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REPORT ON THE GEOLOGICAL MAPPING OF PART OF THE B.E.H. CLAIM GROUP

REPORT ON THE GEOLOGICAL MAPPING OF

PART OF THE B. E. H. CLAIM GROUP

Location: 2 - 4 miles south of Buttle Lake, Price Ridge area,
Central Vancouver Island, B. C.
Latitude 49° 31' Longitude 125° 34'

Report by: G. H. Scott, B.Sc., M.A.

Supervised by: B. E. Spencer, B.A.Sc., P. Eng.

Work done by: Western Mines Limited as agent for Cream Silver Mines Ltd.

Work Periods: July 10, 1972 - July 15, 1972
August 7, 1972 - August 12, 1972

September 12, 1972

Mines and Petroleum Resources
REPORT
NO. 3910

CONTENTS

MAP:

#1 Geology and Claim Map. Scale 1" = 1000'

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, B. C.

Geological mapping was carried out during the periods July 10, 1971 to July 15, 1971, and August 7, 1972 to August 12, 1972 on the claim group.

The B. E. H. group consists of the following forty claims:

BEAR	11-20, 25-42
ELK	1-6
H.	1-6

Geological mapping was conducted to evaluate the Sicker Group volcanic sequence, the lower parts of which were mapped during the early summer of 1971.

LOCATION AND ACCESS.

The B. E. H. group of claims lies to the northwest and northeast of Bedwell, Sugar and Shaker Lakes and includes Price Ridge between Thelwood and Price Creeks. Geological mapping was carried out from two base camps, one being in Price Creek valley in 1971, the other on Price Ridge in 1972. Both these camps were serviced by helicopter.

Virgin forest of Pacific Red Cedar, Hemlock, and Douglas fir is found in Price Creek Valley, giving way to alpine vegetation of stunted mature trees above 4000' elevation.

GEOLOGY.

i) Structure.

The regional attitude of the volcanic rock in the claim group area is to the east and southeast at an average angle of dip of 45°. Good graded bedding and cross-bedding of some of the tuffs shows that the sequence is the right way up.

Rocks in the southwest corner of the claim group have been moderately sheared along a plane striking due north and dipping at a high angle toward the west.

A fault extends to the W.N.W. of Shaker Lake, and is probably related to a major fault passing through Bedwell, Turquoise and Love Lakes as part of the consequent stress readjustments.

ii) Lithologies.

a) Sicker Group.

A distinctive marker horizon, termed the cherty bedded tuff horizon enabled the sequence to be compiled. Elsewhere, lateral facies changes of the pyroclastic units prohibit accurate correlation.

The stratigraphic succession may be summarized as below:

(Youngest)	Dacite agglomerates and dacite lapilli tuffs	3000'
	Cherty bedded tuff	300'
	Dacite lapilli tuff	1000'
(Oldest)	Rhyodacite and minor rhyolite flows	200'

Rhyodacite and minor rhyolite flows.

The commonest member of this group consists of a porphyritic rhyodacite flow: plagioclase phenocrysts up to 4 mm. across are found in a green cherty aphanitic matrix. Elsewhere medium to dark grey aphanitic rhyodacite and rhyolite flows are found.

Dacite lapilli tuff.

Fragments of rhyolite, dacite and prophyritic andesite, ranging in size from 2 mm. to 15 mm. are found in a choritised dacite matrix. The fragments normally constitute approximately 70% of the rock total.

Cherty bedded tuff.

This unit consists of very thinly bedded cream, light grey to purple aphanitic cherty tuff. No fragments are visible even under a hand-lens. Cross-bedding indicates that the rock was laid down under water with very little contamination by detritus from other sources.

Dacite agglomerates and dacite lapilli tuffs.

Essentially the only difference between these two rock types is fragment size. The average fragment size for the agglomerate was about 7 cm. in long dimension, and such fragments were found in a matrix of choritised dacite lithic to lapilli tuff. The most common larger fragments were of porphyritic andesite, and aphanitic medium grey rhyolite.

b) Igneous Rocks.

