

92H/16E

GEOCHEMICAL REPORT

KATHLEEN MOUNTAIN GROUP (Chub 13  
to 16, Myrtle 1 to 10, Pig 19,  
21, 23 to 26)

{15 miles west of Peachland,  
49° 120° ~~E~~  
N

DR. A. C. SKERL

P. Eng.

92H-76

BRENNAC MINES LTD. &  
BRENCOLL MINES LTD.

June 15th to 30th, 1967.

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A. C. SKERL  
1758 Western Parkway,  
Vancouver, B. C.

February 26th, 1968.

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1758 WESTERN PARKWAY  
VANCOUVER 8, B.C.

February 26th, 1968.

**DR. A. C. SKERL**  
A.R.S.M., PH.D., P.ENG.  
CONSULTING MINING GEOLOGIST

GEOCHEMICAL SURVEY

KATHLEEN MOUNTAIN GROUP  
(15 miles West of Peachland,  
49° 120' E)  
N

BRENNAC MINES LTD. and BRENCOLL MINES LTD.

INTRODUCTION

As a result of the favourable results obtained in prospecting this area in 1966 a systematic geochemical survey was organized by the writer in 1967.

SITUATION & TOPOGRAPHY

This Group of 20 claims is on the north slope of Kathleen Mountain immediately above the upper part of Trout Creek. The elevations range from 4200 to 5800 feet.

ACCESS

A rough gravel road extends from the Darke Lake Provincial Park to Chapman Lake and the Lookout on Kathleen Mountain which is 4500 feet from the south boundary of the claims.

PROPERTY

The twenty claims are as follows:--

Myrtle Nos. 1 to 10 and Pig Nos. 19, 21, 23 to 26 all owned by BrenColl Mines Ltd.,

Chub Nos. 13 to 16 owned by BrenMac Mines Ltd.

The relative positions of these claims are shown on the accompanying map. They are all in the Similkameen Mining Division.

GEOLOGY

Mr. A. D. K. Burton, P. Eng. reported in 1966 that molybdenite mineralization was found in place in pink quartz monzonite near to this rock's intrusive contact with granodiorite.

PROCEDURE

As shown on the accompanying map three parallel lines at 2000 feet apart were set out in a west southwest direction for 6000, 5500 and 4000 feet respectively. Soil samples were collected at every 100 feet by means of an auger from the B horizon which was usually found from 6 to 18 inches below the surface. The samples were placed in numbered manilla bags.

156 samples were screened and then assayed for total copper and total molybdenum by fusing with potassium hydrogen sulphate and dissolving in HCl for copper but in water only for molybdenum. The copper was determined by the biquinol method using standards for comparison. The molybdenum was determined by the hydroxylamine hydrochloride and dithiol method using standards for comparison.

The assaying was done in BrenMac Mines own laboratory in Vancouver by technicians B. Needham and F. Eadie, who were trained in the Noranda laboratory.

RESULTS

The values obtained were plotted on the accompanying map together with those obtained previously on the 2000 feet of line in the Myrtle No. 2 and Chub No. 16 claims. The highest value reported was 100 ppm in Mo in Myrtle No. 5 claim in an otherwise mild anomaly for 800 feet in the most northerly line. From 1000 to 3000 feet east of this/earlier geochemical work had found an anomaly with values ranging up to 64 ppm Mo and extending west for 2000 feet from where molybdenite was originally found in place.

Directly uphill from the last area another set of anomalous but lower values were found for 2000 feet along the central line. The last 600 feet at the west end of this line was also fairly anomalous. Apart from two adjacent values of 3 and 4 ppm Mo the south line was devoid of molybdenum. The background value for Mo in this area appear to be nil or 1 ppm.

The four highest values for copper were 45, 55, 105 and 110 ppm with the rest of the values ranging from 5 to 35 so that no significant copper anomaly is present.

Because of the wide spacing of the lines it is not reasonable to correlate the anomalous molybdenum values between them,

RECOMMENDATIONS

1. Set out three more lines at 500 feet apart between the present north and central lines. Take soil samples every 100 feet and assay for molybdenum only.
2. Prospect the areas with the anomalous molybdenum values for actual molybdenite in place particularly uphill from the line.
3. Blast out cuts to expose any mineralized material as fresh as possible.

PERSONNEL

The line cutting and sample collecting were done by two experienced men, namely, D. Atkinson and J. Fiske with the assistance of two helpers - Messrs. B. Needham and F. Eadie. They worked for eleven days from the 15th to 30th, June, 1967 and were based in Peachland.

