

92F/5E

REPORT ON THE GEOLOGICAL MAPPING

OF PART OF THE STAN (SUPPLEMENTARY) CLAIM GROUP

LOCATION: 5.5 miles due south of Buttle Lake, Central  
Vancouver Island.

Alberni Mining District

Latitude  $49^{\circ} 29'$ ; Longitude  $124^{\circ} 33'$

REPORT BY: G. H. Scott B.Sc., M.A.

SUPERVISED BY: B. E. Spencer B.A.Sc., P. Eng.

WORK PERFORMED BY: WESTERN MINES LIMITED acting as agent for Cream Silver  
Mines Limited.

WORK PERIODS: August 26 - 30, 1972  
September 9 - 14, 1972

September 12, 1972

3912

# 3912

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Department of  
Mines and Petroleum Resources

ASSESSMENT REPORT

NO.

3912

MAP

September 12, 1972



## INTRODUCTION.

Western Mines Limited holds under option agreement with Cream Silver Mines Limited 180 contiguous mineral claims in the vicinity of Price Creek, Bedwell Lake and Cream Lake, Central Vancouver Island.

Geological mapping was carried out during the periods August 26 - 30, 1972, September 9 - 14, 1972 in order to evaluate the mineral potential of the upper part of the Sicker Group in this area.

## LOCATION AND ACCESS.

The Stan Group covers the headwaters of Drinkwater Creek almost down to the point where Della Falls joins that creek. The northern boundary of the claim group runs due east-west through Sugar Lake, and Cream Lake is covered in the northeast corner of the group.

The valley walls of Drinkwater Creek typically have bluffs towards the top and talus slopes at the bottom, thus, making access to rock exposures difficult. Elsewhere, the flat ridge-tops, and gravel-covered valley bottoms facilitated mobility.

Stunted alpine vegetation and stands of mountain alder were typical of the higher and lower elevations respectively.

Access can be made on foot from the head of Great Central Lake to the southern end of the claims, or up Price Creek and thence, to Cream Lake. Airborne access by float plane to Bedwell Lake is feasible, and of course by helicopter to most parts of the claims.

## GEOLOGY.

### i) Structure.

Two important faults intersect one another in the map area. The Drinkwater fault runs at  $130^{\circ}$  with a downthrow toward the north, and the "Cream Fault" runs due north on the western edge of Cream Lake with a downthrow toward the west. This faulting appears to be the major structural feature in the area, only minor folding, probably related to the faulting, being observed. North of the Drinkwater Fault, the regional attitude had a strike of around  $30^{\circ}$  and dipped southeast at about  $45^{\circ}$ . South of the fault, there was rather more drag-folding and no regional attitude was dominant in the claim group.

### ii) Lithologies.

#### a) Sicker Group

There were no distinctive marker horizons within the Sicker Group and thus, stratigraphic correlation was not possible. A cherty bedded tuff, used in other areas as a marker horizon, outcropped only on the extreme western and eastern margins of the claim group. However, using information from outside the group, it is suggested that all the rocks encountered were no more than 1500' vertical thickness below the top of the Sicker Group.

#### Dacite agglomerates and lapilli tuffs

A sequence of at least 1000' of coarse-grained pyroclastics were the highest stratigraphic rock-types encountered in the area. A dacite agglomerate was typical of this upper sequence, and consisted of rounded fragments of porphyritic andesite and medium grey aphanitic rhyolite set in a matrix of dacite lapilli to lithic tuff. The fragments had an average size of 5 cms. and comprised approximately 40% of the rock total. The dacite lapilli tuff was dark gray to purple in color, and the average size of the lithic fragments was 1 cm.

### Cherty bedded tuff

This unit comprised light gray to purple aphanitic cherty tuffs. Occasional cross-bedding indicated that the tuffs were laid down under water. Being of very limited areal extent, the tuffs were of no practical value for correlation purposes.

### b) Intrusives.

Part of the Bedwell Batholith was exposed to the south of Turquoise Lake. This <sup>an</sup> particular phase was a coarse-grained diorite with approximately 35% of the rock total consisting of pyroxene and hornblende.

Dykes originating from this batholith extensively cross-cut the agglomerate and tuff, and usually constitute approximately 40% of the outcrop area. Such dykes were characteristically porphyritic microgranodiorite but other minor phases were recognized.