The volcanic rocks are characteristically forcefully intruded by dykes associated with a large Jurassic-Cretaceous granodioritic batholith lying approximately 0.5 miles to the south of the claim group. The most common phase of this intrusive is a porphyritic microgranodiorite in which idiomorphic plagioclase crystals and rounded quartz phenocrysts are found in a light grey, sometimes aphanitic dacitic groundmass.

The dykes account for approximately 20% of the outcrop area.

iii) Mineralization.

Magnetite-quartz-pyrite veins were common in the southern part of the claim group, and could be traced directly to the intrusive. Elsewhere light disseminations of pyrite were occasionally found in sheared rhyodacite and dacite lapilli tuffs.

iv) Geological Interpretation.

The Sicker Group in this area probably represents part of an island are volcanic sequence in which explosive activity of a dacitic nature was most common. A cessation of activity allowed the subaqueous accumulation of approximately 300' of fine-grained cherty tuffs before another cycle of explosive activity began. In Late Jurassic or Early Cretaceous time, the volcanic rocks were forcefully intruded by dykes originating in the nearby batholith. Large scale faulting probably also took place during this time.

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

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

EXPENDITURES.

Geologists

G. Cooper	@ $41/day	Aug. 7 - Aug. 12, 1972	$246.00
R. Prescott	@ $35/day	July 10 - July 15, 1972	$210.00
A. Randall	@ $35/day	July 10 - July 15, 1972	$210.00
G. Scott	@ $40/day	July 10 - July 15, 1972	$240.00
G. Scott	@ $40/day	Aug. 7 - Aug. 12, 1972	$240.00

Field Assistants

R. Gardner	@ $23/day	July 10 - July 15, 1972	$138.00
R. Gardner	@ $23/day	Aug. 7 - Aug. 12, 1972	$138.00
P. J. Mason	@ $28/day	July 10 - July 15, 1972	$168.00
P. J. Mason	@ $28/day	Aug. 7 - Aug. 12, 1972	$168.00

Living Expenses

54 Man-days	@ $8.00/day	$423.00

Mobilization

12 days	@ $15.00/day	$180.00

Helicopter

4 hours	@ $253/hr.	$1,012.00

Report and Draughting

G. Scott, September 6, 7, 1972	$ 80.00

Total Expenditure	$3,453.00

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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 29
day of Sept 1972, A.D.

A Commissioner for taking Affidavits within British Columbia.
A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

