REPORT ON THE GEOCHEMICAL SURVEY OF
PART OF THE B. E. H. CLAIM GROUP

LOCATION: 2-4 MILES SOUTH OF BUTTLE LAKE, LOWER
PRICE CREEK AREA AND THE RIDGE BETWEEN PRICE
AND THELWOOD CREEKS, VANCOUVER ISLAND, B. C.
LATITUDE 49° 31' 125° 34'

92F/12E

3243

REPORT BY: D. G. Wilbur B. Sc.
SUPERVISED BY: B. E. Spencer B.A.Sc. P. Eng.
WORK DONE BY: Western Mines Ltd. as agent for
Cream Silver Mines Ltd.
WORK PERIOD: May 24th 1971 - June 8th 1971

3243

Date: July 1971

CONTENTS

Report on the Geochemical survey of part of the B. E. H. group of claims.

INTRODUCTION

Western Mines Ltd. holds under option agreement with Cream Silver Mines Ltd. a block of 180 mineral claims in the area of Price Creek and Cream Lake south of Buttle Lake, Vancouver Island, B. C.

A soil geochemistry survey was carried out on the B. E. H. group of claims from May 24th, 1971 to June 8th, 1971. The B. E. H. group is composed of the following 40 claims:-

Bear claims 11 - 20 & 25 - 42, Elk 1 - 6 and H. 1 - 6.

The object of the survey was to test for possible extensions of an anomalous copper - zinc zone some 7,200 feet in length on the east side of lower Price Creek. This soil anomaly was first detected by Agilis Exploration Services Ltd. in 1970 whilst under contract to Cream Silver Mines Ltd.

GEOCHEMICAL SURVEY

GRID

A control grid using chain and compass to a total distance of approximately 3 line miles. The lines which run N65°E were spaced 500' apart and stations were marked by flagging @ 100' intervals.

FIELD PROCEDURES

Soil samples were collected using a small hand shovel at the stations on the grid lines. The 'B' horizon residual soil beneath the organic layer was sampled, usually 3 - 12 inches below the surface. The samples were deposited and stored in kraft paper envelopes prior to assaying.

A total of 151 samples were taken on this grid.

GEOCHEMICAL ASSAYING

The soil samples were assayed in the mine laboratory of Western Mines Ltd. under the direction of Mr. Joe Isaacs B. Sc. (Chem.). Method of determination of copper and zinc as follows: -

1) Dryed in an electric oven
2) Screened to - 80 mesh

3) 0.5 grm sample weighed out and digested in 5 mls. hot HCl & $HClO_3$ for 1 hour and evaporated to dryness.

4) Residue from 3) dissolved in 40 mls. of water

5) Tested on the Atomic Absorption Spectrophotometer against known standards.

The results obtained were reported in parts per million.

INTERPRETATION AND DISCUSSION OF RESULTS

Copper and zinc values were grouped in 20 p.p.m. units and plotted against frequency see histograms fig 1. From these plots and by comparison with data obtained in previous years by Cream Silver Mines Ltd. the following are considered anomalous: -

Copper - greater than 180 p.p.m.

Zinc - greater than 130 p.p.m.

The present work has extended the area of generally high background copper as previously detected on the east side of Price Creek with isolated small peaks. The west side of the valley contrasts from the east side in having a much lower background over essentially the same stratigraphical succession.

The zinc contour map shows slightly higher than background values are more common at the southern end of the grid.

The following origins for the high diffuse background of the present grid and previous grids on the east side of Price Creek -

1) Widespread occurence of strata containing small amounts of disseminated copper.

2) Large copper rich body masked by talus.

3) Gravity transported anomaly from higher elevations

The first two suggestions may be almost entirely discounted following an examination of outcrop which is neither copper bearing nor substantially masked by talus. Suggestion 3 appears the most likely at present for two reasons: -

a) The highest copper values appear on or adjacent to slide areas and b) pyrite with some chalcopyrite has been found in dark argillites

comprising a small proportion of some of the slides. These argillites are known to be both stratighically and physiographically higher than extent of the present and previous grids.