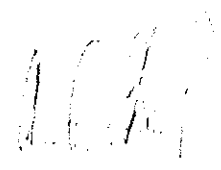
COSTS

The Costs were as follows:-

Wages for 4 men, room and board	\$1,200.00
Consultant's fees	200.00
Truck rental at \$20.00 per day	220.00
Assaying - 156 samples @ \$2.00 each	312.00
Map preparation	30.00
Travelling	<u>60.00</u>

\$2,022.00

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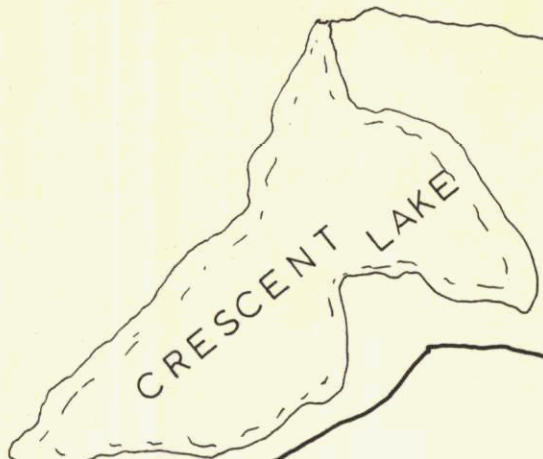
A. C. SKERL

1758 Western Parkway,  
Vancouver, B. C.  
February 26th, 1968.

C E R T I F I C A T E

This is to certify that:-

1. I, Augustus C. Skerl, am a resident of Vancouver, B. C. at the above address which is also my office.
2. I am a professional engineer licensed in British Columbia and I have practised as a mining geologist for the past 38 years of which the last 22 years have been in British Columbia.
3. My qualifications consist of the degrees of B.Sc. and Ph.D. from the University of London, England and of A.R.S.M. and D.I.C. from the Royal School of Mines, London, England, all in mining geology.
4. I have no interest nor do I expect to receive any interest directly or indirectly in the properties or securities of BrenMac Mines Ltd. or BrenColl Mines Ltd.
5. This certificate concerns my report on BrenMac Mines Ltd. and BrenColl Mines Ltd. dated February 26th, 1968.
6. I am familiar with the general area but have not been on the Kathleen Mountain group of claims. I have depended on the reports of Mr. A. D. K. Burton, P. Eng. who worked for the companies on this ground in 1966.