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

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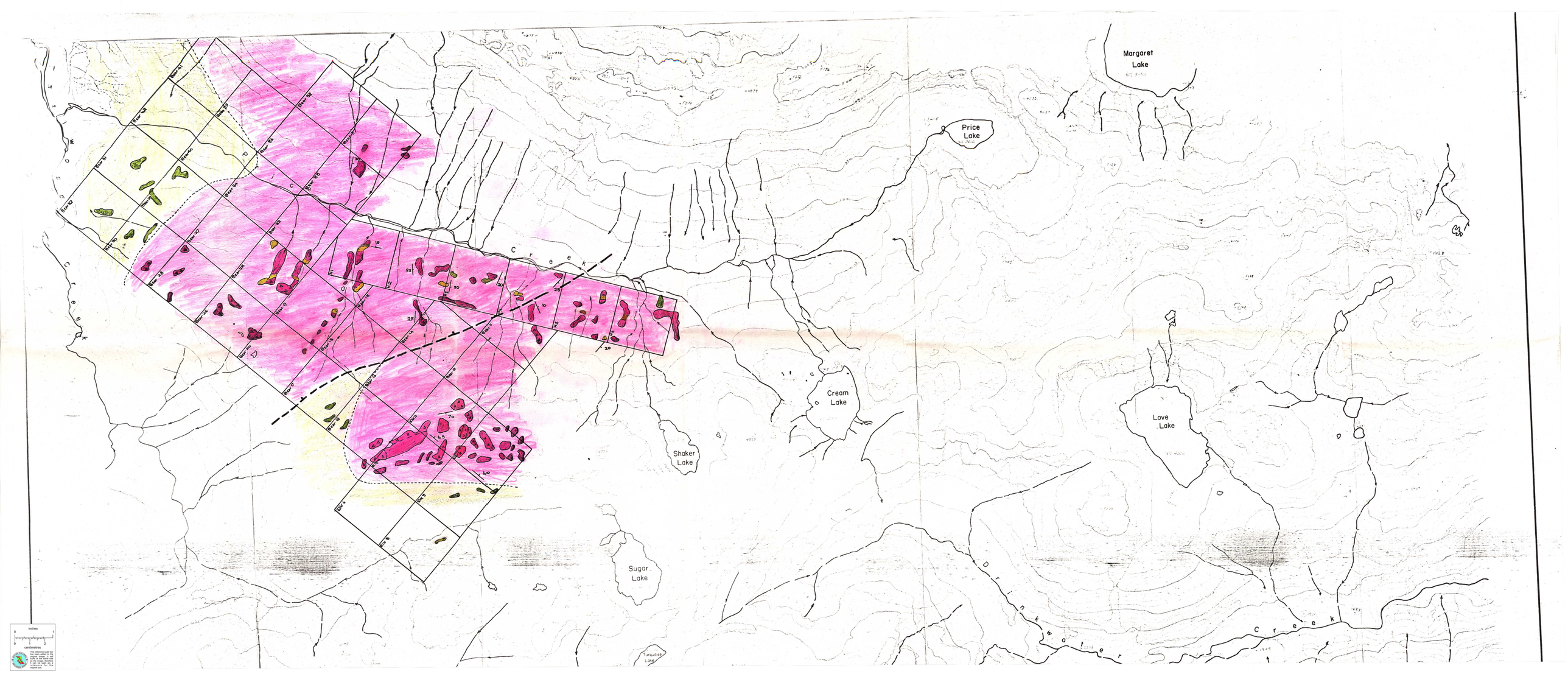
G. H. Scott, B.Sc., M. A.

APPENDIX

Claim	Record
Bear 11-20	10362 - 10371
Bear 25-30	10376 - 10381
Bear 31 fr. and 32 fr.	10382 and 10383
Bear 33-36	10384 - 10387
Bear 37fr., 38fr., 39fr.	10388 - 10390
Bear 40	10392, 10393
Elk 1-6	12326 - 12331
H 1-6	17129 - 17134


Sugar Lake
Turquoise Lake
Bedwell Lake
Drinkwater Creek
Beauty Lake
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
Granodiorite & related intrusives
Karmutsen volcanics (not represented)
Limestones
Dacite agglomerate
Dacite lithic & lapilli tuffs
Cherty bedded tuff
Rhyolite
Department of
Mines and Resources
NO. 3910 MAP #1
To accompany geological report by Graham H. Scott B.Sc., M.A. on the B.E.H. Group, Alberni M.D. dated 14 September 1972.
SCALE AND ELEVATION DATUM BASED ON LIMITED GROUND CONTROL RESULTING IN GOOD RELATIVE, BUT UNCERTAIN ABSOLUTE MAP ACCURACY
COMPILED FROM AERIAL PHOTOGRAPHY AT AN APPROXIMATE SCALE OF 1 INCH EQUALS 3200 FEET FLOWN IN 1962
Western Mines Ltd.
Bedwell Lake Area
PRELIMINARY RECONNAISSANCE TYPE MAPPING
Compiled by
McELHANNEY SURVEYING & ENGINEERING LTD.
1200 West Pender St.
Vancouver, B.C.
SCALE
CONTOUR INTERVAL
100 Ft.
DATE
JOB NO.
SHEET NO.
inches
centimetres


Margaret Lake
Price Lake
Cream Lake
Shaker Lake
Love Lake
Sugar Lake
Turquoise Lake
Drinkwater Creek
Creek
inches
centimetres