REPORT BY: D. G. Wilbur

D. G. Wilbur B.Sc.

SUPERVISED BY: B.E. Spencer

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

DECLARATION OF EXPENDITURES

SUPERVISION

D. G. Wilbur Exploration Geologist	May 24th - June 8th 1971	$573.00

GRID SURVEY AND GEOCHEMICAL SAMPLING

Mr. Domeij	Geological Technician	May 24th - May 31st 1971	$196.00
J. D. Leishman	Field Assistant	May 24th - June 8th 1971	$266.00
J. McMillan	Field Assistant	May 24th - June 8th 1971	$320.00
P. Mason	Field Assistant	May 24th - June 8th 1971	$266.00

REPORT AND DRAUGHTING

M. R. Domeij	Aug. 5th - Aug. 9th 1971	$122.50
D. G. Wilbur	July 20th - July 23rd 1971	$144.00

TOTAL LABOUR $1887.50

LIVING EXPENSES

56 man/days @ $7.50/day $420.00

MOBILIZATION

16 days @ $15.00/day $240.00

GEOCHEMICAL ASSAYS

Preparation 151 samples @ $0.50	$ 75.75
Analysis 302 @ $1.00	$302.00

HELICOPTER

Proportion of account attributable to B. E. H. claim group	$300.00
TOTAL EXPENDITURE	$3225.25

D. G. Wilbur B.Sc.

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

STATEMENT OF QUALIFICATIONS OF:

David G. Wilbur
203 - 860 Alder Street
Campbell River, B. C.

1. I am a graduate of the University of Durham (England) (B. Sc. (Hons.) 1965)

2. I have practiced my profession with the Geological Survey of Gt. Britian, Warren Spring Laboratory, (Ministry of Techology), Gt. Britain, Gortdrum Mines Ltd., Ireland and Western Mines, British Columbia over the past six years.