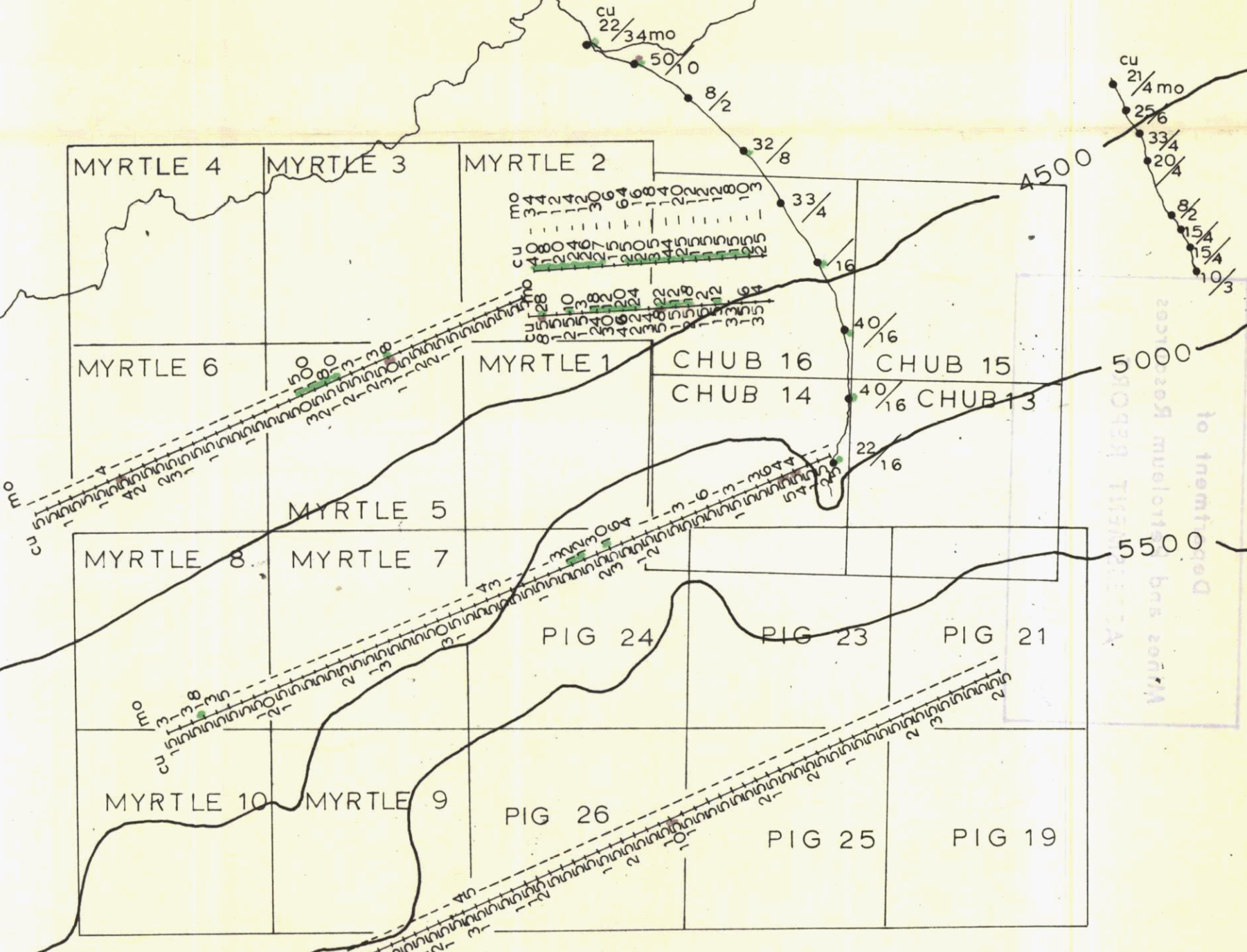
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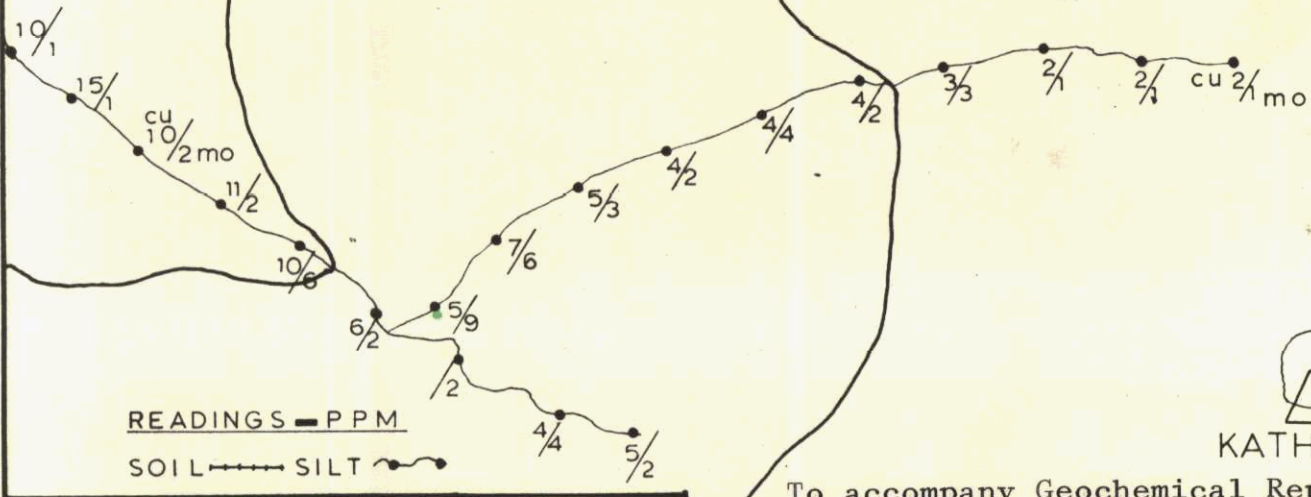
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Wastes such as tailings, concentrates  
 to treatment of  
 Department of



READINGS - PPM  
 SOIL - SILT

LOOKOUT

KATHLEEN MTN

To accompany Geochemical Report by Dr. A.C. Skerl, P. Eng.  
 on Kathleen Mountain Group, 15 miles west of Peachland,  
 Similkameen Mining Division.

GEO-CHEMICAL SURVEY  
 KATHLEEN MOUNTAIN GROUP  
 BRENNAC MINES LTD  
 BRENCOLL MINES LTD  
 SCALE: 1" = 1000' JULY 15 1967

*A.C. Skerl 26<sup>th</sup> Feb 1968*

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