### iii) Mineralization.

No mineralization of economic significance was encountered on the claim group. Where some of the dacite lapilli tuffs had been tectonically sheared, pyrite was not uncommon, both in disseminated form and along shear planes.

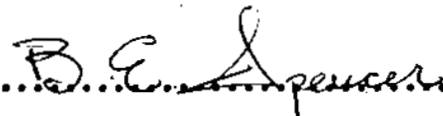
### iv) Geological Interpretation.

During Pennsylvanian-Permian time, an episode of explosive dacitic volcanic activity produced the under-water accumulation of at least 1500' of pyroclastic deposits. This was the final phase of Sicker Group volcanism which had been active since early Pennsylvanian time.

All the rocks were forcefully intruded during Jurassic-Cretaceous time by the Bedwell Batholith or dykes associated with it.

REPORT BY  .....

G. H. Scott B.Sc., M.A.

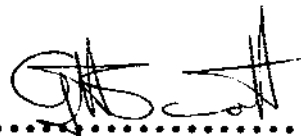
SUPERVISED BY  .....

B. E. Spencer B.A.Sc., P. Eng.

STATEMENT OF QUALIFICATIONS.

Graham H. Scott  
#4, 1377 W. 70 Avenue  
Vancouver 14, B. C.

1. I am a graduate of King's College, University of London.  
(B.Sc. Special 1968)  
I am a graduate of State University of New York at Buffalo  
(M.A. 1970)
2. I have practiced my profession with Northgate Exploration Limited,  
Toronto, and Western Mines of Campbell River over the last two years.
3. I am and have been for the past five months employed as an Exploration  
Geologist with Western Mines Limited.



.....  
G. H. Scott, B.Sc., M.A.



EXPENDITURES.

Geologists

G. H. Scott	@ \$880 p.m.	Aug. 26 - 30, 1972	\$ 200.00
G. Cooper	@ \$900 p.m.	Aug. 26 - 30, 1972	205.00
G. Cooper	@ \$900 p.m.	Sept. 9 - 14, 1972	246.00

Field Assistants

P. J. Mason	@ \$625 p.m.	Aug. 26 - 30, 1972	140.00
P. J. Mason	@ \$625 p.m.	Sept. 9 - 14, 1972	168.00
R. Gardner	@ \$500 p.m.	Aug. 26 - 30, 1972	115.00

Living Expenses

32 Man-days	@ \$8.00 per day		256.00
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Mobilization

11 days	@ \$15.00 per day		165.00
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Helicopter

3 hours	@ \$253 per hour		759.00
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Report Preparation and Draughting

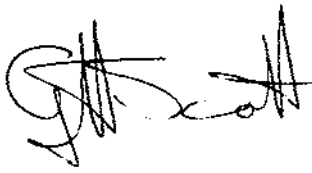
G. Scott, September 10, 11, 1972			<u>80.00</u>
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Total Expenditure	...	.....	... <u>\$2,334.00</u>
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.....  
G. H. Scott B.Sc., M.A.

.....  
B. E. Spencer B.A.Sc., P. Eng.

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *19*  
day of *Sept* *1972*, A.D.