3. I am and have been for the past twelve months employed as an Exploration Geologist with Western Mines Ltd.

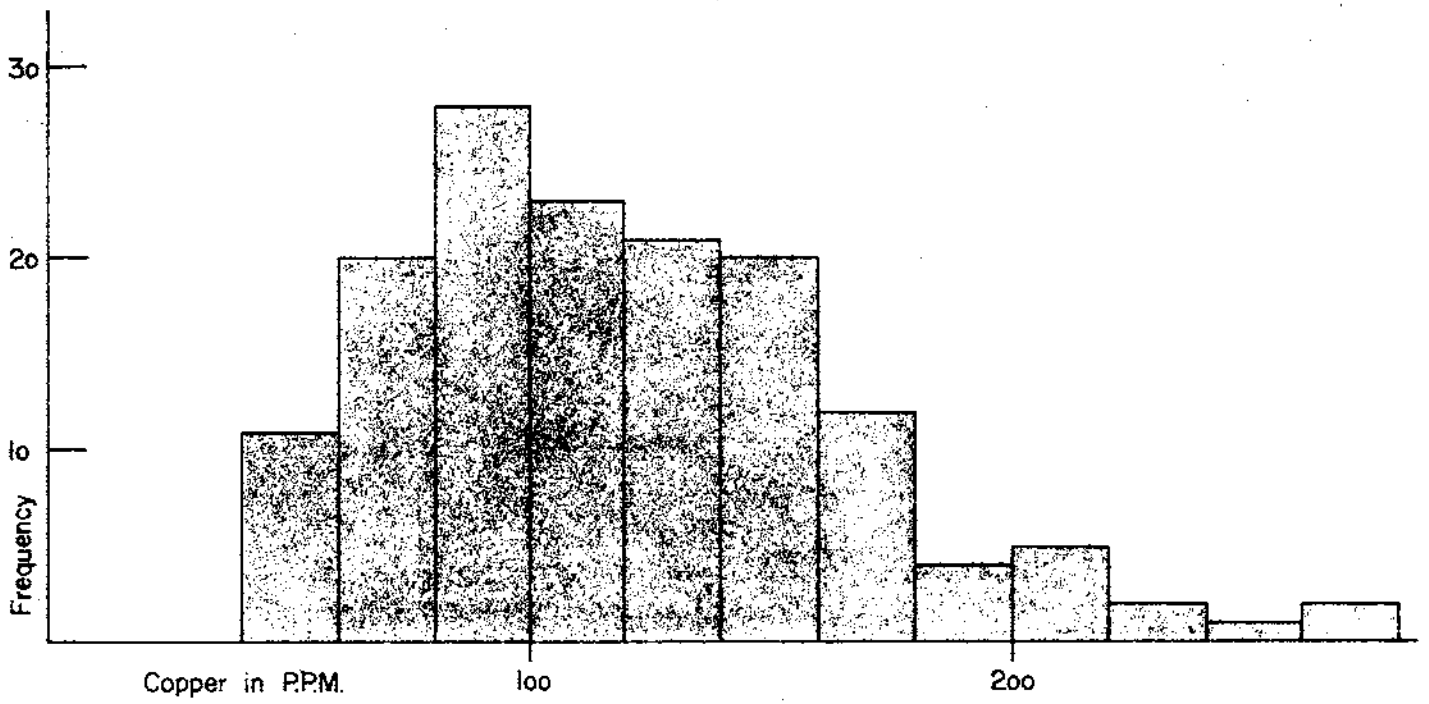
D. G. Wilbur

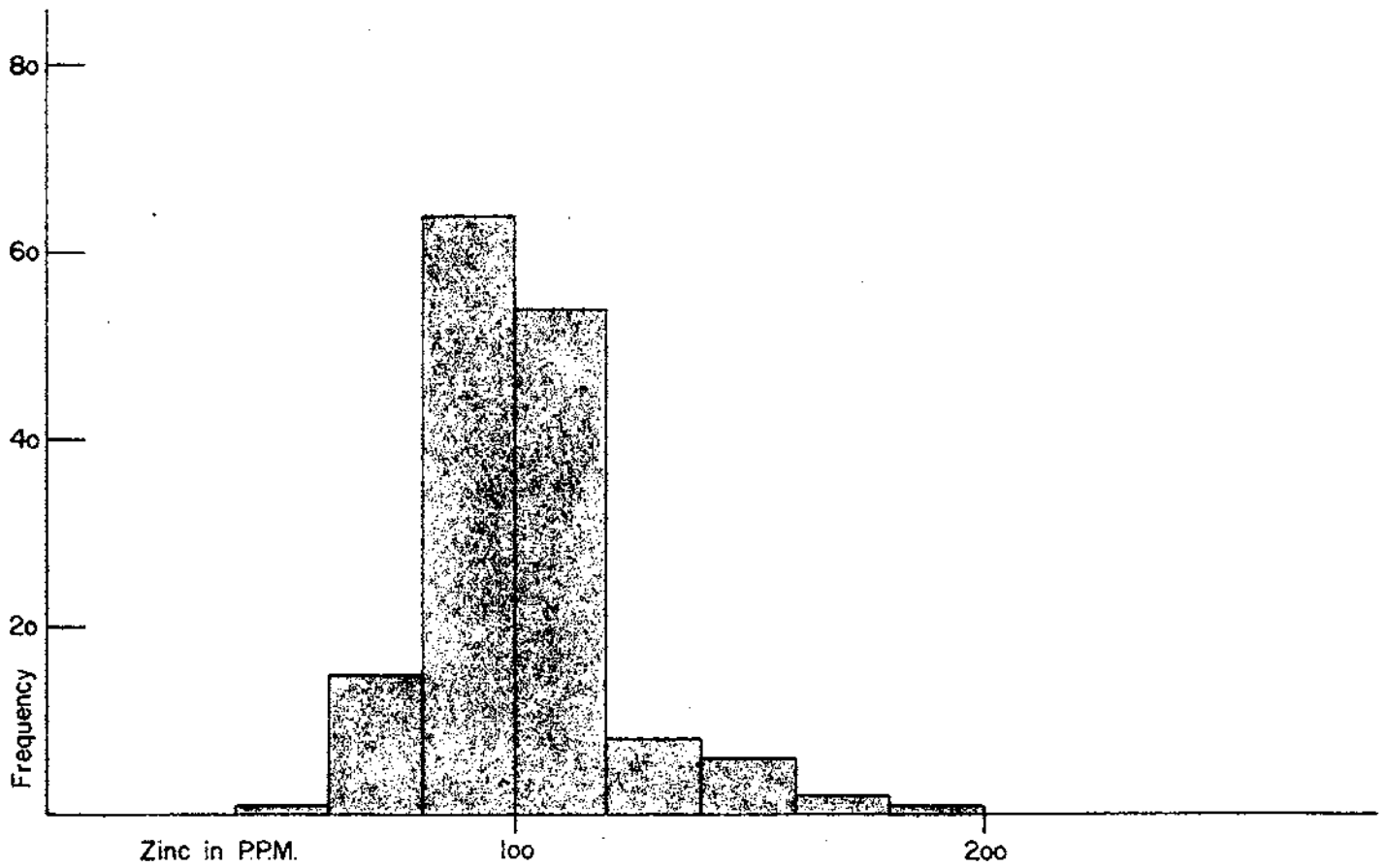
D. G. Wilbur B. Sc.

