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DETAIL GEOLOGY

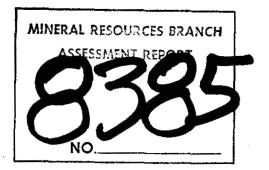
I AM 51 and 53 CLAIMS

WEAVER LAKE AREA

N.T.S. 92H/5W

49°22'N 121°52 W

Owner:	I. and D. Miller
Operator:	Chevron Standard Limited
Author:	D, Arscott



October, 1980

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Carden Street

ILLUSTRATIONS

Fig. 1: Location and claim

2: Geology

APPENDIX

Certificate

Rock sample assays

INTRODUCTION

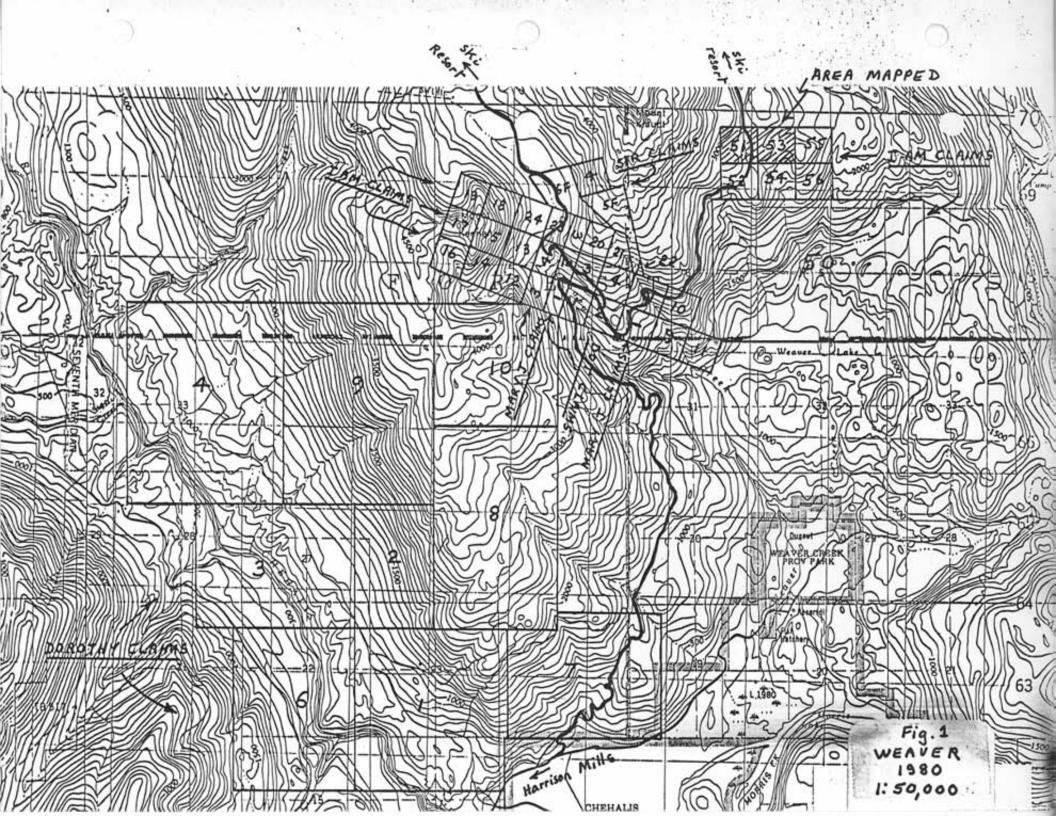
A detailed geological examination was carried out on two claims in the Weaver Lake area on the 6th and 7th October 1980. The known presence of felsic pyroclastics, marine sediments, and nearby mineralization indicated that the two claims would be a worthwhile study area as it relates to the massive sulphide potential of the Harrison Lake volcanic belt.

The area mapped is 3 km N of the W end of Weaver Lake, 15 km NNE of Harrison Mills, and 100 km E of Vancouver, B. C. It is accessible via the Hemlock Valley ski resort access road from Harrison Mills and thence via either of two logging roads leading easterly a 1 km and 4 km distance respectively S of the ski lodge.

The claims worked on, I AM 53 and 56, have record nos. 480 and 483, and are owned by Isaac and Dorothy Miller of White Rock, B. C. They comprise a part of the 37 claim (56 unit) block comprising the "Weaver" property.

Known previous work on these two claims consists of:

- A gravity survey carried out by previous operators in 1977, the results of which are not known by the writer.
- 2. A soil sampling survey by Chevron Standard Limited in 1979 during which Cu, Pb, and Zn analyses on a 50 x 100 m grid yielded good anomalies just S of the two claims, and



3. A Pulse Electromagnetic survey, also in 1979, which yielded no conductive responses of significance in the immediate vicinity.