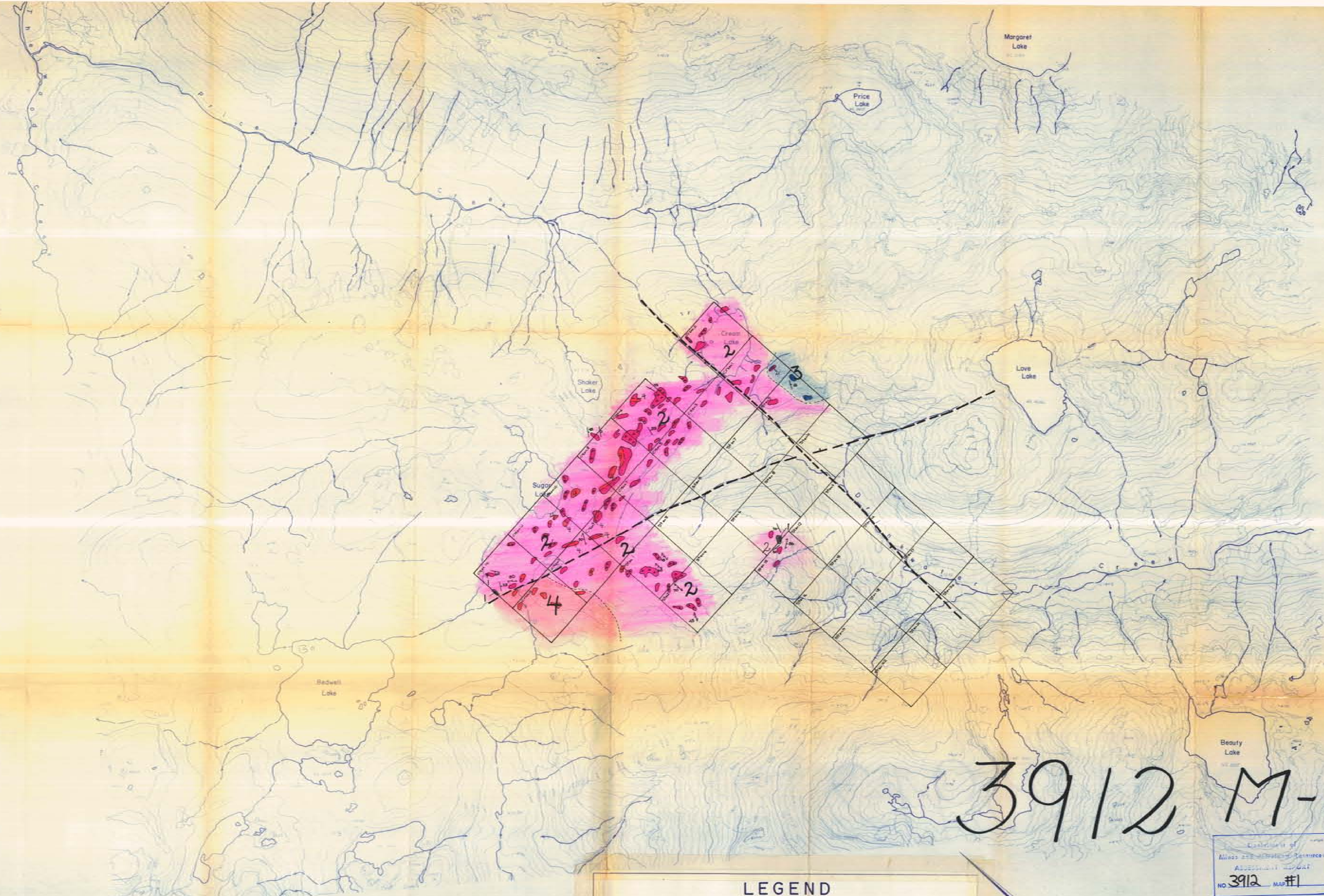
*Neil Turner*  
A Commissioner for taking Affidavits within British Columbia  
A Notary Public in and for the Province of British Columbia.  
Sub - mining Recorder

APPENDIX

Stan (Supplementary) Claim Group

<u>Claim</u>	<u>Record</u>
Stan 1-22	17046 - 17067
Cream 1-3	11497, 11498, 9418
Cream 5-14	9420 - 9427
	10394 - 10395





3912 M-1

LEGEND	
	Geologic contact (observed, inferred)
	Inferred fault (downfault side marked)
	Outcrop
	Attitude (dip in degrees, vertical) not overturned.
	Foliation (dip in degrees, vertical)
	Claim name
	Diabase (not represented)
	Granodiorite & related intrusives
	Karmutsen volcanics (not represented)
	Limestones
	Dacite agglomerate
	Dacite lithic & lapilli tuffs
	Cherty bedded tuff
	Rhyolite (not represented)

Continuation of  
 Mines and Minerals Statistics  
 Accession Number  
 NO 3912 MAP #1

This survey was made by G. H. Smith  
 U.S.G.S. in the Office of Geology, Reno, N.V.  
 July 14 September 1952.

THIS AND RELATED DATA BASED ON LIMITED SURFACE CONTROL  
 MEASUREMENTS IN 2000 FEET OR LESS. UNLESS INDICATED OTHERWISE  
 DISTANCES FROM ADJACENT INTERSECTION AT AN APPROXIMATE SCALE  
 OF 1 INCH REPRESENTS 2500 FEET ALONG A STRAIGHT LINE.

**Western Mines Ltd.**  
**Bedwell Lake Area**

PRELIMINARY RECONNAISSANCE TYPE MAPPING

Compiled by  
 MULHANNY SURVEYING & ENGINEERING LTD.  
 1200 West 4th Street  
 Vancouver, B.C.

Scale: 1:50,000  
 Date: 1952  
 Sheet: 3912 M-1