APPENDIX

B. E. H. CLAIM GROUP

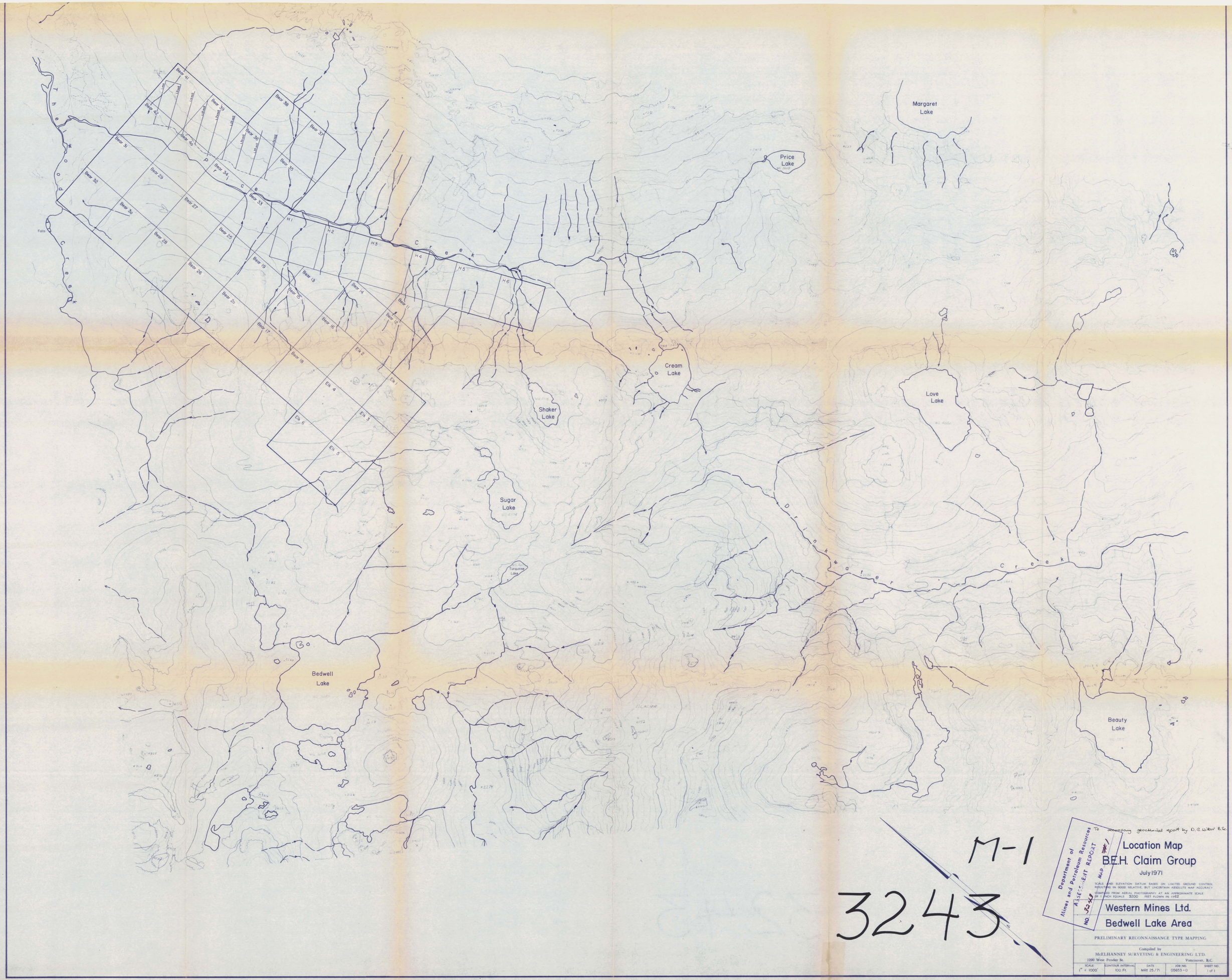
CLAIM		RECORD NUMBERS
Bear	11 - 20	10362 - 10371
Bear	25 - 30	10376 - 10381
Bear	31 fr. and 32 fr.	10382 and 10383
Bear	33 - 36	10384 - 10387
Bear	37 fr, 38 fr, 39 fr.	10388 - 10390
Bear	40	10391
Bear	41 fr.and 42 fr.	10392 and 10393
Elk	1- 6	12326 to 12331
H	1 - 6	17129 - 17134