GEOLOGY

The area mapped (see Fig. 2) proved to be extremely complex, as is typical for many parts of the Jurassic Harrison Lake volcanic complex.

The main mapping problem involved distinction of subtle variations of lithology versus alteration, and in some cases pyroclastic versus massive textures. An additional (structural) difficulty arose during interpretation.

Although a reliable stratigraphic column cannot be assembled, an overall view of the area mapped indicates a package of rhyolitic to rhyodacitic pyroclastics, 75 m or more in thickness, overlain by a similar thickness of generally well bedded fine grained sediments. These are both cut by massive rhyodacitic rocks of probably dykelike form.

Three quarters of the rocks mapped were pyrite rich, usually in disseminated form up to 5 or more %, and locally with massive veinlets up to 1 cm across. Occasionally chalcopyrite was observed in these veinlets. The spotty nature of the Cu mineralization is corroborated by the earlier soil geochemical survey covering this area.

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The most common obvious alteration had the form of strong silicification indistinguishable from rhyolitic composition in many of the pyroclastics. Where strong, this silicification was accompanied by local patches of fine anastomosing quartz stringers. Very local chloritization and sericitization was also observed.

The structure proved to be very interesting. It was possible to discern relative movements on two faults with a fair degree of confidence, including the major NS fault through the centre of the area. This fault is part of a clear km long lineament, and has been subject to a left lateral and/or E side down movement.

Bedding (NW/30SW) is relatively consistent on the E side of the property. An obvious reversal is indicated by one observation on the W side, however. This, and the apparent disposition of lithologies are suggestive of synclinal axis trending NW-SE trough the area. Such a hypothesis helps to explain the disappearance of the thickest section of sediments N of one EW striking fault. An alternative explanation would be the presence of a strong angular unconformity and this does not seem likely.

DISCUSSION

Several of the necessary elements of a Kuroko-type geological setting are present here. These include:

- (a) Felsic, and often coarse, pyroclastics
- (b) Bedded, (probable marine) sediments overlying the pyroclastics, and

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(c) Suitable footwall alteration (silicification) with local mineralized stringer systems.

Thus, a favourable target horizon for massive sulphides is present, though of limited areal extent, i.e. much of it has been eroded away. Further, it would appear that this accessible portion of the favourable horizon is not, based on the quantity and size of breccia fragments as well as the erraticness of footwall alteration, highly proximal to a volcanic centre. The potential of this specific area is therefore

- (a) limited in size
- (b) dependent on the possible accumulation of massive sulphides in a sedimentary trough now represented by the sediments. Such a trough could have been a pre-curser to the postulated syncline.

The direction to a volcanic centre is ambiguous. Strong sulphide veining and alteration in a large intermediate to felsic subvolcanic intrusive a km to the S suggest that it lies that way. On the othr hand the volume of coarse rhyolitic pyroclastic is known to increase northwards from the area mapped.

CONCLUSION

The area mapped is one of considerable geological interest but does not in itself constitute a priority drill target.

D. arscott

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COSTS

1980 MAPPING

WEAVER PROPERTY

Labour charge

D.	Arscott,	3	days	@\$150.	\$ 4	50.00
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Expenses

Analyses -	l3 rocks for Cu, Zn, Au, Ag @\$9.00	117.00	
		TT1.00	
Truck -	2 days @\$35.	70.00	
Food -	2 days @\$18.	36.00	; ?
Field Suppli	es	15.00	
Miscellaneou	IS	20.00	
	· · · · ·	258.00	258.00

TOTAL COST

\$708.00

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D. armott

D. ARSCOTT

CERTIFICATE

I, David Philip Arscott, am a Professional Engineer, registered in British Columbia with office address at 901 - 355 Burrard Street, Vancouver, B. C. V6C 2G8.

I have 14 years' experience in various phases of mineral exploration, of which 10 years have been spent in B. C. and the Canadian Cordillera.

The 1980 mapping on the Weaver project was carried out by me.

David Arscott

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David Arscott, P.Eng. October, 1980



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA V7P 2S3

TELEPHONE: 986-5211 AREA CODE: 604

Specialising in Trace Elements Analyses

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

1203264

Chevron Standard Ltd. #901 - 355 Burrard St. Vancouver, B C V6C 2G8 Attention:

 Report No:
 80 - 30 - 021
 Page 1
 of 1

 Samples Arrived:
 0ct. 16, 1980

 Report Completed:
 Nov. 4, 1980

 For Project:
 M 493

 Analyst:
 E.T. & VGC Staff

 Invoice #5956
 Job #80 365

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