized with chalcopyrite and molybdenite. Also, values such as of Sample T23, are considered anomalous of the area in general. Although no economic mineralization has been found to date on claims OVP # 49-60, the existence of these nearby occurrences warrants maintaining the claims in good standing until further work establishes the importance of the adjacent ground.

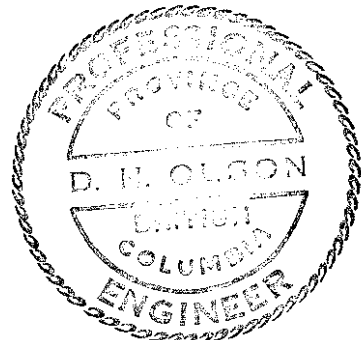


Henry Neugebauer

Supervised by:



D.H. Olson, Professional Engineer



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1091 MAP 1

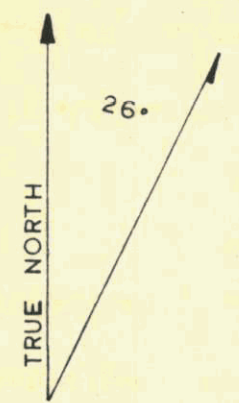
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LEGEND

- HAZELTON GRP? - ARGILLITE
- HAZELTON GRP? - RED BROWN, WELL BANDED TUFF
- HAZELTON GRP - ANDESITE; a-RHYOLITE
b-BASALT, OFTEN TUFFACEOUS AND BRECCIATED
- py PYRITE ALTERATION
- V BEDDING OF VOLCANIC FLOWS
- OUTCROP OUTLINE
- ~ FAULT
- xT21,5 SOIL SAMPLE SITE, NUMBER; PPM Cu
- CONTOUR INTERVAL 50'
- OVP OUTLINE OF OVP CLAIMS

MAP CONSTRUCTION FROM A.P. B.C. 1906: 73,74 BY LOCKWOOD SURVEY CORPORATION LTD
PACE AND COMPASS SURVEY AND GEOCHEMICAL SAMPLING BY D.H. OLSON, P.ENG AND H. NEUGEBAUER



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AMERICAN SMELTING AND REFINING Co VANCOUVER			
OMI NECA M.D.	GEOLOGY AND GEOCHEMISTRY OF		
TROITSA L. AREA	CLAIMS OVP Nos. 49 to 60		
SCALE 1" = 500'	DATE 9-29-67	DRAWN BY H.N.	APPROVED <i>[Signature]</i>