Geochemical Histogram
Copper & Zinc Values in P.P.M.

Western Mines Ltd.
July 1971



M-1

3243

Department of Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3243
MAP

To accompany geochemical report by D.G. Wilson B.Sc.

Location Map
B.E.H. Claim Group
July 1971

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

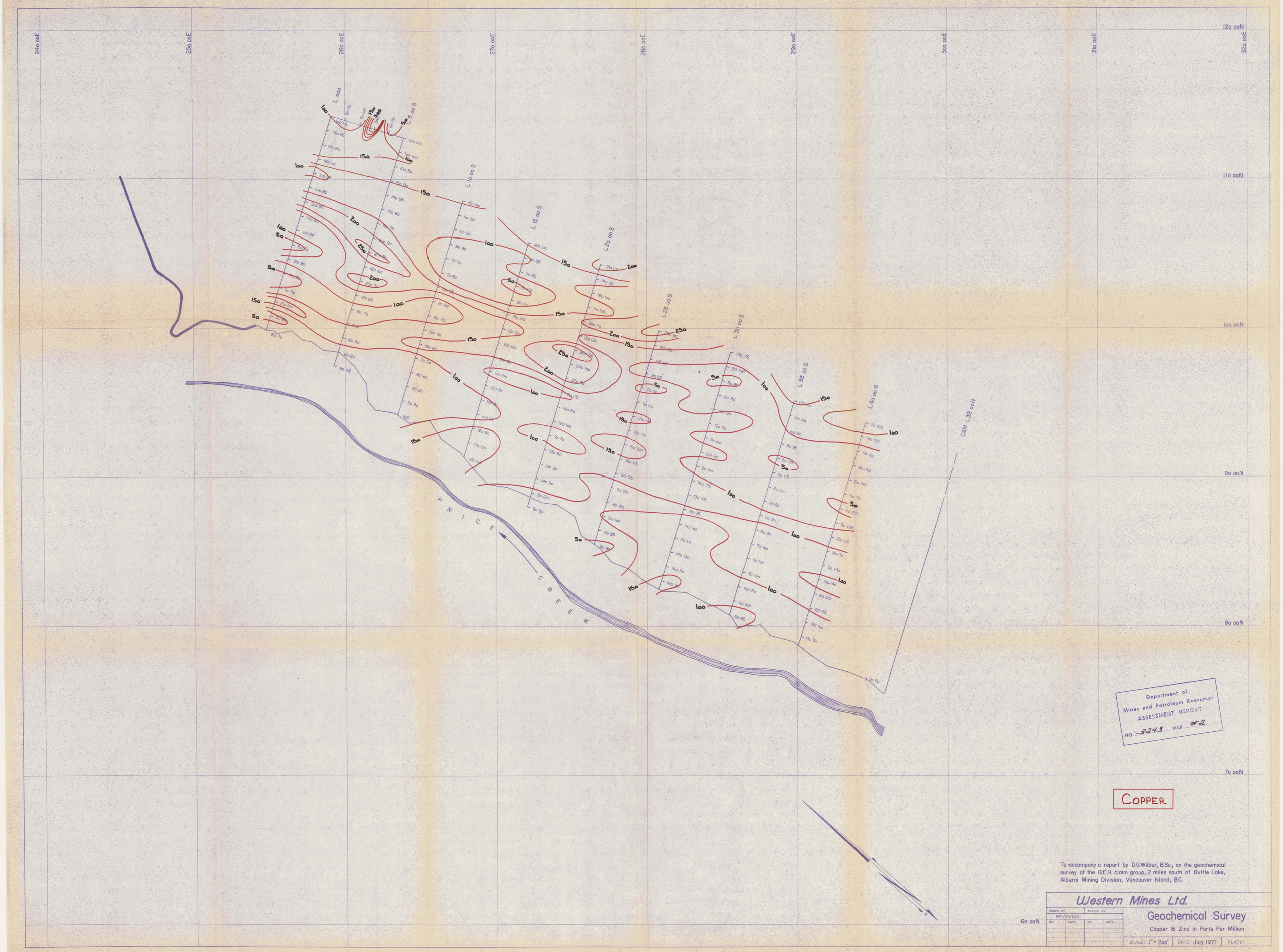
Western Mines Ltd.

Bedwell Lake Area

PRELIMINARY RECONNAISSANCE TYPE MAPPING

Compiled by
McELHANNEY SURVEYING & ENGINEERING LTD.
1200 West Pender St. Vancouver, B.C.

SCALE	CONTOUR INTERVAL	DATE	JOB NO.	SHEET NO.
1" = 1000'	100 Ft.	MAY 25/71	05653-0	1 of 1


240 00E
250 00E
260 00E
270 00E
280 00E
290 00E
300 00E
310 00E
320 00E
120 00N
110 00N
100 00N
90 00N
80 00N
70 00N
60 00N
L 000
L 5 00 S
L 10 00 S
L 15 00 S
L 20 00 S
L 25 00 S
L 30 00 S
L 35 00 S
L 40 00 S
CSM L 32 00N
PRICE CREEK
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3243 MAP #2
COPPER
To accompany a report by D.G.Wilbur, B.Sc., on the geochemical survey of the B.E.H. claim group, 2 miles south of Buttle Lake, Alberni Mining Division, Vancouver Island, B.C.
Western Mines Ltd.
DRAWN BY:
TRACED BY:
REVISIONS:
BY: DATE: BY: DATE:
Geochemical Survey
Copper & Zinc in Parts Per Million
SCALE: 1" = 200'
DATE: July 1971
PLATE:


240 00E
250 00E
260 00E
270 00E
280 00E
290 00E
300 00E
310 00E
320 00E
120 00N
110 00N
100 00N
90 00N
80 00N
70 00N
60 00N
L 000
L 5 00 S
L 10 00 S
L 15 00 S
L 20 00 S
L 25 00 S
L 30 00 S
L 35 00 S
L 40 00 S
CSM L 32 00N
PRICE CREEK
100
150
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3243 MAP #3
ZINC
To accompany a report by D.G.Wilbur, B.Sc., on the geochemical survey of the B.E.H. claim group, 2 miles south of Buttle Lake, Alberni Mining Division, Vancouver Island, B.C.
Western Mines Ltd.
DRAWN BY:
TRACED BY:
REVISIONS:
BY: DATE: BY: DATE:
Geochemical Survey
Copper & Zinc in Parts Per Million
SCALE: 1" = 200'
DATE: July 1971
PLATE: